



USEPA ID# NYD067539940

NYSDEC SITE NUMBER: 915244

**PARTS AND REPAIR SERVICE CENTER
GENERAL ELECTRIC INTERNATIONAL, INC.**

**175 MILENS ROAD
TONAWANDA, NEW YORK**

**COMPLETION REPORT
TWO MILE CREEK LIMITED BANK SOIL REMOVAL**

June 17, 2015

Prepared for:

GENERAL ELECTRIC INTERNATIONAL, INC.
319 GREAT OAKS BOULEVARD
ALBANY, NEW YORK

Prepared By:

AECOM

AECOM
3 Corporate Drive, Suite 203
Clifton Park, New York 12065

June 17, 2015

Ms. Jessica LaClair
Environmental Engineer
New York State Department of Environmental Conservation
625 Broadway
Albany, New York 12233-7013

RE: Completion Report
Two Mile Creek Limited Bank Soil Removal
GE Parts and Repair Service Center
Tonawanda, New York
NYSDEC Site ID: 915244
EPA ID: NYD067539940

Dear Ms. LaClair:

On behalf of General Electric International, Inc. (GE), AECOM, a successor to URS Corporation – New York (URS), is submitting this *Completion Report – Two Mile Creek Limited Bank Soil Removal (Completion Report)*. The work described in this *Completion Report* was conducted in partial fulfillment of the requirements for Corrective Action specified in the July 5, 2012 6 NYCRR Part 373 permit held by the GE Parts and Repair Service Center at 175 Milens Road in Tonawanda, New York and in general accordance with the September 29, 2014 *Two Mile Creek – Limited Bank Soil Removal Work Plan (Work Plan)*, which was approved by the New York State Department of Environmental Conservation (NYSDEC), on October 10, 2014.

1.0 BACKGROUND

The limited bank soil removal project area, which is associated with the Corrective Action Program at the service center, is located approximately 1,100 feet north of Ensminger Road and 550 feet south of Interstate 290 (Figure 1) on the west bank of Two Mile Creek in a rough area between the 15th and 17th holes within the Town of Tonawanda's Sheridan Park Golf Course (Figure 2). A Corrective Action Program has been ongoing at the service center in accordance with a May 1996 Hazardous Waste Management Permit and subsequent July 2012 permit that requires Corrective Actions. As part of the Corrective Action Program, the NYSDEC required that soil and sediment sampling be performed in a portion of Two Mile Creek, which is a Class B waterway and receives storm water from both surface runoff and point discharges. After additional sediment samples were collected in 2008, bank soil sampling was performed in the spring of 2009. A follow-up round of bank soil sampling was also performed in one area on the west bank during May 2010.

Based on the results of the bank soil sampling, a small area of bank soil was targeted for removal. In an October 14, 2010 letter transmitting the results of the 2010 bank sampling to NYSDEC, GE proposed a limited bank soil removal with confirmation samples to document remaining soil contains less than one milligram per kilogram (mg/kg) polychlorinated biphenyls (PCBs). NYSDEC accepted

the plan in a letter dated November 30, 2010, but requested that the planned removal area be extended. The *Work Plan* detailed procedures for the removal of a limited area of PCB-impacted soil approximately 10 feet wide by 10 feet high by 18 inches deep on the west bank of Two Mile Creek (Figure 3).

2.0 PREPARATIONS

Conversations regarding access and restoration requirements were held with the landowner, the Town of Tonawanda, in 2012. GE understood that the town wanted the work to be done outside of the golf season (November to April) and had a preference that the excavation area be backfilled with granular material to stabilize the creek bank and minimize erosion.

Because this project included work on either side of the Ordinary High Water Mark (OHWM), the following permits were identified as necessary for the work:

- Stream Disturbance, from NYSDEC;
- 401 Water Quality Certification, from NYSDEC; and
- Nationwide Permit (NWP) 18 for Minor Discharges, from the US Army Corps of Engineers (ACOE).

On August 18, 2014, a Joint Application form was submitted to NYSDEC and copied to the ACOE. The application package included the application for the Stream Disturbance and 401 Water Quality Certification Permits. A letter was also sent to the ACOE indicating GE's intent to use NWP 18 and requesting that ACOE issue written concurrence that use of the permit is appropriate for the project. On August 25, 2014, NYSDEC issued the Stream Disturbance (Permit ID 9-1464-00314/00001) and 401 Water Quality Certification (Permit ID 9-1464-00314/00002) Permits for the project. On September 18, 2014, ACOE issued a verification letter indicating that NWP 18 was appropriate for the project.

The following contractors were procured to assist in performing the project:

- OP-TECH Environmental Services, Inc. (OP-TECH) of Amherst, New York for excavation services;
- TestAmerica Laboratories, Inc. (TestAmerica) of Amherst, New York for laboratory analytical services;
- Price Trucking Corporation (Price Trucking) of Buffalo, New York, a GE-approved transporter, for waste transportation; and
- Waste Management of Fairport, New York for disposal of removed materials.

AECOM and the Town of Tonawanda monitored conditions at the golf course in order to select a start date that would minimize damage caused by heavy equipment mobilization to the excavation site and nearby areas. When the weather conditions in early January 2015 resulted in a frozen ground surface with minimal snow cover, these conditions were deemed appropriate for the field work to proceed.

3.0 FIELD WORK

Field work was conducted from January 19 through 22, 2015. A Photographic Log documenting the field activities is included as Attachment 1. OP-TECH mobilized a crew with a John Deere 85D rubber-tracked excavator to the project site on January 19, 2015 to perform the soil removal activities. OP-TECH had provided necessary submittals and notifications prior to mobilization. AECOM provided oversight and collected the confirmation soil samples. Representatives of AECOM, OP-TECH, and the Town of Tonawanda initially conducted a project kickoff meeting, tailgate safety meeting and site walk to review the planned work and verify restrictions the town might have, such as limitations on where heavy equipment or trucks could travel across the golf course. The town indicated that the project work area should be accessed from the golf course maintenance building on Two Mile Creek Road by travelling eastward along a previously cleared path across the golf course to Two Mile Creek and southward to the bank soil removal site.

Prior to beginning bank soil removal activities, OP-TECH:

- Laid out and marked the proposed excavation area (see Photo No. 3 in Attachment 1);
- Installed approximately 65 feet of silt (erosion control) fence in Two Mile Creek, which was approximately 8-inches deep near the work area, in a semi-circle that started just upstream of the excavation area and ended just downstream of the excavation area (see Photo No. 3 in Attachment 1);
- Removed brush from the proposed excavation area;
- Established project elevation control points (using a rotary laser level and grade rod with laser detector) along three north-south gridlines in order to document original grades, removal depths, and restoration elevations; and
- Staged a plastic-lined 20 cubic yard roll-off container, which was delivered by Price Trucking, adjacent to the proposed excavation area to receive excavated soils, cleared vegetation, disposable sampling and personal protective equipment, and decontamination wastes.

The John Deere 85D rubber-tracked excavator was used to excavate the bank soils, which were directly loaded into the 20 cubic yard roll-off container. During excavation near the water line, AECOM visually monitored the conditions in Two Mile Creek to confirm that excavation practices and the silt fence were protective of the creek. Based on AECOM's observation, the minimal sediment disturbances created by the work were contained by the silt fence. After the targeted soil volume (approximately 10 feet wide by 10 feet high by 18 inches deep) was believed to have been removed, the contractor re-established the gridlines and collected field elevation data from the same control points surveyed at the start of work to assess whether the target excavation depth had been achieved. Based upon this survey, some additional soil was removed from the middle of the excavation. A subsequent survey indicated that the target bank soil excavation depth had been achieved. Approximate survey locations are shown on Figure 4 and the final excavation survey data is provided in Table 1. The final excavation dimensions were approximately 10.5 feet wide (N-S) by 13 feet long (E-W) by up to 43 inches deep. The excavation depths were greater than the target depths due to excavation across the face of a sloping bank and the removal of some large tree roots in portions of the work area. After soil removal had been completed, OP-TECH decontaminated the excavator bucket by scraping soil from the bucket while it was positioned over the roll-off container. The roll-off container was covered pending removal from the site.

Excavated soils consisted primarily of brown to dark brown silt loam with occasional bricks, concrete and stone pieces, one 5-foot long piece of rusty 3-inch diameter steel pipe (filled with soil), and

numerous tree and vegetative roots. This upper soil unit was approximately 18 to 30 inches thick and was underlain by a brown to reddish brown silty clay. The confirmation soil samples were collected primarily from the silty clay unit.

After completion of soil removal activities, AECOM collected five confirmation soil samples on January 19, 2015 from the bottom of the excavation with dedicated, disposable plastic sampling scoops to confirm that the remaining soils contain less than one mg/kg PCBs. The base of the excavation was divided into four quadrants. One soil sample was collected from the center of each of the four quadrants. A fifth soil sample was collected from the center of the excavation where all four quadrants intersected. The locations are shown in Photo No. 6 in the Photographic Log in Attachment 1. In addition, one duplicate sample and one equipment rinse blank sample were collected. The samples were transported to TestAmerica under chain-of-custody procedures and were analyzed for PCBs by EPA method 8082. A 24-hour turnaround time was requested for the analyses to facilitate backfilling of the excavation. Chain-of-custody records that accompanied the samples from the site to the laboratory are included in Attachment 2. A Category B deliverable was requested from the laboratory and is included in Attachment 2. All analyses were validated independently by an AECOM Project Chemist for usability, completeness, and compliance with the analytical methods. The results of the data validation are documented in the *Data Usability Summary Report (DUSR)* included in Attachment 2. All data were deemed to be usable.

The analytical results for the confirmations samples are summarized in Table 2. As shown in Table 2, PCBs were not detected in any of the confirmation soil samples at concentrations that exceed the one mg/kg PCB cleanup goal. Based on these analytical results, no additional soil removal was deemed necessary.

OP-TECH backfilled the excavation on January 22, 2015, after receipt of analytical results that indicating that the clean-up goal had been achieved. A layer of woven class 2 geotextile (Mirafi 600X) was placed in the base of the excavation and the excavation was backfilled to approximate original grade using 13.41 tons of NYSDOT Light Stone Fill. A letter indicating that the backfill stone originated from a clean source and the weight ticket are included in Attachment 3. The stone was dumped near the top of the excavation and the excavator bucket was used to place the stone into the excavation and lightly tamp it into place to minimize voids. After placement of the backfill, OP-TECH re-established the gridlines and collected field elevation data from the same control points surveyed at the start of work to document final elevations in the work area. The survey data for the top of backfill in the work area is provided in Table 1.

Following completion of the backfilling activities, a representative from the Town of Tonawanda visited the site and indicated that the bank restoration appeared acceptable to the Town. The Town of Tonawanda representative also indicated that impacts to the golf course appeared minimal and would likely not require any additional restoration. OP-TECH removed the silt fence from the creek and demobilized their equipment from the project site on January 22, 2015. As shown in Photos Nos. 5, 7, and 10 in Attachment 1, the surfaces near the work area did not appear to be disturbed by the work due to frozen ground conditions and snow cover. AECOM and the Town of Tonawanda agreed to re-assess the conditions in and near the work area in the Spring of 2015 after the ground thawed.

AECOM and the Town of Tonawanda assessed conditions in the work area in April 2015 to evaluate whether additional restoration work was needed after winter. During a telephone conversation on the morning of April 23, 2015, a representative of the Town of Tonawanda indicated that the town was satisfied with conditions in the work area and was not requesting any additional restoration work.

AECOM also evaluated conditions near the work area on the afternoon of April 23, 2015. As shown in Photos Nos. 11 and 12 in Attachment 1, the work area is in good condition, areas adjacent to the work area did not appear to have been disturbed, and the existing native vegetation adjacent to the work area provides satisfactory coverage. Based on discussions with the town and AECOM's April 23, 2015 site visit, AECOM believes that additional restoration activities are not needed along the stream bank adjacent to the work area to comply with the terms of the permit received from the Army Corps of Engineers for the work.

4.0 MANAGEMENT OF REMOVED SOIL

Price Trucking removed the loaded 20 cubic yard roll-off container from the project site on January 20, 2015 and transported it to Waste Management's High Acres Landfill in Fairport, New York for disposal. The weight ticket for the soil received at the landfill (10.08 tons) and the Final Non-Hazardous Waste Manifest are included in Attachment 4.

5.0 PERMIT CLOSEOUTS

After confirmation that removal and restoration work for this project had been completed, AECOM filed the following information on behalf of GE:

- Completion Form / Compliance Certification for File No. 2014-00892, which was submitted to ACOE on May 15, 2015; and
- Letter regarding completion of work for Permit Nos. 9-1646-00314/00001 and 9-1646-00314/00002, which was submitted to NYDEC on May 15, 2015.

Copies of these documents are presented in Attachment 5.

6.0 CONCLUSIONS

GE has successfully completed the *Two Mile Creek Limited Bank Soil Removal* project, conducted in partial fulfillment of the requirements for Corrective Action specified in the July 5, 2012 6 NYCRR Part 373 Permit held by the GE Parts and Repair Service Center at 175 Milens Road in Tonawanda, New York. Approximately 10 tons of PCB-impacted bank soil were removed from the west bank of Two Mile Creek within the Town of Tonawanda's Sheridan Park Golf Course and disposed at the High Acres Landfill in Fairport, New York. All confirmatory soil samples from the excavation were below the one mg/kg PCB cleanup objective and the excavation was backfilled with light stone fill in general accordance with the approved work plan. Restoration activities met the town's expectations and permit requirements.



GE and AECOM appreciate the NYSDEC's continued assistance with this project. If you have any questions please call us, or Mr. Tom Antonoff of GE at (518) 862-2720.

Very truly yours,
AECOM

Karen Peppin
Project Manager

Don Porterfield, P.E.
Principal Environmental Engineer

Tables:

Table 1 - Summary of Field Survey Data

Table 2 - Summary of PCB Analytical Results for January 19, 2015 Confirmation Soil Samples

Figures:

Figure 1 - Project Location Map

Figure 2 - Limited Bank Soil Removal Location

Figure 3 - Proposed Soil Removal Area

Figure 4 - Field Survey Locations with Final Excavation Depths

Attachments:

Attachment 1: Photographic Log

Attachment 2: Data Usability Summary Report & Laboratory Analytical Report

Attachment 3: Backfill Stone Clean Source Letter & Weight Ticket

Attachment 4: Soil Weight Ticket & Final Non-Hazardous Waste Manifest

Attachment 5: Completion Notices

cc: Ms. Kathleen Emery, NYSDEC
Mr. Andrew Park, USEPA – Letter only
Mr. Tom Antonoff, GE
Mr. Roger Florio, GE
Ms. Pam Cook, GE

TABLES

TABLE 1
SUMMARY OF FIELD SURVEY DATA
TWO MILE CREEK LIMITED BANK SOIL REMOVAL
TONAWANDA, NEW YORK

Gridline	Survey	Control Point Location							
		0.8 Feet North		3.8 Feet North		6.8 Feet North		9.8 Feet North	
		Elevation*	Change from Initial	Elevation*	Change from Initial	Elevation*	Change from Initial	Elevation*	Change from Initial
A (1 foot east of west edge of excavation)	Initial	-3.0	----	-3.5	----	-9.0	----	-8.0	----
	Post-excavation (Final)	-27.0	-24.0	-31.0	-27.5	-28.5	-19.5	-33.5	-25.5
	Backfilled	-1.0	+2.0	+0.5	+4.0	+2.5	+11.5	+3.5	+11.5
B (6 feet east of west edge of excavation)	Initial	-20.0	----	-18.5	----	-22.0	----	-27.0	----
	Post-excavation (Final)	-48.0	-28.0	-50.5	-32.0	-58.0	-36.0	-70.0	-43.0
	Backfilled	-16.0	+4.0	-13.5	+5.0	-13.5	+8.5	-14.0	+13
C (12 feet east of west edge of excavation)	Initial (waterline)	-66.0	----	-66.0	----	-66.0	----	-66.0	----
	Post-excavation (Final)**	>-84.0	>18.0	>-84.0	>18.0	>-84.0	>18.0	>-84.0	>18.0
	Backfilled	-62.0	+4.0	-60.0	+6.0	-62.0	+4.0	-63.0	+3.0

* Elevations are in inches based upon an arbitrary "0" elevation at the top of a block retaining wall abutment just south of the bank soil removal area. Elevations were recorded using a rotary laser level and grade rod with laser detector.

** More accurate determinations of excavated depths were not possible due to the extreme extension of the grade rod.

Final excavation depths are shown in bold and italic text.

TABLE 2
SUMMARY OF PCB ANALYTICAL RESULTS
FOR JANUARY 19, 2015 CONFIRMATION SOIL SAMPLES
TWO MILE CREEK LIMITED BANK SOIL REMOVAL
TONAWANDA, NEW YORK

SAMPLE ID	Sample Location Description	Sample Depth Below Original Grade* (inches)	PCB Analytical Results (mg/kg)							
			Aroclor 1016	Aroclor 1221	Aroclor 1231	Aroclor 1242	Aroclor 1248	Aroclor 1254	Aroclor 1260	Total PCBs
TMC-CS-NE	sample collected from center of northeast quadrant of soil removal excavation	Approximately 40-43	<0.049	<0.049	<0.049	<0.049	<0.049	<0.120	<0.120	ND
TMC-CS-NW	sample collected from center of northwest quadrant of soil removal excavation	Approximately 24-27	<0.049	<0.049	<0.049	<0.049	<0.049	0.120 J	<0.120	0.120 J
TMC-CS-SE	sample collected from center of southeast quadrant of soil removal excavation	Approximately 30-33	<0.058	<0.058	<0.058	<0.058	<0.058	<0.140	<0.140	ND
TMC-CS-SW	sample collected from center of southwest quadrant of soil removal excavation	Approximately 24-27	0.350 J	<0.052	<0.052	<0.052	<0.052	0.350 J	<0.130	0.350 J
TMC-CS-CENTER	sample collected from center of soil removal excavation	Approximately 34-37	<0.055	<0.055	<0.055	<0.055	<0.055	<0.130	<0.130	ND
TMC-CS-CENTER-FR	duplicate of TMC-CS-CENTER	Approximately 34-37	<0.055	<0.055	<0.055	<0.055	<0.055	<0.130	<0.130	ND

NOTES:

Analytical results are reported in milligrams per kilogram (mg/kg).

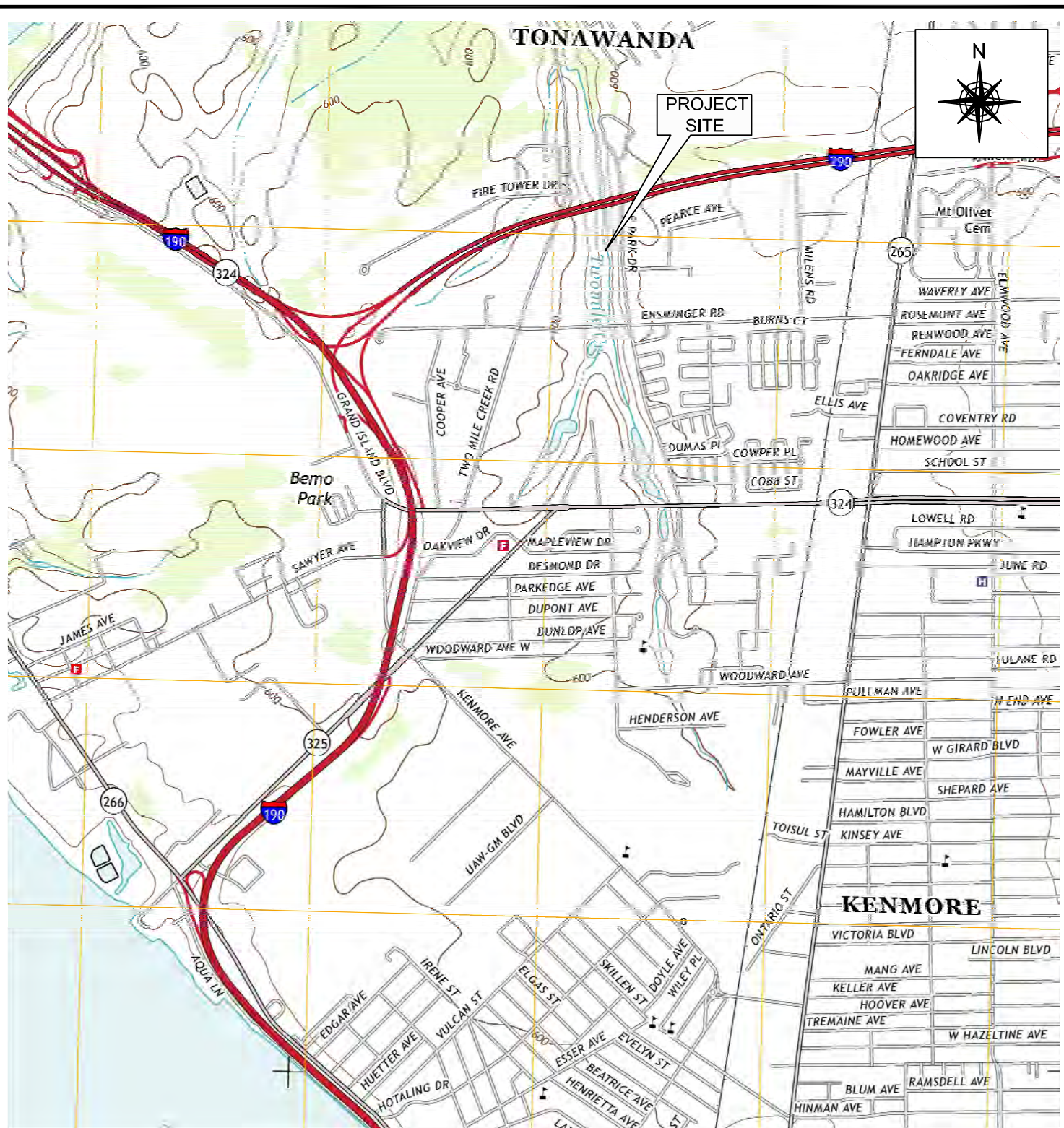
A "J" indicates that the compound was positively identified at an approximate concentration.

An "ND" indicates that the compounds were not detected.

Concentrations of detected compounds are shown in bold type.

* Confirmatory soil samples were collected from 0-3 inches below the excavation bottom.

FIGURES



0 2000 4000
APPROXIMATE SCALE IN FEET
SCALE= 1:24000

BASEMAP SOURCES:

REFERENCE

USGS 7.5-minute Series Topographic Maps:
Buffalo Northwest Quadrangle 2013

Title: PROJECT LOCATION MAP

Location: TONAWANDA, NEW YORK

Client:



GENERAL ELECTRIC
INTERNATIONAL, INC.

AECOM

AECOM
3 Corporate Drive, Suite 203
Clifton Park, New York 12065

Drafter:

KP

Date:

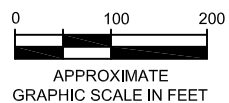
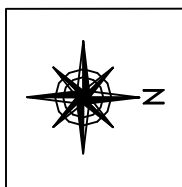
May 2015

Drg. Size:
8.5 x 11

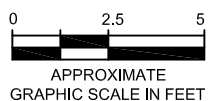
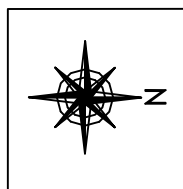
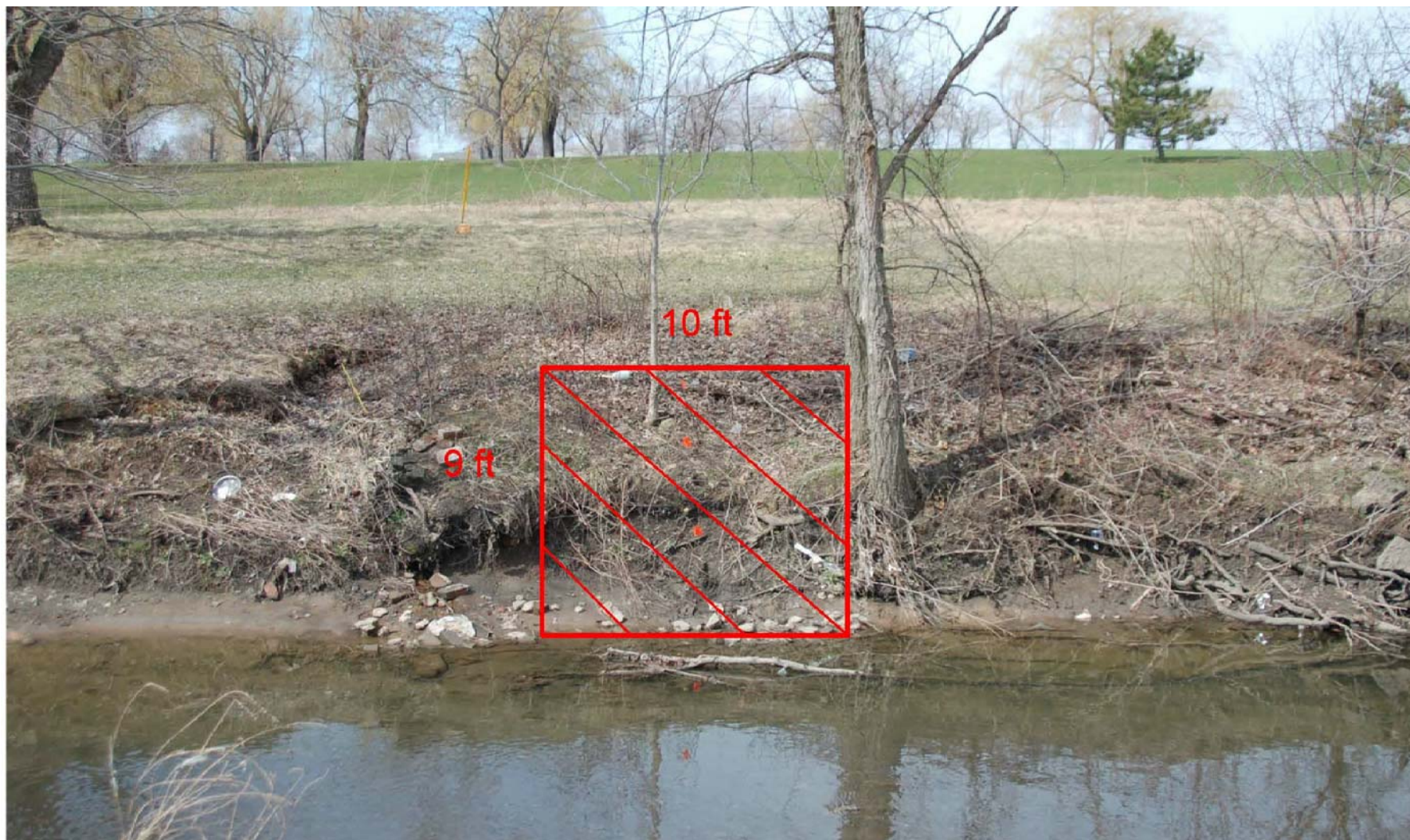
Job No.:

38395389

FIGURE 1

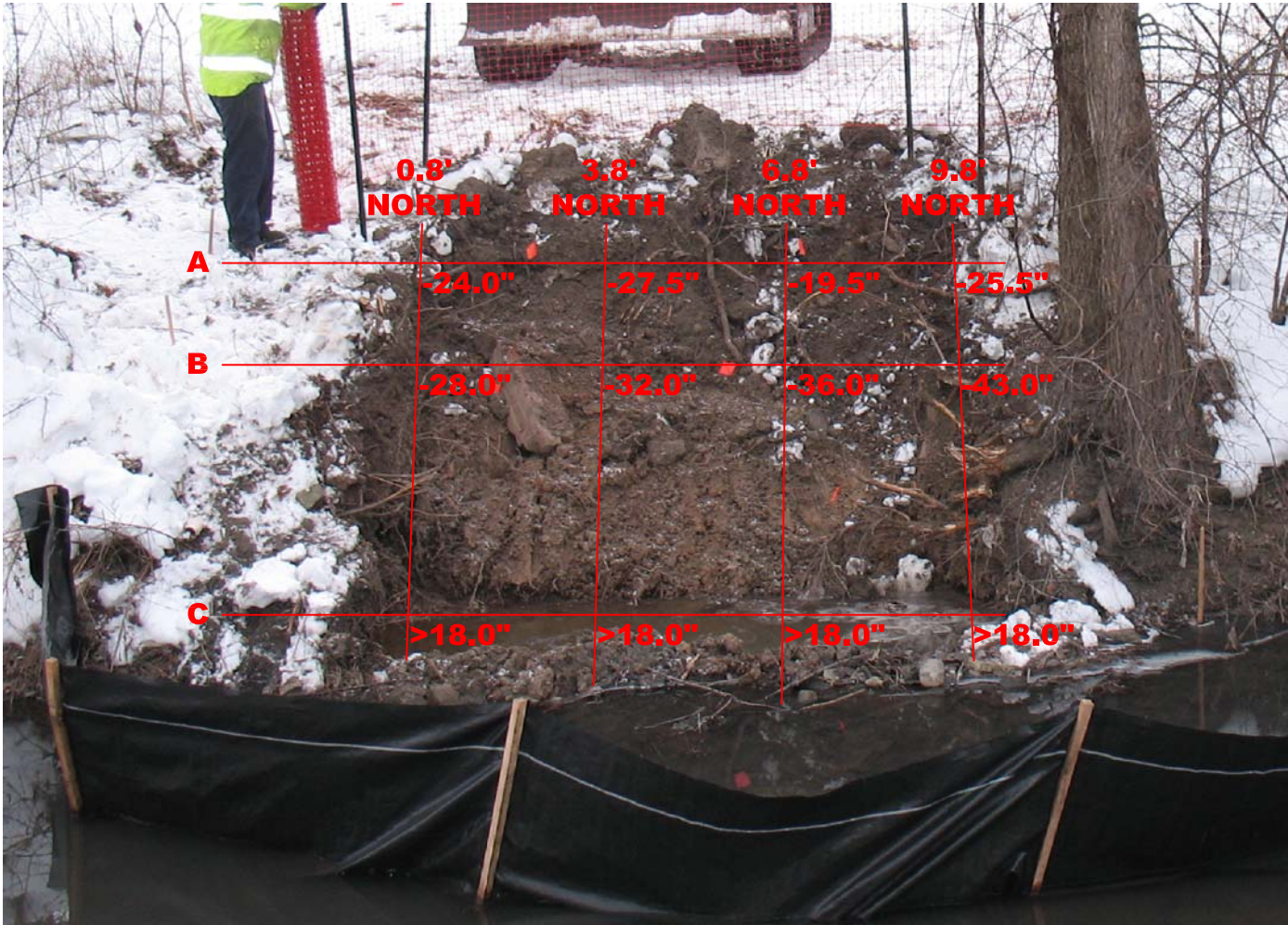


Title: LIMITED BANK SOIL REMOVAL LOCATION	
Location: TONAWANDA, NEW YORK	
Client:	 GENERAL ELECTRIC INTERNATIONAL, INC.
 AECOM 3 Corporate Drive, Suite 203 Clifton Park, New York 12065	Drafter: KP
	Date: May 2015
	Job No.: 38395389
FIGURE 2	

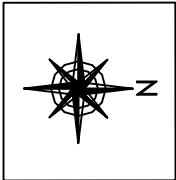


SOURCE: AECOM SEPTEMBER 2010 TECHNICAL MEMORANDUM

Title: PROPOSED SOIL REMOVAL AREA	
Location: TWO MILE CREEK TONAWANDA, NEW YORK	
Client:	 GENERAL ELECTRIC INTERNATIONAL, INC.
 AECOM 3 Corporate Drive, Suite 203 Clifton Park, New York 12065	Drafter: KP
	Date: May 2015
	Job No.: 38395389
FIGURE 3	



NOT TO SCALE



Title: FIELD SURVEY LOCATIONS WITH FINAL EXCAVATION DEPTHS	
Location: TWO MILE CREEK TONAWANDA, NEW YORK	
Client:  GENERAL ELECTRIC INTERNATIONAL, INC.	
 AECOM 3 Corporate Drive, Suite 203 Clifton Park, New York 12065	Drafter: ELB
	Date: May 2015
	Job No.: 38395389
FIGURE 4	

ATTACHMENT 1
PHOTOGRAPHIC LOG

Project: Two Mile Creek Limited Bank Soil Removal

Client: General Electric International, Inc.

Job Number: 38395389

Photo No.
1

Date:
1/13/2015

Description:

A westward view from the east side of Two Mile Creek showing the condition of the proposed soil removal site prior to removal activities. Proposed removal area is highlighted in red.



Photo No.
2

Date:
1/19/2015

Description:

A northward view of the planned excavation site prior to clearing. Proposed removal area is highlighted in red.



Project: Two Mile Creek Limited Bank Soil Removal

Client: General Electric International, Inc.

Job Number: 38395389

Photo No.
3

Date:
1/19/2015

Description:

A northward view of the excavation site after clearing, but prior to excavation. Proposed removal area is highlighted in red. Survey grid line wooden stakes on the north side of the planned excavation are shown inside yellow ovals; corresponding transect stakes were also placed on the south side of the planned excavation. Note silt fence in Two Mile Creek around the work area.



Photo No.
4

Date:
1/19/2015

Description:

Northward view of initiation of soil removal.



Project: Two Mile Creek Limited Bank Soil Removal

Client: General Electric International, Inc.

Job Number: 38395389

Photo No.
5

Date:
1/19/2015

Description:

A northward view of the John Deere 85D excavator transferring excavated soil into the Price Trucking Corporation 20 cubic yard roll-off container.

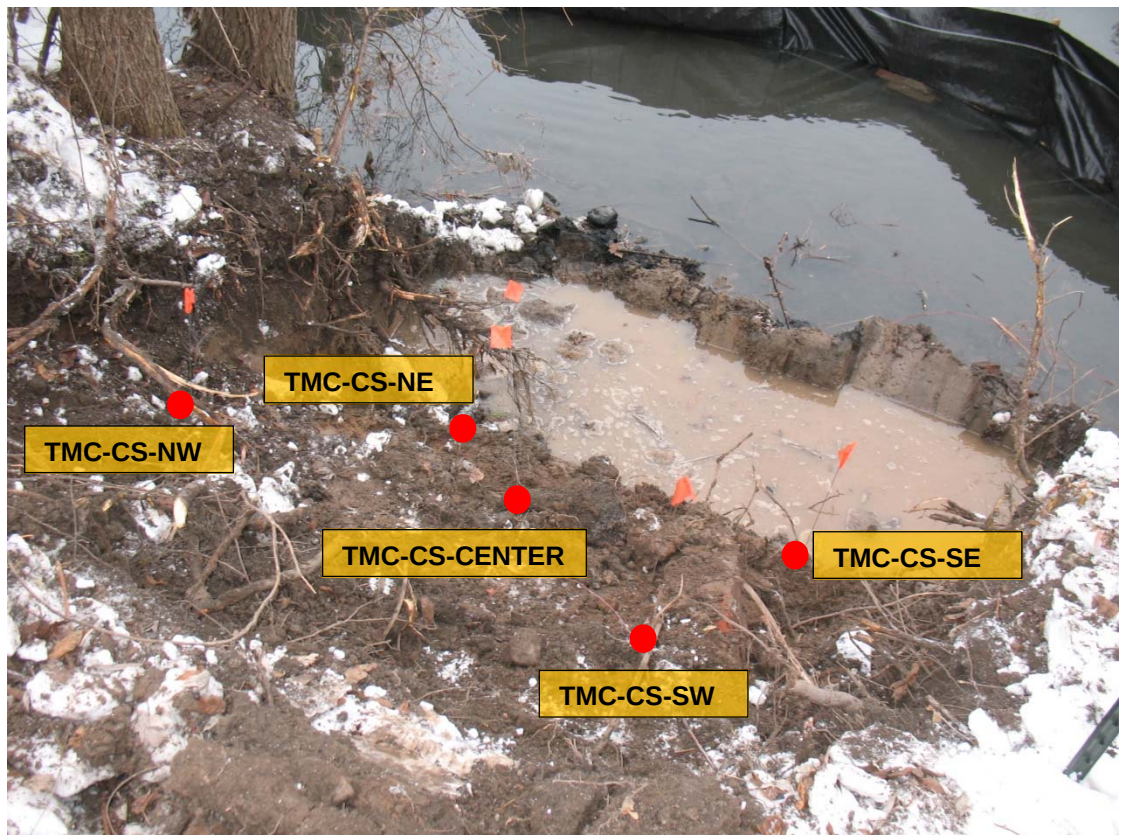


Photo No.
6

Date:
1/19/2015

Description:

A northeastward view of the excavation at the completion of soil removal activities showing the 5 confirmatory soil sampling locations (red dots on photo; marked in the field with orange pin flags).



Project: Two Mile Creek Limited Bank Soil Removal

Client: General Electric International, Inc.

Job Number: 38395389

Photo No.
7

Date:
1/19/2015

Description:

A northward view of the excavation (surrounded with temporary fencing) and roll-off container secured for the evening. Note that ground surface between the excavation area, which is within the barricaded area, and the roll-off container does not appear to be disturbed.



Photo No.
8

Date:
1/22/2015

Description:

Northeastward view of Mirafi 600X geotextile being installed in the bottom of the excavation prior to backfilling with stone.



Project: Two Mile Creek Limited Bank Soil Removal

Client: General Electric International, Inc.

Job Number: 38395389

Photo No.
9

Date:
1/19/2015

Description:

Northeastward view of silt fence being removed from Two Mile Creek after excavation was backfilled with stone.



Photo No.
10

Date:
1/22/2015

Description:

A northwestward view from the east side of Two Mile Creek showing the backfilled excavation. Note that silt fence has been removed from Two Mile Creek.



Project: Two Mile Creek Limited Bank Soil Removal

Client: General Electric International, Inc.

Job Number:
38395389

Photo No.
11

Date:
4/23/2015

Description:

A westward view from the east side of Two Mile Creek showing the condition of the backfilled soil removal site in Spring 2015.



Photo No.
12

Date:
4/23/2015

A northward view of the area west of the backfilled removal area showing that impacts were minimal. The grass (including areas along previous vehicle access path) is not impacted and does not require additional restoration.



ATTACHMENT 2

DATA USABILITY SUMMARY REPORT & LABORATORY ANALYTICAL REPORT

DATA USABILITY SUMMARY REPORT

**TWO MILE CREEK LIMITED BANK SOIL REMOVAL
JANUARY 2015**

**NYSDEC PERMIT ID 9-1464-00044/00001
CORRECTIVE MEASURES IMPLEMENTATION PROGRAM
GENERAL ELECTRIC PARTS AND REPAIR SERVICE CENTER
TONAWANDA, NEW YORK
NYSDEC SITE NO. 915244
EPA ID: NYD067539940**

Analyses Performed by:

**TESTAMERICA LABORATORIES, INC.
AMHERST, NEW YORK**

Prepared for:

**GENERAL ELECTRIC INTERNATIONAL, INC.
319 GREAT OAKS BOULEVARD
ALBANY, NEW YORK**

Prepared by:

**AECOM
257 WEST GENESEE STREET, SUITE 400
BUFFALO, NY 14202-2657**

FEBRUARY 2015

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TABLES (Following Text)

Table 1	Summary of Data Qualifications
---------	--------------------------------

ATTACHMENTS

Attachment A	Validated Form 1s
Attachment B	Support Documentation

I. INTRODUCTION

This Data Usability Summary Report (DUSR) has been prepared by AECOM following the guidelines provided in New York State Department of Environmental Conservation (NYSDEC) Division of Environmental Remediation *DER-10, Technical Guidance for Site Investigation and Remediation, Appendix 2B - Guidance for Data Deliverables and the Development of Data Usability Summary Reports*, May 2010. Discussed in this DUSR are the analytical data for: five (5) soil samples, one (1) field duplicate (FD), and one (1) equipment rinsate blank (RB). The soil samples were collected on January 19, 2015.

The samples were collected by URS Corporation – New York (URS), now part of AECOM, under NYSDEC Permit Number 9-1464-00044/00001 for the Corrective Measures Implementation Program at the General Electric Parts and Repair Service Center, located in Tonawanda, New York (NYSDEC Site ID Number 915244; EPA ID: NYD067539940). The samples were collected as part of the work undertaken as described in the *Two Mile Creek Limited Bank Soil Removal Work Plan* (URS, September 29, 2014). The samples were sent to TestAmerica Laboratories, Inc., located in Amherst, New York, which is New York State Department of Health (NYSDOH) Environmental Laboratory Approval Program (ELAP) certified for the parameters analyzed.

II. ANALYTICAL METHODOLOGIES AND DATA VALIDATION PROCEDURES

The samples were analyzed for polychlorinated biphenyls (PCBs) in accordance with United States Environmental Protection Agency (USEPA) Method SW8082A.

A limited data validation was performed on the samples following the guidelines in the following USEPA Region II document:

- *Validating PCB Compounds by Gas Chromatography SW-846 Method 8082A*, SOP HW-45, Revision 1, October 2006.

The limited data validation included a review of: completeness of all required deliverables; holding times; quality control (QC) results (i.e., blanks, instrument calibrations, MS/MSD recoveries, duplicate precision, and laboratory control sample recoveries) to determine if the data are within the protocol-required QC limits and specifications; a determination that all samples were analyzed using established and agreed upon analytical protocols; an evaluation of

the raw data to confirm the results provided in the data summary sheets; and a review of laboratory data qualifiers.

Qualifications applied to the data during the limited data validation include 'J' (estimated concentration). Definitions of USEPA data qualifiers are presented at the end of this text. A summary of data qualifications is presented on Table 1. Validated Form 1s have been presented in Attachment A. Documentation supporting the qualification of data is presented in Attachment B. Only analytical deviations affecting data usability are discussed in this report.

III. DATA DELIVERABLE COMPLETENESS

Full deliverable data packages (i.e., NYSDEC ASP Category B or equivalent) were provided by the laboratory, and included all reporting forms and raw data necessary to fully evaluate and verify the reported analytical results.

IV. SAMPLE RECEIPT/PRESERVATION/HOLDING TIMES

All samples were received by the laboratory intact, properly preserved, and under proper chain-of-custody (COC), and were analyzed within the required holding times.

V. NON-CONFORMANCES

Dual-Column Precision

The relative percent difference (RPD) between the dual-column analyses was greater than the USEPA Region II data validation QC limit of 25% for one or more PCBs for several samples. Note, the method QC limit for dual-column precision is 40%, whereupon dual-column RPD results >40% were qualified 'P' by the laboratory when results are above the reporting limit (RL) on both columns. The detected results for the associated samples exceeding data validation QC limits of 25% were qualified 'J', as listed on Table 1. Documentation supporting the qualification of the data (i.e., Form 10 or quantitation report) is presented in Attachment B.

VI. SAMPLE RESULTS AND REPORTING

All sample results were reported in accordance with method requirements and were adjusted for sample volume and moisture content. Results reported below the RL, but greater than the method detection limit (MDL), are qualified 'J' by the laboratory.

Field Duplicate Samples

A field duplicate was collected on sample TMC-CS-CENTER. No PCBs were detected in the parent sample and its respective field duplicate, thus indicating good field and analytical precision.

VII. SUMMARY

All sample analyses were found to be compliant with the data validation and/or method criteria, except where previously noted. Those results qualified 'J' (estimated concentration) during the data review are considered conditionally usable. All other sample results are usable as reported. Variances from USEPA Region II data validation and/or method criteria were not significant enough to warrant rejection of the data. URS does not recommend the re-collection of any samples.

Prepared By: Peter R. Fairbanks, Senior Chemist

PF

Date: 2/10/15

Reviewed By: George E. Kisluk, Senior Chemist

GOL

Date: 2/10/15

DEFINITIONS OF USEPA REGION II DATA QUALIFIERS

- U** – The analyte was analyzed for, but was not detected above the reported sample quantitation limit.
- J** – The analyte was positively identified; the associated numerical value is the approximate concentration of the analyte in the sample.
- UJ** – The analyte was not detected above the reported sample quantitation limit. However, the reported quantitation limit is approximate and may or may not represent the actual limit of quantitation necessary to accurately and precisely measure the analyte in the sample.
- R** – The sample results are rejected due to serious deficiencies in the ability to analyze the sample and meet quality control criteria. The presence or absence of the analyte cannot be verified.
- D** – The sample results are reported from a secondary dilution.
- NJ** – The analysis indicates the present of an analyte that has been “tentatively identified” and the associated value represents its approximate concentration.

TABLE 1
SUMMARY OF DATA QUALIFICATIONS
GENERAL ELECTRIC PARTS AND REPAIR SERVICE CENTER
TWO MILE CREEK LIMITED BANK SOIL REMOVAL

SAMPLE ID	FRACTION	ANALYTICAL DEVIATION	QUALIFICATION
TMC-CS-NW, TMC-CS-SW	PCB	Dual-column RPD >25% for AR1254.	Qualify detected result 'J'.

ATTACHMENT A
VALIDATED FORM 1s

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-NW

Lab Sample ID: 480-74383-1

Date Sampled: 01/19/2015 1325

Client Matrix: Solid

% Moisture: 18.8

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.46 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1146			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		49	250
PCB-1221		ND		49	250
PCB-1232		ND		49	250
PCB-1242		ND		49	250
PCB-1248		ND		49	250
PCB-1254		120	J	120	250
PCB-1260		ND		120	250

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	111		47 - 176
Tetrachloro-m-xylene	103		46 - 175

2/9/15
m

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-NE

Lab Sample ID: 480-74383-2

Date Sampled: 01/19/2015 1327

Client Matrix: Solid

% Moisture: 19.9

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.51 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1202			Injection Volume:	1 µL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		49	250
PCB-1221		ND		49	250
PCB-1232		ND		49	250
PCB-1242		ND		49	250
PCB-1248		ND		49	250
PCB-1254		ND		120	250
PCB-1260		ND		120	250

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	109		47 - 176
Tetrachloro-m-xylene	98		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-SE

Lab Sample ID: 480-74383-3

Date Sampled: 01/19/2015 1336

Client Matrix: Solid

% Moisture: 22.4

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.17 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1218			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		58	300
PCB-1221		ND		58	300
PCB-1232		ND		58	300
PCB-1242		ND		58	300
PCB-1248		ND		58	300
PCB-1254		ND		140	300
PCB-1260		ND		140	300

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	120	.	47 - 176
Tetrachloro-m-xylene	102		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-SW

Lab Sample ID: 480-74383-4

Date Sampled: 01/19/2015 1340

Client Matrix: Solid

% Moisture: 18.0

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.28 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1233			Injection Volume:	1 µL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		52	270
PCB-1221		ND		52	270
PCB-1232		ND		52	270
PCB-1242		ND		52	270
PCB-1248		ND		52	270
PCB-1254		350	J	130	270
PCB-1260		ND		130	270

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	110		47 - 176
Tetrachloro-m-xylene	96		46 - 175

2/9/15
✓

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-CENTER

Lab Sample ID: 480-74383-5

Date Sampled: 01/19/2015 1333

Client Matrix: Solid

% Moisture: 20.1

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.24 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1249			Injection Volume:	1 µL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		55	280
PCB-1221		ND		55	280
PCB-1232		ND		55	280
PCB-1242		ND		55	280
PCB-1248		ND		55	280
PCB-1254		ND		130	280
PCB-1260		ND		130	280

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	124		47 - 176
Tetrachloro-m-xylene	104		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-CENTER-FR

Lab Sample ID: 480-74383-6

Date Sampled: 01/19/2015 1333

Client Matrix: Solid

% Moisture: 23.2

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.32 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1305			Injection Volume:	1 µL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		55	280
PCB-1221		ND		55	280
PCB-1232		ND		55	280
PCB-1242		ND		55	280
PCB-1248		ND		55	280
PCB-1254		ND		130	280
PCB-1260		ND		130	280

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	114		47 - 176
Tetrachloro-m-xylene	99		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: EB1-01192015

Lab Sample ID: 480-74383-7

Date Sampled: 01/19/2015 1352

Client Matrix: Water

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-223542	Initial Weight/Volume:	261.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	01/20/2015 1440			Injection Volume:	1 uL
Prep Date:	01/19/2015 1719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	ND		0.17	0.48
PCB-1221	ND		0.17	0.48
PCB-1232	ND		0.17	0.48
PCB-1242	ND		0.17	0.48
PCB-1248	ND		0.17	0.48
PCB-1254	ND		0.24	0.48
PCB-1260	ND		0.24	0.48

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		23 - 127
DCB Decachlorobiphenyl	58		19 - 126

ATTACHMENT B
SUPPORT DOCUMENTATION



480-74363 Chain of Custody

FIELD RECORD

PROJECT NO. 38395389.40000
 SITE NAME GE-Tonawanda
 Two Mile Creek

SAMPLERS (PRINT/SIGNATURE)
 Steven Moeller

URS delivered to Test America-Amherst, N.Y.
 Sample Control
 DELIVERY SERVICE: AIRBILL NO.:

TESTS

PCBS by EPA 8082
 PCBS by EPA 8082A

BOTTLE TYPE AND PRESERVATIVE

4oz. glass jar-w/ pres.
 250ml. amber glass-w/ pres.



LAB Test America
 COOLER 1 of 1
 PAGE 1 of 1

LOCATION IDENTIFIER	DATE	TIME	COMP/ GRAB	SAMPLE ID	MATRIX	TOTAL NO. # OF CONTAINERS	REMARKS	SAMPLE TYPE	BEGINNING DEPTH (IN FEET)	ENDING DEPTH (IN FEET)	FIELD LOT NO. # (RRIMS)
NW Quad	01-19-15	13:25	grab	TMC-CS-NW	SO	1		N1	0	0.3	-
NE Quad	01-19-15	13:27		TMC-CS-NE	SO	1		N1	0	0.3	-
SE Quad	01-19-15	13:36		TMC-CS-SE	SO	1		N1	0	0.3	-
SW Quad	01-19-15	13:40		TMC-CS-SW	SO	1		N1	0	0.3	-
CENTER	01-19-15	13:33		TMC-CS-CENTER	SO	1		N1	0	0.3	-
CENTER	01-19-15	13:33	✓	TMC-GS-CENTER-FR	SO	1	Duplicate	FR1	0	0.3	-
FIELD QC	01-19-20	13:52	grab	EB1-01192015	WQ	2	EQUIPMENT RINSE BLANK	EB1	-	-	-

MATRIX CODES	AA - AMBIENT AIR	SE - SEDIMENT	SH - HAZARDOUS SOLID WASTE	SL - SLUDGE	WP - DRINKING WATER	WW - WASTE WATER	WG - GROUND WATER	WL - LEACHATE	WG - OCEAN WATER	WS - SURFACE WATER	WQ - WATER FIELD QC	LH - HAZARDOUS LIQUID WASTE	LF - FLOATING/FREE PRODUCT ON GW TABLE
SAMPLE TYPE CODES	TB# - TRIP BLANK	SD# - MATRIX SPIKE DUPLICATE	RB# - RINSE BLANK	FR# - FIELD REPLICATE	N# - NORMAL ENVIRONMENTAL SAMPLE	MS# - MATRIX SPIKE							

RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED BY (SIGNATURE)	DATE	TIME	SPECIAL INSTRUCTIONS
	1-19-15	1635		1/19/15	1635	* If any questions, contact Peter Fairbanks at 716-923-1121
RELINQUISHED BY (SIGNATURE)	DATE	TIME	RECEIVED FOR LAB BY (SIGNATURE)	DATE	TIME	

* 24 hour TAT *

Distribution: Original accompanies shipment, copy to coordinator field files

7.0 #1

Job Narrative
480-74383-1

Comments

No additional comments.

Receipt

The samples were received on 1/19/2015 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

GC Semi VOA

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

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

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

Organic Prep

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

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_058.D
 Lims ID: 480-74383-A-1-C Lab Sample ID: 480-74383-1
 Client ID: TMC-CS-NW
 Sample Type: Client
 Inject. Date: 20-Jan-2015 11:46:28 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:09:46 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date:

20-Jan-2015 18:09:46

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

\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	1011329	0.0207	
2	1.506	1.507	-0.001	1006782	0.0219	

RPD = 5.65

8 PCB-1254

1	3.641	3.645	-0.004	22111	0.0111	M
1	3.858	3.863	-0.004	84134	0.0642	M
1	3.938	3.940	-0.002	21246	0.008958	
1	4.131	4.137	-0.006	35680	0.0154	M

Average of Peak Amounts = 0.0249

2	3.378	3.381	-0.003	20755	0.0136	
2	0.000	3.677	-3.677	0	0	
2	3.761	3.763	-0.001	50892	0.0211	
2	3.898	3.895	0.003	34721	0.0148	

Average of Peak Amounts = 0.0165

RPD = 40.76

\$ 12 DCB Decachlorobiphenyl

1	6.484	6.482	0.002	536715	0.0223	
2	6.088	6.088	0.000	582340	0.0225	

RPD = 0.77

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-SW Lab Sample ID: 480-74383-4
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 01/20/2015 12:33 Date Analyzed (2): 01/20/2015 12:33
 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-1254	1	2	3.86	3.83	3.89	956	350	47.2
		3	3.94	3.91	3.97	161		
		4	4.13	4.11	4.17	176		
	2	1	3.38	3.35	3.41	189	220	
		3	3.76	3.73	3.79	280		
		4	3.90	3.87	3.93	182		

ANALYTICAL REPORT

Job Number: 480-74383-1

Job Description: GE Tonawanda

For:

URS Corporation

3 Corporate Drive, Suite 203

Clifton Park, NY 12065

Attention: Ms. Karen Peppin



Approved for release.
Rebecca M Jones
Project Management Assistant I
1/22/2015 11:17 AM

Designee for
Melissa L Deyo, Project Manager I
10 Hazelwood Drive, Amherst, NY, 14228-2298
(716)504-9874
melissa.deyo@testamericainc.com
01/22/2015

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

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

TestAmerica Laboratories, Inc.

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

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Job Narrative
480-74383-1

Comments

No additional comments.

Receipt

The samples were received on 1/19/2015 4:35 PM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.0° C.

GC Semi VOA

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

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

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

Organic Prep

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

SAMPLE SUMMARY

Client: URS Corporation

Job Number: 480-74383-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-74383-1	TMC-CS-NW	Solid	01/19/2015 1325	01/19/2015 1635
480-74383-2	TMC-CS-NE	Solid	01/19/2015 1327	01/19/2015 1635
480-74383-3	TMC-CS-SE	Solid	01/19/2015 1336	01/19/2015 1635
480-74383-4	TMC-CS-SW	Solid	01/19/2015 1340	01/19/2015 1635
480-74383-5	TMC-CS-CENTER	Solid	01/19/2015 1333	01/19/2015 1635
480-74383-6	TMC-CS-CENTER-FR	Solid	01/19/2015 1333	01/19/2015 1635
480-74383-7	EB1-01192015	Water	01/19/2015 1352	01/19/2015 1635

EXECUTIVE SUMMARY - Detections

Client: URS Corporation

Job Number: 480-74383-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method
480-74383-1	TMC-CS-NW					
PCB-1254		120	J	250	ug/Kg	8082A
Percent Moisture		19		0.10	%	Moisture
Percent Solids		81		0.10	%	Moisture
480-74383-2	TMC-CS-NE					
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture
480-74383-3	TMC-CS-SE					
Percent Moisture		22		0.10	%	Moisture
Percent Solids		78		0.10	%	Moisture
480-74383-4	TMC-CS-SW					
PCB-1254		350		270	ug/Kg	8082A
Percent Moisture		18		0.10	%	Moisture
Percent Solids		82		0.10	%	Moisture
480-74383-5	TMC-CS-CENTER					
Percent Moisture		20		0.10	%	Moisture
Percent Solids		80		0.10	%	Moisture
480-74383-6	TMC-CS-CENTER-FR					
Percent Moisture		23		0.10	%	Moisture
Percent Solids		77		0.10	%	Moisture

METHOD SUMMARY

Client: URS Corporation

Job Number: 480-74383-1

Description	Lab Location	Method	Preparation Method
Matrix: Solid			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL BUF	SW846 8082A	
Ultrasonic Extraction	TAL BUF		SW846 3550C
Percent Moisture	TAL BUF	EPA Moisture	
Matrix: Water			
Polychlorinated Biphenyls (PCBs) by Gas Chromatography	TAL BUF	SW846 8082A	
Liquid-Liquid Extraction (Separatory Funnel)	TAL BUF		SW846 3510C

Lab References:

TAL BUF = TestAmerica Buffalo

Method References:

EPA = US Environmental Protection Agency

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

METHOD / ANALYST SUMMARY

Client: URS Corporation

Job Number: 480-74383-1

Method	Analyst	Analyst ID
SW846 8082A	Sobol, Kevin	KS
EPA Moisture	Kinecki, Kenneth P	KPK

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-NW

Lab Sample ID: 480-74383-1

Date Sampled: 01/19/2015 1325

Client Matrix: Solid

% Moisture: 18.8

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.46 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1146			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		49	250
PCB-1221		ND		49	250
PCB-1232		ND		49	250
PCB-1242		ND		49	250
PCB-1248		ND		49	250
PCB-1254		120	J	120	250
PCB-1260		ND		120	250

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	111		47 - 176
Tetrachloro-m-xylene	103		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-NW

Lab Sample ID: 480-74383-1

Date Sampled: 01/19/2015 1325

Client Matrix: Solid

% Moisture: 18.8

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.46 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1146			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	112		47 - 176
Tetrachloro-m-xylene	109		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-NE

Lab Sample ID: 480-74383-2

Date Sampled: 01/19/2015 1327

Client Matrix: Solid

% Moisture: 19.9

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.51 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1202			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		49	250
PCB-1221		ND		49	250
PCB-1232		ND		49	250
PCB-1242		ND		49	250
PCB-1248		ND		49	250
PCB-1254		ND		120	250
PCB-1260		ND		120	250

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	109		47 - 176
Tetrachloro-m-xylene	98		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-NE

Lab Sample ID: 480-74383-2

Date Sampled: 01/19/2015 1327

Client Matrix: Solid

% Moisture: 19.9

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.51 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1202			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	110		47 - 176
Tetrachloro-m-xylene	105		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-SE

Lab Sample ID: 480-74383-3

Date Sampled: 01/19/2015 1336

Client Matrix: Solid

% Moisture: 22.4

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.17 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1218			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		58	300
PCB-1221		ND		58	300
PCB-1232		ND		58	300
PCB-1242		ND		58	300
PCB-1248		ND		58	300
PCB-1254		ND		140	300
PCB-1260		ND		140	300

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	120		47 - 176
Tetrachloro-m-xylene	102		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-SE

Lab Sample ID: 480-74383-3

Date Sampled: 01/19/2015 1336

Client Matrix: Solid

% Moisture: 22.4

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.17 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1218			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	121		47 - 176
Tetrachloro-m-xylene	109		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-SW

Lab Sample ID: 480-74383-4

Date Sampled: 01/19/2015 1340

Client Matrix: Solid

% Moisture: 18.0

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.28 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1233			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		52	270
PCB-1221		ND		52	270
PCB-1232		ND		52	270
PCB-1242		ND		52	270
PCB-1248		ND		52	270
PCB-1254		350		130	270
PCB-1260		ND		130	270

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	110		47 - 176
Tetrachloro-m-xylene	96		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-SW

Lab Sample ID: 480-74383-4

Date Sampled: 01/19/2015 1340

Client Matrix: Solid

% Moisture: 18.0

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.28 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1233			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	110		47 - 176
Tetrachloro-m-xylene	101		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-CENTER

Lab Sample ID: 480-74383-5

Date Sampled: 01/19/2015 1333

Client Matrix: Solid

% Moisture: 20.1

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.24 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1249			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		55	280
PCB-1221		ND		55	280
PCB-1232		ND		55	280
PCB-1242		ND		55	280
PCB-1248		ND		55	280
PCB-1254		ND		130	280
PCB-1260		ND		130	280

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	124		47 - 176
Tetrachloro-m-xylene	104		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-CENTER

Lab Sample ID: 480-74383-5

Date Sampled: 01/19/2015 1333

Client Matrix: Solid

% Moisture: 20.1

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method: 8082A

Analysis Batch: 480-223637

Instrument ID: HP6890-7

Prep Method: 3550C

Prep Batch: 480-223536

Initial Weight/Volume: +2.24 g

Dilution: 1.0

Final Weight/Volume: 10 mL

Analysis Date: 01/20/2015 1249

Injection Volume: 1 uL

Prep Date: 01/19/2015 1707

Result Type: SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	124		47 - 176
Tetrachloro-m-xylene	111		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-CENTER-FR

Lab Sample ID: 480-74383-6

Date Sampled: 01/19/2015 1333

Client Matrix: Solid

% Moisture: 23.2

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.32 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1305			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	PRIMARY

Analyte	DryWt Corrected: Y	Result (ug/Kg)	Qualifier	MDL	RL
PCB-1016		ND		55	280
PCB-1221		ND		55	280
PCB-1232		ND		55	280
PCB-1242		ND		55	280
PCB-1248		ND		55	280
PCB-1254		ND		130	280
PCB-1260		ND		130	280

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	114		47 - 176
Tetrachloro-m-xylene	99		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: TMC-CS-CENTER-FR

Lab Sample ID: 480-74383-6

Date Sampled: 01/19/2015 1333

Client Matrix: Solid

% Moisture: 23.2

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3550C	Prep Batch:	480-223536	Initial Weight/Volume:	+2.32 g
Dilution:	1.0			Final Weight/Volume:	10 mL
Analysis Date:	01/20/2015 1305			Injection Volume:	1 uL
Prep Date:	01/19/2015 1707			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	112		47 - 176
Tetrachloro-m-xylene	104		46 - 175

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: EB1-01192015

Lab Sample ID: 480-74383-7

Date Sampled: 01/19/2015 1352

Client Matrix: Water

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-223542	Initial Weight/Volume:	261.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	01/20/2015 1440			Injection Volume:	1 uL
Prep Date:	01/19/2015 1719			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	ND		0.17	0.48
PCB-1221	ND		0.17	0.48
PCB-1232	ND		0.17	0.48
PCB-1242	ND		0.17	0.48
PCB-1248	ND		0.17	0.48
PCB-1254	ND		0.24	0.48
PCB-1260	ND		0.24	0.48

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	84		23 - 127
DCB Decachlorobiphenyl	58		19 - 126

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

Client Sample ID: EB1-01192015

Lab Sample ID: 480-74383-7

Date Sampled: 01/19/2015 1352

Client Matrix: Water

Date Received: 01/19/2015 1635

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-223542	Initial Weight/Volume:	261.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	01/20/2015 1440			Injection Volume:	1 uL
Prep Date:	01/19/2015 1719			Result Type:	SECONDARY

Surrogate	%Rec	Qualifier	Acceptance Limits
Tetrachloro-m-xylene	91		23 - 127
DCB Decachlorobiphenyl	60		19 - 126

Client: URS Corporation

Job Number: 480-74383-1

General Chemistry

Client Sample ID: TMC-CS-NW

Lab Sample ID: 480-74383-1

Client Matrix: Solid

Date Sampled: 01/19/2015 1325

Date Received: 01/19/2015 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	19		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N
Percent Solids	81		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N

Client: URS Corporation

Job Number: 480-74383-1

General Chemistry

Client Sample ID: TMC-CS-NE

Lab Sample ID: 480-74383-2

Date Sampled: 01/19/2015 1327

Client Matrix: Solid

Date Received: 01/19/2015 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N
Percent Solids	80		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N

Client: URS Corporation

Job Number: 480-74383-1

General Chemistry**Client Sample ID:** TMC-CS-SE

Lab Sample ID: 480-74383-3

Date Sampled: 01/19/2015 1336

Client Matrix: Solid

Date Received: 01/19/2015 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	22		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N
Percent Solids	78		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

General Chemistry**Client Sample ID:** TMC-CS-SW

Lab Sample ID: 480-74383-4

Date Sampled: 01/19/2015 1340

Client Matrix: Solid

Date Received: 01/19/2015 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	18		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N
Percent Solids	82		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

General Chemistry**Client Sample ID:** TMC-CS-CENTER

Lab Sample ID: 480-74383-5

Date Sampled: 01/19/2015 1333

Client Matrix: Solid

Date Received: 01/19/2015 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	20		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N
Percent Solids	80		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535	Analysis Date: 01/19/2015 1652					DryWt Corrected: N

Analytical Data

Client: URS Corporation

Job Number: 480-74383-1

General Chemistry**Client Sample ID:** TMC-CS-CENTER-FR

Lab Sample ID: 480-74383-6

Date Sampled: 01/19/2015 1333

Client Matrix: Solid

Date Received: 01/19/2015 1635

Analyte	Result	Qual	Units	RL	RL	Dil	Method
Percent Moisture	23		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535		Analysis Date: 01/19/2015 1652				DryWt Corrected: N
Percent Solids	77		%	0.10	0.10	1.0	Moisture
	Analysis Batch: 480-223535		Analysis Date: 01/19/2015 1652				DryWt Corrected: N

Client: URS Corporation

Job Number: 480-74383-1

Surrogate Recovery Report**8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography****Client Matrix: Solid**

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
480-74383-1	TMC-CS-NW	103	109	111	112
480-74383-2	TMC-CS-NE	98	105	109	110
480-74383-3	TMC-CS-SE	102	109	120	121
480-74383-4	TMC-CS-SW	96	101	110	110
480-74383-5	TMC-CS-CENTER	104	111	124	124
480-74383-6	TMC-CS-CENTER-FR	99	104	114	112
MB 480-223536/1-A		105	114	127	126
LCS 480-223536/2-A		118	119	139	137
480-74383-1 MS	TMC-CS-NW MS	119	118	140	140
480-74383-1 MSD	TMC-CS-NW MSD	110	113	125	126

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	46-175
DCB = DCB Decachlorobiphenyl	47-176

Client: URS Corporation

Job Number: 480-74383-1

Surrogate Recovery Report**8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography****Client Matrix: Water**

Lab Sample ID	Client Sample ID	TCX1 %Rec	TCX2 %Rec	DCB1 %Rec	DCB2 %Rec
480-74383-7	EB1-01192015	84	91	58	60
MB 480-223542/1-A		79	85	75	74
LCS 480-223542/2-A		83	85	67	69
LCSD 480-223542/3-A		83	86	66	67

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	23-127
DCB = DCB Decachlorobiphenyl	19-126

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

Method Blank - Batch: 480-223536

Method: 8082A
Preparation: 3550C

Lab Sample ID: MB 480-223536/1-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 01/20/2015 1043
Prep Date: 01/19/2015 1707
Leach Date: N/A

Analysis Batch: 480-223637
Prep Batch: 480-223536
Leach Batch: N/A
Units: ug/Kg

Instrument ID: HP6890-7
Lab File ID: 7_361_054.D
Initial Weight/Volume: +2.42 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	ND		40	210
PCB-1221	ND		40	210
PCB-1232	ND		40	210
PCB-1242	ND		40	210
PCB-1248	ND		40	210
PCB-1254	ND		97	210
PCB-1260	ND		97	210

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	105	46 - 175
DCB Decachlorobiphenyl	127	47 - 176

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	114	46 - 175
DCB Decachlorobiphenyl	126	47 - 176

Lab Control Sample - Batch: 480-223536

Method: 8082A
Preparation: 3550C

Lab Sample ID: LCS 480-223536/2-A
Client Matrix: Solid
Dilution: 1.0
Analysis Date: 01/20/2015 1058
Prep Date: 01/19/2015 1707
Leach Date: N/A

Analysis Batch: 480-223637
Prep Batch: 480-223536
Leach Batch: N/A
Units: ug/Kg

Instrument ID: HP6890-7
Lab File ID: 7_361_055.D
Initial Weight/Volume: +2.68 g
Final Weight/Volume: 10 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	1870	2280	122	51 - 185	
PCB-1260	1870	2620	140	61 - 184	

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	118	46 - 175
DCB Decachlorobiphenyl	139	47 - 176

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	119	46 - 175
DCB Decachlorobiphenyl	137	47 - 176

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-223536**

**Method: 8082A
Preparation: 3550C**

MS Lab Sample ID:	480-74383-1	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Client Matrix:	Solid	Prep Batch:	480-223536	Lab File ID:	7_361_056.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+2.39 g
Analysis Date:	01/20/2015 1114			Final Weight/Volume:	10 mL
Prep Date:	01/19/2015 1707			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	480-74383-1	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Client Matrix:	Solid	Prep Batch:	480-223536	Lab File ID:	7_361_057.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	+2.20 g
Analysis Date:	01/20/2015 1130			Final Weight/Volume:	10 mL
Prep Date:	01/19/2015 1707			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	MS Qual	MSD Qual
	MS	MSD					
PCB-1016	123	107	42 - 159	5	50		
PCB-1260	140	126	47 - 153	2	50		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	140		125	47 - 176			
Tetrachloro-m-xylene	119		110	46 - 175			
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	140		126	47 - 176			
Tetrachloro-m-xylene	118		113	46 - 175			

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-223536**

**Method: 8082A
Preparation: 3550C**

MS Lab Sample ID:	480-74383-1	Units:	ug/Kg	MSD Lab Sample ID:	480-74383-1
Client Matrix:	Solid			Client Matrix:	Solid
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/20/2015 1114			Analysis Date:	01/20/2015 1130
Prep Date:	01/19/2015 1707			Prep Date:	01/19/2015 1707
Leach Date:	N/A			Leach Date:	N/A

Analyte	Sample Result/Qual	MS Spike Amount	MSD Spike Amount	MS Result/Qual	MSD Result/Qual
PCB-1016	ND	2580	2800	3170	3000
PCB-1260	ND	2580	2800	3610	3530

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

Method Blank - Batch: 480-223542

Method: 8082A Preparation: 3510C

Lab Sample ID: MB 480-223542/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 01/20/2015 1353
Prep Date: 01/19/2015 1719
Leach Date: N/A

Analysis Batch: 480-223637
Prep Batch: 480-223542
Leach Batch: N/A
Units: ug/L

Instrument ID: HP6890-7
Lab File ID: 7_361_066.D
Initial Weight/Volume: 250 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Result	Qual	MDL	RL
PCB-1016	ND		0.18	0.50
PCB-1221	ND		0.18	0.50
PCB-1232	ND		0.18	0.50
PCB-1242	ND		0.18	0.50
PCB-1248	ND		0.18	0.50
PCB-1254	ND		0.25	0.50
PCB-1260	ND		0.25	0.50

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	79	23 - 127
DCB Decachlorobiphenyl	75	19 - 126

Surrogate	% Rec	Acceptance Limits
Tetrachloro-m-xylene	85	23 - 127
DCB Decachlorobiphenyl	74	19 - 126

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

Lab Control Sample/ Lab Control Sample Duplicate Recovery Report - Batch: 480-223542

Method: 8082A
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-223542/2-A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-223542	Lab File ID:	7_361_067.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	01/20/2015 1409	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	01/19/2015 1719			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

LCSD Lab Sample ID:	LCSD 480-223542/3-A	Analysis Batch:	480-223637	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-223542	Lab File ID:	7_361_068.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	250 mL
Analysis Date:	01/20/2015 1424	Units:	ug/L	Final Weight/Volume:	2 mL
Prep Date:	01/19/2015 1719			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

Analyte	% Rec.		Limit	RPD	RPD Limit	LCS Qual	LCSD Qual
	LCS	LCSD					
PCB-1016	90	101	51 - 137	12	50		
PCB-1260	99	100	45 - 139	1	50		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	67		66		19 - 126		
Tetrachloro-m-xylene	83		83		23 - 127		
Surrogate	LCS % Rec		LCSD % Rec		Acceptance Limits		
DCB Decachlorobiphenyl	69		67		19 - 126		
Tetrachloro-m-xylene	85		86		23 - 127		

Laboratory Control/ Laboratory Duplicate Data Report - Batch: 480-223542

Method: 8082A
Preparation: 3510C

LCS Lab Sample ID:	LCS 480-223542/2-A	Units:	ug/L	LCSD Lab Sample ID:	LCSD 480-223542/3-A
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	01/20/2015 1409			Analysis Date:	01/20/2015 1424
Prep Date:	01/19/2015 1719			Prep Date:	01/19/2015 1719
Leach Date:	N/A			Leach Date:	N/A

Analyte	LCS Spike Amount	LCSD Spike Amount	LCS Result/Qual	LCSD Result/Qual
PCB-1016	4.00	4.00	3.60	4.05
PCB-1260	4.00	4.00	3.96	4.01

DATA REPORTING QUALIFIERS

Client: URS Corporation

Job Number: 480-74383-1

Lab Section	Qualifier	Description
GC Semi VOA	J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 480-223536					
LCS 480-223536/2-A	Lab Control Sample	T	Solid	3550C	
MB 480-223536/1-A	Method Blank	T	Solid	3550C	
480-74383-1	TMC-CS-NW	T	Solid	3550C	
480-74383-1MS	Matrix Spike	T	Solid	3550C	
480-74383-1MSD	Matrix Spike Duplicate	T	Solid	3550C	
480-74383-2	TMC-CS-NE	T	Solid	3550C	
480-74383-3	TMC-CS-SE	T	Solid	3550C	
480-74383-4	TMC-CS-SW	T	Solid	3550C	
480-74383-5	TMC-CS-CENTER	T	Solid	3550C	
480-74383-6	TMC-CS-CENTER-FR	T	Solid	3550C	
Prep Batch: 480-223542					
LCS 480-223542/2-A	Lab Control Sample	T	Water	3510C	
LCSD 480-223542/3-A	Lab Control Sample Duplicate	T	Water	3510C	
MB 480-223542/1-A	Method Blank	T	Water	3510C	
480-74383-7	EB1-01192015	T	Water	3510C	
Analysis Batch:480-223637					
LCS 480-223536/2-A	Lab Control Sample	T	Solid	8082A	480-223536
MB 480-223536/1-A	Method Blank	T	Solid	8082A	480-223536
LCS 480-223542/2-A	Lab Control Sample	T	Water	8082A	480-223542
LCSD 480-223542/3-A	Lab Control Sample Duplicate	T	Water	8082A	480-223542
MB 480-223542/1-A	Method Blank	T	Water	8082A	480-223542
480-74383-1	TMC-CS-NW	T	Solid	8082A	480-223536
480-74383-1MS	Matrix Spike	T	Solid	8082A	480-223536
480-74383-1MSD	Matrix Spike Duplicate	T	Solid	8082A	480-223536
480-74383-2	TMC-CS-NE	T	Solid	8082A	480-223536
480-74383-3	TMC-CS-SE	T	Solid	8082A	480-223536
480-74383-4	TMC-CS-SW	T	Solid	8082A	480-223536
480-74383-5	TMC-CS-CENTER	T	Solid	8082A	480-223536
480-74383-6	TMC-CS-CENTER-FR	T	Solid	8082A	480-223536
480-74383-7	EB1-01192015	T	Water	8082A	480-223542

Report Basis

T = Total

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
General Chemistry					
Analysis Batch:480-223535					
480-74383-1	TMC-CS-NW	T	Solid	Moisture	
480-74383-2	TMC-CS-NE	T	Solid	Moisture	
480-74383-3	TMC-CS-SE	T	Solid	Moisture	
480-74383-4	TMC-CS-SW	T	Solid	Moisture	
480-74383-5	TMC-CS-CENTER	T	Solid	Moisture	
480-74383-6	TMC-CS-CENTER-FR	T	Solid	Moisture	

Report Basis

T = Total

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

Laboratory Chronicle

Lab ID: 480-74383-1

Client ID: TMC-CS-NW

Sample Date/Time: 01/19/2015 13:25

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-74383-A-1-C		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	480-74383-A-1-C		480-223637	480-223536	01/20/2015 11:46	1	TAL BUF	KS
A:Moisture	480-74383-A-1		480-223535		01/19/2015 16:52	1	TAL BUF	KPK

Lab ID: 480-74383-1 MS

Client ID: TMC-CS-NW

Sample Date/Time: 01/19/2015 13:25

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-74383-A-1-A MS		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	480-74383-A-1-A MS		480-223637	480-223536	01/20/2015 11:14	1	TAL BUF	KS

Lab ID: 480-74383-1 MSD

Client ID: TMC-CS-NW

Sample Date/Time: 01/19/2015 13:25

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-74383-A-1-B MSD		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	480-74383-A-1-B MSD		480-223637	480-223536	01/20/2015 11:30	1	TAL BUF	KS

Lab ID: 480-74383-2

Client ID: TMC-CS-NE

Sample Date/Time: 01/19/2015 13:27

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-74383-A-2-A		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	480-74383-A-2-A		480-223637	480-223536	01/20/2015 12:02	1	TAL BUF	KS
A:Moisture	480-74383-A-2		480-223535		01/19/2015 16:52	1	TAL BUF	KPK

Lab ID: 480-74383-3

Client ID: TMC-CS-SE

Sample Date/Time: 01/19/2015 13:36

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-74383-A-3-A		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	480-74383-A-3-A		480-223637	480-223536	01/20/2015 12:18	1	TAL BUF	KS
A:Moisture	480-74383-A-3		480-223535		01/19/2015 16:52	1	TAL BUF	KPK

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

Laboratory Chronicle

Lab ID: 480-74383-4

Client ID: TMC-CS-SW

Sample Date/Time: 01/19/2015 13:40

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-74383-A-4-A		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	480-74383-A-4-A		480-223637	480-223536	01/20/2015 12:33	1	TAL BUF	KS
A:Moisture	480-74383-A-4		480-223535		01/19/2015 16:52	1	TAL BUF	KPK

Lab ID: 480-74383-5

Client ID: TMC-CS-CENTER

Sample Date/Time: 01/19/2015 13:33

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-74383-A-5-A		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	480-74383-A-5-A		480-223637	480-223536	01/20/2015 12:49	1	TAL BUF	KS
A:Moisture	480-74383-A-5		480-223535		01/19/2015 16:52	1	TAL BUF	KPK

Lab ID: 480-74383-6

Client ID: TMC-CS-CENTER-FR

Sample Date/Time: 01/19/2015 13:33

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	480-74383-A-6-A		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	480-74383-A-6-A		480-223637	480-223536	01/20/2015 13:05	1	TAL BUF	KS
A:Moisture	480-74383-A-6		480-223535		01/19/2015 16:52	1	TAL BUF	KPK

Lab ID: 480-74383-7

Client ID: EB1-01192015

Sample Date/Time: 01/19/2015 13:52

Received Date/Time: 01/19/2015 16:35

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-74383-A-7-A		480-223637	480-223542	01/19/2015 17:19	1	TAL BUF	CPH
A:8082A	480-74383-A-7-A		480-223637	480-223542	01/20/2015 14:40	1	TAL BUF	KS

Lab ID: MB

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	MB 480-223536/1-A		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	MB 480-223536/1-A		480-223637	480-223536	01/20/2015 10:43	1	TAL BUF	KS
P:3510C	MB 480-223542/1-A		480-223637	480-223542	01/19/2015 17:19	1	TAL BUF	CPH
A:8082A	MB 480-223542/1-A		480-223637	480-223542	01/20/2015 13:53	1	TAL BUF	KS

Quality Control Results

Client: URS Corporation

Job Number: 480-74383-1

Laboratory Chronicle

Lab ID: LCS

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3550C	LCS 480-223536/2-A		480-223637	480-223536	01/19/2015 17:07	1	TAL BUF	CPH
A:8082A	LCS 480-223536/2-A		480-223637	480-223536	01/20/2015 10:58	1	TAL BUF	KS
P:3510C	LCS 480-223542/2-A		480-223637	480-223542	01/19/2015 17:19	1	TAL BUF	CPH
A:8082A	LCS 480-223542/2-A		480-223637	480-223542	01/20/2015 14:09	1	TAL BUF	KS

Lab ID: LCSD

Client ID: N/A

Sample Date/Time: N/A

Received Date/Time: N/A

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	LCSD 480-223542/3-A		480-223637	480-223542	01/19/2015 17:19	1	TAL BUF	CPH
A:8082A	LCSD 480-223542/3-A		480-223637	480-223542	01/20/2015 14:24	1	TAL BUF	KS

Lab References:

TAL BUF = TestAmerica Buffalo

Method 8082A

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

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

SDG No.: _____

Matrix: Solid 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 #	DCB1 #	DCB2 #
TMC-CS-NW	480-74383-1	103	109	111	112
TMC-CS-NE	480-74383-2	98	105	109	110
TMC-CS-SE	480-74383-3	102	109	120	121
TMC-CS-SW	480-74383-4	96	101	110	110
TMC-CS-CENTER	480-74383-5	104	111	124	124
TMC-CS-CENTER-FR	480-74383-6	99	104	114	112
	MB 480-223536/1-A	105	114	127	126
	LCS 480-223536/2-A	118	119	139	137
TMC-CS-NW MS	480-74383-1 MS	119	118	140	140
TMC-CS-NW MSD	480-74383-1 MSD	110	113	125	126

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC LIMITS
46-175
47-176

Column to be used to flag recovery values

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

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 #	DCB1 #	DCB2 #
EB1-01192015	480-74383-7	84	91	58	60
	MB 480-223542/1-A	79	85	75	74
	LCS 480-223542/2-A	83	85	67	69
	LCSD 480-223542/3-A	83	86	66	67

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC LIMITS
23-127
19-126

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: 7_361_055.D
Lab ID: LCS 480-223536/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/Kg)	LCS CONCENTRATION (ug/Kg)	LCS % REC	QC LIMITS REC	#
PCB-1016	1870	2280	122	51-185	
PCB-1260	1870	2620	140	61-184	

Column to be used to flag recovery and RPD values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 7_361_067.D
Lab ID: LCS 480-223542/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	3.60	90	51-137	
PCB-1260	4.00	3.96	99	45-139	

Column to be used to flag recovery and RPD values

FORM III
PCBS LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 7_361_068.D
Lab ID: LCSD 480-223542/3-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	4.00	4.05	101	12	50	51-137	
PCB-1260	4.00	4.01	100	1	50	45-139	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: 7_361_056.D
Lab ID: 480-74383-1 MS Client ID: TMC-CS-NW MS

COMPOUND	SPIKE ADDED (ug/Kg)	SAMPLE CONCENTRATION (ug/Kg)	MS CONCENTRATION (ug/Kg)	MS % REC	QC LIMITS REC	#
PCB-1016	2580	ND	3170	123	42-159	
PCB-1260	2580	ND	3610	140	47-153	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Matrix: Solid Level: Low Lab File ID: 7_361_057.D
Lab ID: 480-74383-1 MSD Client ID: TMC-CS-NW MSD

COMPOUND	SPIKE ADDED (ug/Kg)	MSD CONCENTRATION (ug/Kg)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	2800	3000	107	5	50	42-159	
PCB-1260	2800	3530	126	2	50	47-153	

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Lab Sample ID: MB 480-223536/1-A
 Matrix: Solid Date Extracted: 01/19/2015 17:07
 Lab File ID: (1) 7_361_054.D Lab File ID: (2) 7_361_054.D
 Date Analyzed: (1) 01/20/2015 10:43 Date Analyzed: (2) 01/20/2015 10:43
 Instrument ID: (1) HP6890-7 Instrument ID: (2) HP6890-7
 GC Column: (1) ZB-5 ID: 0.53(mm) GC Column: (2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-223536/2-A	01/20/2015 10:58	01/20/2015 10:58
TMC-CS-NW MS	480-74383-1 MS	01/20/2015 11:14	01/20/2015 11:14
TMC-CS-NW MSD	480-74383-1 MSD	01/20/2015 11:30	01/20/2015 11:30
TMC-CS-NW	480-74383-1	01/20/2015 11:46	01/20/2015 11:46
TMC-CS-NE	480-74383-2	01/20/2015 12:02	01/20/2015 12:02
TMC-CS-SE	480-74383-3	01/20/2015 12:18	01/20/2015 12:18
TMC-CS-SW	480-74383-4	01/20/2015 12:33	01/20/2015 12:33
TMC-CS-CENTER	480-74383-5	01/20/2015 12:49	01/20/2015 12:49
TMC-CS-CENTER-FR	480-74383-6	01/20/2015 13:05	01/20/2015 13:05

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Lab Sample ID: MB 480-223542/1-A
Matrix: Water Date Extracted: 01/19/2015 17:19
Lab File ID: (1) 7_361_066.D Lab File ID: (2) 7_361_066.D
Date Analyzed: (1) 01/20/2015 13:53 Date Analyzed: (2) 01/20/2015 13:53
Instrument ID: (1) HP6890-7 Instrument ID: (2) HP6890-7
GC Column: (1) ZB-5 ID: 0.53 (mm) GC Column: (2) ZB-35 ID: 0.53 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE	
		ANALYZED 1	ANALYZED 2
	LCS 480-223542/2-A	01/20/2015 14:09	01/20/2015 14:09
	LCSD 480-223542/3-A	01/20/2015 14:24	01/20/2015 14:24
EB1-01192015	480-74383-7	01/20/2015 14:40	01/20/2015 14:40

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-NW MS Lab Sample ID: 480-74383-1 MS
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 01/20/2015 11:14 Date Analyzed (2): 01/20/2015 11:14
 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	2.04	2.01	2.07	2930	3170	0.3
		2	2.70	2.67	2.73	3320		
		3	2.78	2.75	2.81	3200		
		4	2.84	2.81	2.87	3220		
	2	1	2.39	2.36	2.42	2990	3180	
		2	2.49	2.46	2.52	3430		
		3	2.70	2.67	2.73	3130		
		4	2.97	2.94	3.00	3170		
PCB-1254	1	1	3.64	3.62	3.68	1290	1380	12.6
		2	3.86	3.83	3.89	734		
		3	3.94	3.91	3.97	930		
		4	4.13	4.11	4.17	2570		
	2	1	3.38	3.35	3.41	1520	1570	
		2	3.68	3.65	3.71	441		
		3	3.78	3.73	3.79	2040		
		4	3.91	3.87	3.93	2260		
PCB-1260	1	1	4.66	4.63	4.69	3770	3610	3.7
		2	4.85	4.82	4.88	3620		
		3	5.05	5.02	5.08	3680		
		4	5.29	5.26	5.32	3380		
	2	1	4.63	4.60	4.66	3420	3750	
		2	4.70	4.67	4.73	3460		
		3	4.77	4.74	4.80	4070		
		4	5.10	5.07	5.13	4040		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-NW MSD Lab Sample ID: 480-74383-1 MSD
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 01/20/2015 11:30 Date Analyzed (2): 01/20/2015 11:30
 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	2.04	2.01	2.07	2360	3000	7.9
		2	2.70	2.67	2.73	3320		
		3	2.78	2.75	2.81	3160		
		4	2.84	2.81	2.87	3180		
	2	1	2.39	2.36	2.42	3080	3250	
		2	2.50	2.46	2.52	3450		
		3	2.70	2.67	2.73	3220		
		4	2.97	2.94	3.00	3250		
PCB-1254	1	1	3.64	3.62	3.68	1270	1340	15.8
		2	3.86	3.83	3.89	658		
		3	3.93	3.91	3.97	909		
		4	4.13	4.11	4.17	2520		
	2	1	3.38	3.35	3.41	1530	1570	
		2	3.68	3.65	3.71	450		
		3	3.78	3.73	3.79	2000		
		4	3.91	3.87	3.93	2300		
PCB-1260	1	1	4.66	4.63	4.69	3690	3530	5.0
		2	4.85	4.82	4.88	3550		
		3	5.05	5.02	5.08	3630		
		4	5.29	5.26	5.32	3270		
	2	1	4.63	4.60	4.66	3560	3720	
		2	4.70	4.67	4.73	3450		
		3	4.77	4.74	4.80	3960		
		4	5.10	5.07	5.13	3900		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-SW Lab Sample ID: 480-74383-4
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 01/20/2015 12:33 Date Analyzed (2): 01/20/2015 12:33
 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-1254	1	2	3.86	3.83	3.89	956	350	47.2
		3	3.94	3.91	3.97	161		
		4	4.13	4.11	4.17	176		
	2	1	3.38	3.35	3.41	189	220	
		3	3.76	3.73	3.79	280		
		4	3.90	3.87	3.93	182		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-223536/2-A
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 01/20/2015 10:58 Date Analyzed (2): 01/20/2015 10:58
 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	2.04	2.01	2.07	2120	2280	2.4
		2	2.70	2.67	2.73	2400		
		3	2.78	2.75	2.81	2280		
		4	2.84	2.81	2.87	2330		
	2	1	2.39	2.36	2.42	2210	2340	
		2	2.49	2.46	2.52	2480		
		3	2.70	2.67	2.73	2310		
		4	2.97	2.94	3.00	2350		
PCB-1260	1	1	4.66	4.63	4.69	2740	2620	3.6
		2	4.85	4.82	4.88	2600		
		3	5.05	5.02	5.08	2690		
		4	5.29	5.26	5.32	2430		
	2	1	4.63	4.60	4.66	2580	2710	
		2	4.70	4.67	4.73	2510		
		3	4.77	4.74	4.80	2930		
		4	5.10	5.07	5.13	2830		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-223542/2-A
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 01/20/2015 14:09 Date Analyzed (2): 01/20/2015 14:09
 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	2.05	2.01	2.07	3.09	3.60	6.3
		2	2.70	2.67	2.73	3.81		
		3	2.78	2.75	2.81	3.72		
		4	2.84	2.81	2.87	3.79		
	2	1	2.39	2.36	2.42	3.64	3.84	
		2	2.50	2.46	2.52	3.98		
		3	2.70	2.67	2.73	3.85		
		4	2.97	2.94	3.00	3.87		
PCB-1260	1	1	4.66	4.63	4.69	4.17	3.96	1.1
		2	4.85	4.82	4.88	4.06		
		3	5.05	5.02	5.08	4.04		
		4	5.29	5.26	5.32	3.55		
	2	1	4.63	4.60	4.66	3.89	4.00	
		2	4.70	4.67	4.73	3.68		
		3	4.77	4.74	4.80	4.36		
		4	5.10	5.07	5.13	4.07		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCSD 480-223542/3-A
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 01/20/2015 14:24 Date Analyzed (2): 01/20/2015 14:24
 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	2.05	2.01	2.07	4.07	4.05	2.0
		2	2.70	2.67	2.73	4.09		
		3	2.78	2.75	2.81	3.99		
		4	2.84	2.81	2.87	4.06		
	2	1	2.39	2.36	2.42	3.95	4.13	
		2	2.49	2.46	2.52	4.28		
		3	2.70	2.67	2.73	4.14		
		4	2.97	2.94	3.00	4.16		
PCB-1260	1	1	4.66	4.63	4.69	4.33	4.01	1.2
		2	4.85	4.82	4.88	4.13		
		3	5.05	5.02	5.08	4.04		
		4	5.29	5.26	5.32	3.56		
	2	1	4.63	4.60	4.66	3.97	4.06	
		2	4.70	4.67	4.73	3.78		
		3	4.77	4.74	4.80	4.39		
		4	5.10	5.07	5.13	4.11		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-NW Lab Sample ID: 480-74383-1
 Matrix: Solid Lab File ID: 7_361_058.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:25
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.46(g) Date Analyzed: 01/20/2015 11:46
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
 % Moisture: 18.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		250	49
11104-28-2	PCB-1221	ND		250	49
11141-16-5	PCB-1232	ND		250	49
53469-21-9	PCB-1242	ND		250	49
12672-29-6	PCB-1248	ND		250	49
11097-69-1	PCB-1254	120	J	250	120
11096-82-5	PCB-1260	ND		250	120

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	111		47-176
877-09-8	Tetrachloro-m-xylene	103		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_058.D
 Lims ID: 480-74383-A-1-C Lab Sample ID: 480-74383-1
 Client ID: TMC-CS-NW
 Sample Type: Client
 Inject. Date: 20-Jan-2015 11:46:28 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:09:46 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:09:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	1011329	0.0207
2	1.506	1.507	-0.001	1006782	0.0219

RPD = 5.65

8 PCB-1254

1	3.641	3.645	-0.004	22111	0.0111	M
1	3.858	3.863	-0.004	84134	0.0642	M
1	3.938	3.940	-0.002	21246	0.008958	
1	4.131	4.137	-0.006	35680	0.0154	M

Average of Peak Amounts = 0.0249

2	3.378	3.381	-0.003	20755	0.0136
2	0.000	3.677	-3.677	0	0
2	3.761	3.763	-0.001	50892	0.0211
2	3.898	3.895	0.003	34721	0.0148

Average of Peak Amounts = 0.0165

RPD = 40.76

\$ 12 DCB Decachlorobiphenyl

1	6.484	6.482	0.002	536715	0.0223
2	6.088	6.088	0.000	582340	0.0225

RPD = 0.77

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_058.D

Injection Date: 20-Jan-2015 11:46:28

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-1-C

Lab Sample ID: 480-74383-1

Worklist Smp#: 9

Client ID: TMC-CS-NW

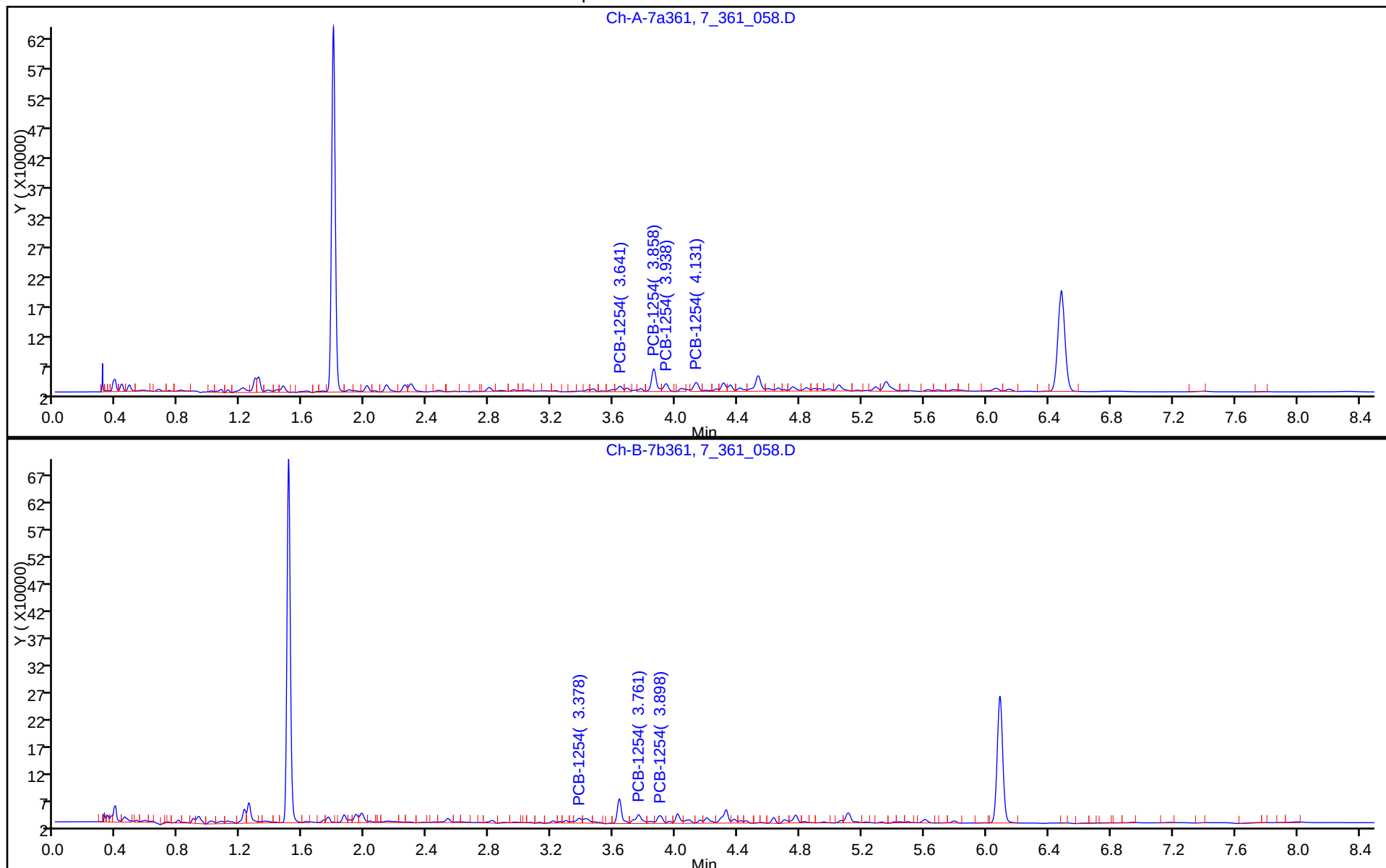
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

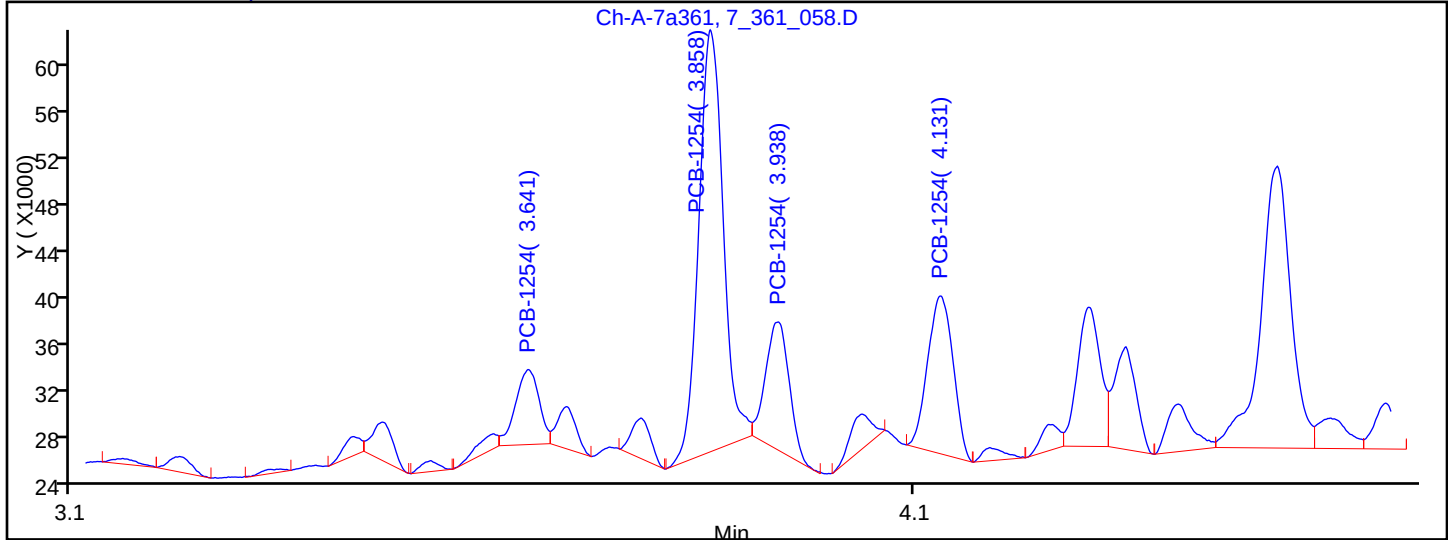
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



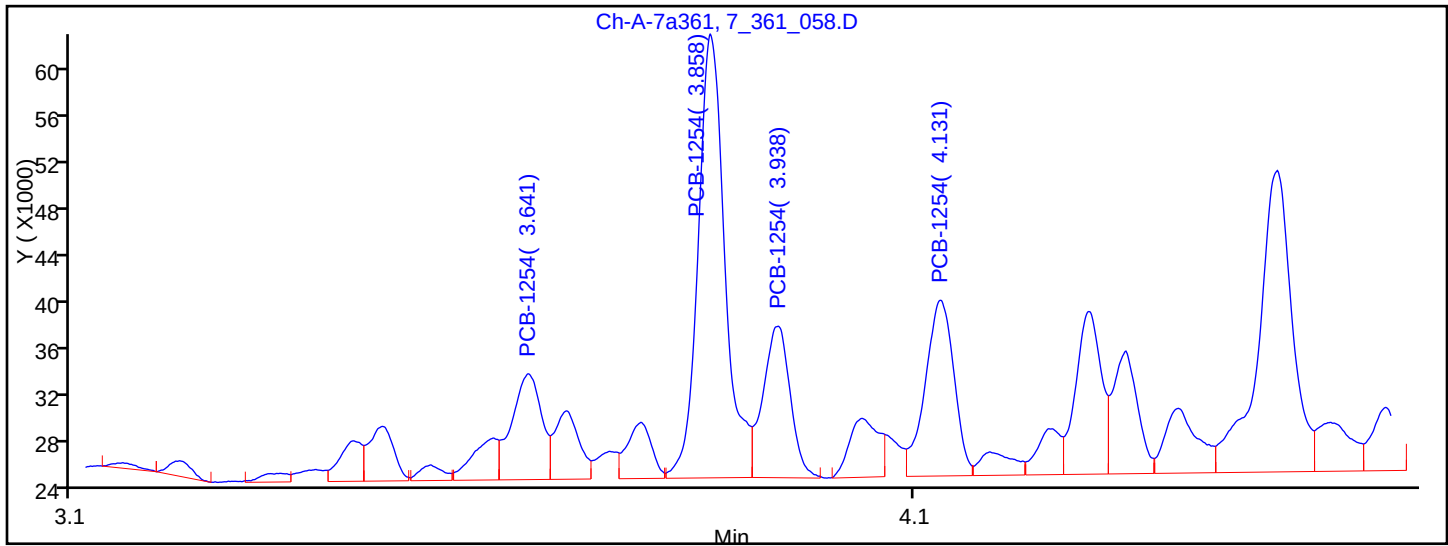
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_058.D
Injection Date: 20-Jan-2015 11:46:28 Instrument ID: HP6890-7
Lims ID: 480-74383-A-1-C Lab Sample ID: 480-74383-1
Client ID: TMC-CS-NW
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 9
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

8 PCB-1254, CAS: 11097-69-1

Processing Integration Results

RT = 3.641	Response = 12546	M
RT = 3.858	Response = 72935	M
RT = 3.938	Response = 21246	
RT = 4.131	Response = 28355	M



Manual Integration Results

RT = 3.641	Response = 22111	M
RT = 3.858	Response = 84134	M
RT = 3.938	Response = 21246	
RT = 4.131	Response = 35680	M

Reviewer: sobolk, 20-Jan-2015 18:09:46

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: TMC-CS-NW Lab Sample ID: 480-74383-1
Matrix: Solid Lab File ID: 7_361_058.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:25
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.46(g) Date Analyzed: 01/20/2015 11:46
Con. Extract Vol.: 10 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: 18.8 GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	112		47-176
877-09-8	Tetrachloro-m-xylene	109		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_058.D
 Lims ID: 480-74383-A-1-C Lab Sample ID: 480-74383-1
 Client ID: TMC-CS-NW
 Sample Type: Client
 Inject. Date: 20-Jan-2015 11:46:28 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:09:46 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:09:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	1011329	0.0207
2	1.506	1.507	-0.001	1006782	0.0219

RPD = 5.65

8 PCB-1254

1	3.641	3.645	-0.004	22111	0.0111	M
1	3.858	3.863	-0.004	84134	0.0642	M
1	3.938	3.940	-0.002	21246	0.008958	
1	4.131	4.137	-0.006	35680	0.0154	M

Average of Peak Amounts = 0.0249

2	3.378	3.381	-0.003	20755	0.0136
2	0.000	3.677	-3.677	0	0
2	3.761	3.763	-0.001	50892	0.0211
2	3.898	3.895	0.003	34721	0.0148

Average of Peak Amounts = 0.0165

RPD = 40.76

\$ 12 DCB Decachlorobiphenyl

1	6.484	6.482	0.002	536715	0.0223
2	6.088	6.088	0.000	582340	0.0225

RPD = 0.77

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_058.D

Injection Date: 20-Jan-2015 11:46:28

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-1-C

Lab Sample ID: 480-74383-1

Worklist Smp#: 9

Client ID: TMC-CS-NW

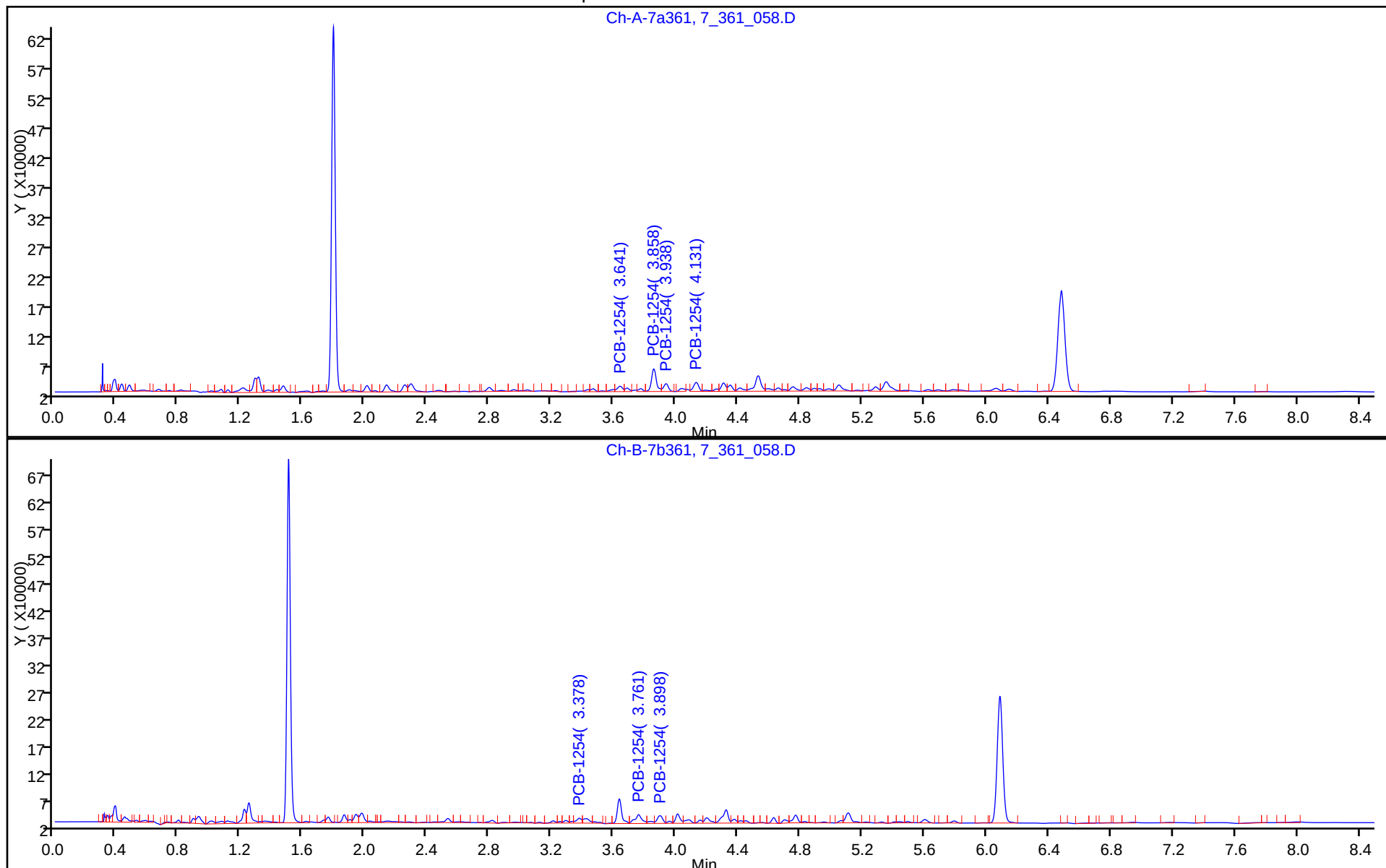
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-NE Lab Sample ID: 480-74383-2
 Matrix: Solid Lab File ID: 7_361_059.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:27
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.51(g) Date Analyzed: 01/20/2015 12:02
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-5 ID: 0.53 (mm)
 % Moisture: 19.9 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		250	49
11104-28-2	PCB-1221	ND		250	49
11141-16-5	PCB-1232	ND		250	49
53469-21-9	PCB-1242	ND		250	49
12672-29-6	PCB-1248	ND		250	49
11097-69-1	PCB-1254	ND		250	120
11096-82-5	PCB-1260	ND		250	120

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	109		47-176
877-09-8	Tetrachloro-m-xylene	98		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_059.D
 Lims ID: 480-74383-A-2-A Lab Sample ID: 480-74383-2
 Client ID: TMC-CS-NE
 Sample Type: Client
 Inject. Date: 20-Jan-2015 12:02:14 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:12:14 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:12:14

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.794	-0.001	960100	0.0196	
2	1.505	1.507	-0.002	968917	0.0210	
RPD = 7.01						

8 PCB-1254

1	3.640	3.645	-0.005	16382	0.008247	
1	3.858	3.863	-0.004	28735	0.0219	
1	3.938	3.940	-0.002	18043	0.007608	
1	4.131	4.137	-0.006	18467	0.007994	
Average of Peak Amounts =					0.0114	
2	3.378	3.381	-0.003	15851	0.0104	
2	0.000	3.677	-3.677	0	0	
2	3.760	3.763	-0.002	24108	0.0100	
2	3.897	3.895	0.002	21244	0.009032	
Average of Peak Amounts =					0.009808	
RPD = 15.37						

\$ 12 DCB Decachlorobiphenyl

1	6.484	6.482	0.002	527398	0.0219	
2	6.088	6.088	0.000	567852	0.0219	
RPD = 0.09						

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_059.D

Injection Date: 20-Jan-2015 12:02:14

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-2-A

Lab Sample ID: 480-74383-2

Worklist Smp#: 10

Client ID: TMC-CS-NE

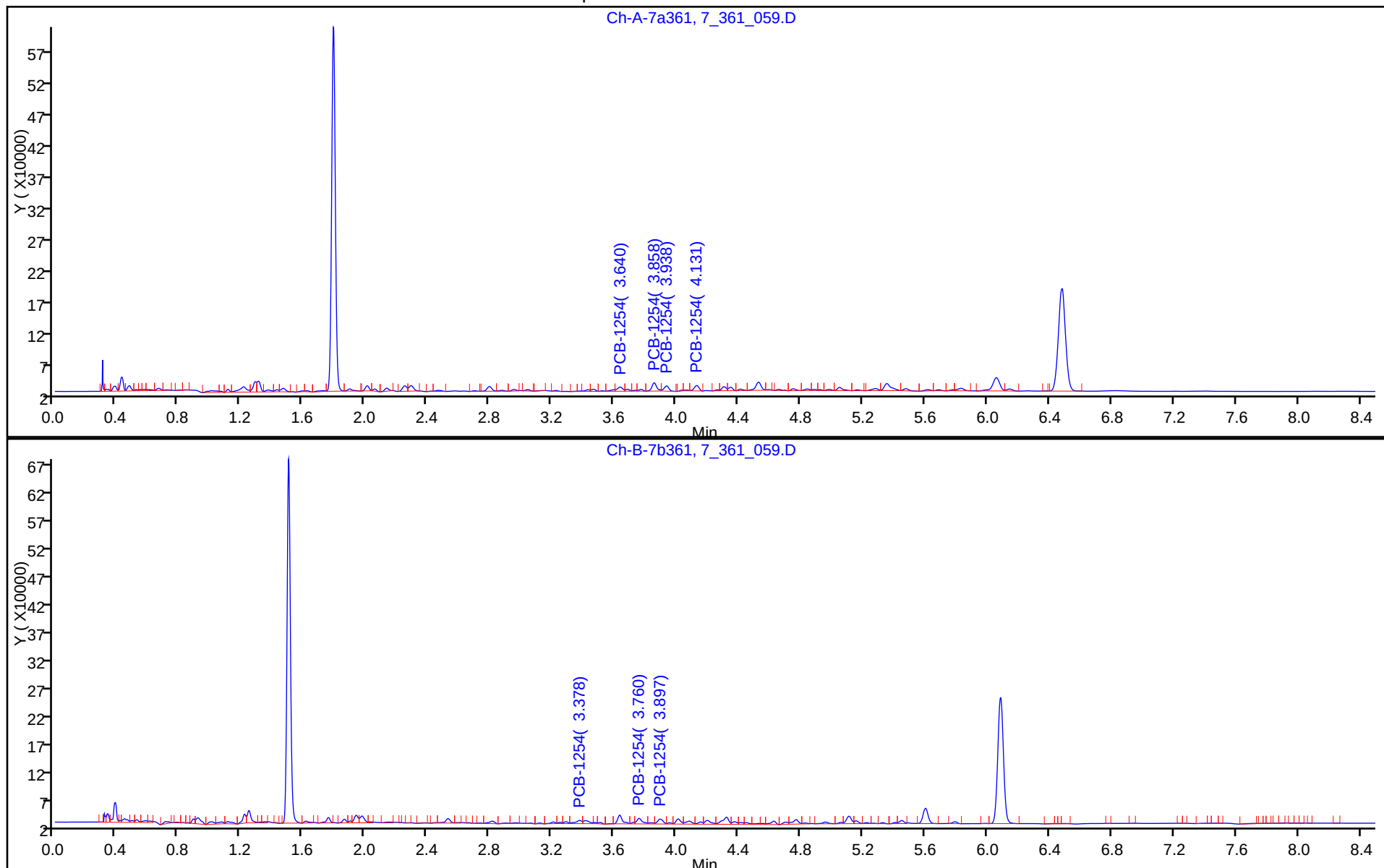
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: TMC-CS-NE Lab Sample ID: 480-74383-2
Matrix: Solid Lab File ID: 7_361_059.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:27
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.51(g) Date Analyzed: 01/20/2015 12:02
Con. Extract Vol.: 10 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: 19.9 GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	110		47-176
877-09-8	Tetrachloro-m-xylene	105		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_059.D
 Lims ID: 480-74383-A-2-A Lab Sample ID: 480-74383-2
 Client ID: TMC-CS-NE
 Sample Type: Client
 Inject. Date: 20-Jan-2015 12:02:14 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:12:14 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:12:14

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

\$ 3 Tetrachloro-m-xylene

1	1.793	1.794	-0.001	960100	0.0196	
2	1.505	1.507	-0.002	968917	0.0210	
RPD = 7.01						

8 PCB-1254

1	3.640	3.645	-0.005	16382	0.008247	
1	3.858	3.863	-0.004	28735	0.0219	
1	3.938	3.940	-0.002	18043	0.007608	
1	4.131	4.137	-0.006	18467	0.007994	
Average of Peak Amounts =					0.0114	
2	3.378	3.381	-0.003	15851	0.0104	
2	0.000	3.677	-3.677	0	0	
2	3.760	3.763	-0.002	24108	0.0100	
2	3.897	3.895	0.002	21244	0.009032	
Average of Peak Amounts =					0.009808	
RPD = 15.37						

\$ 12 DCB Decachlorobiphenyl

1	6.484	6.482	0.002	527398	0.0219	
2	6.088	6.088	0.000	567852	0.0219	
RPD = 0.09						

Reagents:

COPPER_00051 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_059.D

Injection Date: 20-Jan-2015 12:02:14

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-2-A

Lab Sample ID: 480-74383-2

Worklist Smp#: 10

Client ID: TMC-CS-NE

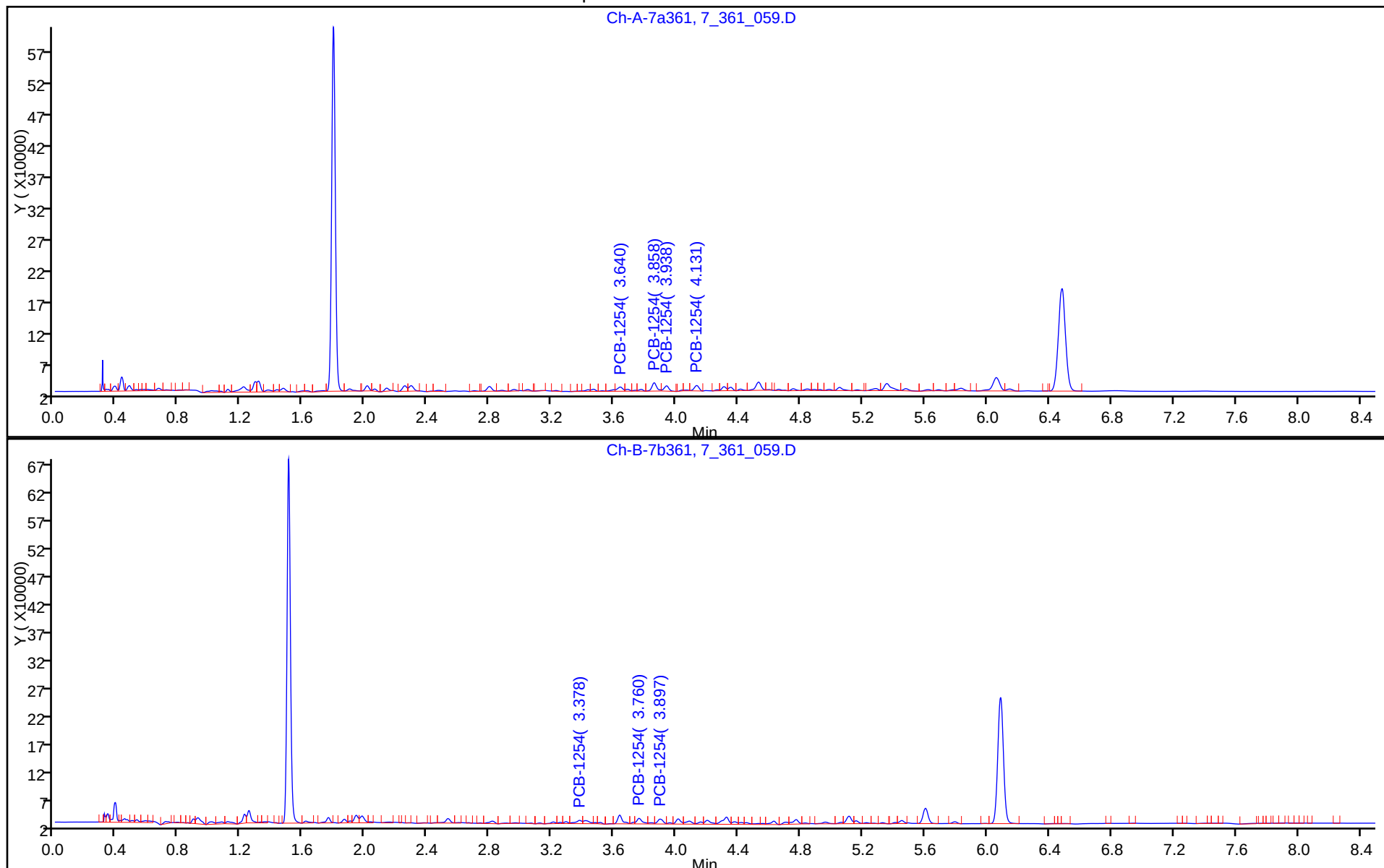
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-SE Lab Sample ID: 480-74383-3
 Matrix: Solid Lab File ID: 7_361_060.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:36
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.17(g) Date Analyzed: 01/20/2015 12:18
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
 % Moisture: 22.4 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		300	58
11104-28-2	PCB-1221	ND		300	58
11141-16-5	PCB-1232	ND		300	58
53469-21-9	PCB-1242	ND		300	58
12672-29-6	PCB-1248	ND		300	58
11097-69-1	PCB-1254	ND		300	140
11096-82-5	PCB-1260	ND		300	140

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	120		47-176
877-09-8	Tetrachloro-m-xylene	102		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_060.D
 Lims ID: 480-74383-A-3-A Lab Sample ID: 480-74383-3
 Client ID: TMC-CS-SE
 Sample Type: Client
 Inject. Date: 20-Jan-2015 12:18:02 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:13:26 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:13:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.792	1.794	-0.002	1000356	0.0204	
2	1.503	1.507	-0.004	1001330	0.0217	
RPD = 6.20						

8 PCB-1254

1	3.640	3.645	-0.005	5847	0.002943	
1	3.856	3.863	-0.006	31246	0.0238	
1	3.935	3.940	-0.005	10414	0.004391	
1	4.127	4.137	-0.010	13381	0.005793	
Average of Peak Amounts =					0.009240	
2	3.376	3.381	-0.005	5889	0.003871	
2	0.000	3.677	-3.677	0	0	
2	3.758	3.763	-0.004	12547	0.005191	
2	3.898	3.895	0.003	11257	0.004786	
Average of Peak Amounts =					0.004616	
RPD = 66.74						

LOD = 0.0100

\$ 12 DCB Decachlorobiphenyl

1	6.481	6.482	-0.001	577755	0.0241	
2	6.086	6.088	-0.002	626819	0.0242	
RPD = 0.40						

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_060.D

Injection Date: 20-Jan-2015 12:18:02

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-3-A

Lab Sample ID: 480-74383-3

Worklist Smp#: 11

Client ID: TMC-CS-SE

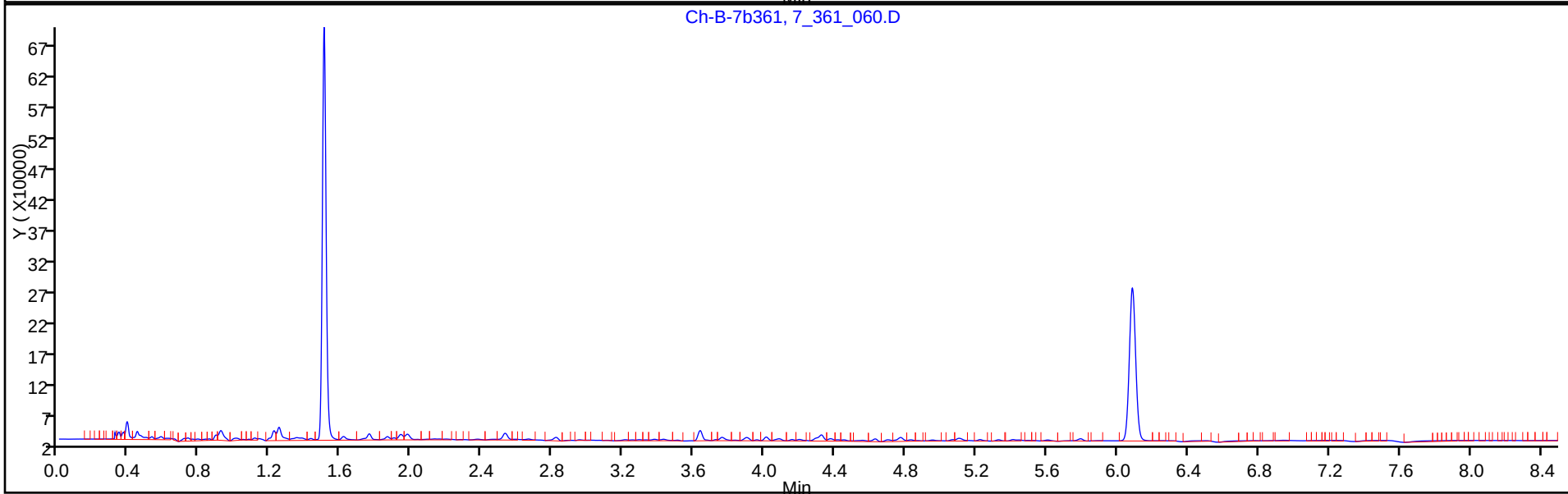
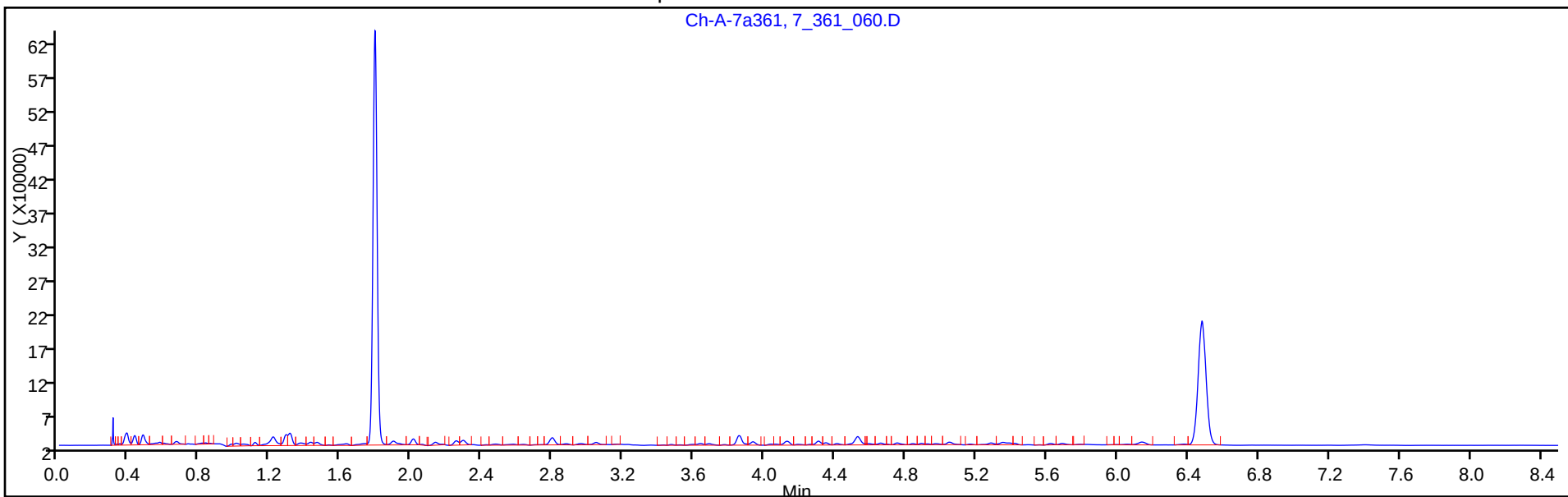
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: TMC-CS-SE Lab Sample ID: 480-74383-3
Matrix: Solid Lab File ID: 7_361_060.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:36
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.17(g) Date Analyzed: 01/20/2015 12:18
Con. Extract Vol.: 10 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: 22.4 GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	121		47-176
877-09-8	Tetrachloro-m-xylene	109		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_060.D
 Lims ID: 480-74383-A-3-A Lab Sample ID: 480-74383-3
 Client ID: TMC-CS-SE
 Sample Type: Client
 Inject. Date: 20-Jan-2015 12:18:02 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:13:26 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:13:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.792	1.794	-0.002	1000356	0.0204
2	1.503	1.507	-0.004	1001330	0.0217
RPD = 6.20					

8 PCB-1254

1	3.640	3.645	-0.005	5847	0.002943
1	3.856	3.863	-0.006	31246	0.0238
1	3.935	3.940	-0.005	10414	0.004391
1	4.127	4.137	-0.010	13381	0.005793
Average of Peak Amounts =					0.009240
2	3.376	3.381	-0.005	5889	0.003871
2	0.000	3.677	-3.677	0	0
2	3.758	3.763	-0.004	12547	0.005191
2	3.898	3.895	0.003	11257	0.004786
Average of Peak Amounts =					0.004616
RPD = 66.74					

LOD = 0.0100

\$ 12 DCB Decachlorobiphenyl

1	6.481	6.482	-0.001	577755	0.0241
2	6.086	6.088	-0.002	626819	0.0242
RPD = 0.40					

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_060.D

Injection Date: 20-Jan-2015 12:18:02

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-3-A

Lab Sample ID: 480-74383-3

Worklist Smp#: 11

Client ID: TMC-CS-SE

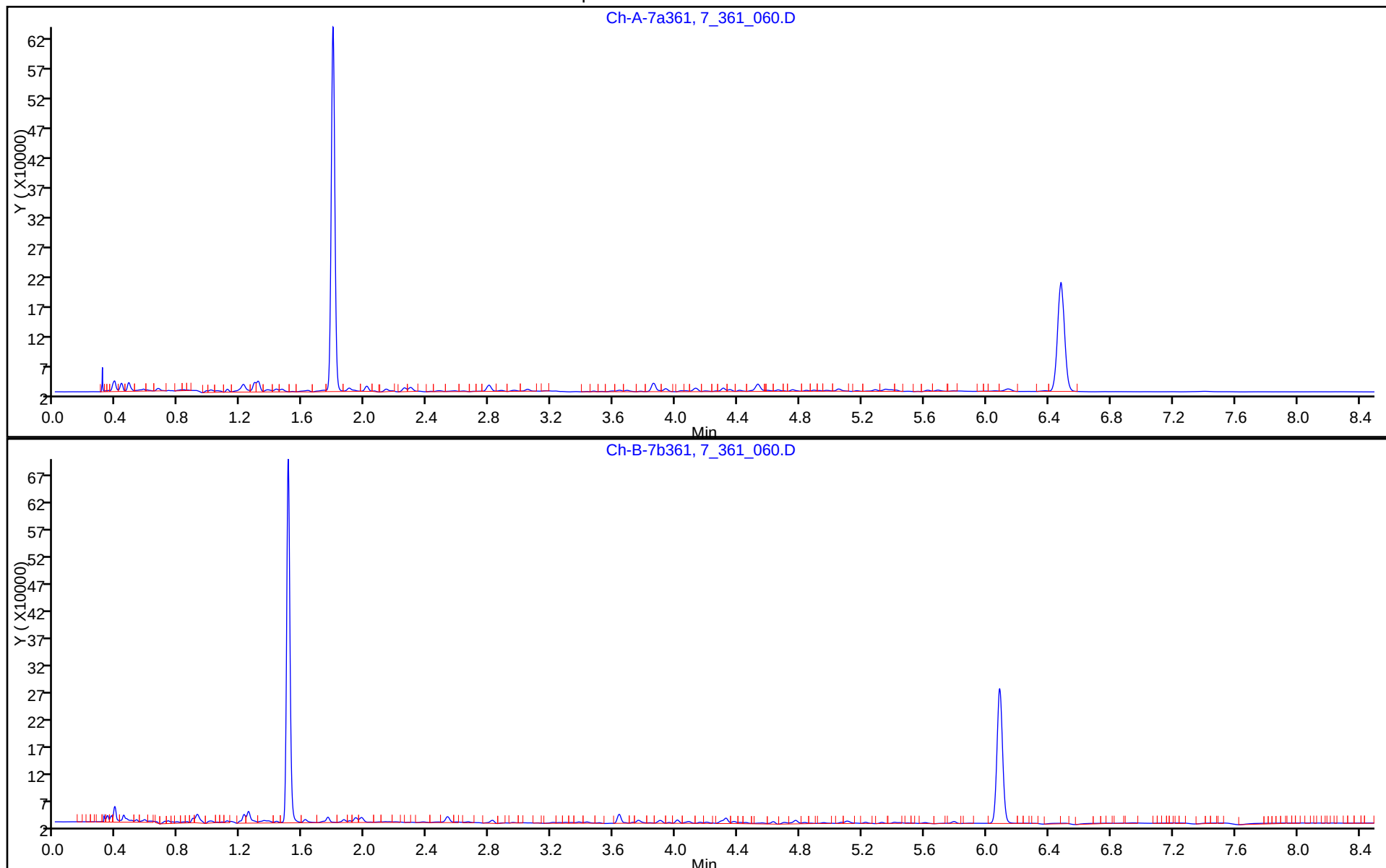
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-SW Lab Sample ID: 480-74383-4
 Matrix: Solid Lab File ID: 7_361_061.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:40
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.28(g) Date Analyzed: 01/20/2015 12:33
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
 % Moisture: 18.0 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		270	52
11104-28-2	PCB-1221	ND		270	52
11141-16-5	PCB-1232	ND		270	52
53469-21-9	PCB-1242	ND		270	52
12672-29-6	PCB-1248	ND		270	52
11097-69-1	PCB-1254	350		270	130
11096-82-5	PCB-1260	ND		270	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	110		47-176
877-09-8	Tetrachloro-m-xylene	96		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_061.D
 Lims ID: 480-74383-A-4-A Lab Sample ID: 480-74383-4
 Client ID: TMC-CS-SW
 Sample Type: Client
 Inject. Date: 20-Jan-2015 12:33:54 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:16:00 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:16:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	940160	0.0192
2	1.506	1.507	-0.001	930194	0.0202

RPD = 5.04

8 PCB-1254

1	3.643	3.645	-0.003	40357	0.0203
1	3.860	3.863	-0.002	234375	0.1788
1	3.937	3.940	-0.003	71385	0.0301
1	4.131	4.137	-0.006	76180	0.0330

Average of Peak Amounts = 0.0655

2	3.379	3.381	-0.002	53682	0.0353
2	0.000	3.677	-3.677	0	0
2	3.761	3.763	-0.001	126318	0.0523
2	3.899	3.895	0.004	79986	0.0340

Average of Peak Amounts = 0.0405

RPD = 47.18

\$ 12 DCB Decachlorobiphenyl

1	6.481	6.482	-0.001	529952	0.0220
2	6.088	6.088	0.000	572428	0.0221

RPD = 0.38

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_061.D

Injection Date: 20-Jan-2015 12:33:54

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-4-A

Lab Sample ID: 480-74383-4

Worklist Smp#: 12

Client ID: TMC-CS-SW

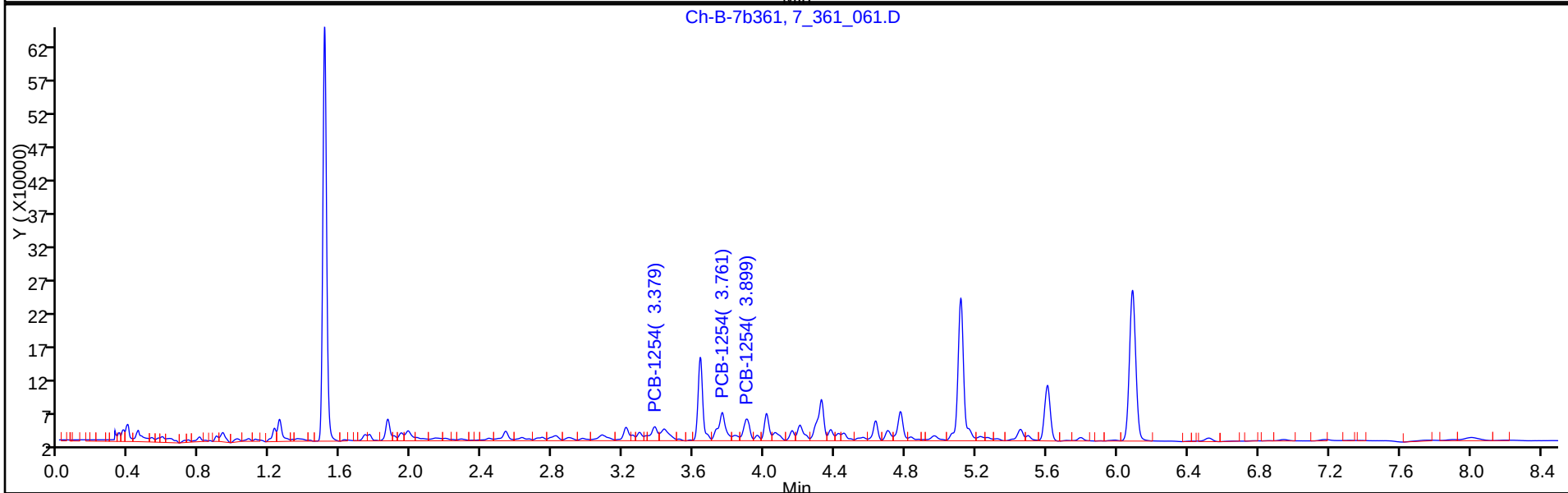
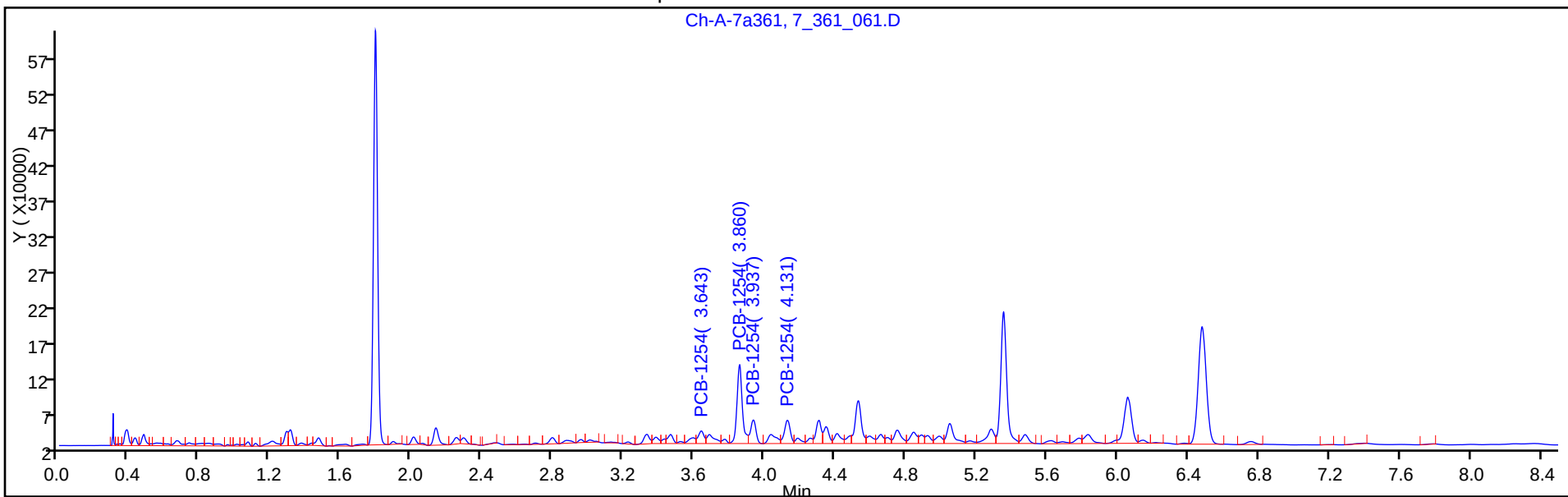
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: TMC-CS-SW Lab Sample ID: 480-74383-4
Matrix: Solid Lab File ID: 7_361_061.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:40
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.28(g) Date Analyzed: 01/20/2015 12:33
Con. Extract Vol.: 10 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: 18.0 GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	110		47-176
877-09-8	Tetrachloro-m-xylene	101		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_061.D
 Lims ID: 480-74383-A-4-A Lab Sample ID: 480-74383-4
 Client ID: TMC-CS-SW
 Sample Type: Client
 Inject. Date: 20-Jan-2015 12:33:54 ALS Bottle#: 0 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:16:00 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:16:00

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	940160	0.0192
2	1.506	1.507	-0.001	930194	0.0202

RPD = 5.04

8 PCB-1254

1	3.643	3.645	-0.003	40357	0.0203
1	3.860	3.863	-0.002	234375	0.1788
1	3.937	3.940	-0.003	71385	0.0301
1	4.131	4.137	-0.006	76180	0.0330

Average of Peak Amounts = 0.0655

2	3.379	3.381	-0.002	53682	0.0353
2	0.000	3.677	-3.677	0	0
2	3.761	3.763	-0.001	126318	0.0523
2	3.899	3.895	0.004	79986	0.0340

Average of Peak Amounts = 0.0405

RPD = 47.18

\$ 12 DCB Decachlorobiphenyl

1	6.481	6.482	-0.001	529952	0.0220
2	6.088	6.088	0.000	572428	0.0221

RPD = 0.38

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_061.D

Injection Date: 20-Jan-2015 12:33:54

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-4-A

Lab Sample ID: 480-74383-4

Worklist Smp#: 12

Client ID: TMC-CS-SW

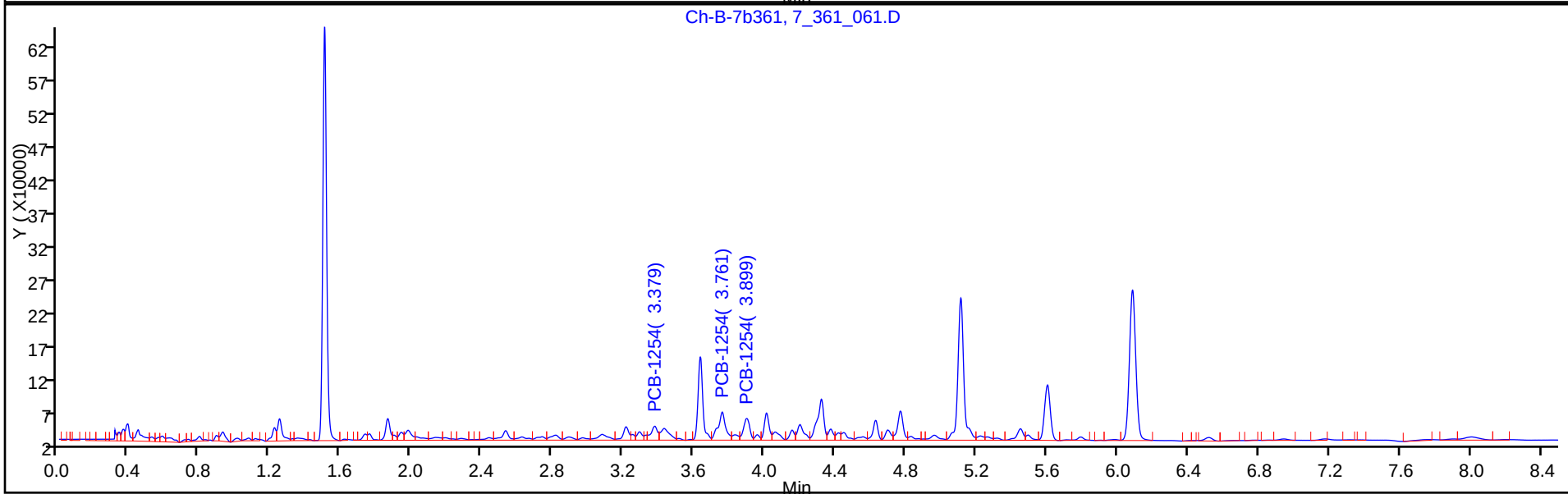
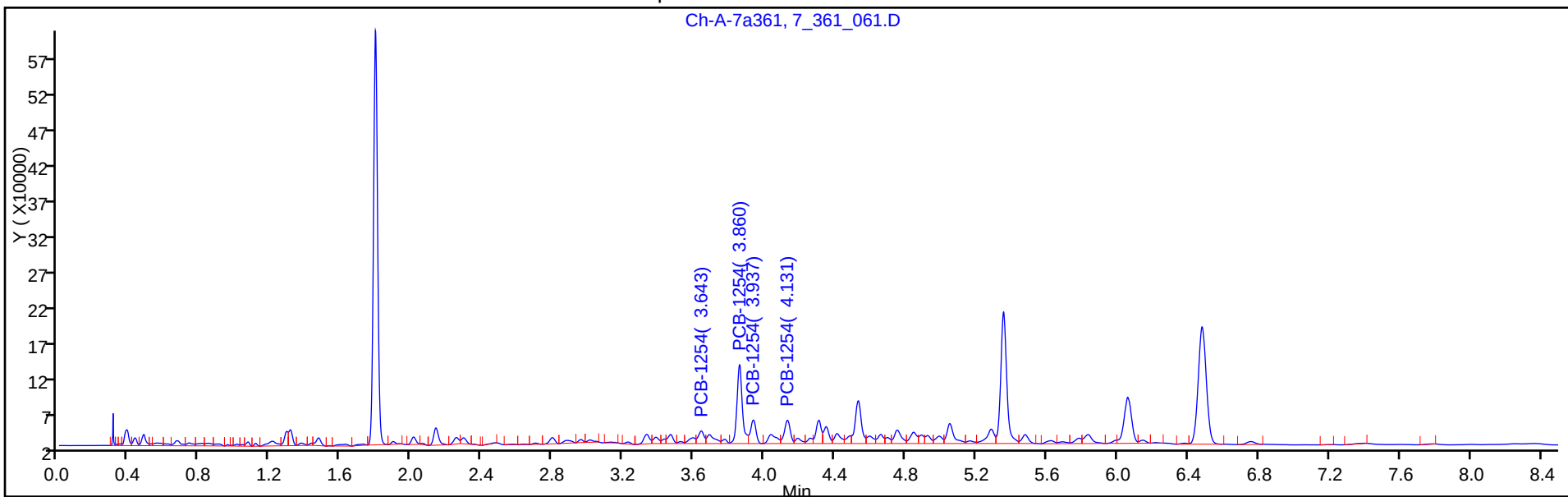
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-CENTER Lab Sample ID: 480-74383-5
 Matrix: Solid Lab File ID: 7_361_062.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:33
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.24(g) Date Analyzed: 01/20/2015 12:49
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
 % Moisture: 20.1 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		280	55
11104-28-2	PCB-1221	ND		280	55
11141-16-5	PCB-1232	ND		280	55
53469-21-9	PCB-1242	ND		280	55
12672-29-6	PCB-1248	ND		280	55
11097-69-1	PCB-1254	ND		280	130
11096-82-5	PCB-1260	ND		280	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	124		47-176
877-09-8	Tetrachloro-m-xylene	104		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_062.D
 Lims ID: 480-74383-A-5-A Lab Sample ID: 480-74383-5
 Client ID: TMC-CS-CENTER
 Sample Type: Client
 Inject. Date: 20-Jan-2015 12:49:53 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:16:49 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:16:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.792	1.794	-0.002	1018066	0.0208	
2	1.503	1.507	-0.004	1020628	0.0222	
RPD = 6.35						

8 PCB-1254

1	3.639	3.645	-0.006	5032	0.002533	
1	3.858	3.863	-0.004	13511	0.0103	
1	3.937	3.940	-0.003	5394	0.002274	
1	4.131	4.137	-0.006	5322	0.002304	
Average of Peak Amounts =					0.004354	
2	3.377	3.381	-0.004	1805	0.001187	
2	0.000	3.677	-3.677	0	0	
2	3.759	3.763	-0.003	5135	0.002124	
2	3.898	3.895	0.003	5136	0.002184	
Average of Peak Amounts =					0.001832	
RPD = 81.56						

LOD = 0.0100

\$ 12 DCB Decachlorobiphenyl

M

1	6.482	6.482	0.000	592333	0.0247	M
2	6.087	6.088	-0.001	641877	0.0248	
RPD = 0.17						

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_062.D

Injection Date: 20-Jan-2015 12:49:53

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-5-A

Lab Sample ID: 480-74383-5

Worklist Smp#: 13

Client ID: TMC-CS-CENTER

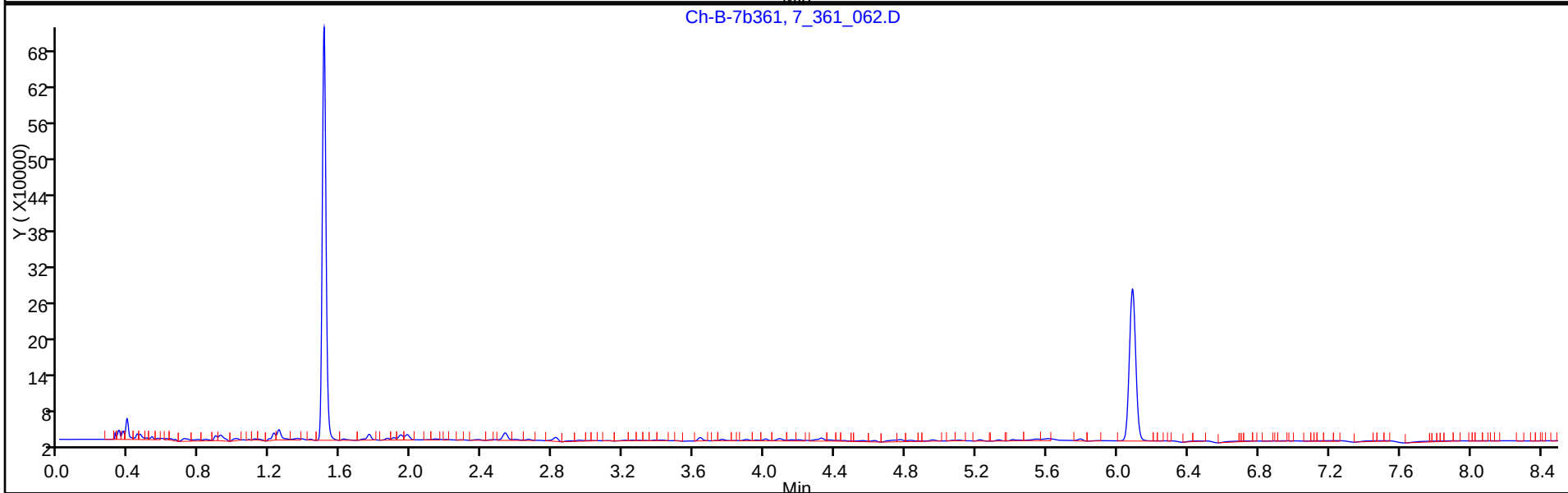
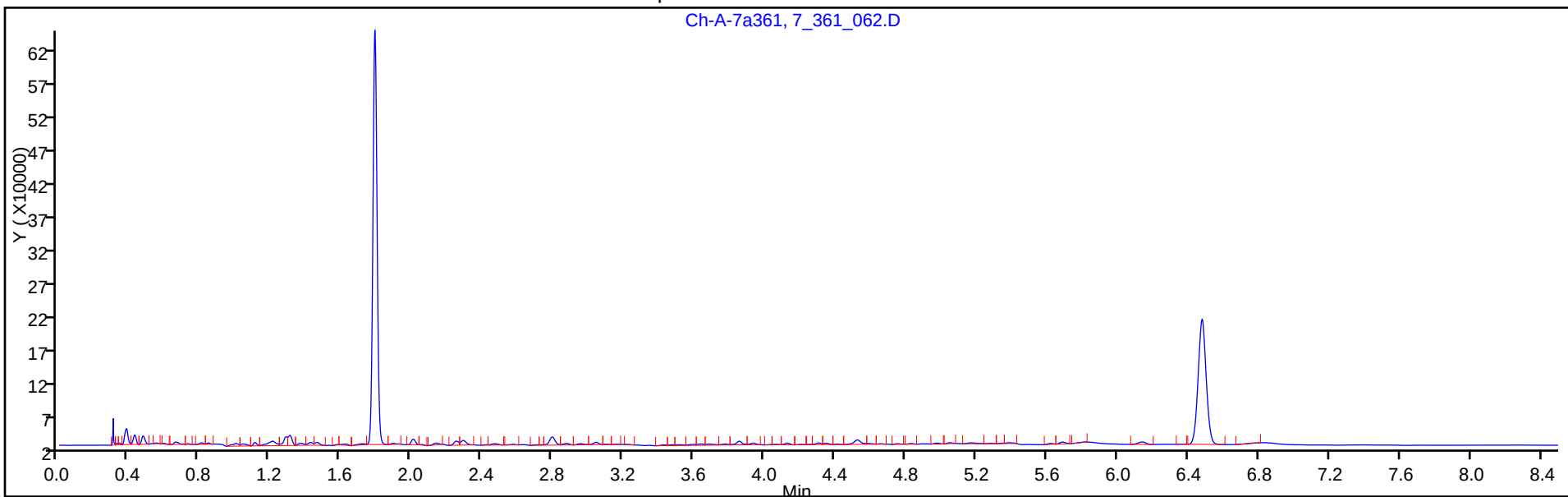
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



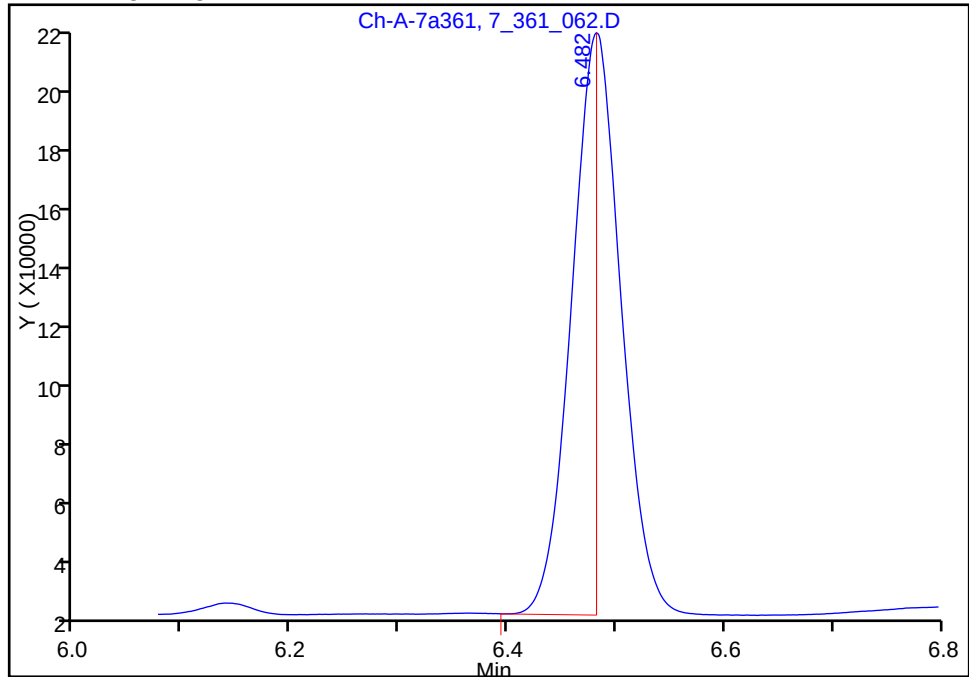
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_062.D		
Injection Date:	20-Jan-2015 12:49:53	Instrument ID:	HP6890-7
Lims ID:	480-74383-A-5-A	Lab Sample ID:	480-74383-5
Client ID:	TMC-CS-CENTER		
Operator ID:	bufchrom	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL
Column:		Detector:	Ch-A-7A136
		Worklist Smp#:	13

\$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

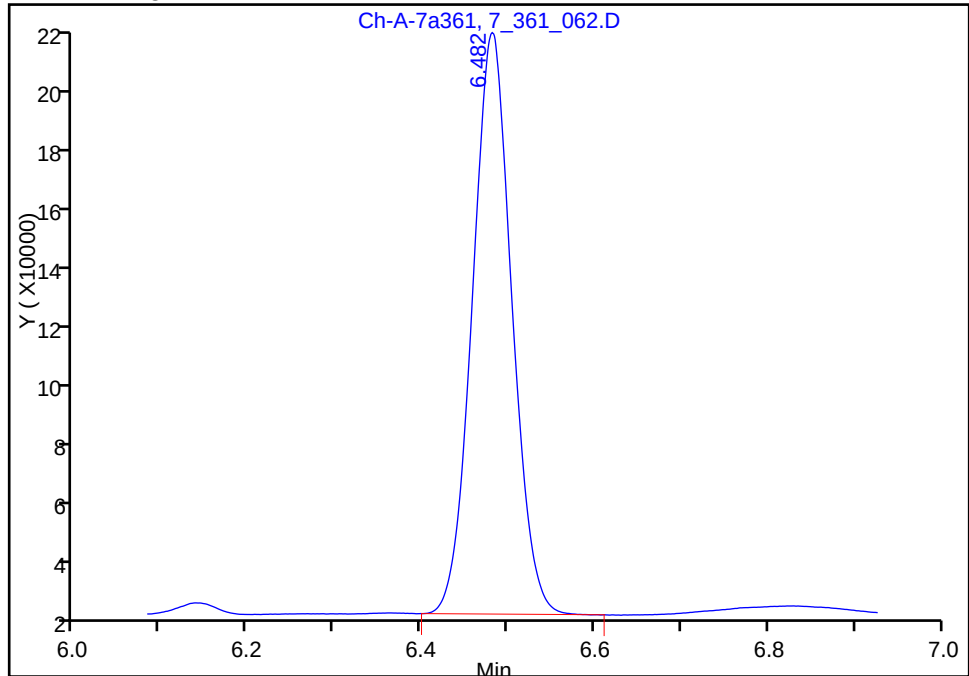
RT: 6.48
Area: 293566
Amount: 0.011694
Amount Units: ng/uL

Processing Integration Results



RT: 6.48
Area: 592333
Amount: 0.024723
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 20-Jan-2015 14:49:37
Audit Action: Manually Integrated
Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: TMC-CS-CENTER Lab Sample ID: 480-74383-5
Matrix: Solid Lab File ID: 7_361_062.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:33
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.24(g) Date Analyzed: 01/20/2015 12:49
Con. Extract Vol.: 10(mL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)
% Moisture: 20.1 GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	124		47-176
877-09-8	Tetrachloro-m-xylene	111		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_062.D
 Lims ID: 480-74383-A-5-A Lab Sample ID: 480-74383-5
 Client ID: TMC-CS-CENTER
 Sample Type: Client
 Inject. Date: 20-Jan-2015 12:49:53 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:16:49 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:16:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.792	1.794	-0.002	1018066	0.0208	
2	1.503	1.507	-0.004	1020628	0.0222	
RPD = 6.35						

8 PCB-1254

1	3.639	3.645	-0.006	5032	0.002533	
1	3.858	3.863	-0.004	13511	0.0103	
1	3.937	3.940	-0.003	5394	0.002274	
1	4.131	4.137	-0.006	5322	0.002304	
Average of Peak Amounts =					0.004354	
2	3.377	3.381	-0.004	1805	0.001187	
2	0.000	3.677	-3.677	0	0	
2	3.759	3.763	-0.003	5135	0.002124	
2	3.898	3.895	0.003	5136	0.002184	
Average of Peak Amounts =					0.001832	
RPD = 81.56						

LOD = 0.0100

\$ 12 DCB Decachlorobiphenyl

M

1	6.482	6.482	0.000	592333	0.0247	M
2	6.087	6.088	-0.001	641877	0.0248	
RPD = 0.17						

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_062.D

Injection Date: 20-Jan-2015 12:49:53

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-5-A

Lab Sample ID: 480-74383-5

Worklist Smp#: 13

Client ID: TMC-CS-CENTER

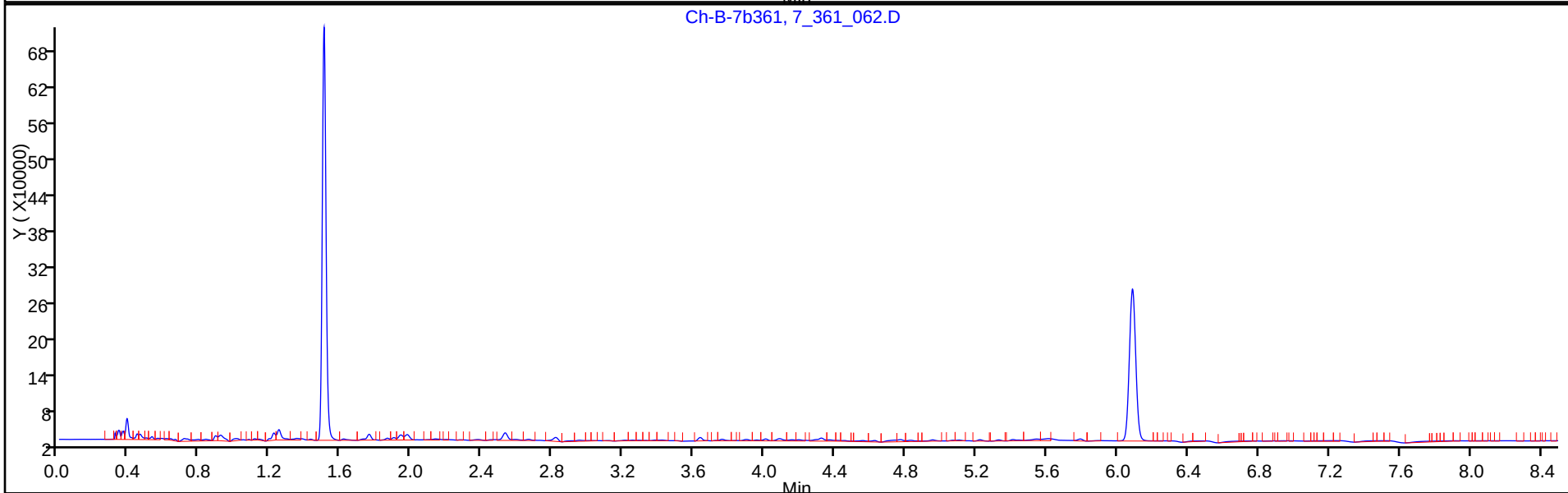
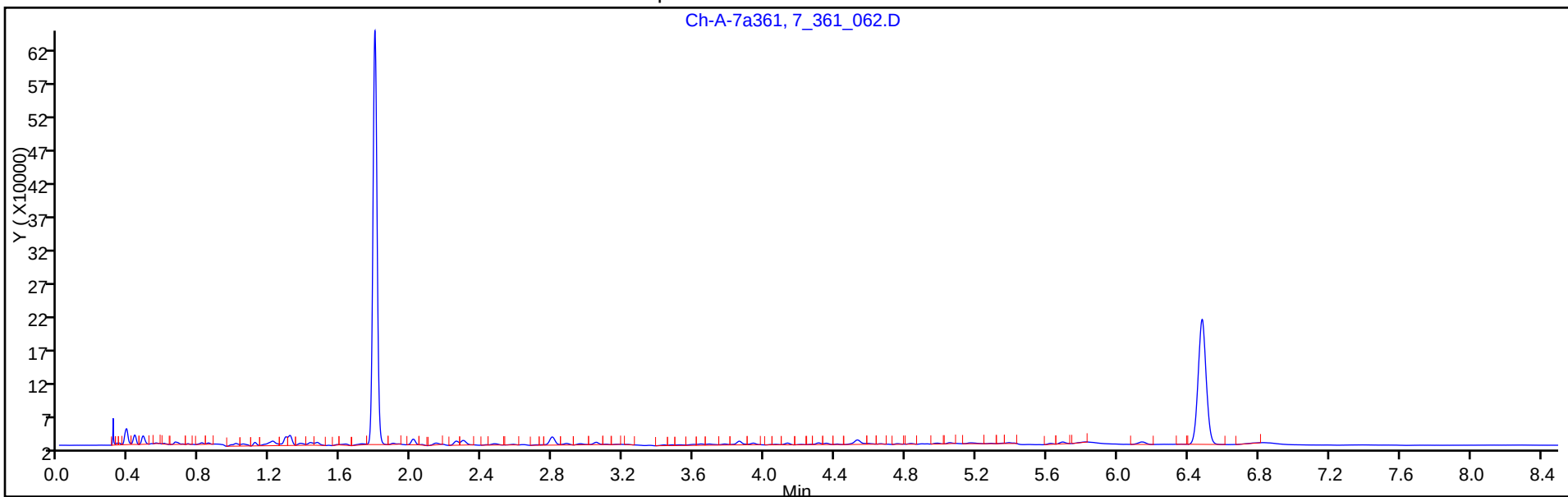
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-CENTER-FR Lab Sample ID: 480-74383-6
 Matrix: Solid Lab File ID: 7_361_063.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:33
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.32(g) Date Analyzed: 01/20/2015 13:05
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
 % Moisture: 23.2 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		280	55
11104-28-2	PCB-1221	ND		280	55
11141-16-5	PCB-1232	ND		280	55
53469-21-9	PCB-1242	ND		280	55
12672-29-6	PCB-1248	ND		280	55
11097-69-1	PCB-1254	ND		280	130
11096-82-5	PCB-1260	ND		280	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	114		47-176
877-09-8	Tetrachloro-m-xylene	99		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_063.D
 Lims ID: 480-74383-A-6-A Lab Sample ID: 480-74383-6
 Client ID: TMC-CS-CENTER-FR
 Sample Type: Client
 Inject. Date: 20-Jan-2015 13:05:38 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:17:55 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:17:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.794	-0.001	972679	0.0199	
2	1.506	1.507	-0.001	961005	0.0209	
RPD = 4.89						

8 PCB-1254

1	3.638	3.645	-0.007	14141	0.007119	
1	3.858	3.863	-0.004	21450	0.0164	
1	3.936	3.940	-0.004	10874	0.004585	
1	4.130	4.137	-0.007	10640	0.004606	
Average of Peak Amounts =					0.008167	
2	3.375	3.381	-0.006	6283	0.004130	
2	0.000	3.677	-3.677	0	0	
2	3.761	3.763	-0.001	15041	0.006223	
2	3.898	3.895	0.003	11811	0.005021	
Average of Peak Amounts =					0.005125	
RPD = 45.78						

LOD = 0.0100

\$ 12 DCB Decachlorobiphenyl

1	6.481	6.482	-0.001	548428	0.0228	
2	6.087	6.088	-0.001	579064	0.0223	
RPD = 2.06						

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_063.D

Injection Date: 20-Jan-2015 13:05:38

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-6-A

Lab Sample ID: 480-74383-6

Worklist Smp#: 14

Client ID: TMC-CS-CENTER-FR

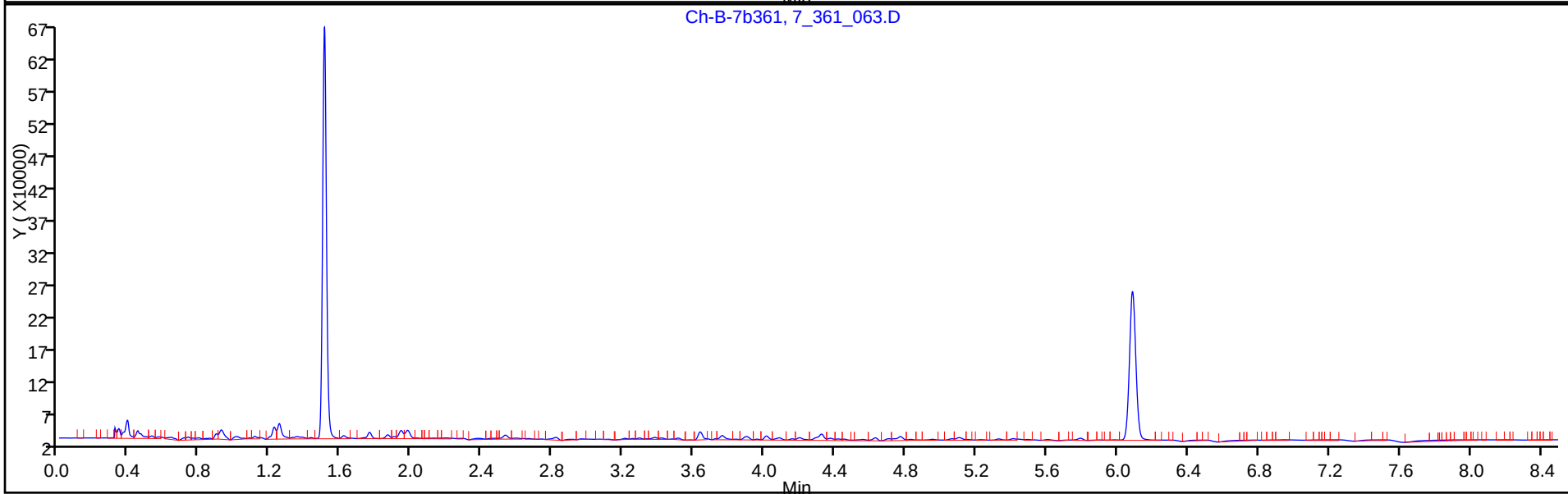
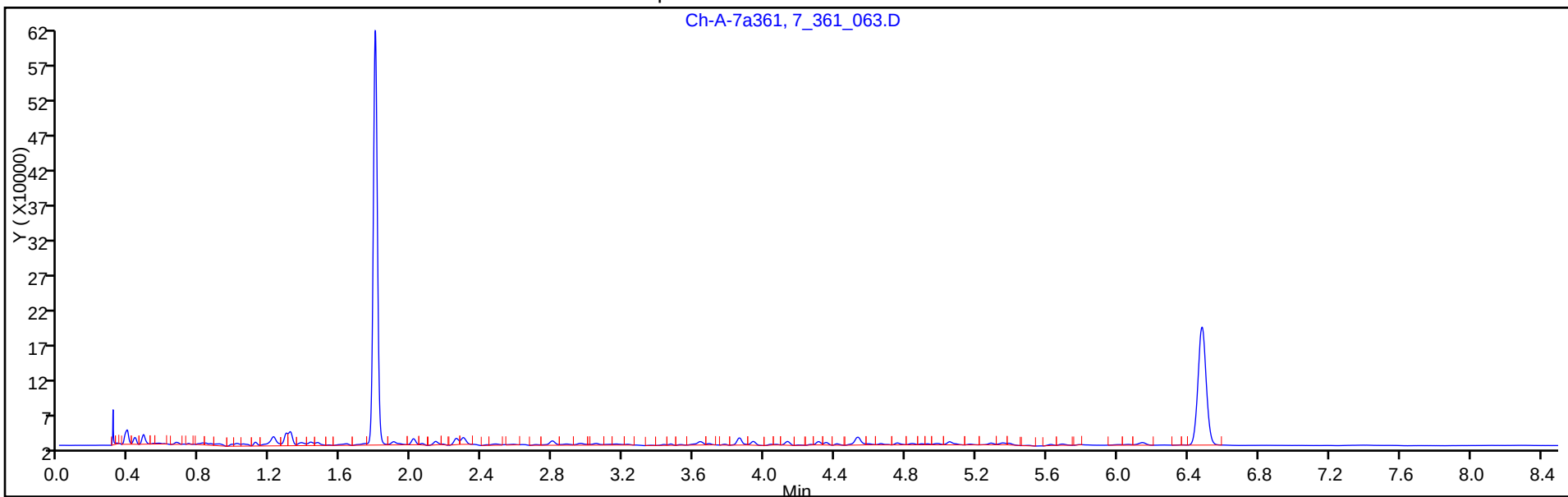
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: TMC-CS-CENTER-FR Lab Sample ID: 480-74383-6
Matrix: Solid Lab File ID: 7_361_063.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:33
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.32(g) Date Analyzed: 01/20/2015 13:05
Con. Extract Vol.: 10(mL) Dilution Factor: 1
Injection Volume: 1(uL) GC Column: ZB-35 ID: 0.53(mm)
% Moisture: 23.2 GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	112		47-176
877-09-8	Tetrachloro-m-xylene	104		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_063.D
 Lims ID: 480-74383-A-6-A Lab Sample ID: 480-74383-6
 Client ID: TMC-CS-CENTER-FR
 Sample Type: Client
 Inject. Date: 20-Jan-2015 13:05:38 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:17:55 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:17:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.794	-0.001	972679	0.0199	
2	1.506	1.507	-0.001	961005	0.0209	
RPD = 4.89						

8 PCB-1254

1	3.638	3.645	-0.007	14141	0.007119	
1	3.858	3.863	-0.004	21450	0.0164	
1	3.936	3.940	-0.004	10874	0.004585	
1	4.130	4.137	-0.007	10640	0.004606	
Average of Peak Amounts =					0.008167	
2	3.375	3.381	-0.006	6283	0.004130	
2	0.000	3.677	-3.677	0	0	
2	3.761	3.763	-0.001	15041	0.006223	
2	3.898	3.895	0.003	11811	0.005021	
Average of Peak Amounts =					0.005125	
RPD = 45.78						

LOD = 0.0100

\$ 12 DCB Decachlorobiphenyl

1	6.481	6.482	-0.001	548428	0.0228	
2	6.087	6.088	-0.001	579064	0.0223	
RPD = 2.06						

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_063.D

Injection Date: 20-Jan-2015 13:05:38

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-6-A

Lab Sample ID: 480-74383-6

Worklist Smp#: 14

Client ID: TMC-CS-CENTER-FR

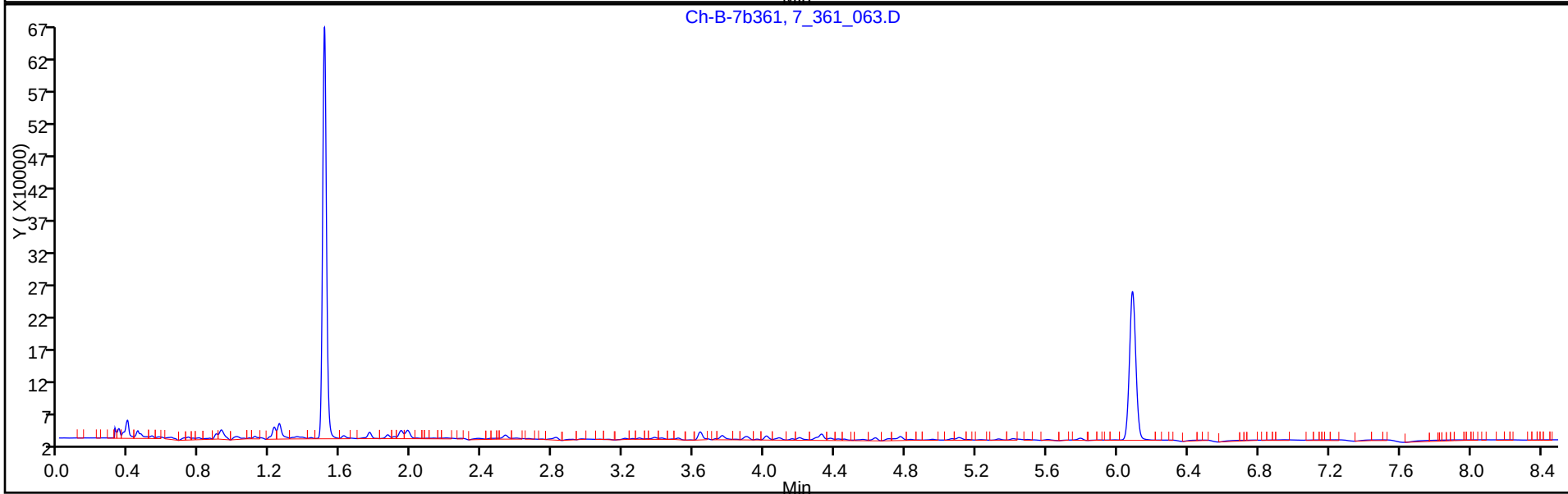
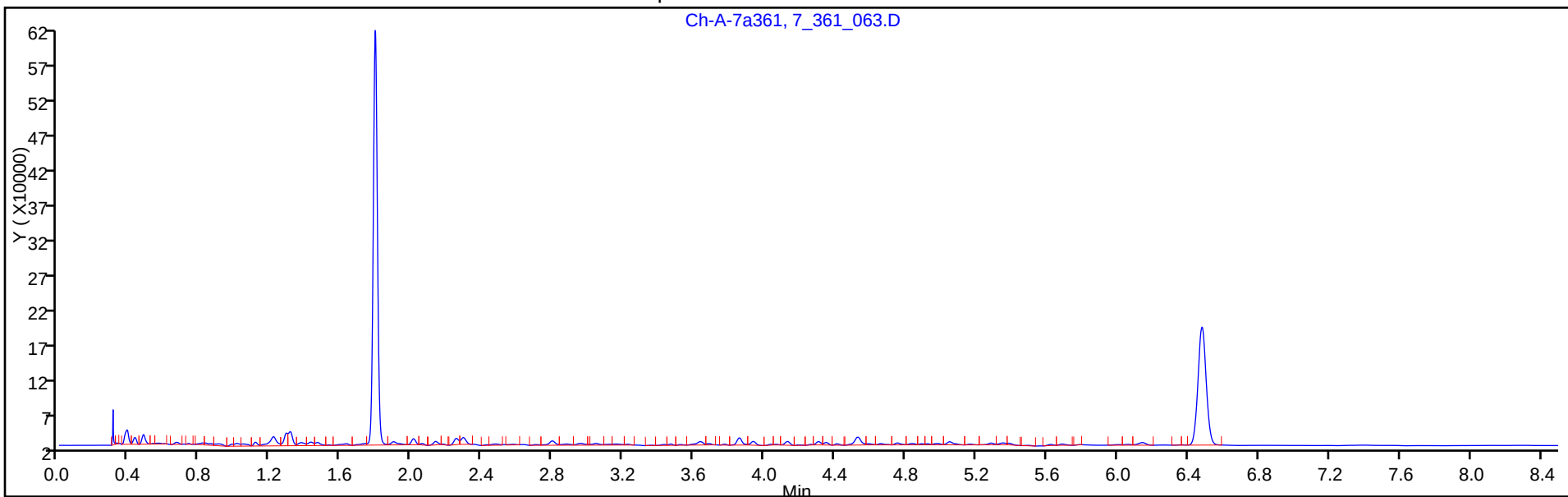
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: EB1-01192015 Lab Sample ID: 480-74383-7
 Matrix: Water Lab File ID: 7_361_069.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:52
 Extraction Method: 3510C Date Extracted: 01/19/2015 17:19
 Sample wt/vol: 261.8(mL) Date Analyzed: 01/20/2015 14:40
 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.: 223637 Units: ug/L

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
877-09-8	Tetrachloro-m-xylene	84		23-127
2051-24-3	DCB Decachlorobiphenyl	58		19-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_069.D
Lims ID: 480-74383-A-7-A Lab Sample ID: 480-74383-7
Client ID: EB1-01192015
Sample Type: Client
Inject. Date: 20-Jan-2015 14:40:46 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 20-Jan-2015 18:21:08 Calib Date: 10-Dec-2014 01:10:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:21:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	825841	0.0169
2	1.506	1.507	-0.001	837232	0.0182

RPD = 7.47

\$ 12 DCB Decachlorobiphenyl

1	6.481	6.482	-0.001	292754	0.0117
2	6.087	6.088	-0.001	308555	0.0119

RPD = 2.10

Reagents:

COPPER_00051 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_069.D

Injection Date: 20-Jan-2015 14:40:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-7-A

Lab Sample ID: 480-74383-7

Worklist Smp#: 20

Client ID: EB1-01192015

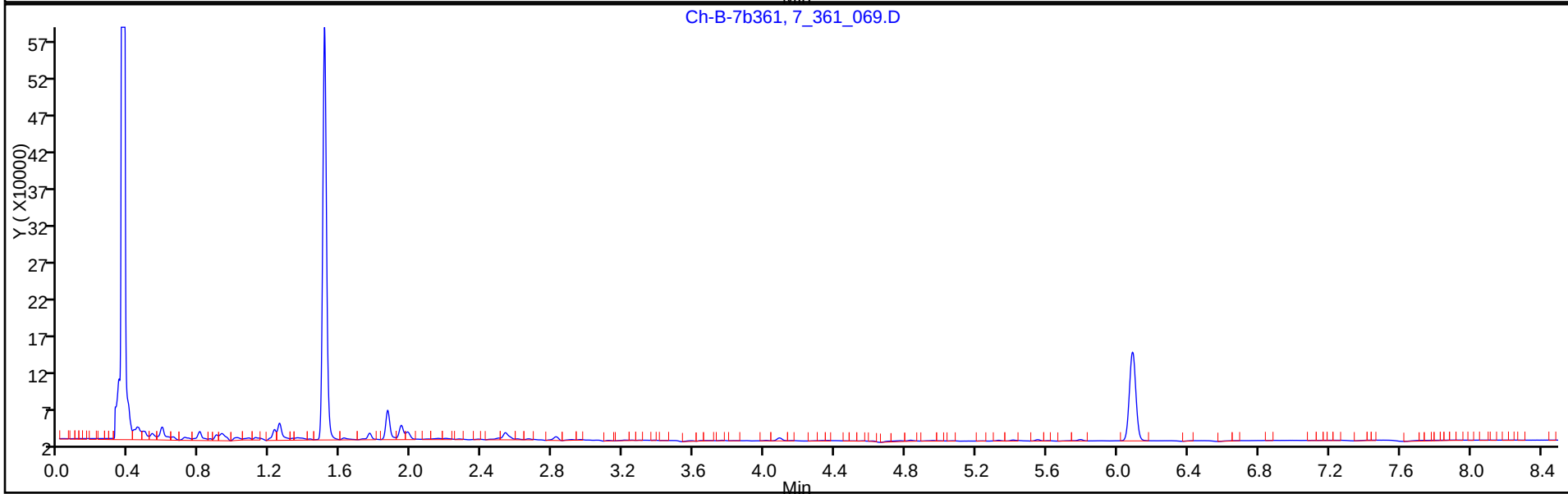
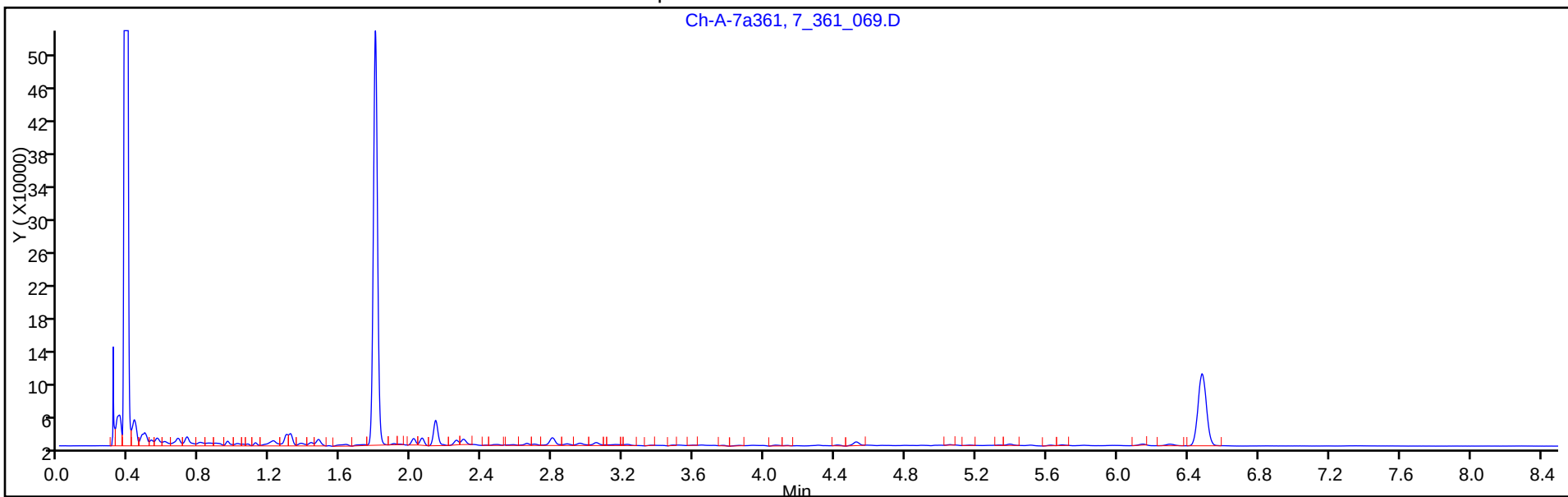
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: EB1-01192015 Lab Sample ID: 480-74383-7
Matrix: Water Lab File ID: 7_361_069.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:52
Extraction Method: 3510C Date Extracted: 01/19/2015 17:19
Sample wt/vol: 261.8 (mL) Date Analyzed: 01/20/2015 14:40
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.: 223637 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
877-09-8	Tetrachloro-m-xylene	91		23-127
2051-24-3	DCB Decachlorobiphenyl	60		19-126

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_069.D
Lims ID: 480-74383-A-7-A Lab Sample ID: 480-74383-7
Client ID: EB1-01192015
Sample Type: Client
Inject. Date: 20-Jan-2015 14:40:46 ALS Bottle#: 0 Worklist Smp#: 20
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 20-Jan-2015 18:21:08 Calib Date: 10-Dec-2014 01:10:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:21:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	825841	0.0169
2	1.506	1.507	-0.001	837232	0.0182

RPD = 7.47

\$ 12 DCB Decachlorobiphenyl

1	6.481	6.482	-0.001	292754	0.0117
2	6.087	6.088	-0.001	308555	0.0119

RPD = 2.10

Reagents:

COPPER_00051 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_069.D

Injection Date: 20-Jan-2015 14:40:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-7-A

Lab Sample ID: 480-74383-7

Worklist Smp#: 20

Client ID: EB1-01192015

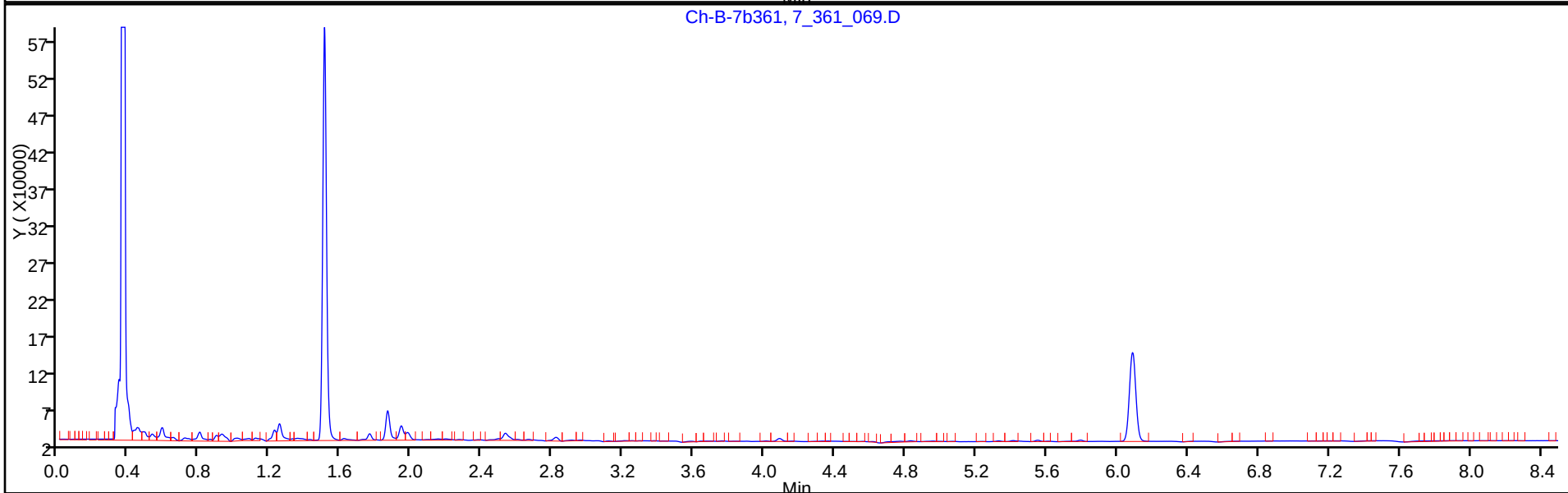
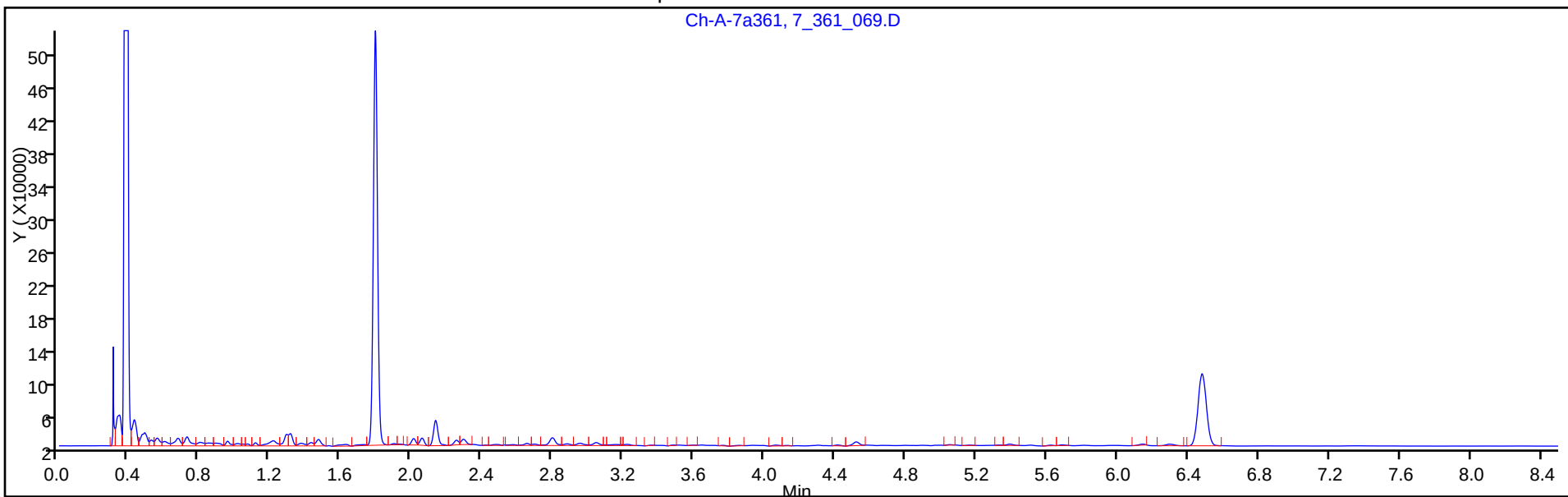
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 19:21 Calibration End Date: 12/09/2014 20:56 Calibration ID: 21457

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/7	7_356_272.D
Level 2	STD2 480-218106/6	7_356_271.D
Level 3	STD3 480-218106/5	7_356_270.D
Level 4	STD4 480-218106/4	7_356_269.D
Level 5	STD5 480-218106/3	7_356_268.D
Level 6	STD6 480-218106/2	7_356_267.D
Level 7	STD7 480-218106/1	7_356_266.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.041	2.042	2.042	2.043	2.043	2.042	2.043				2.011 - 2.071	2.042
PCB-1016 Peak 2	2.695	2.697	2.696	2.696	2.697	2.697	2.698				2.665 - 2.725	2.697
PCB-1016 Peak 3	2.779	2.778	2.779	2.778	2.780	2.780	2.779				2.749 - 2.809	2.779
PCB-1016 Peak 4	2.838	2.839	2.840	2.838	2.839	2.840	2.839				2.808 - 2.868	2.839
PCB-1260 Peak 1	4.663	4.664	4.663	4.663	4.663	4.665	4.665				4.633 - 4.693	4.664
PCB-1260 Peak 2	4.850	4.853	4.850	4.851	4.851	4.851	4.850				4.820 - 4.880	4.851
PCB-1260 Peak 3	5.053	5.055	5.054	5.055	5.055	5.056	5.056				5.023 - 5.083	5.055
PCB-1260 Peak 4	5.290	5.291	5.292	5.292	5.291	5.291	5.290				5.260 - 5.320	5.291
Tetrachloro-m-xylene	1.791	1.792	1.793	1.792	1.793	1.793	1.793				1.761 - 1.821	1.792
DCB Decachlorobiphenyl		6.492	6.489	6.490	6.490	6.489	6.489				6.429 - 6.549	6.490

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 19:21 Calibration End Date: 12/09/2014 20:56 Calibration ID: 21457

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/7	7_356_272.D
Level 2	STD2 480-218106/6	7_356_271.D
Level 3	STD3 480-218106/5	7_356_270.D
Level 4	STD4 480-218106/4	7_356_269.D
Level 5	STD5 480-218106/3	7_356_268.D
Level 6	STD6 480-218106/2	7_356_267.D
Level 7	STD7 480-218106/1	7_356_266.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	981900 656478	838360 614116	723450 582891	713755	Ave		730135.643				19.0		20.0			
PCB-1016 Peak 2	3578650 2899884	3246820 2793906	3035010 2705294	2973440	Ave		3033286.29				9.8		20.0			
PCB-1016 Peak 3	1545100 1096930	1356140 1052336	1221420 1008988	1157735	Ave		1205521.36				16.0		20.0			
PCB-1016 Peak 4	1028350 753542	916880 720078	843660 696679	787230	Ave		820917.000				14.0		20.0			
PCB-1260 Peak 1	1611950 1099856	1412440 1090770	1283200 1021474	1154475	Ave		1239166.36				17.0		20.0			
PCB-1260 Peak 2	1573850 1086194	1387120 1081426	1253470 1006242	1134920	Ave		1217603.14				17.0		20.0			
PCB-1260 Peak 3	3522000 2691958	3075500 2728591	2925770 2587209	2749540	Ave		2897223.93				11.0		20.0			
PCB-1260 Peak 4	1975500 1396184	1741400 1413526	1587400 1377296	1463500	Ave		1564972.21				14.0		20.0			
Tetrachloro-m-xylene	60284000 45844080	53779200 43585560	49761200 41127200	48341200	Ave		48960348.6				13.0		20.0			
DCB Decachlorobiphenyl	26050080	37052800 24419520	33119200 23243620	29632400	Lin	25430.4058	22930048.2							0.9990		0.9900

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 19:21 Calibration End Date: 12/09/2014 20:56 Calibration ID: 21457

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/7	7_356_272.D
Level 2	STD2 480-218106/6	7_356_271.D
Level 3	STD3 480-218106/5	7_356_270.D
Level 4	STD4 480-218106/4	7_356_269.D
Level 5	STD5 480-218106/3	7_356_268.D
Level 6	STD6 480-218106/2	7_356_267.D
Level 7	STD7 480-218106/1	7_356_266.D

ANALYTE	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	Ave	19638 614116	41918 1165781	72345	142751	328239	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	71573 2793906	162341 5410588	303501	594688	1449942	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	30902 1052336	67807 2017977	122142	231547	548465	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	20567 720078	45844 1393358	84366	157446	376771	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	32239 1090770	70622 2042947	128320	230895	549928	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	31477 1081426	69356 2012484	125347	226984	543097	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	70440 2728591	153775 5174417	292577	549908	1345979	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	39510 1413526	87070 2754591	158740	292700	698092	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	30142 1089639	67224 2056360	124403	241706	573051	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Lin	46316 610488	46316 1162181	82798	148162	325626	0.00125 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average
Lin = Linear

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_266.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Dec-2014 19:21:52 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:09 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 06:01:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.791	0.002	2056360	0.0500	0.0420	
2	1.502	1.502	0.000	1749192	0.0500	0.0380	
RPD = 10.07							

6 PCB-1016

1	2.043	2.041	0.001	1165781	2.00	1.60	
1	2.698	2.695	0.003	5410588	2.00	1.78	
1	2.779	2.779	0.000	2017977	2.00	1.67	
1	2.839	2.838	0.001	1393358	2.00	1.70	
Average of Peak Amounts =							1.69
2	2.391	2.390	0.001	1485385	2.00	1.51	a
2	2.494	2.494	0.000	4903392	2.00	1.67	
2	2.698	2.696	0.002	1249233	2.00	1.56	a
2	2.972	2.970	0.002	2194021	2.00	1.56	
Average of Peak Amounts =							1.57
RPD = 6.92							

9 PCB-1260

1	4.665	4.663	0.002	2042947	2.00	1.65	
1	4.850	4.850	0.000	2012484	2.00	1.65	
1	5.056	5.053	0.003	5174417	2.00	1.79	
1	5.290	5.290	0.000	2754591	2.00	1.76	
Average of Peak Amounts =							1.71
2	4.634	4.635	-0.001	2411544	2.00	1.76	
2	4.704	4.705	-0.001	1918868	2.00	1.72	
2	4.775	4.775	0.000	5560830	2.00	1.83	
2	5.105	5.106	-0.001	3401271	2.00	1.82	
Average of Peak Amounts =							1.78
RPD = 4.06							

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_266.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.489	6.489	0.000	1162181	0.0500	0.0496	
2	6.093	6.094	-0.001	1095565	0.0500	0.0423	

RPD = 15.90

Reagents:

AR1660 2.0ng_00005

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_266.D

Injection Date: 09-Dec-2014 19:21:52

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD7

Worklist Smp#: 1

Client ID:

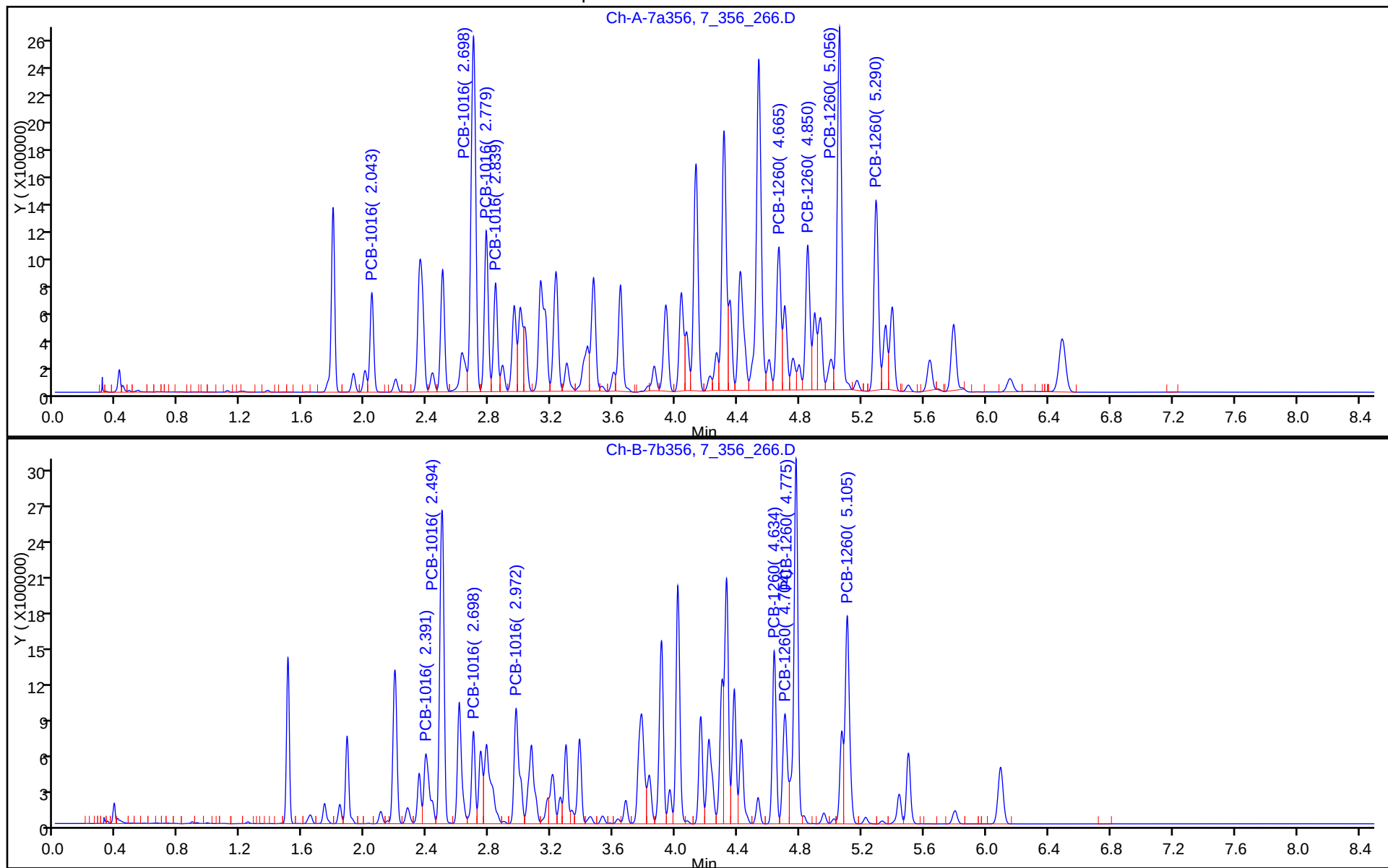
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_267.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Dec-2014 19:37:37 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:11 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 09:12:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.791	0.001	1089639	0.0250	0.0223	
2	1.502	1.502	0.000	984233	0.0250	0.0214	
						RPD = 4.07	

6 PCB-1016

1	2.042	2.041	0.001	614116	1.00	0.8411	
1	2.697	2.695	0.002	2793906	1.00	0.9211	
1	2.780	2.779	0.001	1052336	1.00	0.8729	
1	2.840	2.838	0.002	720078	1.00	0.8772	
Average of Peak Amounts =						0.8781	
2	2.392	2.390	0.002	798936	1.00	0.8133	a
2	2.493	2.494	-0.001	2576901	1.00	0.8784	
2	2.697	2.696	0.001	672503	1.00	0.8393	a
2	2.972	2.970	0.002	1167031	1.00	0.8285	
Average of Peak Amounts =						0.8398	
						RPD = 4.45	

9 PCB-1260

1	4.665	4.663	0.002	1090770	1.00	0.8802	
1	4.851	4.850	0.001	1081426	1.00	0.8882	
1	5.056	5.053	0.003	2728591	1.00	0.9418	
1	5.291	5.290	0.001	1413526	1.00	0.9032	
Average of Peak Amounts =						0.9034	
2	4.636	4.635	0.001	1228024	1.00	0.8947	
2	4.703	4.705	-0.002	982170	1.00	0.8802	
2	4.777	4.775	0.002	2799235	1.00	0.9236	
2	5.105	5.106	-0.001	1700765	1.00	0.9098	
Average of Peak Amounts =						0.9021	
						RPD = 0.14	

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_267.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.489	6.489	0.000	610488	0.0250	0.0255	
2	6.094	6.094	0.000	562364	0.0250	0.0217	

RPD = 16.17

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.50

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_267.D

Injection Date: 09-Dec-2014 19:37:37

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD6

Worklist Smp#: 2

Client ID:

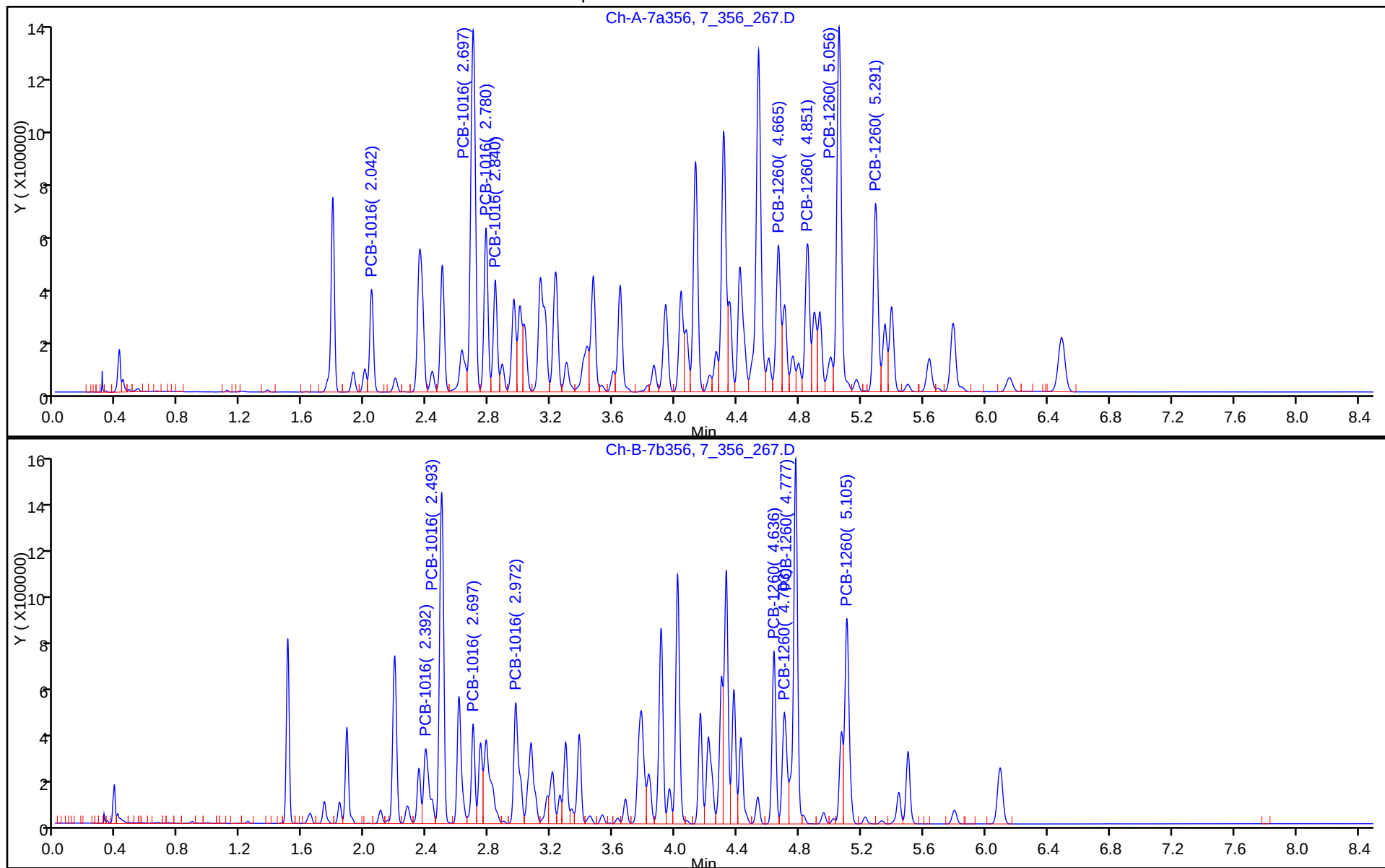
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_268.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 09-Dec-2014 19:53:25 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:13 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: eversd Date: 10-Dec-2014 09:12:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.791	0.001	573051	0.0125	0.0117	
2	1.503	1.502	0.000	533259	0.0125	0.0116	

RPD = 1.09

6 PCB-1016

1	2.043	2.041	0.001	328239	0.5000	0.4496	
1	2.697	2.695	0.002	1449942	0.5000	0.4780	
1	2.780	2.779	0.001	548465	0.5000	0.4550	
1	2.839	2.838	0.001	376771	0.5000	0.4590	

Average of Peak Amounts = 0.4604

2	2.391	2.390	0.001	435339	0.5000	0.4431	a
2	2.494	2.494	0.000	1360402	0.5000	0.4637	
2	2.698	2.696	0.002	358590	0.5000	0.4475	a
2	2.972	2.970	0.002	622042	0.5000	0.4416	a

Average of Peak Amounts = 0.4490

RPD = 2.50

9 PCB-1260

1	4.663	4.663	0.000	549928	0.5000	0.4438	
1	4.851	4.850	0.001	543097	0.5000	0.4460	
1	5.055	5.053	0.002	1345979	0.5000	0.4646	
1	5.291	5.290	0.001	698092	0.5000	0.4461	

Average of Peak Amounts = 0.4501

2	4.637	4.635	0.002	631548	0.5000	0.4601	
2	4.703	4.705	-0.002	516220	0.5000	0.4626	
2	4.775	4.775	0.000	1409549	0.5000	0.4651	
2	5.105	5.106	-0.001	865522	0.5000	0.4630	

Average of Peak Amounts = 0.4627

RPD = 2.76

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_268.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	6.490	6.489	0.001	325626	0.0125	0.0131	
2	6.093	6.094	-0.002	295906	0.0125	0.0114	

RPD = 13.67

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_268.D

Injection Date: 09-Dec-2014 19:53:25

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD5

Worklist Smp#: 3

Client ID:

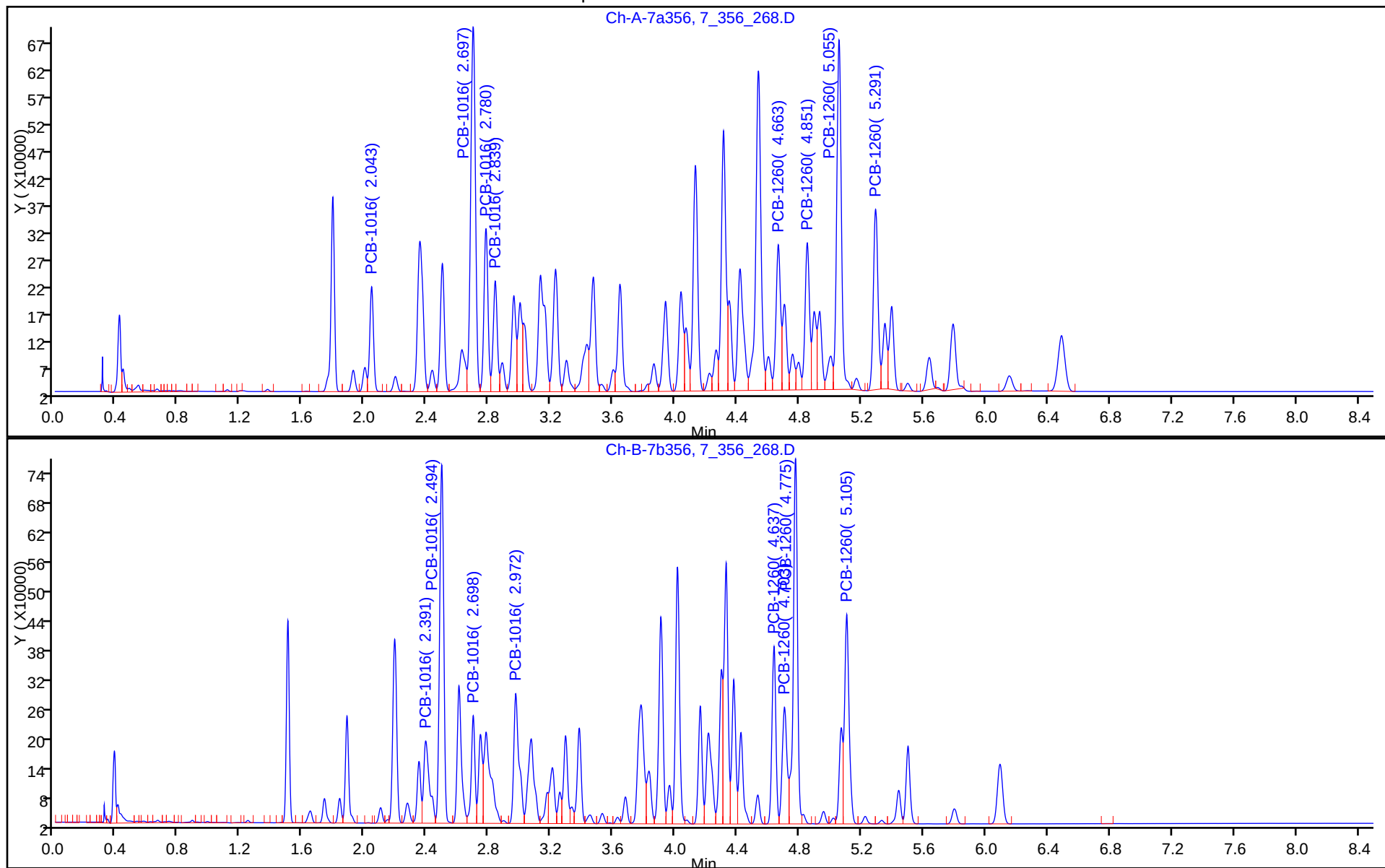
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_269.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Dec-2014 20:09:15 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:16 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 09:10:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.792	1.791	0.001	241706	0.005000	0.004937	
2	1.503	1.502	0.000	229868	0.005000	0.004990	
							RPD = 1.08

6 PCB-1016

1	2.043	2.041	0.001	142751	0.2000	0.1955	
1	2.696	2.695	0.001	594688	0.2000	0.1961	
1	2.778	2.779	-0.001	231547	0.2000	0.1921	
1	2.838	2.838	0.000	157446	0.2000	0.1918	
Average of Peak Amounts =							0.1939
2	2.390	2.390	0.000	194679	0.2000	0.1982	a
2	2.494	2.494	0.000	575964	0.2000	0.1963	
2	2.697	2.696	0.001	158025	0.2000	0.1972	a
2	2.971	2.970	0.001	273761	0.2000	0.1943	
Average of Peak Amounts =							0.1965
							RPD = 1.36

9 PCB-1260

1	4.663	4.663	0.000	230895	0.2000	0.1863	
1	4.851	4.850	0.001	226984	0.2000	0.1864	
1	5.055	5.053	0.002	549908	0.2000	0.1898	
1	5.292	5.290	0.002	292700	0.2000	0.1870	
Average of Peak Amounts =							0.1874
2	4.635	4.635	0.000	266178	0.2000	0.1939	
2	4.703	4.705	-0.002	212672	0.2000	0.1906	
2	4.775	4.775	0.000	588628	0.2000	0.1942	
2	5.105	5.106	-0.001	363895	0.2000	0.1947	
Average of Peak Amounts =							0.1934
							RPD = 3.13

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_269.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.490	6.489	0.001	148162	0.005000	0.005352	
2	6.094	6.094	0.000	128160	0.005000	0.004945	

RPD = 7.92

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.10

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_269.D

Injection Date: 09-Dec-2014 20:09:15

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD4

Worklist Smp#: 4

Client ID:

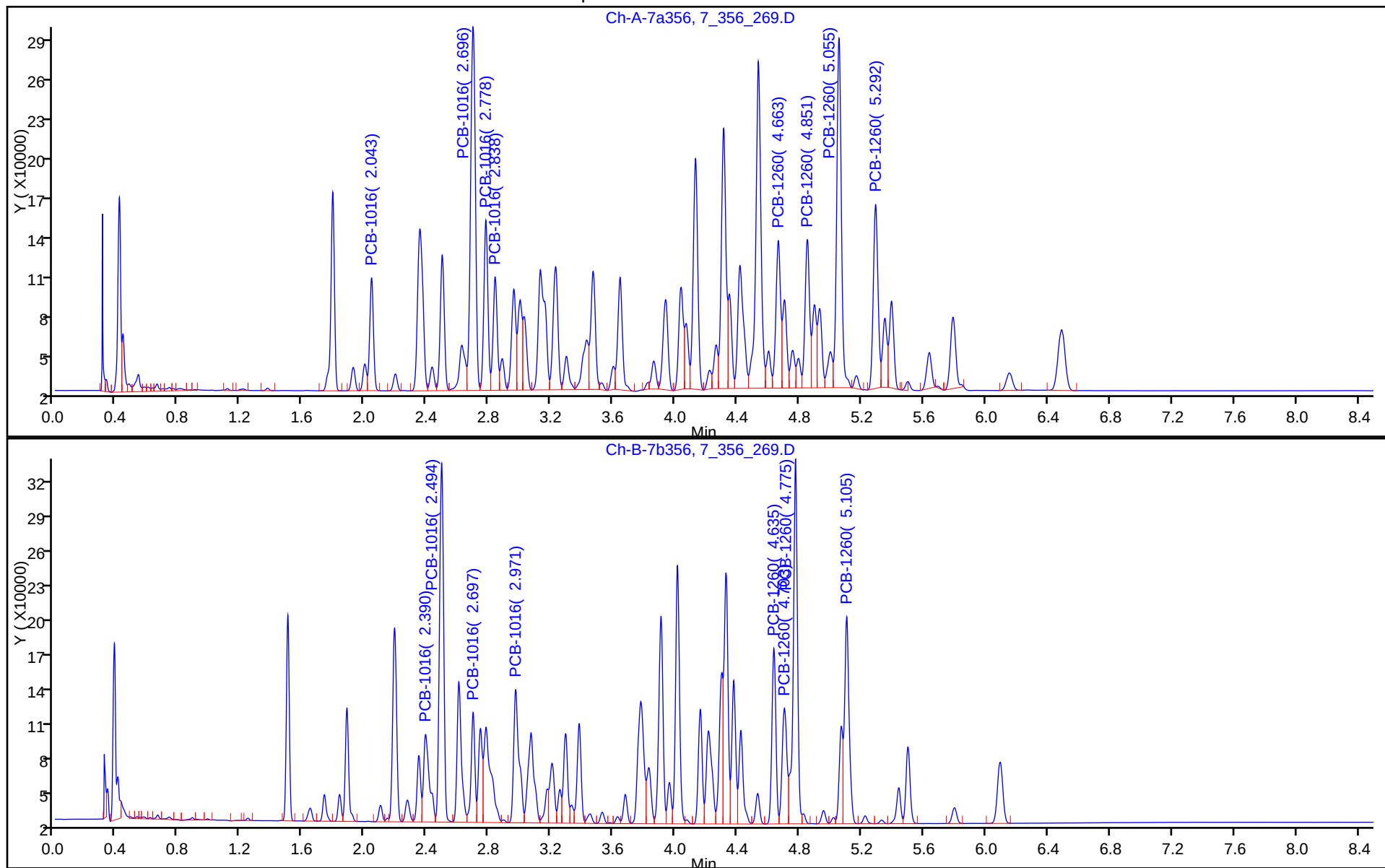
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_270.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Dec-2014 20:25:15 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:18 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 09:06:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M
 1 1.793 1.791 0.001 124403 0.002500 0.002541 M
 2 1.503 1.502 0.000 119244 0.002500 0.002589 M
 RPD = 1.87

6 PCB-1016

1	2.042	2.041	0.001	72345	0.1000	0.0991	
1	2.696	2.695	0.001	303501	0.1000	0.1001	
1	2.779	2.779	0.000	122142	0.1000	0.1013	
1	2.840	2.838	0.002	84366	0.1000	0.1028	
Average of Peak Amounts =						0.1008	
2	2.390	2.390	0.000	103201	0.1000	0.1051	a
2	2.493	2.494	-0.001	295818	0.1000	0.1008	
2	2.697	2.696	0.001	83732	0.1000	0.1045	
2	2.971	2.970	0.001	145831	0.1000	0.1035	
Average of Peak Amounts =						0.1035	
						RPD = 2.61	

9 PCB-1260

1	4.663	4.663	0.000	128320	0.1000	0.1036	
1	4.850	4.850	0.000	125347	0.1000	0.1029	
1	5.054	5.053	0.001	292577	0.1000	0.1010	
1	5.292	5.290	0.002	158740	0.1000	0.1014	
Average of Peak Amounts =						0.1022	
2	4.635	4.635	0.000	139536	0.1000	0.1017	
2	4.703	4.705	-0.003	114146	0.1000	0.1023	
2	4.774	4.775	-0.001	301763	0.1000	0.0996	
2	5.104	5.106	-0.002	187426	0.1000	0.1003	
Average of Peak Amounts =						0.1010	
						RPD = 1.26	

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_270.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.489	6.489	0.000	82798	0.002500	0.002502	
2	6.093	6.094	-0.001	67990	0.002500	0.002623	

RPD = 4.74

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.05

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_270.D

Injection Date: 09-Dec-2014 20:25:15

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 5

Client ID:

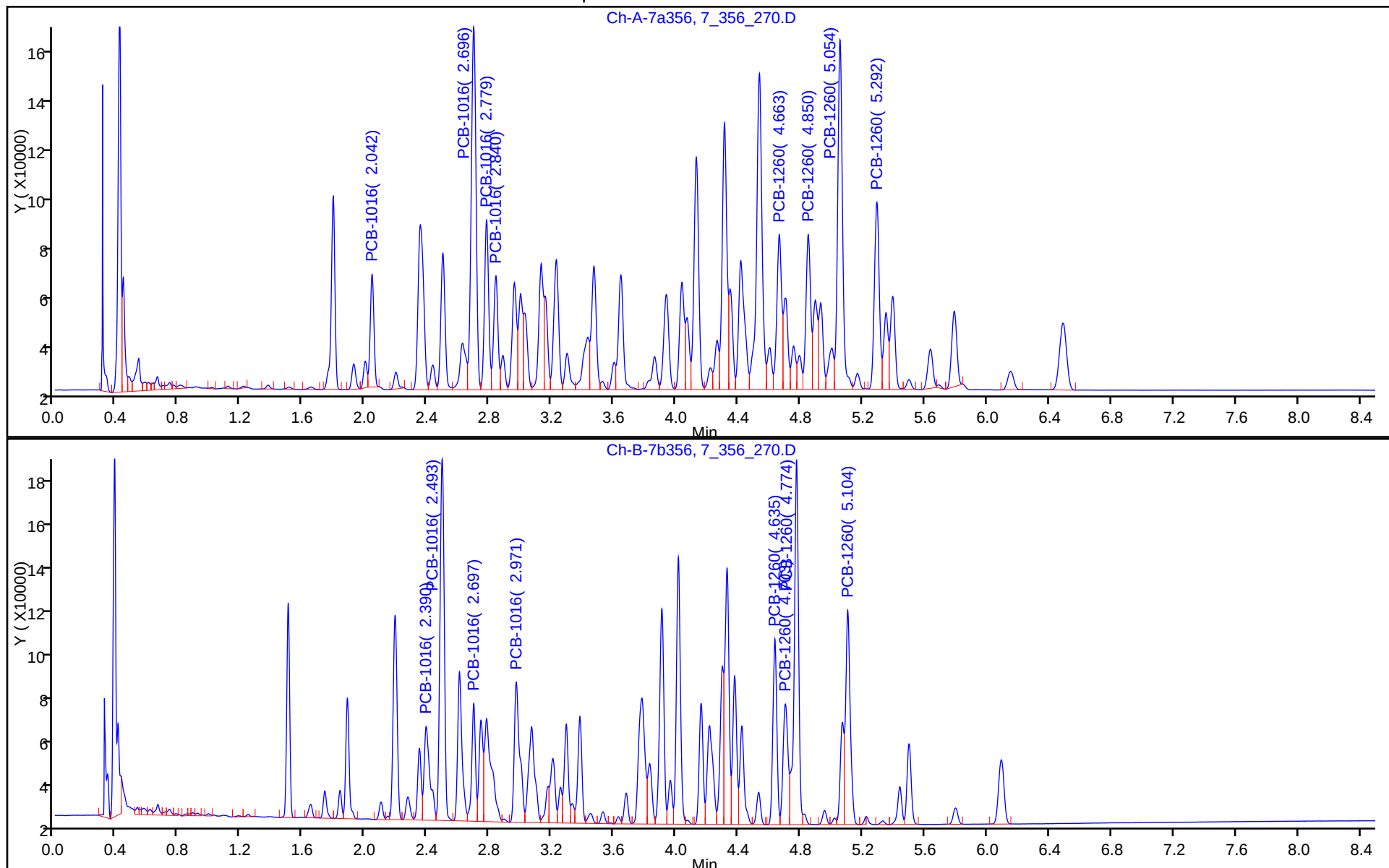
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



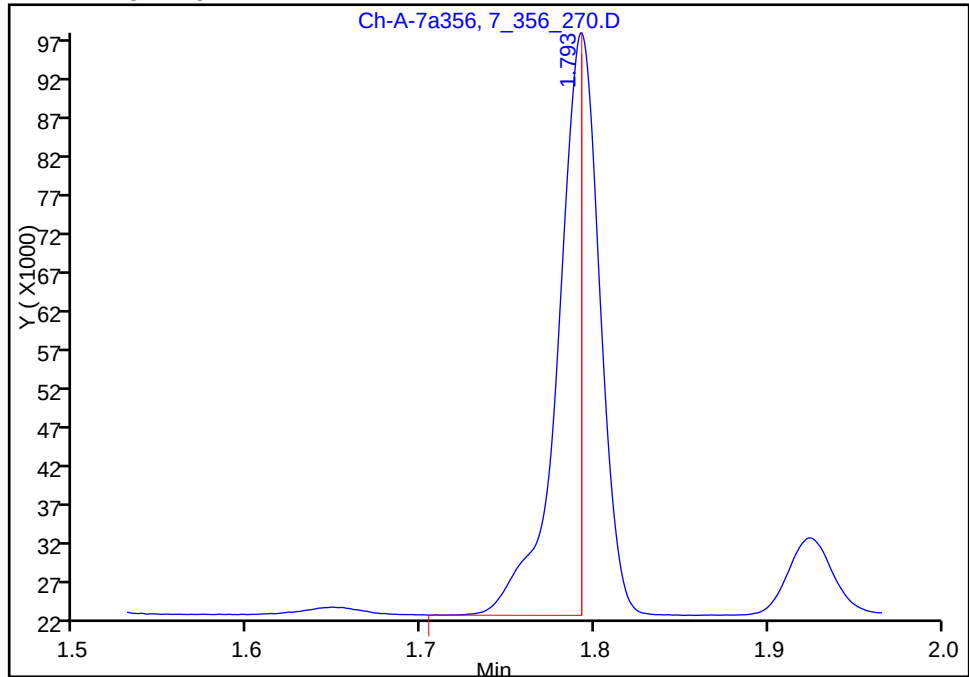
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_270.D		
Injection Date:	09-Dec-2014 20:25:15	Instrument ID:	HP6890-7
Lims ID:	STD3		
Client ID:			
Operator ID:	buftchrom	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL
Column:		Detector:	Ch-A-7A136
		Worklist Smp#:	5

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

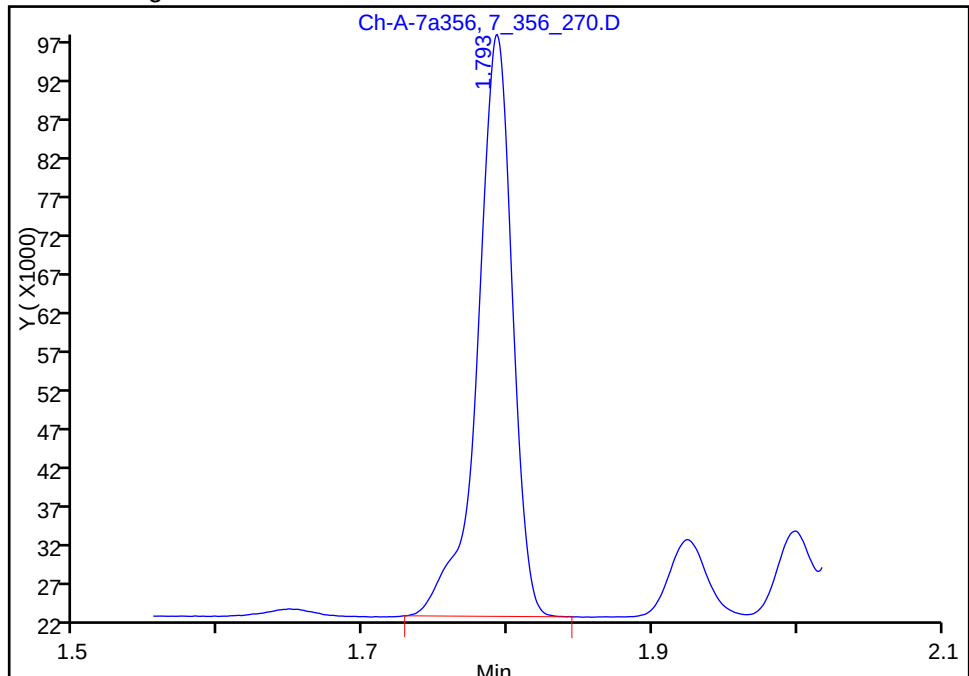
RT: 1.79
Response: 70164
Amount: 0.001490

Processing Integration Results



RT: 1.79
Response: 124403
Amount: 0.002541

Manual Integration Results



Reviewer: eversd, 10-Dec-2014 09:13:48
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_271.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Dec-2014 20:41:02 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:20 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 06:02:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.792	1.791	0.001	67224	0.001250	0.001373	
2	1.502	1.502	0.000	66139	0.001250	0.001436	
RPD = 4.48							

6 PCB-1016

1	2.042	2.041	0.001	41918	0.0500	0.0574	
1	2.697	2.695	0.002	162341	0.0500	0.0535	M
1	2.778	2.779	-0.001	67807	0.0500	0.0562	M
1	2.839	2.838	0.001	45844	0.0500	0.0558	M
Average of Peak Amounts =						0.0558	
2	2.389	2.390	-0.001	57657	0.0500	0.0587	a
2	2.493	2.494	-0.001	162422	0.0500	0.0554	
2	2.696	2.696	0.000	46106	0.0500	0.0575	a
2	2.972	2.970	0.002	82228	0.0500	0.0584	
Average of Peak Amounts =						0.0575	
RPD = 3.07							

9 PCB-1260

1	4.664	4.663	0.001	70622	0.0500	0.0570	M
1	4.853	4.850	0.002	69356	0.0500	0.0570	M
1	5.055	5.053	0.002	153775	0.0500	0.0531	M
1	5.291	5.290	0.001	87070	0.0500	0.0556	M
Average of Peak Amounts =						0.0557	
2	4.637	4.635	0.002	75844	0.0500	0.0553	
2	4.705	4.705	0.000	62383	0.0500	0.0559	
2	4.775	4.775	0.000	161331	0.0500	0.0532	
2	5.105	5.106	-0.001	102140	0.0500	0.0546	
Average of Peak Amounts =						0.0548	
RPD = 1.64							

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_271.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1 6.492 6.489 0.003 46316 0.001250 0.000911

2 6.093 6.094 -0.001 36216 0.001250 0.001397

RPD = 42.16

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.03

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_271.D

Injection Date: 09-Dec-2014 20:41:02

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 6

Client ID:

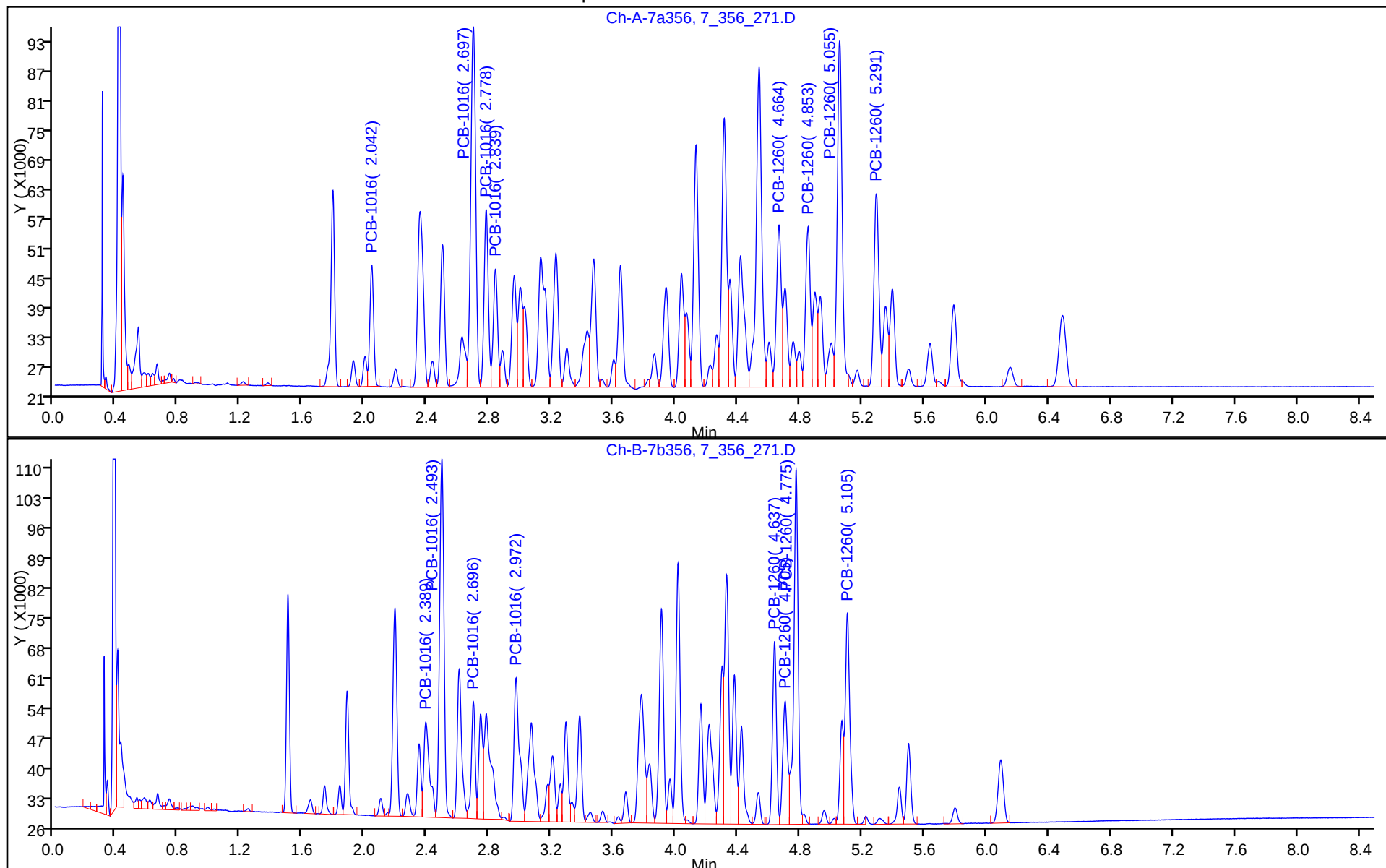
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_271.D

Injection Date: 09-Dec-2014 20:41:02

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

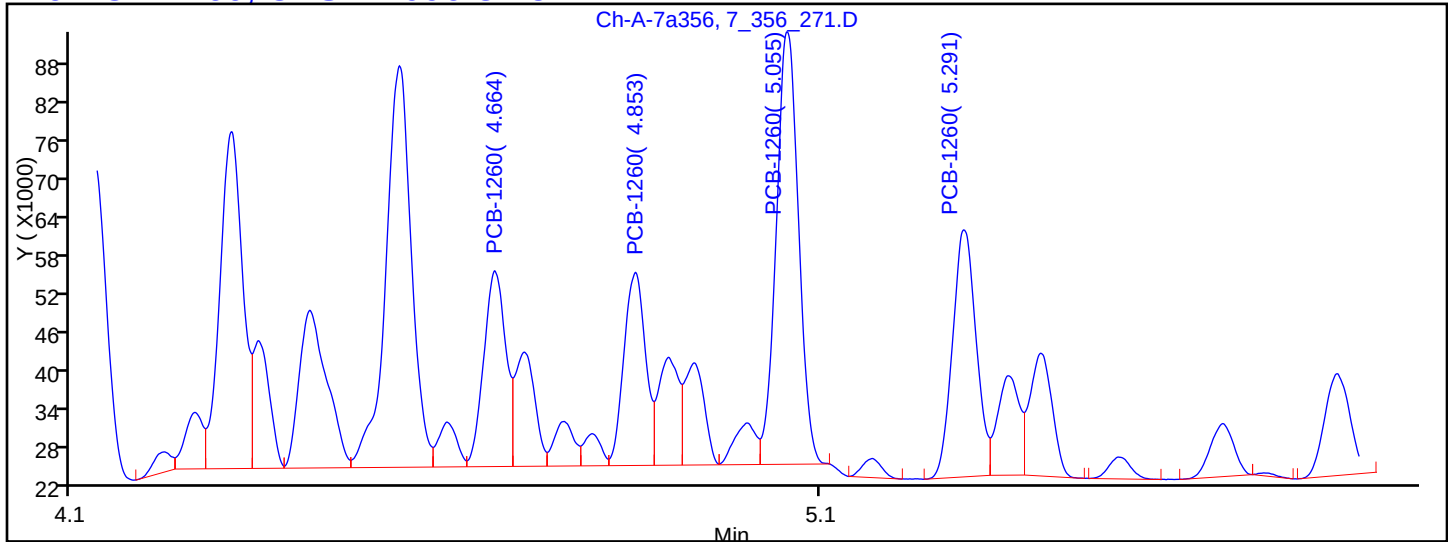
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

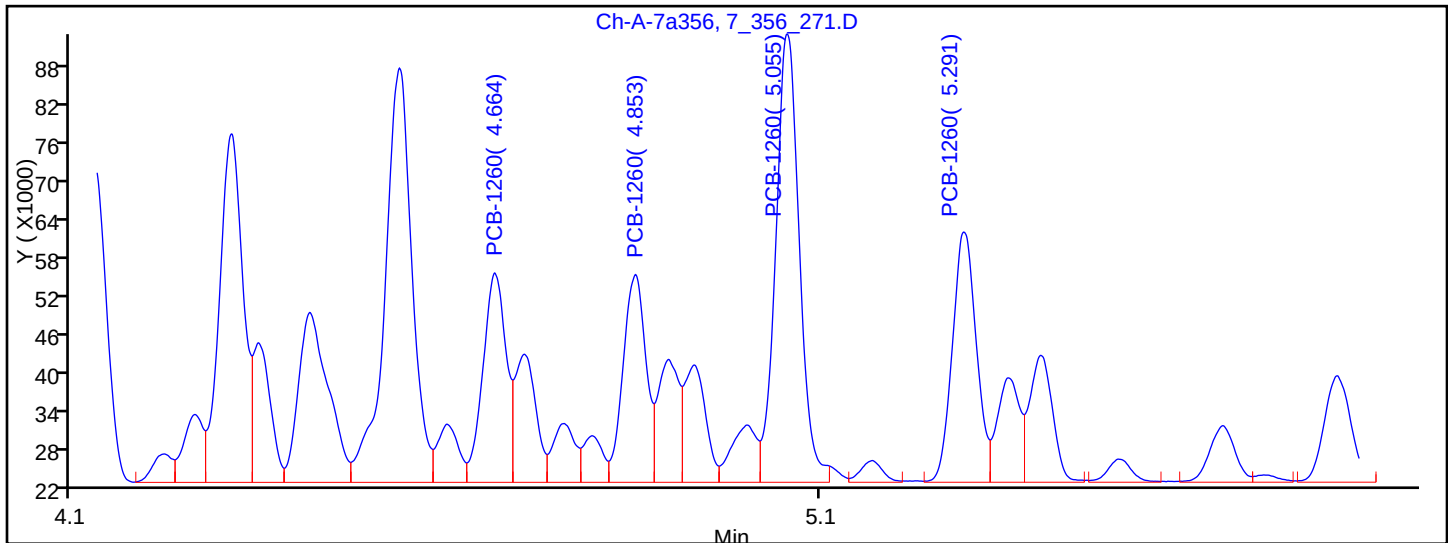
Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.664	Response = 62728	M
RT = 4.853	Response = 60957	M
RT = 5.055	Response = 139927	M
RT = 5.291	Response = 84666	M



Manual Integration Results

RT = 4.664	Response = 70622	M
RT = 4.853	Response = 69356	M
RT = 5.055	Response = 153775	M
RT = 5.291	Response = 87070	M

Reviewer: eversd, 10-Dec-2014 06:02:17

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_272.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Dec-2014 20:56:52 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:23 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 06:02:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.791	1.791	0.000	30142	0.000500	0.000616	a
2	1.502	1.502	0.000	29417	0.000500	0.000639	a
RPD = 3.67							

6 PCB-1016

1	2.041	2.041	0.000	19638	0.0200	0.0269	M
1	2.695	2.695	0.000	71573	0.0200	0.0236	M
1	2.779	2.779	0.000	30902	0.0200	0.0256	M
1	2.838	2.838	0.000	20567	0.0200	0.0251	M
Average of Peak Amounts =							0.0253
2	2.390	2.390	0.000	26116	0.0200	0.0266	a
2	2.494	2.494	0.000	73989	0.0200	0.0252	
2	2.696	2.696	0.000	20906	0.0200	0.0261	a
2	2.970	2.970	0.000	37618	0.0200	0.0267	
Average of Peak Amounts =							0.0261
RPD = 3.32							

9 PCB-1260

1	4.663	4.663	0.000	32239	0.0200	0.0260	
1	4.850	4.850	0.000	31477	0.0200	0.0259	
1	5.053	5.053	0.000	70440	0.0200	0.0243	
1	5.290	5.290	0.000	39510	0.0200	0.0252	
Average of Peak Amounts =							0.0254
2	4.635	4.635	0.000	33348	0.0200	0.0243	
2	4.705	4.705	0.000	27682	0.0200	0.0248	
2	4.775	4.775	0.000	72568	0.0200	0.0239	
2	5.106	5.106	0.000	44323	0.0200	0.0237	
Average of Peak Amounts =							0.0242
RPD = 4.71							

\$ 12 DCB Decachlorobiphenyl

1	6.489						
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ND ND(<0)
Page 126 of 356

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

AR1660 2.0ng_00005

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_272.D

Injection Date: 09-Dec-2014 20:56:52

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 7

Client ID:

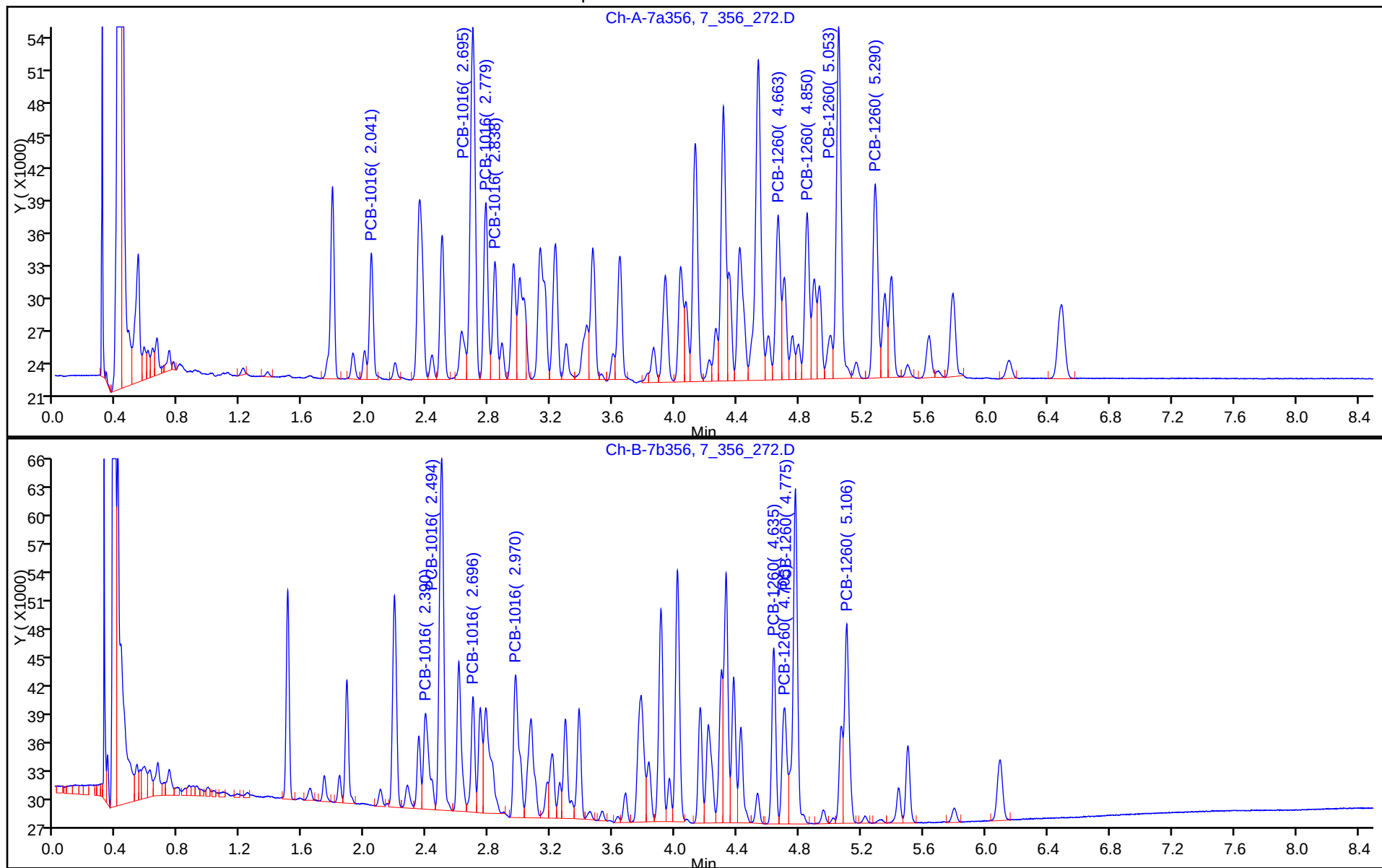
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53(mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 19:21 Calibration End Date: 12/09/2014 20:56 Calibration ID: 21458

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/7	7_356_272.D
Level 2	STD2 480-218106/6	7_356_271.D
Level 3	STD3 480-218106/5	7_356_270.D
Level 4	STD4 480-218106/4	7_356_269.D
Level 5	STD5 480-218106/3	7_356_268.D
Level 6	STD6 480-218106/2	7_356_267.D
Level 7	STD7 480-218106/1	7_356_266.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.390	2.389	2.390	2.390	2.391	2.392	2.391				2.360 - 2.420	2.390
PCB-1016 Peak 2	2.494	2.493	2.493	2.494	2.494	2.493	2.494				2.464 - 2.524	2.494
PCB-1016 Peak 3	2.696	2.696	2.697	2.697	2.698	2.697	2.698				2.666 - 2.726	2.697
PCB-1016 Peak 4	2.970	2.972	2.971	2.971	2.972	2.972	2.972				2.940 - 3.000	2.971
PCB-1260 Peak 1	4.635	4.637	4.635	4.635	4.637	4.636	4.634				4.605 - 4.665	4.636
PCB-1260 Peak 2	4.705	4.705	4.703	4.703	4.703	4.703	4.704				4.675 - 4.735	4.704
PCB-1260 Peak 3	4.775	4.775	4.774	4.775	4.775	4.777	4.775				4.745 - 4.805	4.775
PCB-1260 Peak 4	5.106	5.105	5.104	5.105	5.105	5.105	5.105				5.076 - 5.136	5.105
Tetrachloro-m-xylene	1.502	1.502	1.503	1.503	1.503	1.502	1.502				1.472 - 1.532	1.502
DCB Decachlorobiphenyl		6.093	6.093	6.094	6.093	6.094	6.093				6.034 - 6.154	6.093

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 19:21 Calibration End Date: 12/09/2014 20:56 Calibration ID: 21458

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/7	7_356_272.D
Level 2	STD2 480-218106/6	7_356_271.D
Level 3	STD3 480-218106/5	7_356_270.D
Level 4	STD4 480-218106/4	7_356_269.D
Level 5	STD5 480-218106/3	7_356_268.D
Level 6	STD6 480-218106/2	7_356_267.D
Level 7	STD7 480-218106/1	7_356_266.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 5	LVL 2 LVL 6	LVL 3 LVL 7	LVL 4		B	M1	M2								
PCB-1016 Peak 1	1305800 870678	1153140 798936	1032010 742692	973395	Ave		982378.786				20.0		20.0			
PCB-1016 Peak 2	3699450 2720804	3248440 2576901	2958180 2451696	2879820	Ave		2933613.00				15.0		20.0			
PCB-1016 Peak 3	1045300 717180	922120 672503	837320 624617	790125	Ave		801309.214				18.0		20.0			
PCB-1016 Peak 4	1880900 1244084	1644560 1167031	1458310 1097011	1368805	Ave		1408671.50				20.0		20.0			
PCB-1260 Peak 1	1667400 1263096	1516880 1228024	1395360 1205772	1330890	Ave		1372488.86				12.0		20.0			
PCB-1260 Peak 2	1384100 1032440	1247660 982170	1141460 959434	1063360	Ave		1115803.43				14.0		20.0			
PCB-1260 Peak 3	3628400 2819098	3226620 2799235	3017630 2780415	2943140	Ave		3030648.29				10.0		20.0			
PCB-1260 Peak 4	2216150 1731044	2042800 1700765	1874260 1700636	1819475	Ave		1869304.21				10.0		20.0			
Tetrachloro-m-xylene	58834000 42660720	52911200 39369320	47697600 34983840	45973600	Ave		46061468.6				18.0		20.0			
DCB Decachlorobiphenyl		28972800 23672480	27196000 22494560	25632000	Ave		25917591.4				14.0		20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 19:21 Calibration End Date: 12/09/2014 20:56 Calibration ID: 21458

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/7	7_356_272.D
Level 2	STD2 480-218106/6	7_356_271.D
Level 3	STD3 480-218106/5	7_356_270.D
Level 4	STD4 480-218106/4	7_356_269.D
Level 5	STD5 480-218106/3	7_356_268.D
Level 6	STD6 480-218106/2	7_356_267.D
Level 7	STD7 480-218106/1	7_356_266.D

ANALYTE	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	Ave	26116 798936	57657 1485385	103201	194679	435339	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	73989 2576901	162422 4903392	295818	575964	1360402	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	20906 672503	46106 1249233	83732	158025	358590	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	37618 1167031	82228 2194021	145831	273761	622042	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	33348 1228024	75844 2411544	139536	266178	631548	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	27682 982170	62383 1918868	114146	212672	516220	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	72568 2799235	161331 5560830	301763	588628	1409549	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	44323 1700765	102140 3401271	187426	363895	865522	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Ave	29417 984233	66139 1749192	119244	229868	533259	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Ave	36216 562364	1095565	67990	128160	295906	0.00125 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_266.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 09-Dec-2014 19:21:52 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:09 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: eversd Date: 10-Dec-2014 06:01:48

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.791	0.002	2056360	0.0500	0.0420	
2	1.502	1.502	0.000	1749192	0.0500	0.0380	
						RPD = 10.07	

6 PCB-1016

1	2.043	2.041	0.001	1165781	2.00	1.60	
1	2.698	2.695	0.003	5410588	2.00	1.78	
1	2.779	2.779	0.000	2017977	2.00	1.67	
1	2.839	2.838	0.001	1393358	2.00	1.70	
Average of Peak Amounts =						1.69	
2	2.391	2.390	0.001	1485385	2.00	1.51	a
2	2.494	2.494	0.000	4903392	2.00	1.67	
2	2.698	2.696	0.002	1249233	2.00	1.56	a
2	2.972	2.970	0.002	2194021	2.00	1.56	
Average of Peak Amounts =						1.57	
						RPD = 6.92	

9 PCB-1260

1	4.665	4.663	0.002	2042947	2.00	1.65	
1	4.850	4.850	0.000	2012484	2.00	1.65	
1	5.056	5.053	0.003	5174417	2.00	1.79	
1	5.290	5.290	0.000	2754591	2.00	1.76	
Average of Peak Amounts =						1.71	
2	4.634	4.635	-0.001	2411544	2.00	1.76	
2	4.704	4.705	-0.001	1918868	2.00	1.72	
2	4.775	4.775	0.000	5560830	2.00	1.83	
2	5.105	5.106	-0.001	3401271	2.00	1.82	
Average of Peak Amounts =						1.78	
						RPD = 4.06	

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_266.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.489	6.489	0.000	1162181	0.0500	0.0496	
2	6.093	6.094	-0.001	1095565	0.0500	0.0423	

RPD = 15.90

Reagents:

AR1660 2.0ng_00005

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_266.D

Injection Date: 09-Dec-2014 19:21:52

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD7

Worklist Smp#: 1

Client ID:

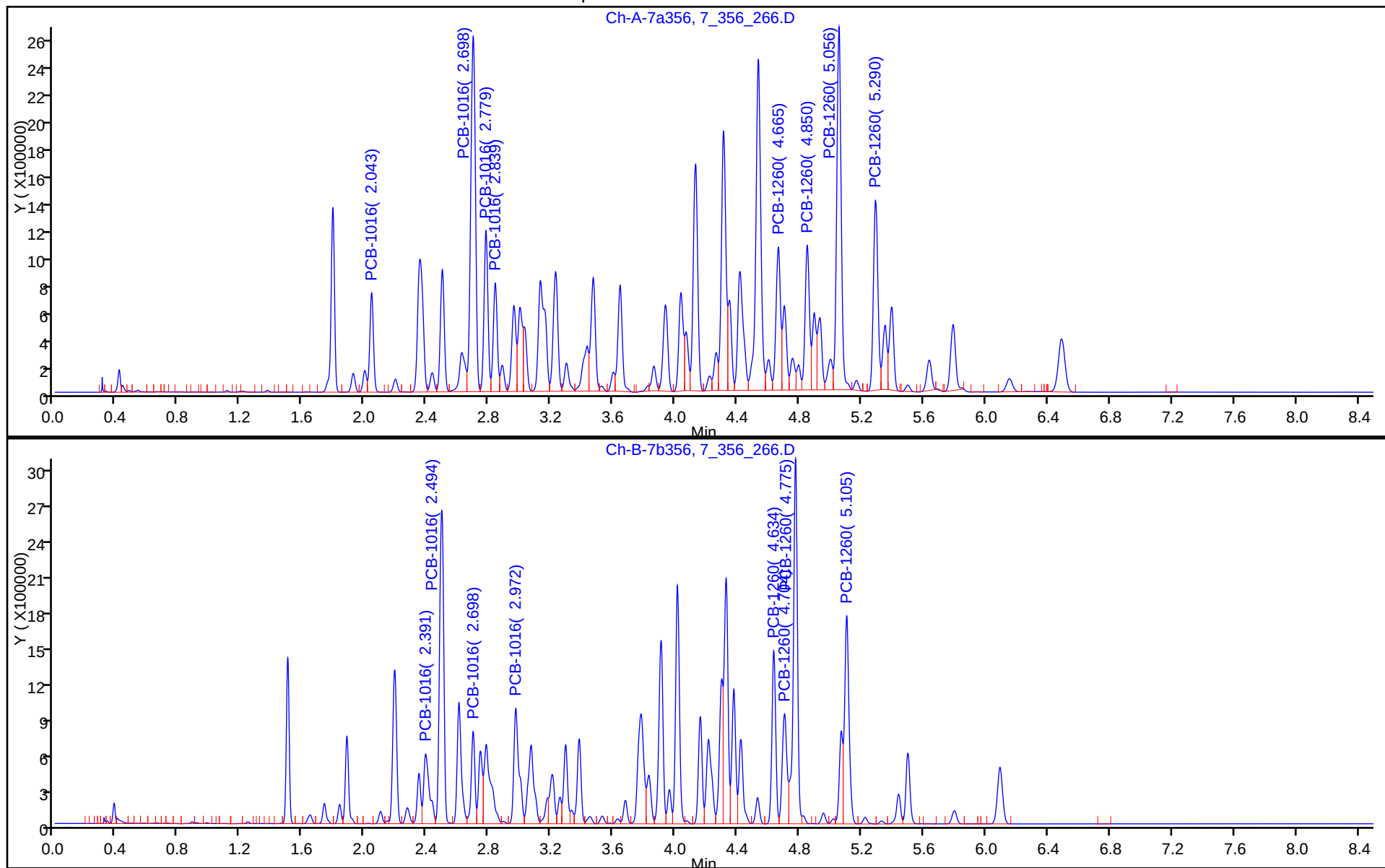
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_267.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 09-Dec-2014 19:37:37 ALS Bottle#: 0 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:11 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 09:12:34

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.791	0.001	1089639	0.0250	0.0223	
2	1.502	1.502	0.000	984233	0.0250	0.0214	
						RPD = 4.07	

6 PCB-1016

1	2.042	2.041	0.001	614116	1.00	0.8411	
1	2.697	2.695	0.002	2793906	1.00	0.9211	
1	2.780	2.779	0.001	1052336	1.00	0.8729	
1	2.840	2.838	0.002	720078	1.00	0.8772	
Average of Peak Amounts =						0.8781	
2	2.392	2.390	0.002	798936	1.00	0.8133	a
2	2.493	2.494	-0.001	2576901	1.00	0.8784	
2	2.697	2.696	0.001	672503	1.00	0.8393	a
2	2.972	2.970	0.002	1167031	1.00	0.8285	
Average of Peak Amounts =						0.8398	
						RPD = 4.45	

9 PCB-1260

1	4.665	4.663	0.002	1090770	1.00	0.8802	
1	4.851	4.850	0.001	1081426	1.00	0.8882	
1	5.056	5.053	0.003	2728591	1.00	0.9418	
1	5.291	5.290	0.001	1413526	1.00	0.9032	
Average of Peak Amounts =						0.9034	
2	4.636	4.635	0.001	1228024	1.00	0.8947	
2	4.703	4.705	-0.002	982170	1.00	0.8802	
2	4.777	4.775	0.002	2799235	1.00	0.9236	
2	5.105	5.106	-0.001	1700765	1.00	0.9098	
Average of Peak Amounts =						0.9021	
						RPD = 0.14	

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_267.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.489	6.489	0.000	610488	0.0250	0.0255	
2	6.094	6.094	0.000	562364	0.0250	0.0217	

RPD = 16.17

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.50

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_267.D

Injection Date: 09-Dec-2014 19:37:37

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD6

Worklist Smp#: 2

Client ID:

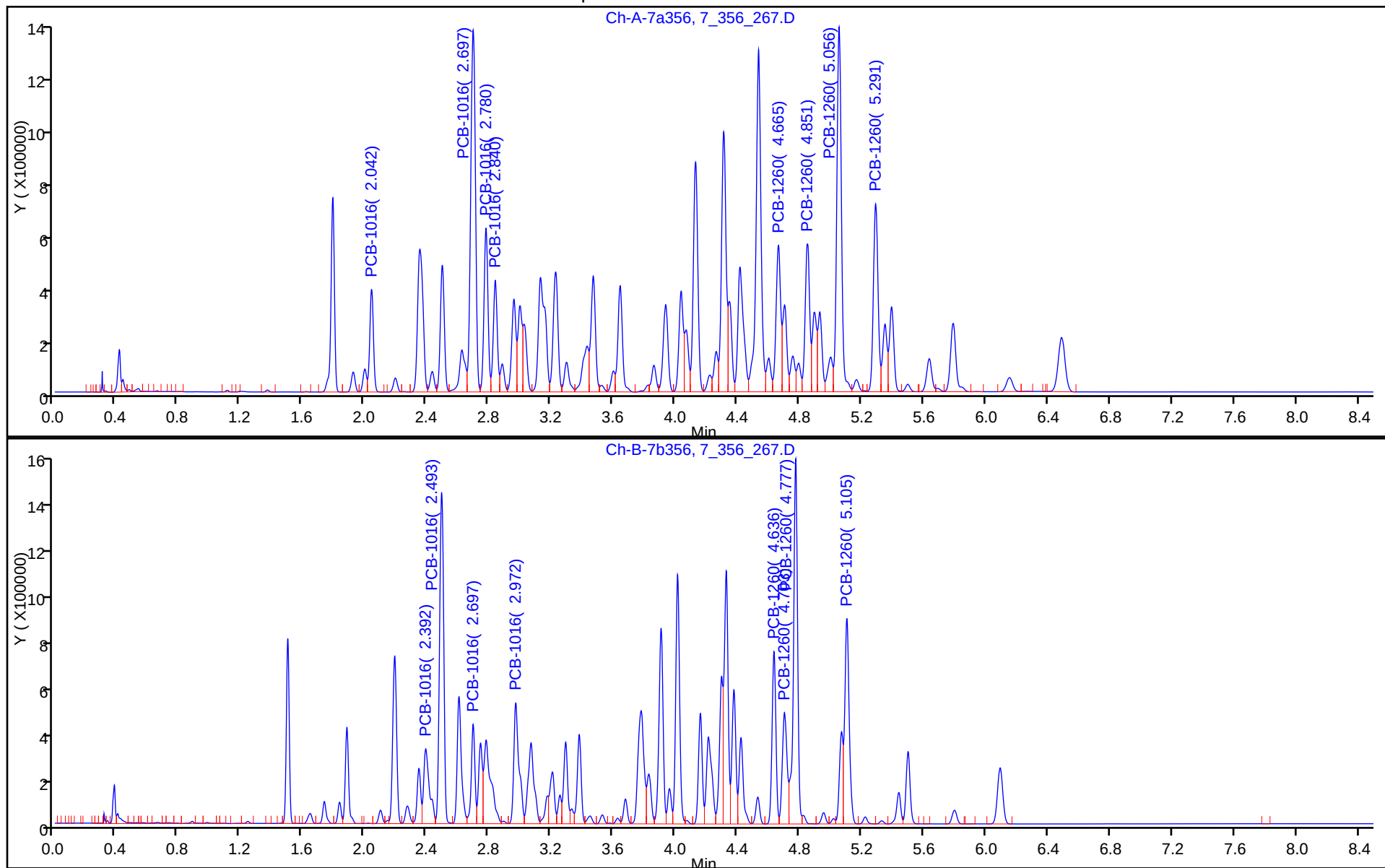
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_268.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 09-Dec-2014 19:53:25 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:13 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: eversd Date: 10-Dec-2014 09:12:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.793	1.791	0.001	573051	0.0125	0.0117	
2	1.503	1.502	0.000	533259	0.0125	0.0116	
						RPD =	1.09

6 PCB-1016

1	2.043	2.041	0.001	328239	0.5000	0.4496	
1	2.697	2.695	0.002	1449942	0.5000	0.4780	
1	2.780	2.779	0.001	548465	0.5000	0.4550	
1	2.839	2.838	0.001	376771	0.5000	0.4590	
Average of Peak Amounts =						0.4604	
2	2.391	2.390	0.001	435339	0.5000	0.4431	a
2	2.494	2.494	0.000	1360402	0.5000	0.4637	
2	2.698	2.696	0.002	358590	0.5000	0.4475	a
2	2.972	2.970	0.002	622042	0.5000	0.4416	a
Average of Peak Amounts =						0.4490	
						RPD =	2.50

9 PCB-1260

1	4.663	4.663	0.000	549928	0.5000	0.4438	
1	4.851	4.850	0.001	543097	0.5000	0.4460	
1	5.055	5.053	0.002	1345979	0.5000	0.4646	
1	5.291	5.290	0.001	698092	0.5000	0.4461	
Average of Peak Amounts =						0.4501	
2	4.637	4.635	0.002	631548	0.5000	0.4601	
2	4.703	4.705	-0.002	516220	0.5000	0.4626	
2	4.775	4.775	0.000	1409549	0.5000	0.4651	
2	5.105	5.106	-0.001	865522	0.5000	0.4630	
Average of Peak Amounts =						0.4627	
						RPD =	2.76

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_268.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.490	6.489	0.001	325626	0.0125	0.0131	
2	6.093	6.094	-0.002	295906	0.0125	0.0114	

RPD = 13.67

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_268.D

Injection Date: 09-Dec-2014 19:53:25

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD5

Worklist Smp#: 3

Client ID:

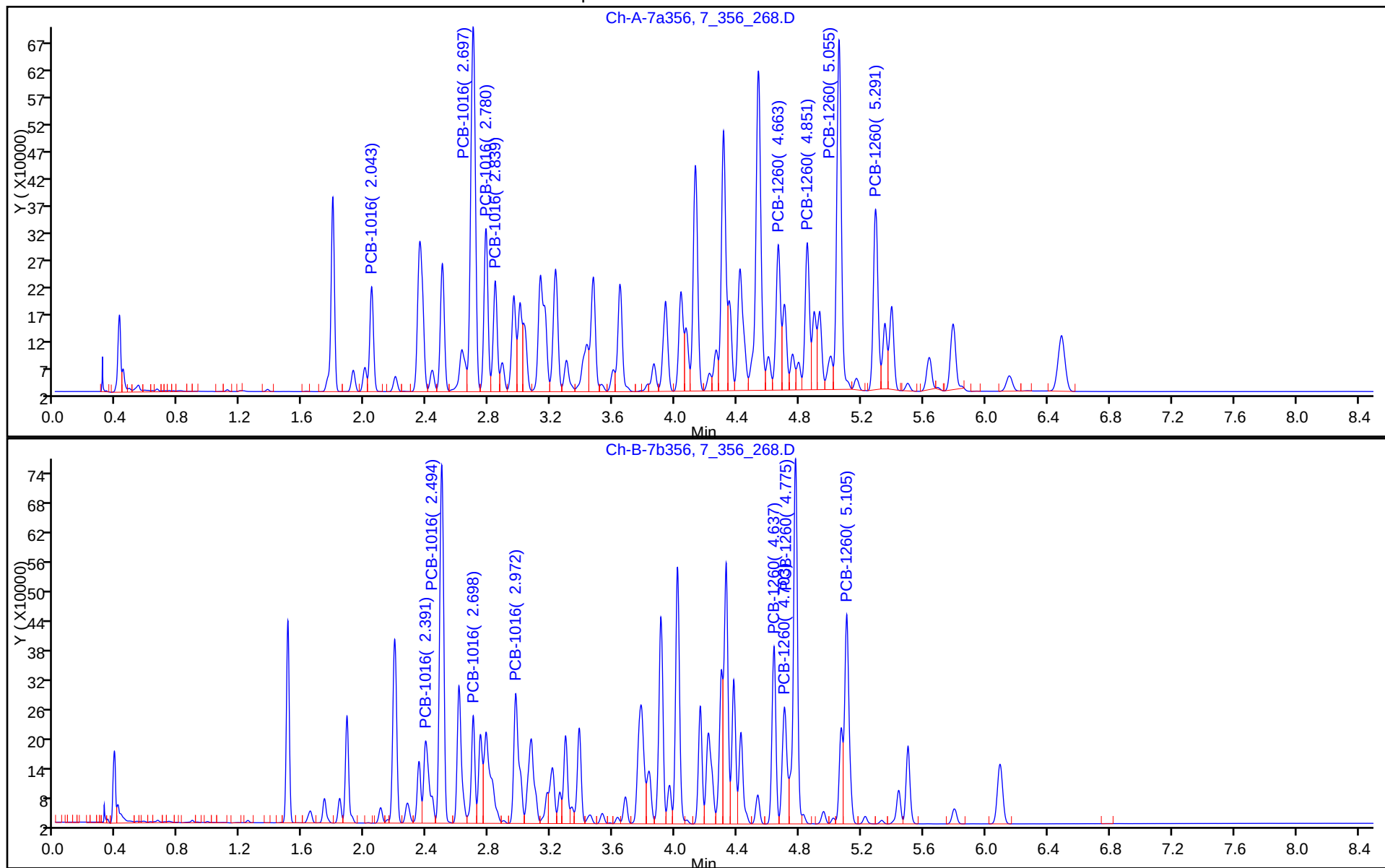
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_269.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 09-Dec-2014 20:09:15 ALS Bottle#: 0 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:16 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 09:10:07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.792	1.791	0.001	241706	0.005000	0.004937	
2	1.503	1.502	0.000	229868	0.005000	0.004990	
RPD = 1.08							

6 PCB-1016

1	2.043	2.041	0.001	142751	0.2000	0.1955	
1	2.696	2.695	0.001	594688	0.2000	0.1961	
1	2.778	2.779	-0.001	231547	0.2000	0.1921	
1	2.838	2.838	0.000	157446	0.2000	0.1918	
Average of Peak Amounts =							0.1939
2	2.390	2.390	0.000	194679	0.2000	0.1982	a
2	2.494	2.494	0.000	575964	0.2000	0.1963	
2	2.697	2.696	0.001	158025	0.2000	0.1972	a
2	2.971	2.970	0.001	273761	0.2000	0.1943	
Average of Peak Amounts =							0.1965
RPD = 1.36							

9 PCB-1260

1	4.663	4.663	0.000	230895	0.2000	0.1863	
1	4.851	4.850	0.001	226984	0.2000	0.1864	
1	5.055	5.053	0.002	549908	0.2000	0.1898	
1	5.292	5.290	0.002	292700	0.2000	0.1870	
Average of Peak Amounts =							0.1874
2	4.635	4.635	0.000	266178	0.2000	0.1939	
2	4.703	4.705	-0.002	212672	0.2000	0.1906	
2	4.775	4.775	0.000	588628	0.2000	0.1942	
2	5.105	5.106	-0.001	363895	0.2000	0.1947	
Average of Peak Amounts =							0.1934
RPD = 3.13							

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_269.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.490	6.489	0.001	148162	0.005000	0.005352	
2	6.094	6.094	0.000	128160	0.005000	0.004945	

RPD = 7.92

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.10

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_269.D

Injection Date: 09-Dec-2014 20:09:15

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD4

Worklist Smp#: 4

Client ID:

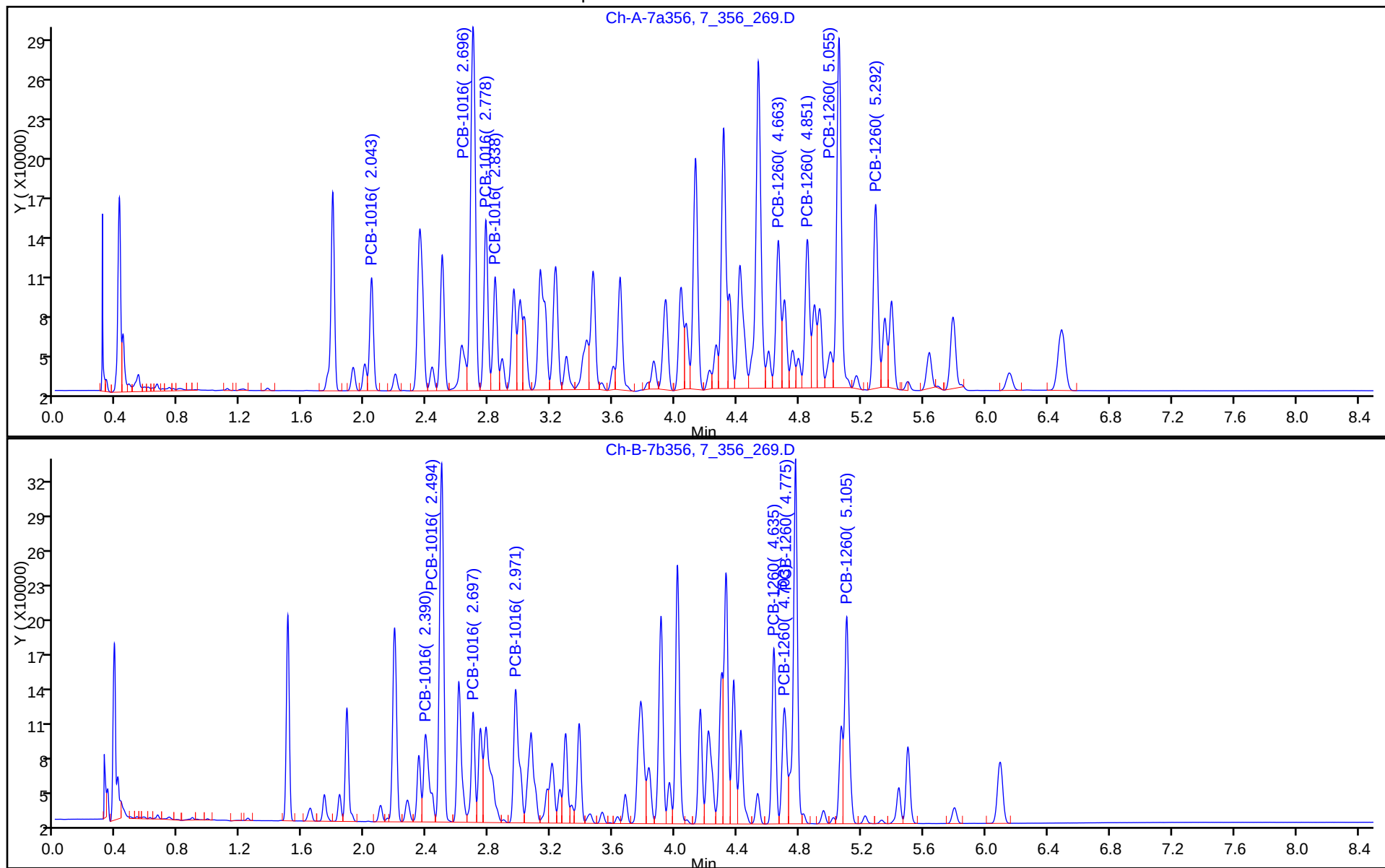
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_270.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Dec-2014 20:25:15 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:18 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 09:06:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M
 1 1.793 1.791 0.001 124403 0.002500 0.002541 M
 2 1.503 1.502 0.000 119244 0.002500 0.002589 M
 RPD = 1.87

6 PCB-1016

1	2.042	2.041	0.001	72345	0.1000	0.0991	
1	2.696	2.695	0.001	303501	0.1000	0.1001	
1	2.779	2.779	0.000	122142	0.1000	0.1013	
1	2.840	2.838	0.002	84366	0.1000	0.1028	
Average of Peak Amounts =						0.1008	
2	2.390	2.390	0.000	103201	0.1000	0.1051	a
2	2.493	2.494	-0.001	295818	0.1000	0.1008	
2	2.697	2.696	0.001	83732	0.1000	0.1045	
2	2.971	2.970	0.001	145831	0.1000	0.1035	
Average of Peak Amounts =						0.1035	
						RPD = 2.61	

9 PCB-1260

1	4.663	4.663	0.000	128320	0.1000	0.1036	
1	4.850	4.850	0.000	125347	0.1000	0.1029	
1	5.054	5.053	0.001	292577	0.1000	0.1010	
1	5.292	5.290	0.002	158740	0.1000	0.1014	
Average of Peak Amounts =						0.1022	
2	4.635	4.635	0.000	139536	0.1000	0.1017	
2	4.703	4.705	-0.003	114146	0.1000	0.1023	
2	4.774	4.775	-0.001	301763	0.1000	0.0996	
2	5.104	5.106	-0.002	187426	0.1000	0.1003	
Average of Peak Amounts =						0.1010	
						RPD = 1.26	

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_270.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.489	6.489	0.000	82798	0.002500	0.002502	
2	6.093	6.094	-0.001	67990	0.002500	0.002623	

RPD = 4.74

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.05

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_270.D

Injection Date: 09-Dec-2014 20:25:15

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 5

Client ID:

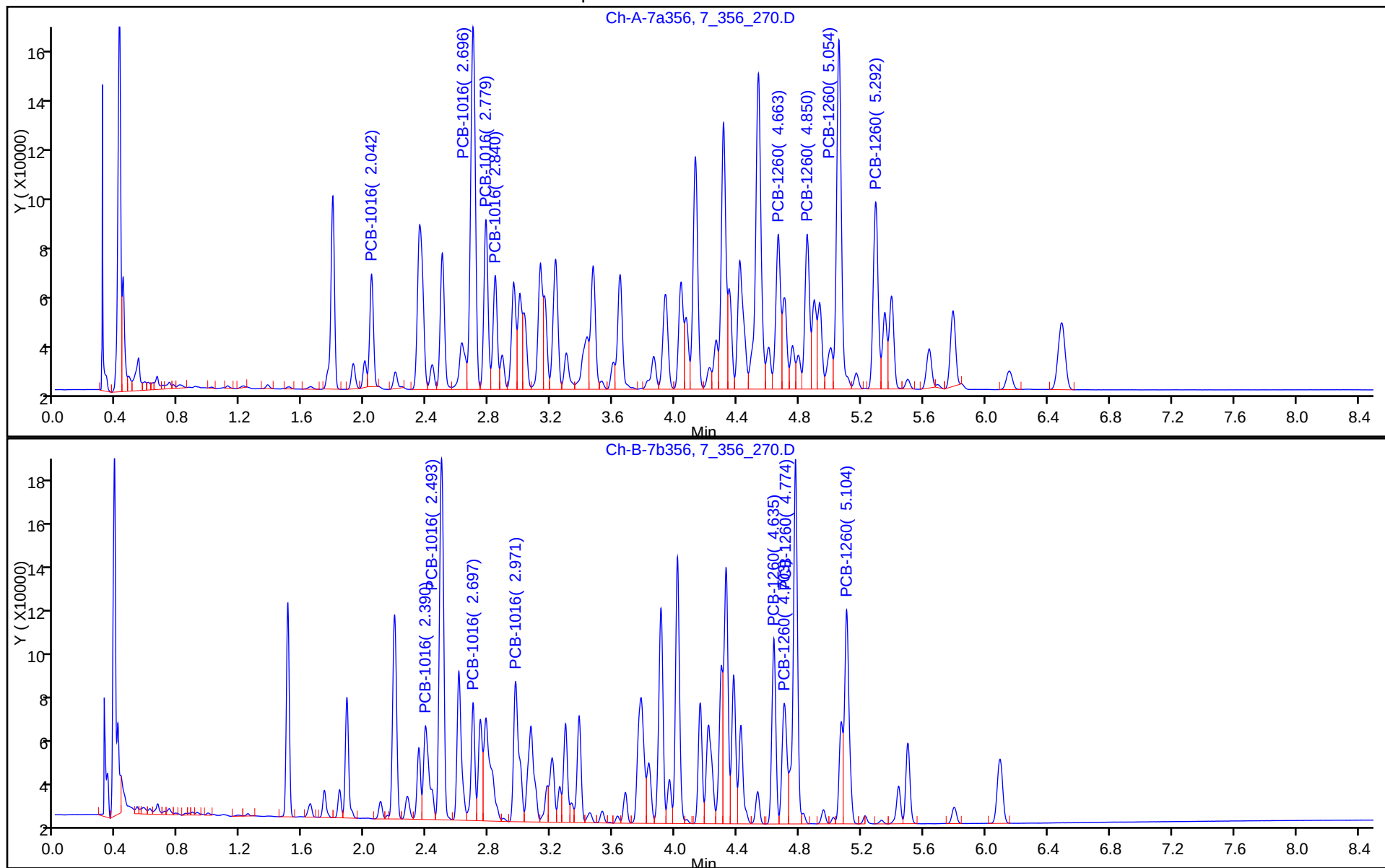
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



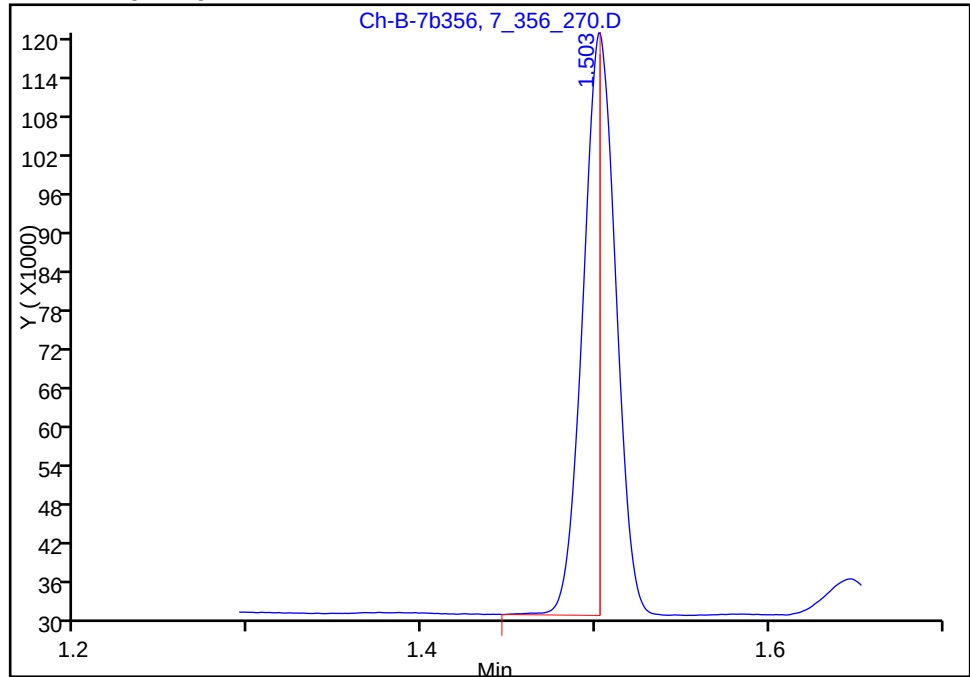
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_270.D		
Injection Date:	09-Dec-2014 20:25:15	Instrument ID:	HP6890-7
Lims ID:	STD3		
Client ID:			
Operator ID:	buftchrom	ALS Bottle#:	0
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL
Column:		Detector:	Ch-B-7b136
		Worklist Smp#:	5

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

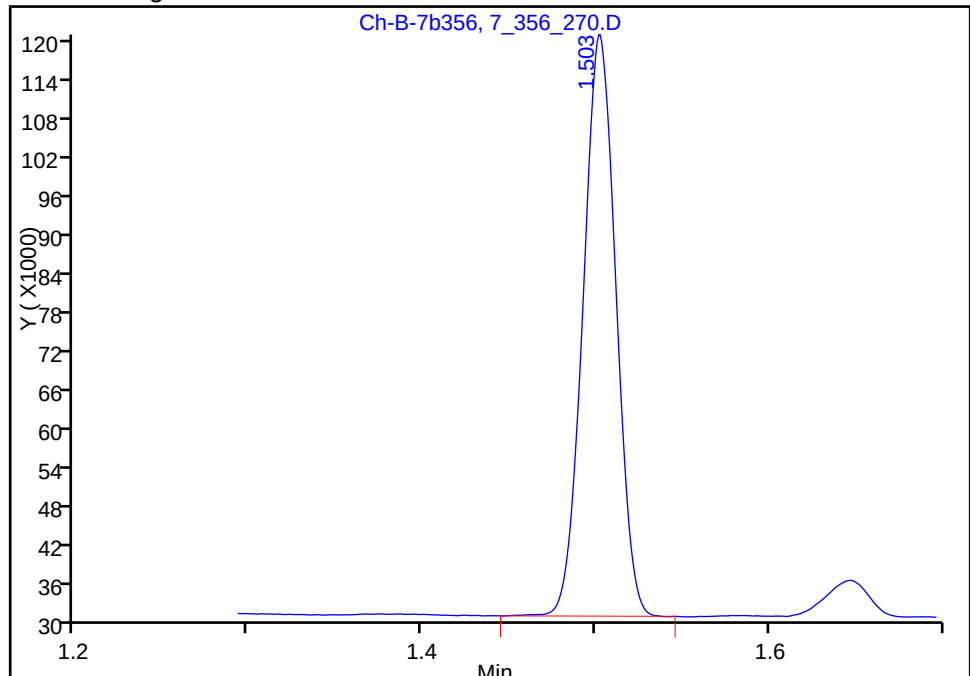
RT: 1.50
Response: 60979
Amount: 0.001682

Processing Integration Results



RT: 1.50
Response: 119244
Amount: 0.002589

Manual Integration Results



Reviewer: eversd, 10-Dec-2014 09:13:48
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_271.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Dec-2014 20:41:02 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:20 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 06:02:17

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.792	1.791	0.001	67224	0.001250	0.001373	
2	1.502	1.502	0.000	66139	0.001250	0.001436	

RPD = 4.48

6 PCB-1016

1	2.042	2.041	0.001	41918	0.0500	0.0574	
1	2.697	2.695	0.002	162341	0.0500	0.0535	M
1	2.778	2.779	-0.001	67807	0.0500	0.0562	M
1	2.839	2.838	0.001	45844	0.0500	0.0558	M
Average of Peak Amounts =						0.0558	
2	2.389	2.390	-0.001	57657	0.0500	0.0587	a
2	2.493	2.494	-0.001	162422	0.0500	0.0554	
2	2.696	2.696	0.000	46106	0.0500	0.0575	a
2	2.972	2.970	0.002	82228	0.0500	0.0584	
Average of Peak Amounts =						0.0575	

RPD = 3.07

9 PCB-1260

1	4.664	4.663	0.001	70622	0.0500	0.0570	M
1	4.853	4.850	0.002	69356	0.0500	0.0570	M
1	5.055	5.053	0.002	153775	0.0500	0.0531	M
1	5.291	5.290	0.001	87070	0.0500	0.0556	M
Average of Peak Amounts =						0.0557	
2	4.637	4.635	0.002	75844	0.0500	0.0553	
2	4.705	4.705	0.000	62383	0.0500	0.0559	
2	4.775	4.775	0.000	161331	0.0500	0.0532	
2	5.105	5.106	-0.001	102140	0.0500	0.0546	
Average of Peak Amounts =						0.0548	

RPD = 1.64

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_271.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1 6.492 6.489 0.003 46316 0.001250 0.000911

2 6.093 6.094 -0.001 36216 0.001250 0.001397

RPD = 42.16

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00005

Amount Added: 0.03

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_271.D

Injection Date: 09-Dec-2014 20:41:02

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 6

Client ID:

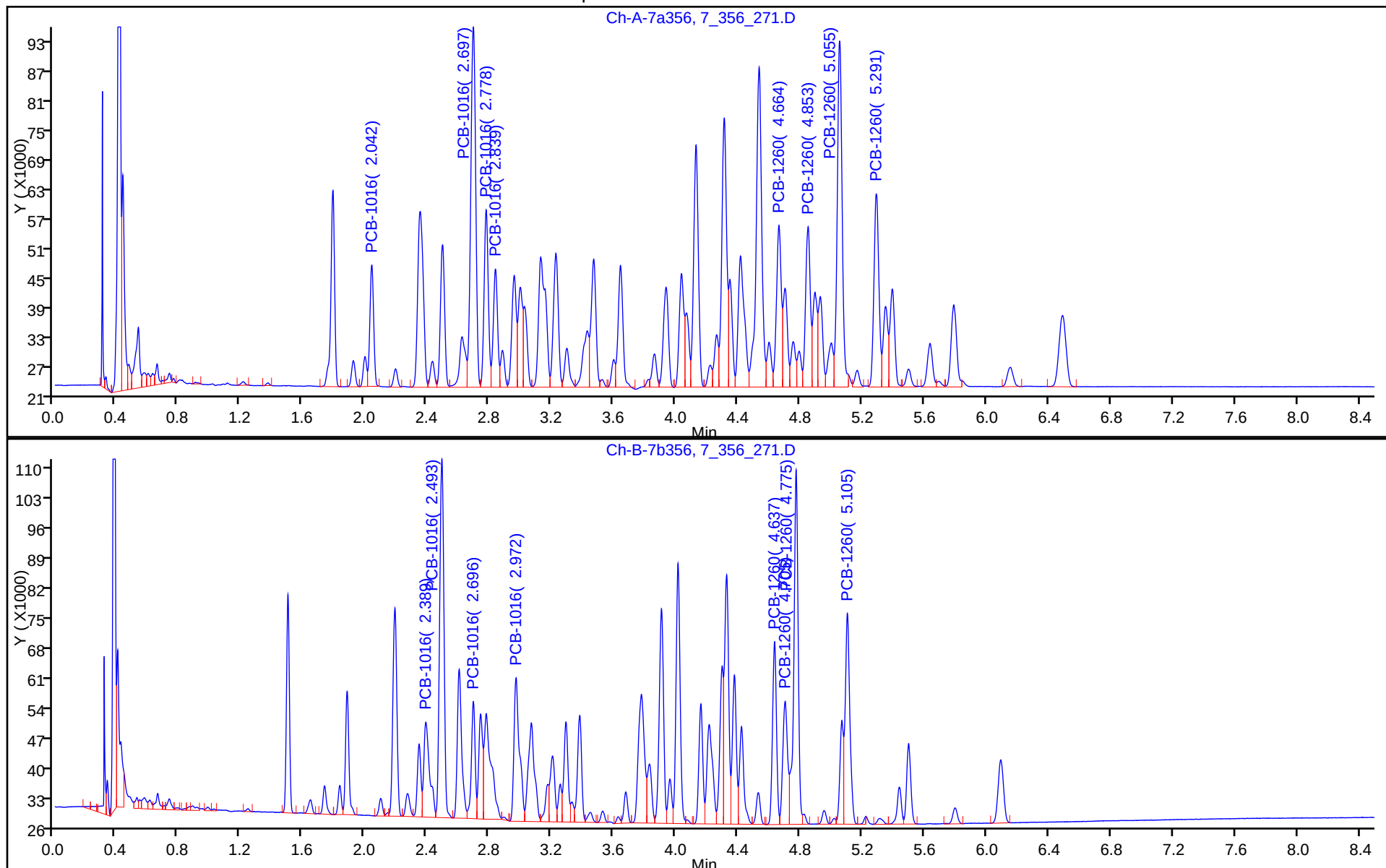
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_272.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Dec-2014 20:56:52 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub1
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:23 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 06:02:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.791	1.791	0.000	30142	0.000500	0.000616	a
2	1.502	1.502	0.000	29417	0.000500	0.000639	a
RPD = 3.67							

6 PCB-1016

1	2.041	2.041	0.000	19638	0.0200	0.0269	M
1	2.695	2.695	0.000	71573	0.0200	0.0236	M
1	2.779	2.779	0.000	30902	0.0200	0.0256	M
1	2.838	2.838	0.000	20567	0.0200	0.0251	M
Average of Peak Amounts =							0.0253
2	2.390	2.390	0.000	26116	0.0200	0.0266	a
2	2.494	2.494	0.000	73989	0.0200	0.0252	
2	2.696	2.696	0.000	20906	0.0200	0.0261	a
2	2.970	2.970	0.000	37618	0.0200	0.0267	
Average of Peak Amounts =							0.0261
RPD = 3.32							

9 PCB-1260

1	4.663	4.663	0.000	32239	0.0200	0.0260	
1	4.850	4.850	0.000	31477	0.0200	0.0259	
1	5.053	5.053	0.000	70440	0.0200	0.0243	
1	5.290	5.290	0.000	39510	0.0200	0.0252	
Average of Peak Amounts =							0.0254
2	4.635	4.635	0.000	33348	0.0200	0.0243	
2	4.705	4.705	0.000	27682	0.0200	0.0248	
2	4.775	4.775	0.000	72568	0.0200	0.0239	
2	5.106	5.106	0.000	44323	0.0200	0.0237	
Average of Peak Amounts =							0.0242
RPD = 4.71							

\$ 12 DCB Decachlorobiphenyl

1	6.489						
ND ND(<0)							

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

[Reagents:](#)

AR1660 2.0ng_00005

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_272.D

Injection Date: 09-Dec-2014 20:56:52

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 7

Client ID:

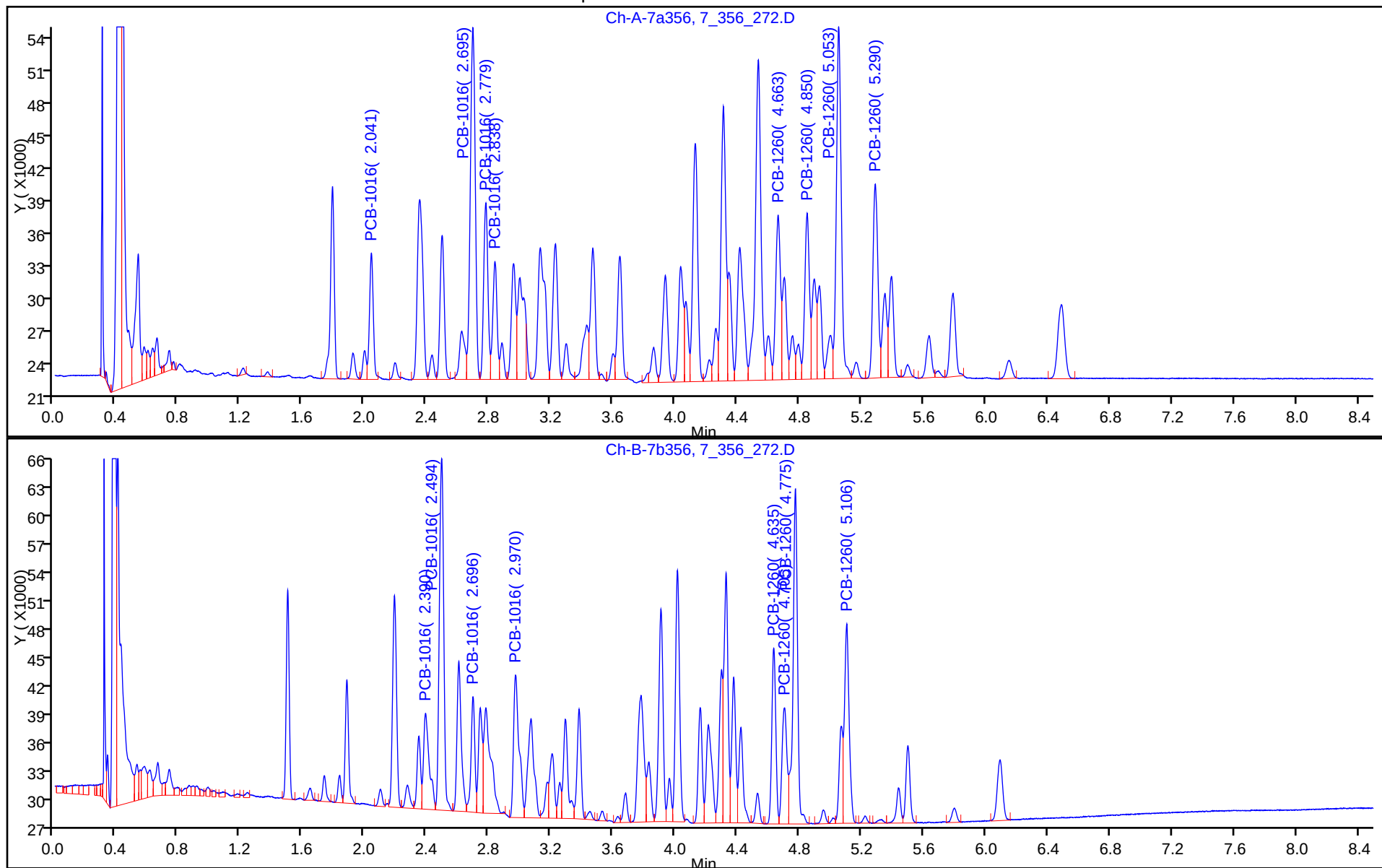
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 21:28 Calibration End Date: 12/09/2014 22:00 Calibration ID: 21463

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/11	7_356_276.D
Level 2	STD2 480-218106/10	7_356_275.D
Level 3	STD3 480-218106/9	7_356_274.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1221 Peak 1	+++++	1.371	+++++								1.342 - 1.402	1.371
PCB-1221 Peak 2	+++++	1.924	+++++								1.896 - 1.956	1.924
PCB-1221 Peak 3	+++++	1.998	+++++								1.969 - 2.029	1.998
PCB-1221 Peak 4	+++++	2.043	+++++								2.013 - 2.073	2.043
PCB-1254 Peak 1	+++++	3.645	+++++								3.615 - 3.675	3.645
PCB-1254 Peak 2	+++++	3.862	+++++								3.833 - 3.893	3.862
PCB-1254 Peak 3	+++++	3.940	+++++								3.910 - 3.970	3.940
PCB-1254 Peak 4	+++++	4.138	+++++								4.107 - 4.167	4.138

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 21:28 Calibration End Date: 12/09/2014 22:00 Calibration ID: 21463

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/11	7_356_276.D
Level 2	STD2 480-218106/10	7_356_275.D
Level 3	STD3 480-218106/9	7_356_274.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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	+++++	274654	+++++		Ave		274654.000						20.0			
PCB-1221 Peak 2	+++++	415282	+++++		Ave		415282.000						20.0			
PCB-1221 Peak 3	+++++	261874	+++++		Ave		261874.000						20.0			
PCB-1221 Peak 4	+++++	942804	+++++		Ave		942804.000						20.0			
PCB-1254 Peak 1	+++++	1986482	+++++		Ave		1986482.00						20.0			
PCB-1254 Peak 2	+++++	1311126	+++++		Ave		1311126.00						20.0			
PCB-1254 Peak 3	+++++	2371732	+++++		Ave		2371732.00						20.0			
PCB-1254 Peak 4	+++++	2310018	+++++		Ave		2310018.00						20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 21:28 Calibration End Date: 12/09/2014 22:00 Calibration ID: 21463

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/11	7_356_276.D
Level 2	STD2 480-218106/10	7_356_275.D
Level 3	STD3 480-218106/9	7_356_274.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	Ave	+++++	137327	+++++			+++++	0.500	+++++		
PCB-1221 Peak 2	Ave	+++++	207641	+++++			+++++	0.500	+++++		
PCB-1221 Peak 3	Ave	+++++	130937	+++++			+++++	0.500	+++++		
PCB-1221 Peak 4	Ave	+++++	471402	+++++			+++++	0.500	+++++		
PCB-1254 Peak 1	Ave	+++++	993241	+++++			+++++	0.500	+++++		
PCB-1254 Peak 2	Ave	+++++	655563	+++++			+++++	0.500	+++++		
PCB-1254 Peak 3	Ave	+++++	1185866	+++++			+++++	0.500	+++++		
PCB-1254 Peak 4	Ave	+++++	1155009	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_274.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Dec-2014 21:28:36 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:01 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 10:47:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 PCB-1221 M

1	1.370	1.372	-0.002	475048	2.00	1.73	a
1	1.923	1.926	-0.003	743878	2.00	1.79	a
1	1.998	1.999	-0.001	452904	2.00	1.73	a
1	2.042	2.043	-0.001	1706499	2.00	1.81	a

Average of Peak Amounts = 1.77

2	1.737	1.738	-0.001	723152	2.00	1.69	a
2	1.883	1.883	-0.001	1599078	2.00	1.88	M
2	2.143	2.146	-0.004	159063	2.00	1.66	M
2	2.196	2.198	-0.002	450247	2.00	1.69	M

Average of Peak Amounts = 1.73

RPD = 2.14

8 PCB-1254 M

1	3.644	3.645	-0.001	3889666	2.00	1.96	a
1	3.863	3.863	0.000	2582025	2.00	1.97	a
1	3.941	3.940	0.001	4718856	2.00	1.99	a
1	4.138	4.137	0.001	4579140	2.00	1.98	a

Average of Peak Amounts = 1.97

2	3.381	3.381	0.000	2807235	2.00	1.85	M
2	3.678	3.677	0.001	2119674	2.00	1.89	M
2	3.763	3.763	0.001	4529968	2.00	1.87	M
2	3.896	3.895	0.001	4421379	2.00	1.88	M

Average of Peak Amounts = 1.87

RPD = 5.29

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1221-1254 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_274.D

Injection Date: 09-Dec-2014 21:28:36

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 9

Client ID:

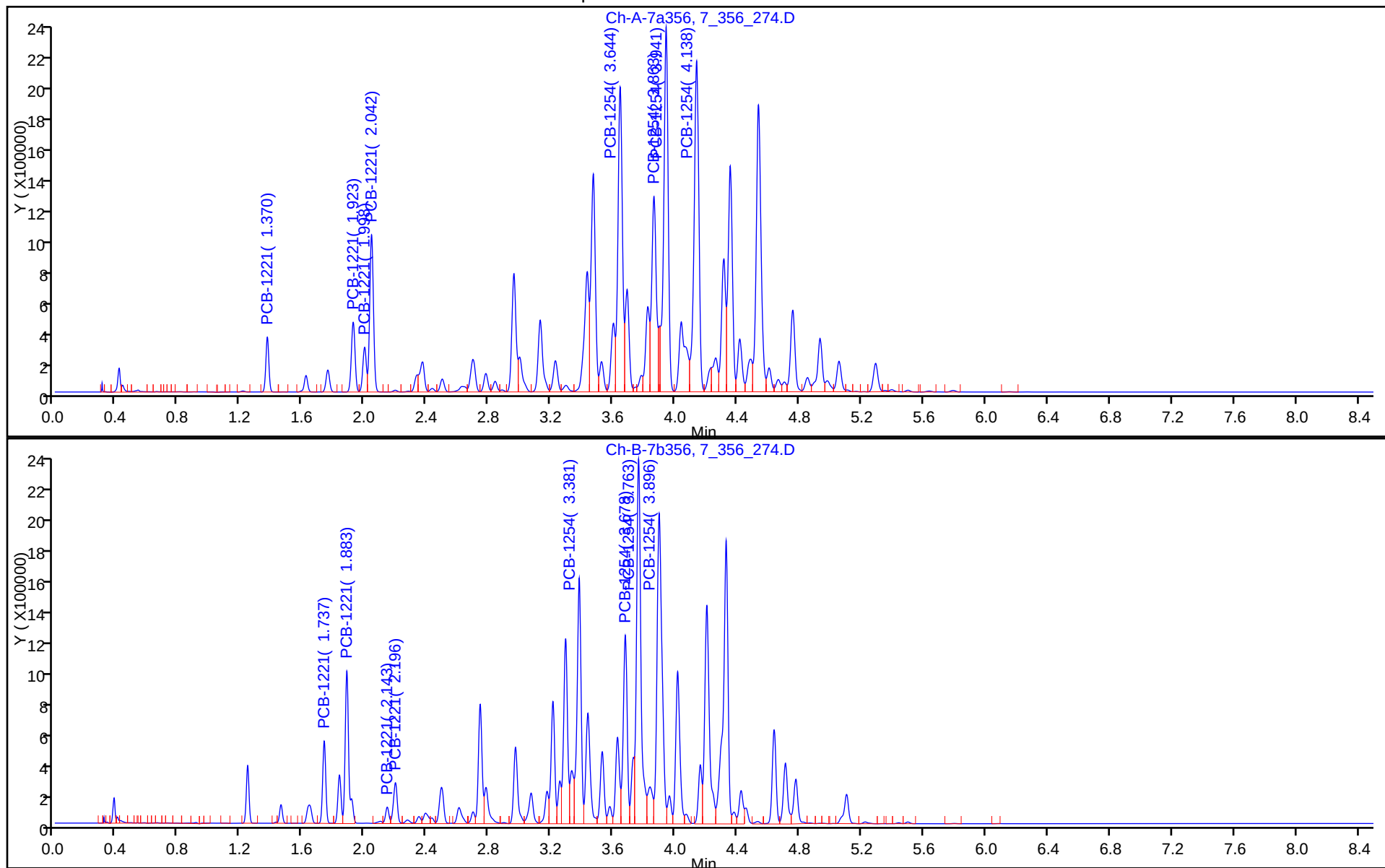
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_275.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Dec-2014 21:44:22 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:04 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: eversd Date: 10-Dec-2014 10:58:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 PCB-1221

1	1.371	1.372	-0.001	137327	0.5000	0.5000	
1	1.924	1.926	-0.002	207641	0.5000	0.5000	
1	1.998	1.999	-0.001	130937	0.5000	0.5000	
1	2.043	2.043	-0.001	471402	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.738	1.738	0.000	214431	0.5000	0.5000	
2	1.883	1.883	0.000	425697	0.5000	0.5000	
2	2.144	2.146	-0.002	48029	0.5000	0.5000	
2	2.197	2.198	-0.001	133170	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

8 PCB-1254

1	3.645	3.645	0.000	993241	0.5000	0.5000	
1	3.862	3.863	0.000	655563	0.5000	0.5000	
1	3.940	3.940	0.000	1185866	0.5000	0.5000	
1	4.138	4.137	0.001	1155009	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.382	3.381	0.001	760619	0.5000	0.5000	
2	3.678	3.677	0.001	559823	0.5000	0.5000	
2	3.763	3.763	0.001	1208579	0.5000	0.5000	
2	3.896	3.895	0.001	1176045	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1221-1254 2.0_00003

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_275.D

Injection Date: 09-Dec-2014 21:44:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 10

Client ID:

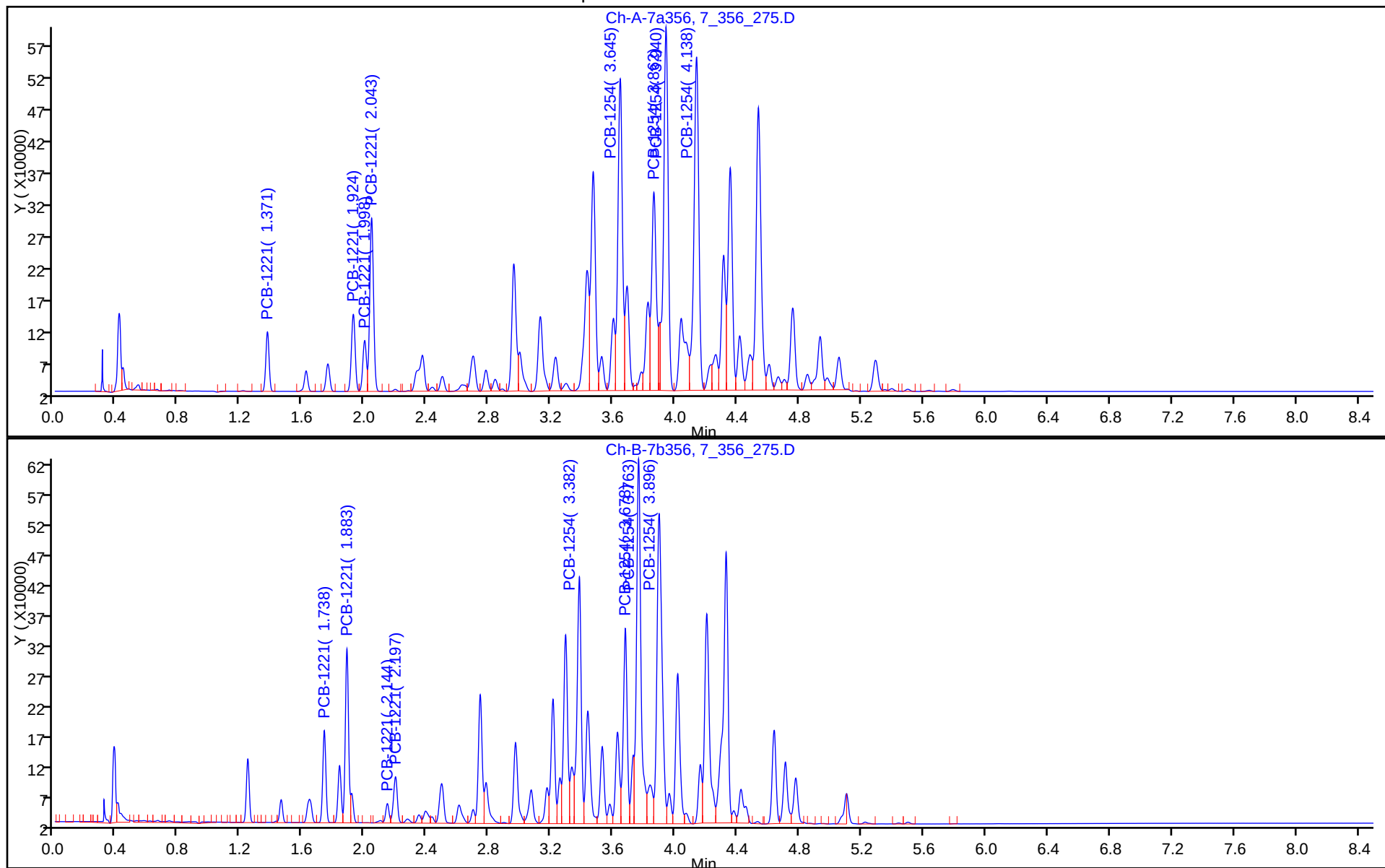
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_276.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Dec-2014 22:00:10 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:06 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: eversd Date: 10-Dec-2014 10:54:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

2 PCB-1221

1	1.372	1.372	0.000	9830	0.0200	0.0358	
1	1.926	1.926	0.000	12337	0.0200	0.0297	
1	1.999	1.999	0.000	7507	0.0200	0.0287	
1	2.043	2.043	0.000	27269	0.0200	0.0289	

Average of Peak Amounts = 0.0308

2	1.738	1.738	0.000	12743	0.0200	0.0297	
2	1.883	1.883	0.000	28573	0.0200	0.0336	
2	2.146	2.146	0.000	2667	0.0200	0.0278	
2	2.198	2.198	0.000	8000	0.0200	0.0300	

Average of Peak Amounts = 0.0303

RPD = 1.65

8 PCB-1254

1	3.645	3.645	0.000	54077	0.0200	0.0272	
1	3.863	3.863	0.000	34575	0.0200	0.0264	
1	3.940	3.940	0.000	60134	0.0200	0.0254	
1	4.137	4.137	0.000	60998	0.0200	0.0264	

Average of Peak Amounts = 0.0263

2	3.381	3.381	0.000	44876	0.0200	0.0295	
2	3.677	3.677	0.000	30354	0.0200	0.0271	
2	3.763	3.763	0.000	65158	0.0200	0.0270	
2	3.895	3.895	0.000	62336	0.0200	0.0265	

Average of Peak Amounts = 0.0275

RPD = 4.38

Reagents:

1221-1254 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_276.D

Injection Date: 09-Dec-2014 22:00:10

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 11

Client ID:

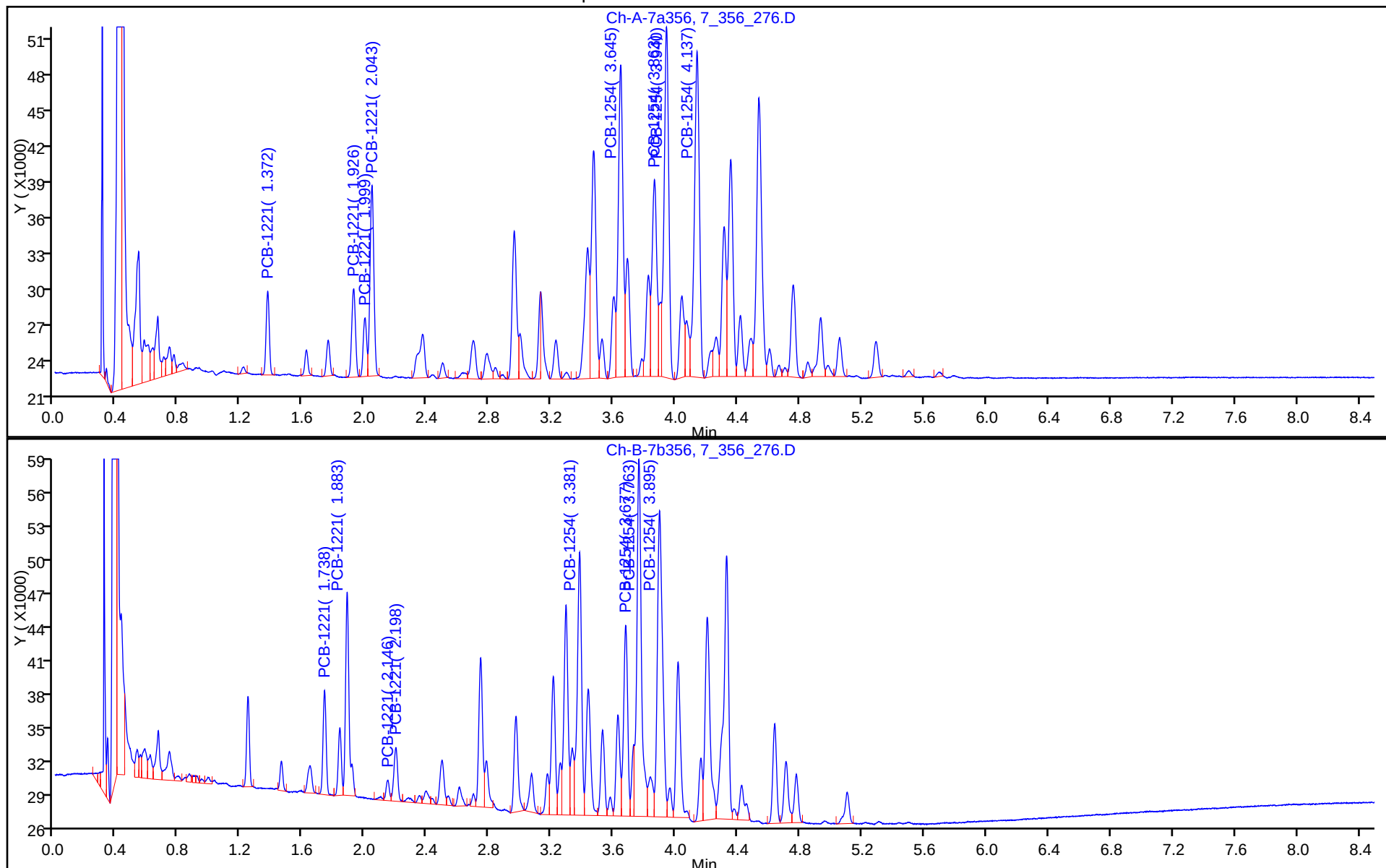
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 21:28 Calibration End Date: 12/09/2014 22:00 Calibration ID: 21464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/11	7_356_276.D
Level 2	STD2 480-218106/10	7_356_275.D
Level 3	STD3 480-218106/9	7_356_274.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1221 Peak 1	+++++	1.738	+++++								1.708 - 1.768	1.738
PCB-1221 Peak 2	+++++	1.883	+++++								1.853 - 1.913	1.883
PCB-1221 Peak 3	+++++	2.144	+++++								2.116 - 2.176	2.144
PCB-1221 Peak 4	+++++	2.197	+++++								2.168 - 2.228	2.197
PCB-1254 Peak 1	+++++	3.382	+++++								3.351 - 3.411	3.382
PCB-1254 Peak 2	+++++	3.678	+++++								3.647 - 3.707	3.678
PCB-1254 Peak 3	+++++	3.763	+++++								3.733 - 3.793	3.763
PCB-1254 Peak 4	+++++	3.896	+++++								3.865 - 3.925	3.896

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 21:28 Calibration End Date: 12/09/2014 22:00 Calibration ID: 21464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/11	7_356_276.D
Level 2	STD2 480-218106/10	7_356_275.D
Level 3	STD3 480-218106/9	7_356_274.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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	+++++	428862	+++++		Ave		428862.000						20.0			
PCB-1221 Peak 2	+++++	851394	+++++		Ave		851394.000						20.0			
PCB-1221 Peak 3	+++++	96058	+++++		Ave		96058.0000						20.0			
PCB-1221 Peak 4	+++++	266340	+++++		Ave		266340.000						20.0			
PCB-1254 Peak 1	+++++	1521238	+++++		Ave		1521238.00						20.0			
PCB-1254 Peak 2	+++++	1119646	+++++		Ave		1119646.00						20.0			
PCB-1254 Peak 3	+++++	2417158	+++++		Ave		2417158.00						20.0			
PCB-1254 Peak 4	+++++	2352090	+++++		Ave		2352090.00						20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 21:28 Calibration End Date: 12/09/2014 22:00 Calibration ID: 21464

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/11	7_356_276.D
Level 2	STD2 480-218106/10	7_356_275.D
Level 3	STD3 480-218106/9	7_356_274.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1221 Peak 1	Ave	+++++	214431	+++++			+++++	0.500	+++++		
PCB-1221 Peak 2	Ave	+++++	425697	+++++			+++++	0.500	+++++		
PCB-1221 Peak 3	Ave	+++++	48029	+++++			+++++	0.500	+++++		
PCB-1221 Peak 4	Ave	+++++	133170	+++++			+++++	0.500	+++++		
PCB-1254 Peak 1	Ave	+++++	760619	+++++			+++++	0.500	+++++		
PCB-1254 Peak 2	Ave	+++++	559823	+++++			+++++	0.500	+++++		
PCB-1254 Peak 3	Ave	+++++	1208579	+++++			+++++	0.500	+++++		
PCB-1254 Peak 4	Ave	+++++	1176045	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_274.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Dec-2014 21:28:36 ALS Bottle#: 0 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:01 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: eversd

Date: 10-Dec-2014 10:47:15

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 PCB-1221

							M
1	1.370	1.372	-0.002	475048	2.00	1.73	a
1	1.923	1.926	-0.003	743878	2.00	1.79	a
1	1.998	1.999	-0.001	452904	2.00	1.73	a
1	2.042	2.043	-0.001	1706499	2.00	1.81	a

Average of Peak Amounts = 1.77

2	1.737	1.738	-0.001	723152	2.00	1.69	a
2	1.883	1.883	-0.001	1599078	2.00	1.88	M
2	2.143	2.146	-0.004	159063	2.00	1.66	M
2	2.196	2.198	-0.002	450247	2.00	1.69	M

Average of Peak Amounts = 1.73

RPD = 2.14

8 PCB-1254

							M
1	3.644	3.645	-0.001	3889666	2.00	1.96	a
1	3.863	3.863	0.000	2582025	2.00	1.97	a
1	3.941	3.940	0.001	4718856	2.00	1.99	a
1	4.138	4.137	0.001	4579140	2.00	1.98	a

Average of Peak Amounts = 1.97

2	3.381	3.381	0.000	2807235	2.00	1.85	M
2	3.678	3.677	0.001	2119674	2.00	1.89	M
2	3.763	3.763	0.001	4529968	2.00	1.87	M
2	3.896	3.895	0.001	4421379	2.00	1.88	M

Average of Peak Amounts = 1.87

RPD = 5.29

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1221-1254 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_274.D

Injection Date: 09-Dec-2014 21:28:36

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 9

Client ID:

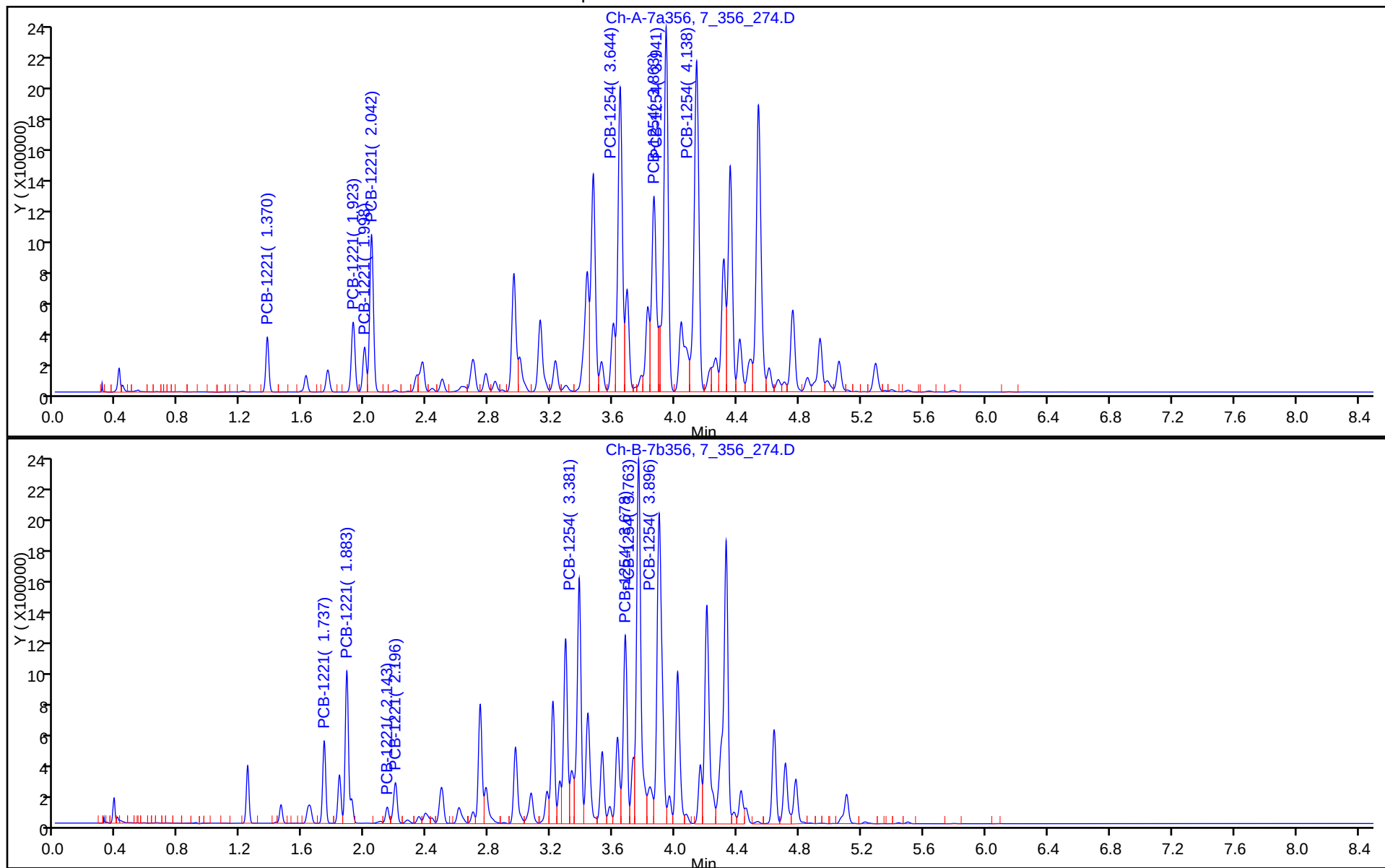
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_274.D

Injection Date: 09-Dec-2014 21:28:36

Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 9

Injection Vol: 1.0 ul

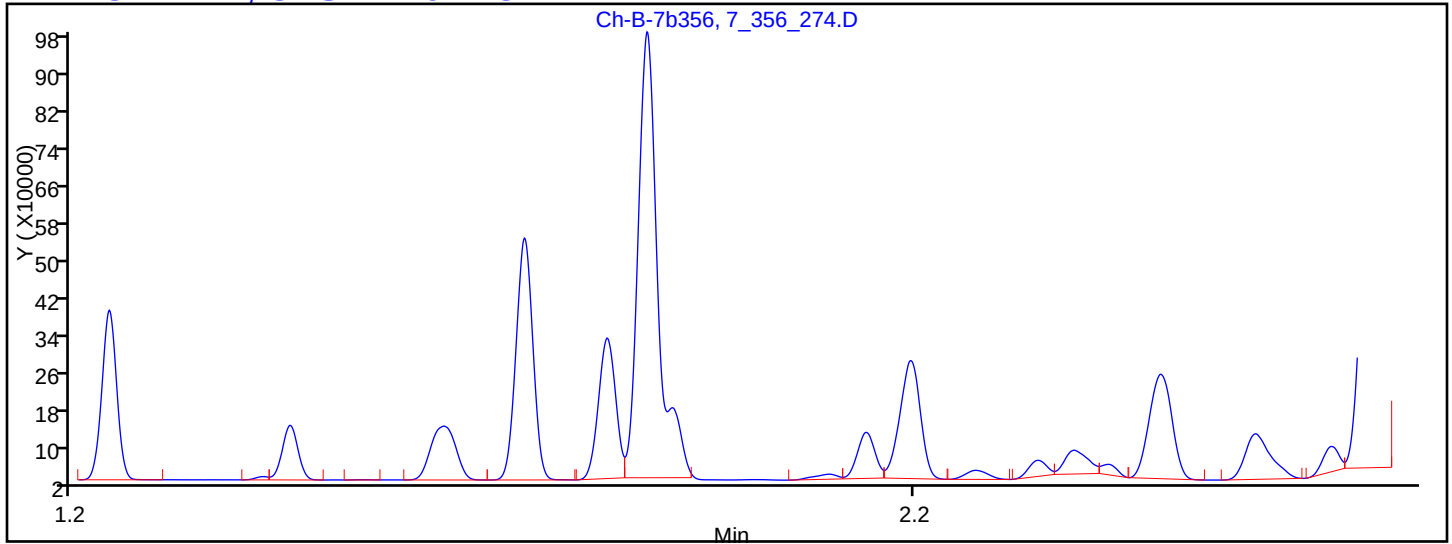
Dil. Factor: 1.0000

Method: HP7-PCBS

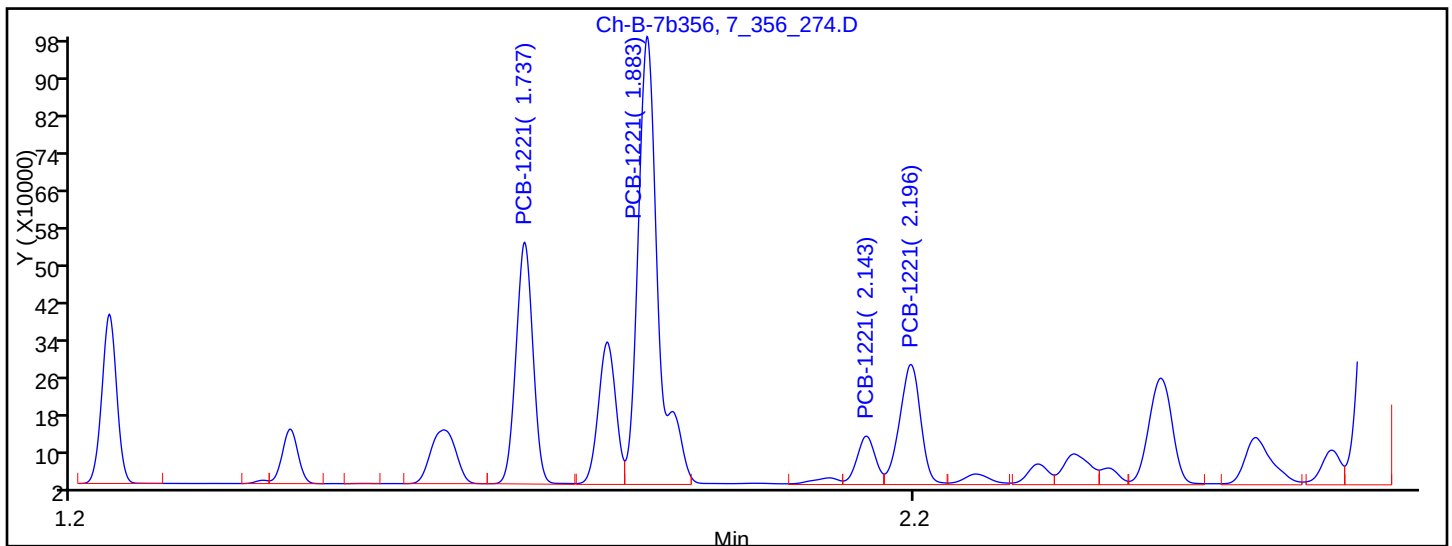
Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

2 PCB-1221, CAS: 11104-28-2

Processing Integration Results



Manual Integration Results

RT = 1.737	Response = 723152	M
RT = 1.883	Response = 1599078	M
RT = 2.143	Response = 159063	M
RT = 2.196	Response = 450247	M

Reviewer: eversd, 10-Dec-2014 11:02:57

Audit Action: Assigned Compound ID

Audit Reason:

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_274.D

Injection Date: 09-Dec-2014 21:28:36

Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 9

Injection Vol: 1.0 ul

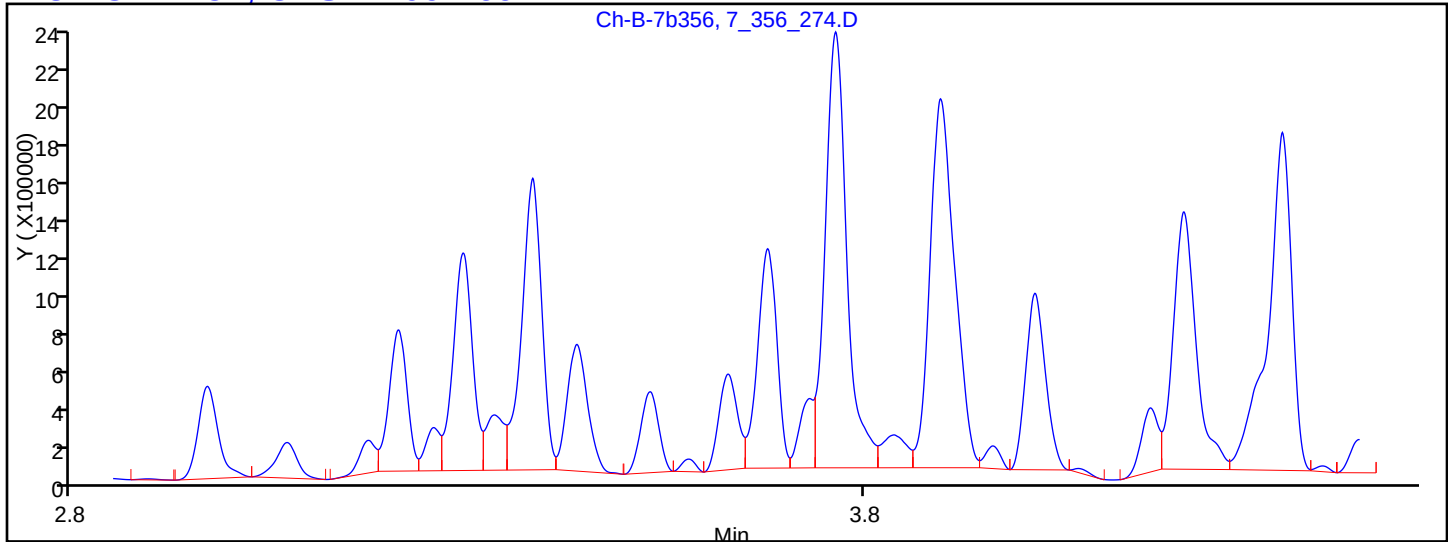
Dil. Factor: 1.0000

Method: HP7-PCBS

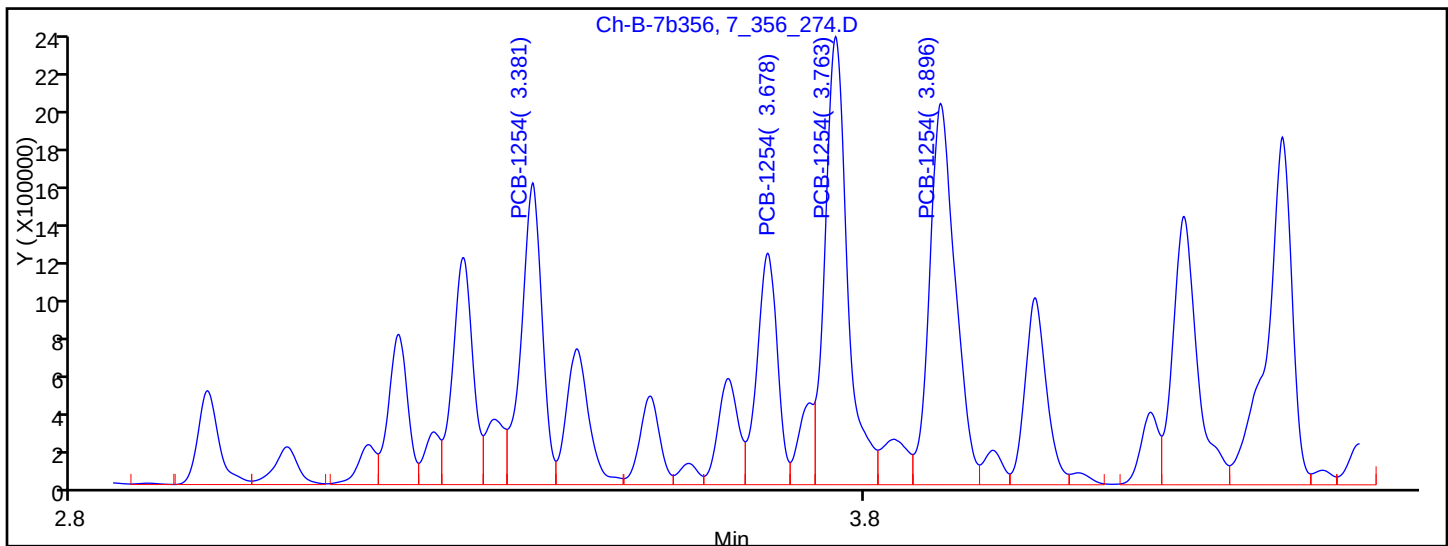
Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

8 PCB-1254, CAS: 11097-69-1

Processing Integration Results



Manual Integration Results

RT = 3.381	Response = 2807235	M
RT = 3.678	Response = 2119674	M
RT = 3.763	Response = 4529968	M
RT = 3.896	Response = 4421379	M

Reviewer: eversd, 10-Dec-2014 10:47:15

Audit Action: Manually Integrated/Assigned Compound ID

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_275.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Dec-2014 21:44:22 ALS Bottle#: 0 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:04 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: eversd Date: 10-Dec-2014 10:58:05

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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2 PCB-1221

1	1.371	1.372	-0.001	137327	0.5000	0.5000	
1	1.924	1.926	-0.002	207641	0.5000	0.5000	
1	1.998	1.999	-0.001	130937	0.5000	0.5000	
1	2.043	2.043	-0.001	471402	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.738	1.738	0.000	214431	0.5000	0.5000	
2	1.883	1.883	0.000	425697	0.5000	0.5000	
2	2.144	2.146	-0.002	48029	0.5000	0.5000	
2	2.197	2.198	-0.001	133170	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

8 PCB-1254

1	3.645	3.645	0.000	993241	0.5000	0.5000	
1	3.862	3.863	0.000	655563	0.5000	0.5000	
1	3.940	3.940	0.000	1185866	0.5000	0.5000	
1	4.138	4.137	0.001	1155009	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.382	3.381	0.001	760619	0.5000	0.5000	
2	3.678	3.677	0.001	559823	0.5000	0.5000	
2	3.763	3.763	0.001	1208579	0.5000	0.5000	
2	3.896	3.895	0.001	1176045	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1221-1254 2.0_00003

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_275.D

Injection Date: 09-Dec-2014 21:44:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 10

Client ID:

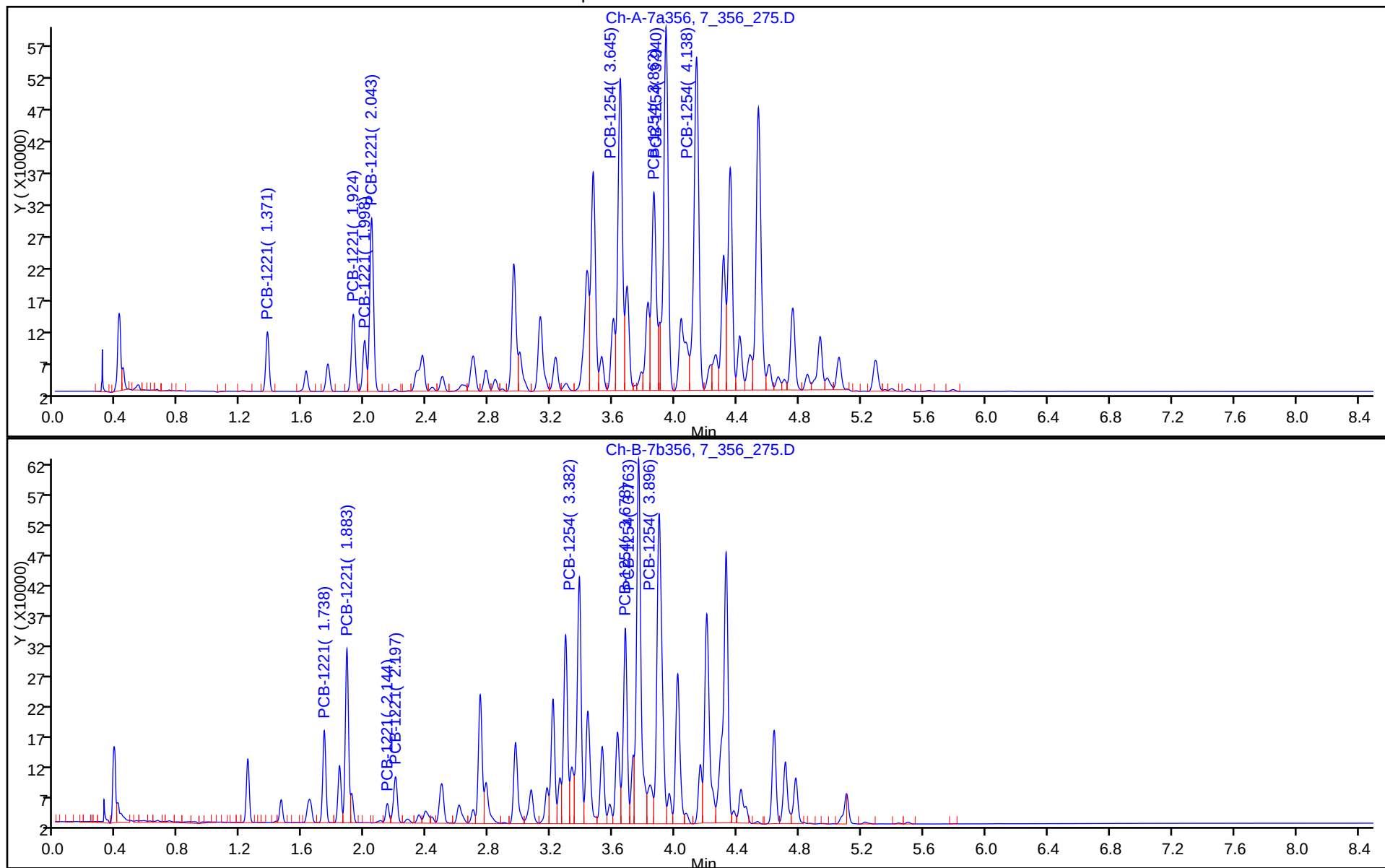
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_276.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Dec-2014 22:00:10 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub26
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:22:06 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: eversd Date: 10-Dec-2014 10:54:58

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

2 PCB-1221

1	1.372	1.372	0.000	9830	0.0200	0.0358	
1	1.926	1.926	0.000	12337	0.0200	0.0297	
1	1.999	1.999	0.000	7507	0.0200	0.0287	
1	2.043	2.043	0.000	27269	0.0200	0.0289	

Average of Peak Amounts = 0.0308

2	1.738	1.738	0.000	12743	0.0200	0.0297	
2	1.883	1.883	0.000	28573	0.0200	0.0336	
2	2.146	2.146	0.000	2667	0.0200	0.0278	
2	2.198	2.198	0.000	8000	0.0200	0.0300	

Average of Peak Amounts = 0.0303

RPD = 1.65

8 PCB-1254

1	3.645	3.645	0.000	54077	0.0200	0.0272	
1	3.863	3.863	0.000	34575	0.0200	0.0264	
1	3.940	3.940	0.000	60134	0.0200	0.0254	
1	4.137	4.137	0.000	60998	0.0200	0.0264	

Average of Peak Amounts = 0.0263

2	3.381	3.381	0.000	44876	0.0200	0.0295	
2	3.677	3.677	0.000	30354	0.0200	0.0271	
2	3.763	3.763	0.000	65158	0.0200	0.0270	
2	3.895	3.895	0.000	62336	0.0200	0.0265	

Average of Peak Amounts = 0.0275

RPD = 4.38

Reagents:

1221-1254 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_276.D

Injection Date: 09-Dec-2014 22:00:10

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 11

Client ID:

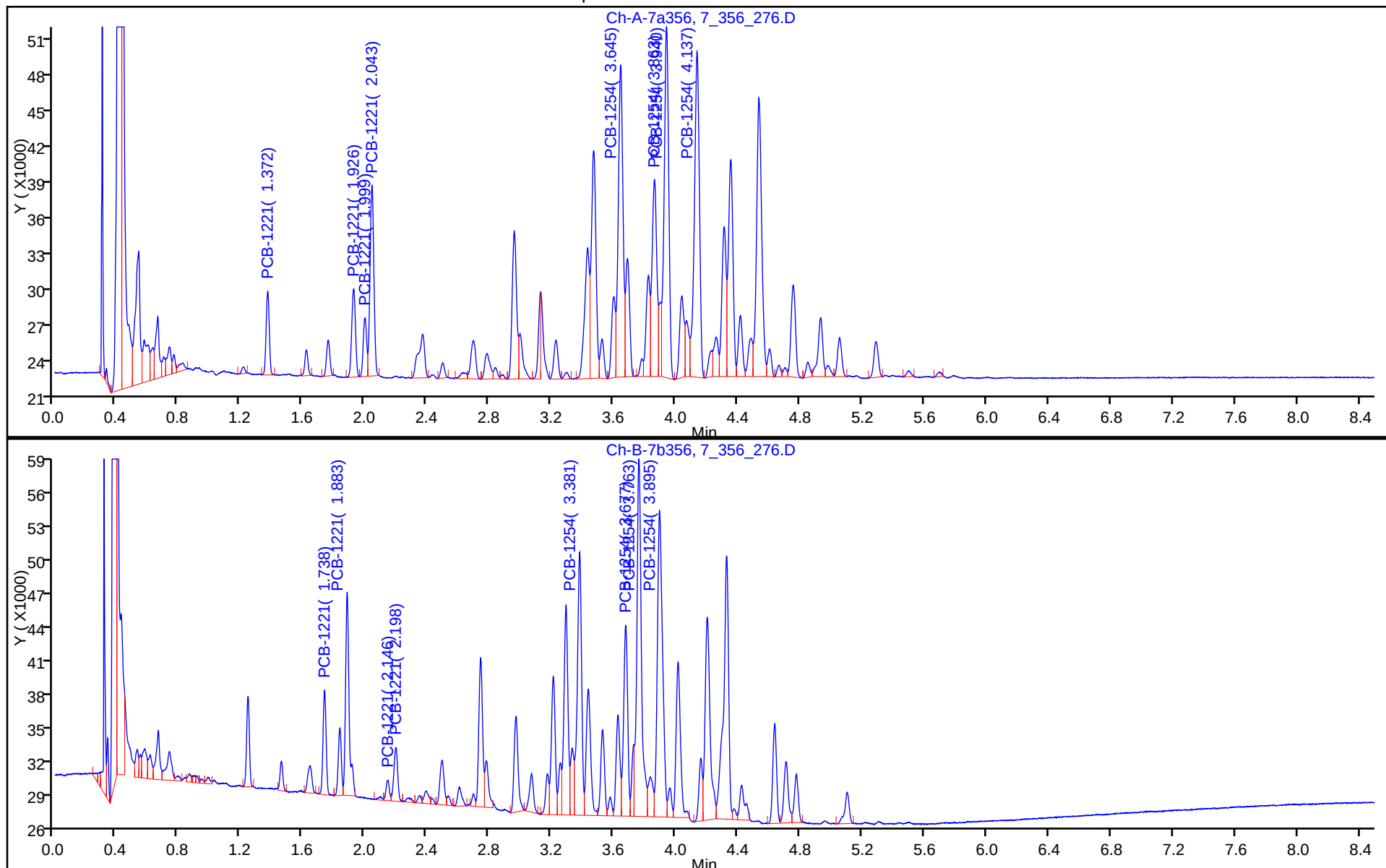
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 22:31 Calibration End Date: 12/09/2014 23:03 Calibration ID: 21439

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/15	7_356_280.D
Level 2	STD2 480-218106/14	7_356_279.D
Level 3	STD3 480-218106/13	7_356_278.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1232 Peak 1	+++++	2.358	+++++								2.323 - 2.383	2.358
PCB-1232 Peak 2	+++++	2.498	+++++								2.468 - 2.528	2.498
PCB-1232 Peak 3	+++++	2.695	+++++								2.667 - 2.727	2.695
PCB-1232 Peak 4	+++++	2.779	+++++								2.749 - 2.809	2.779
PCB-1262 Peak 1	+++++	4.665	+++++								4.632 - 4.692	4.665
PCB-1262 Peak 2	+++++	5.056	+++++								5.023 - 5.083	5.056
PCB-1262 Peak 3	+++++	5.353	+++++								5.321 - 5.381	5.353
PCB-1262 Peak 4	+++++	5.393	+++++								5.364 - 5.424	5.393

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 22:31 Calibration End Date: 12/09/2014 23:03 Calibration ID: 21439

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/15	7_356_280.D
Level 2	STD2 480-218106/14	7_356_279.D
Level 3	STD3 480-218106/13	7_356_278.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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	+++++	767982	+++++		Ave		767982.000						20.0			
PCB-1232 Peak 2	+++++	427316	+++++		Ave		427316.000						20.0			
PCB-1232 Peak 3	+++++	1354960	+++++		Ave		1354960.00						20.0			
PCB-1232 Peak 4	+++++	529292	+++++		Ave		529292.000						20.0			
PCB-1262 Peak 1	+++++	1970272	+++++		Ave		1970272.00						20.0			
PCB-1262 Peak 2	+++++	3502016	+++++		Ave		3502016.00						20.0			
PCB-1262 Peak 3	+++++	1308328	+++++		Ave		1308328.00						20.0			
PCB-1262 Peak 4	+++++	1347278	+++++		Ave		1347278.00						20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 22:31 Calibration End Date: 12/09/2014 23:03 Calibration ID: 21439

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/15	7_356_280.D
Level 2	STD2 480-218106/14	7_356_279.D
Level 3	STD3 480-218106/13	7_356_278.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	Ave	+++++	383991	+++++			+++++	0.500	+++++		
PCB-1232 Peak 2	Ave	+++++	213658	+++++			+++++	0.500	+++++		
PCB-1232 Peak 3	Ave	+++++	677480	+++++			+++++	0.500	+++++		
PCB-1232 Peak 4	Ave	+++++	264646	+++++			+++++	0.500	+++++		
PCB-1262 Peak 1	Ave	+++++	985136	+++++			+++++	0.500	+++++		
PCB-1262 Peak 2	Ave	+++++	1751008	+++++			+++++	0.500	+++++		
PCB-1262 Peak 3	Ave	+++++	654164	+++++			+++++	0.500	+++++		
PCB-1262 Peak 4	Ave	+++++	673639	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_278.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Dec-2014 22:31:57 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:54 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: larsonj Date: 10-Dec-2014 11:19:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

5 PCB-1232

1	2.354	2.353	0.002	1305677	2.00	1.70	M
1	2.498	2.498	0.000	764065	2.00	1.79	M
1	2.697	2.697	0.000	2602203	2.00	1.92	M
1	2.780	2.779	0.001	981982	2.00	1.86	M

Average of Peak Amounts = 1.82

2	1.883	1.883	0.001	1341436	2.00	1.68	a
2	2.192	2.192	0.000	1237368	2.00	1.73	a
2	2.495	2.493	0.002	2426476	2.00	1.86	a
2	2.697	2.696	0.001	633364	2.00	1.76	a

Average of Peak Amounts = 1.76

RPD = 3.22

10 PCB-1262

1	4.664	4.662	0.002	3912762	2.00	1.99	a
1	5.056	5.053	0.003	7031792	2.00	2.01	a
1	5.353	5.351	0.001	2634996	2.00	2.01	a
1	5.394	5.394	0.000	2723382	2.00	2.02	a

Average of Peak Amounts = 2.01

2	4.378	4.377	0.001	3572773	2.00	1.98	a
2	4.637	4.635	0.002	3241189	2.00	1.99	a
2	4.775	4.773	0.002	7176212	2.00	2.03	a
2	5.068	5.068	0.000	2767843	2.00	2.01	a

Average of Peak Amounts = 2.00

RPD = 0.27

Reagents:

1232-1262 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_278.D

Injection Date: 09-Dec-2014 22:31:57

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 13

Client ID:

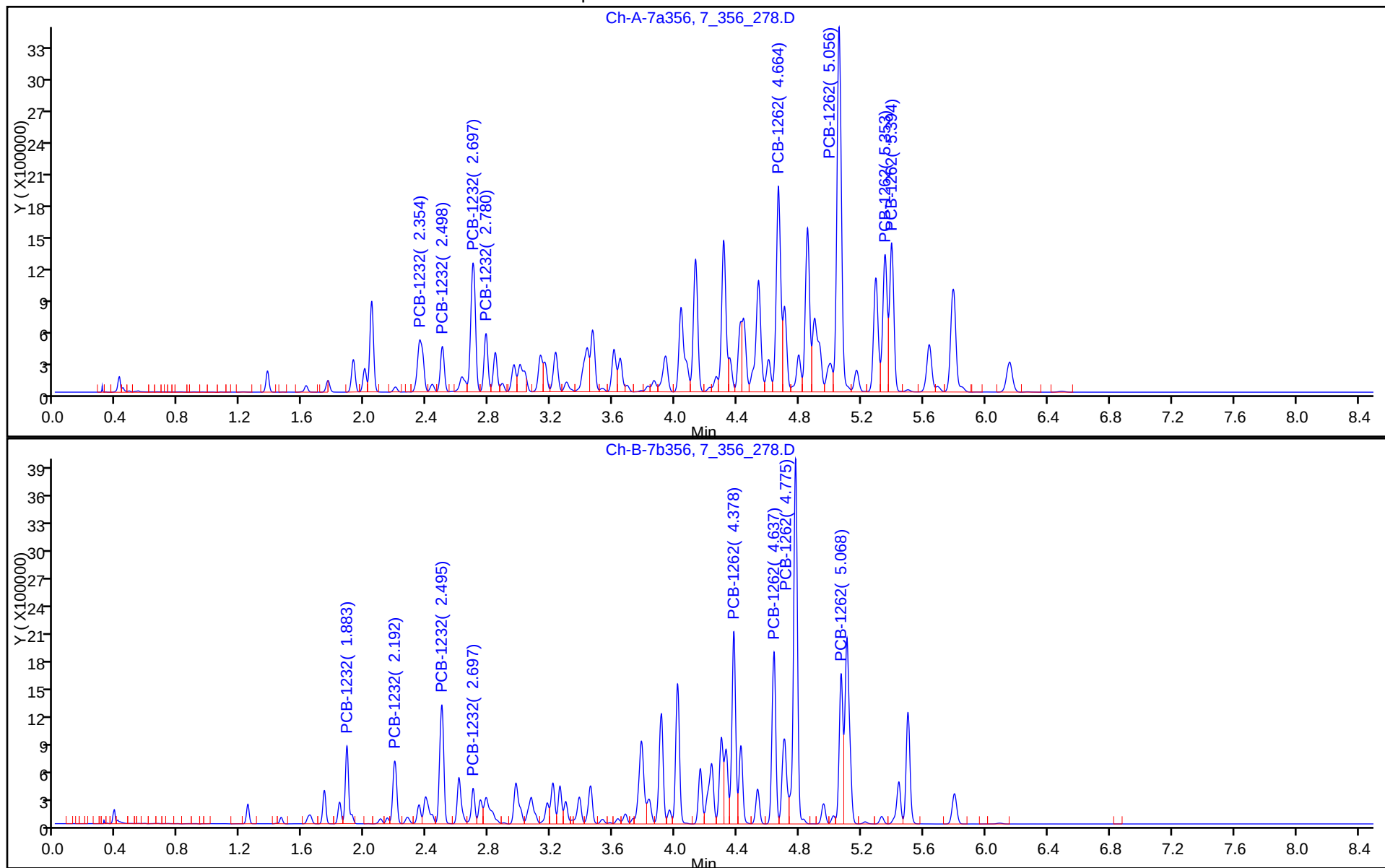
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_279.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Dec-2014 22:47:46 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:56 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: larsonj Date: 10-Dec-2014 11:24:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

5 PCB-1232

1	2.358	2.353	0.006	383991	0.5000	0.5000	
1	2.498	2.498	0.000	213658	0.5000	0.5000	
1	2.695	2.697	-0.002	677480	0.5000	0.5000	
1	2.779	2.779	0.000	264646	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.883	1.883	0.000	398250	0.5000	0.5000	
2	2.192	2.192	0.000	357347	0.5000	0.5000	
2	2.495	2.493	0.002	651487	0.5000	0.5000	
2	2.698	2.696	0.002	180335	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

10 PCB-1262

1	4.665	4.662	0.003	985136	0.5000	0.5000	a
1	5.056	5.053	0.003	1751008	0.5000	0.5000	
1	5.353	5.351	0.001	654164	0.5000	0.5000	
1	5.393	5.394	-0.001	673639	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	4.378	4.377	0.001	902429	0.5000	0.5000	
2	4.635	4.635	0.000	814834	0.5000	0.5000	
2	4.775	4.773	0.002	1764935	0.5000	0.5000	
2	5.068	5.068	0.000	689882	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1232-1262 2.0_00003

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_279.D

Injection Date: 09-Dec-2014 22:47:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 14

Client ID:

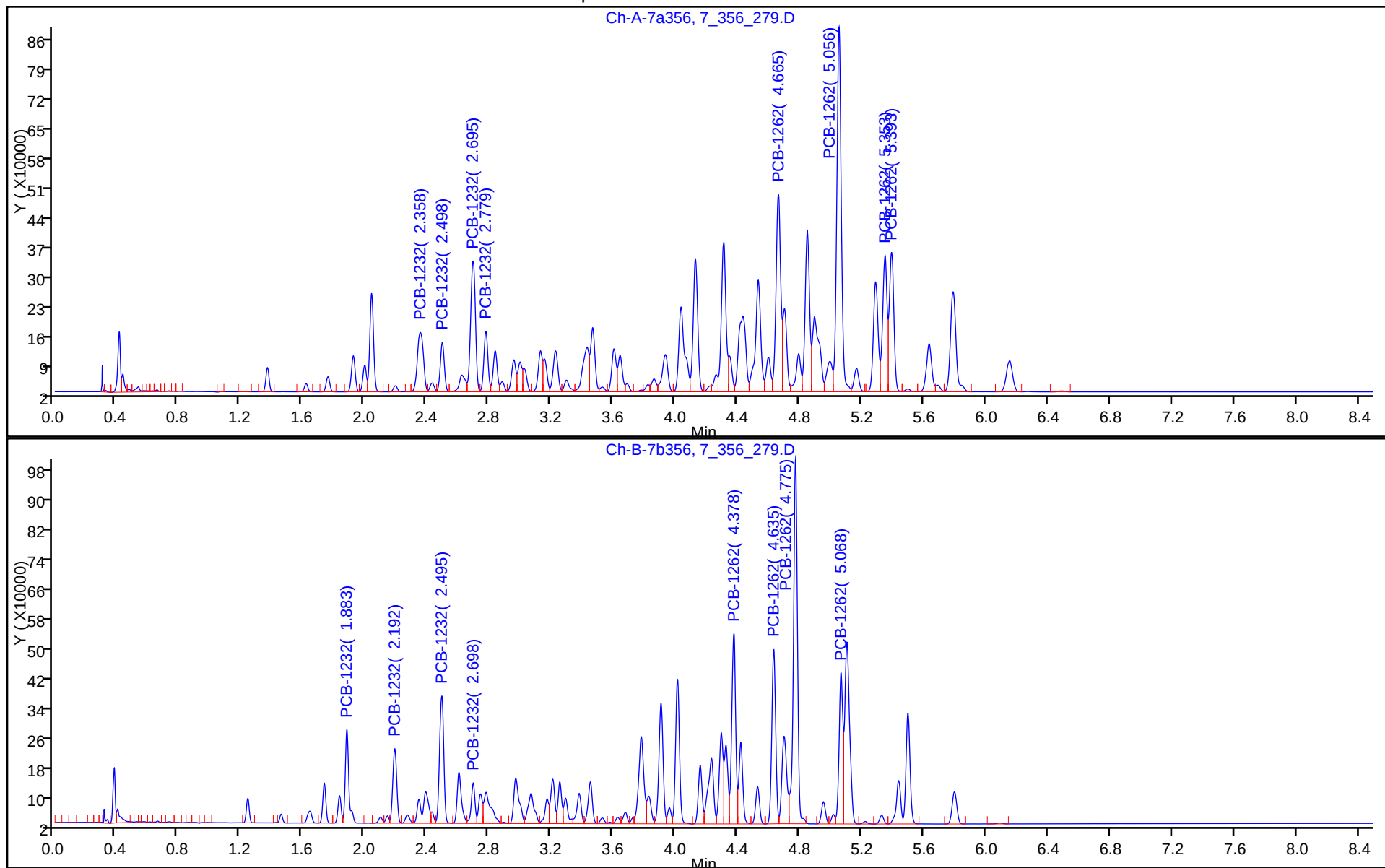
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_280.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Dec-2014 23:03:35 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:58 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 11:23:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232

1	2.353	2.353	0.000	23641	0.0200	0.0308	a
1	2.498	2.498	0.000	12367	0.0200	0.0289	a
1	2.697	2.697	0.000	36260	0.0200	0.0268	M
1	2.779	2.779	0.000	16406	0.0200	0.0310	M

Average of Peak Amounts = 0.0294

2	1.883	1.883	0.000	24032	0.0200	0.0302	a
2	2.192	2.192	0.000	21871	0.0200	0.0306	a
2	2.493	2.493	0.000	38105	0.0200	0.0292	a
2	2.696	2.696	0.000	9003	0.0200	0.0250	a

Average of Peak Amounts = 0.0287

RPD = 2.15

10 PCB-1262

1	4.662	4.662	0.000	54068	0.0200	0.0274	a
1	5.053	5.053	0.000	86850	0.0200	0.0248	a
1	5.351	5.351	0.000	37196	0.0200	0.0284	a
1	5.394	5.394	0.000	37971	0.0200	0.0282	a

Average of Peak Amounts = 0.0272

2	4.377	4.377	0.000	47965	0.0200	0.0266	a
2	4.635	4.635	0.000	43067	0.0200	0.0264	a
2	4.773	4.773	0.000	85901	0.0200	0.0243	M
2	5.068	5.068	0.000	36373	0.0200	0.0264	a

Average of Peak Amounts = 0.0259

RPD = 4.85

Reagents:

1232-1262 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_280.D

Injection Date: 09-Dec-2014 23:03:35

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 15

Client ID:

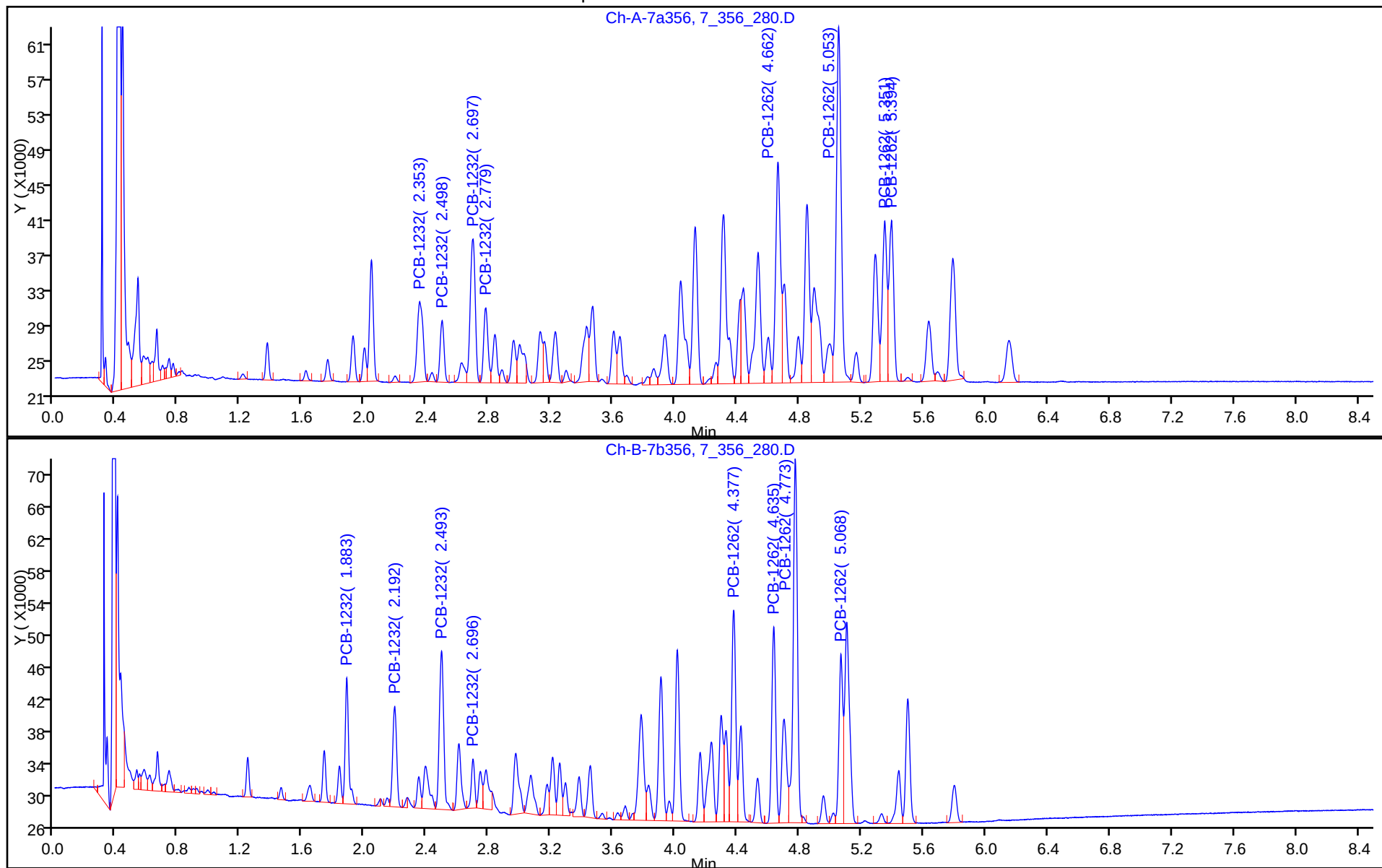
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 22:31 Calibration End Date: 12/09/2014 23:03 Calibration ID: 21440

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/15	7_356_280.D
Level 2	STD2 480-218106/14	7_356_279.D
Level 3	STD3 480-218106/13	7_356_278.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1232 Peak 1	+++++	1.883	+++++								1.853 - 1.913	1.883
PCB-1232 Peak 2	+++++	2.192	+++++								2.162 - 2.222	2.192
PCB-1232 Peak 3	+++++	2.495	+++++								2.463 - 2.523	2.495
PCB-1232 Peak 4	+++++	2.698	+++++								2.666 - 2.726	2.698
PCB-1262 Peak 1	+++++	4.378	+++++								4.347 - 4.407	4.378
PCB-1262 Peak 2	+++++	4.635	+++++								4.605 - 4.665	4.635
PCB-1262 Peak 3	+++++	4.775	+++++								4.743 - 4.803	4.775
PCB-1262 Peak 4	+++++	5.068	+++++								5.038 - 5.098	5.068

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 22:31 Calibration End Date: 12/09/2014 23:03 Calibration ID: 21440

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/15	7_356_280.D
Level 2	STD2 480-218106/14	7_356_279.D
Level 3	STD3 480-218106/13	7_356_278.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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	+++++	796500	+++++		Ave		796500.000						20.0			
PCB-1232 Peak 2	+++++	714694	+++++		Ave		714694.000						20.0			
PCB-1232 Peak 3	+++++	1302974	+++++		Ave		1302974.00						20.0			
PCB-1232 Peak 4	+++++	360670	+++++		Ave		360670.000						20.0			
PCB-1262 Peak 1	+++++	1804858	+++++		Ave		1804858.00						20.0			
PCB-1262 Peak 2	+++++	1629668	+++++		Ave		1629668.00						20.0			
PCB-1262 Peak 3	+++++	3529870	+++++		Ave		3529870.00						20.0			
PCB-1262 Peak 4	+++++	1379764	+++++		Ave		1379764.00						20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 22:31 Calibration End Date: 12/09/2014 23:03 Calibration ID: 21440

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/15	7_356_280.D
Level 2	STD2 480-218106/14	7_356_279.D
Level 3	STD3 480-218106/13	7_356_278.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1232 Peak 1	Ave	+++++	398250	+++++			+++++	0.500	+++++		
PCB-1232 Peak 2	Ave	+++++	357347	+++++			+++++	0.500	+++++		
PCB-1232 Peak 3	Ave	+++++	651487	+++++			+++++	0.500	+++++		
PCB-1232 Peak 4	Ave	+++++	180335	+++++			+++++	0.500	+++++		
PCB-1262 Peak 1	Ave	+++++	902429	+++++			+++++	0.500	+++++		
PCB-1262 Peak 2	Ave	+++++	814834	+++++			+++++	0.500	+++++		
PCB-1262 Peak 3	Ave	+++++	1764935	+++++			+++++	0.500	+++++		
PCB-1262 Peak 4	Ave	+++++	689882	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_278.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Dec-2014 22:31:57 ALS Bottle#: 0 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:54 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 11:19:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

5 PCB-1232

1	2.354	2.353	0.002	1305677	2.00	1.70	M
1	2.498	2.498	0.000	764065	2.00	1.79	M
1	2.697	2.697	0.000	2602203	2.00	1.92	M
1	2.780	2.779	0.001	981982	2.00	1.86	M

Average of Peak Amounts = 1.82

2	1.883	1.883	0.001	1341436	2.00	1.68	a
2	2.192	2.192	0.000	1237368	2.00	1.73	a
2	2.495	2.493	0.002	2426476	2.00	1.86	a
2	2.697	2.696	0.001	633364	2.00	1.76	a

Average of Peak Amounts = 1.76

RPD = 3.22

10 PCB-1262

1	4.664	4.662	0.002	3912762	2.00	1.99	a
1	5.056	5.053	0.003	7031792	2.00	2.01	a
1	5.353	5.351	0.001	2634996	2.00	2.01	a
1	5.394	5.394	0.000	2723382	2.00	2.02	a

Average of Peak Amounts = 2.01

2	4.378	4.377	0.001	3572773	2.00	1.98	a
2	4.637	4.635	0.002	3241189	2.00	1.99	a
2	4.775	4.773	0.002	7176212	2.00	2.03	a
2	5.068	5.068	0.000	2767843	2.00	2.01	a

Average of Peak Amounts = 2.00

RPD = 0.27

Reagents:

1232-1262 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_278.D

Injection Date: 09-Dec-2014 22:31:57

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 13

Client ID:

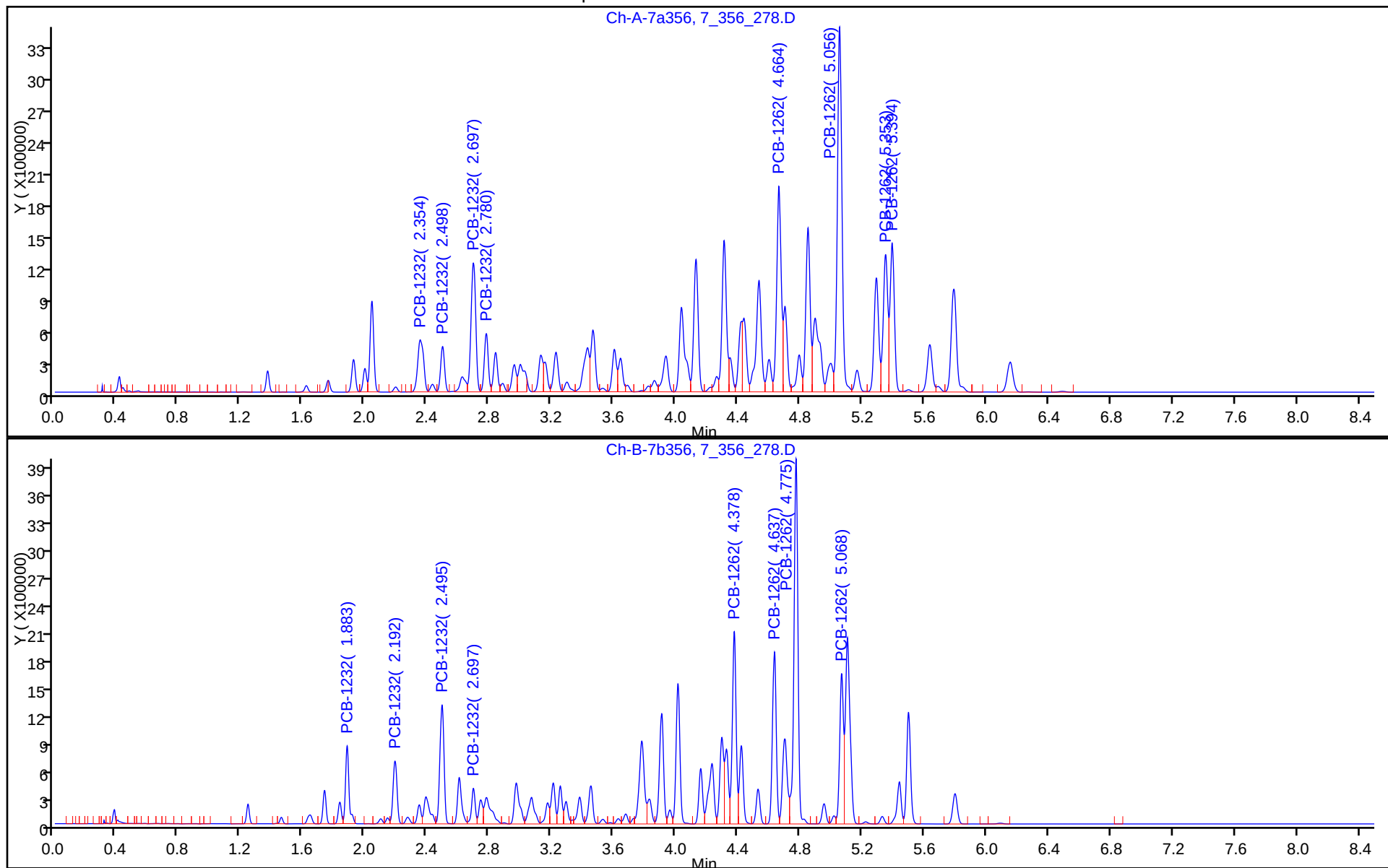
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_279.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Dec-2014 22:47:46 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:56 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 11:24:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

5 PCB-1232

1	2.358	2.353	0.006	383991	0.5000	0.5000	
1	2.498	2.498	0.000	213658	0.5000	0.5000	
1	2.695	2.697	-0.002	677480	0.5000	0.5000	
1	2.779	2.779	0.000	264646	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.883	1.883	0.000	398250	0.5000	0.5000	
2	2.192	2.192	0.000	357347	0.5000	0.5000	
2	2.495	2.493	0.002	651487	0.5000	0.5000	
2	2.698	2.696	0.002	180335	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

10 PCB-1262

1	4.665	4.662	0.003	985136	0.5000	0.5000	a
1	5.056	5.053	0.003	1751008	0.5000	0.5000	
1	5.353	5.351	0.001	654164	0.5000	0.5000	
1	5.393	5.394	-0.001	673639	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	4.378	4.377	0.001	902429	0.5000	0.5000	
2	4.635	4.635	0.000	814834	0.5000	0.5000	
2	4.775	4.773	0.002	1764935	0.5000	0.5000	
2	5.068	5.068	0.000	689882	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1232-1262 2.0_00003

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_279.D

Injection Date: 09-Dec-2014 22:47:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 14

Client ID:

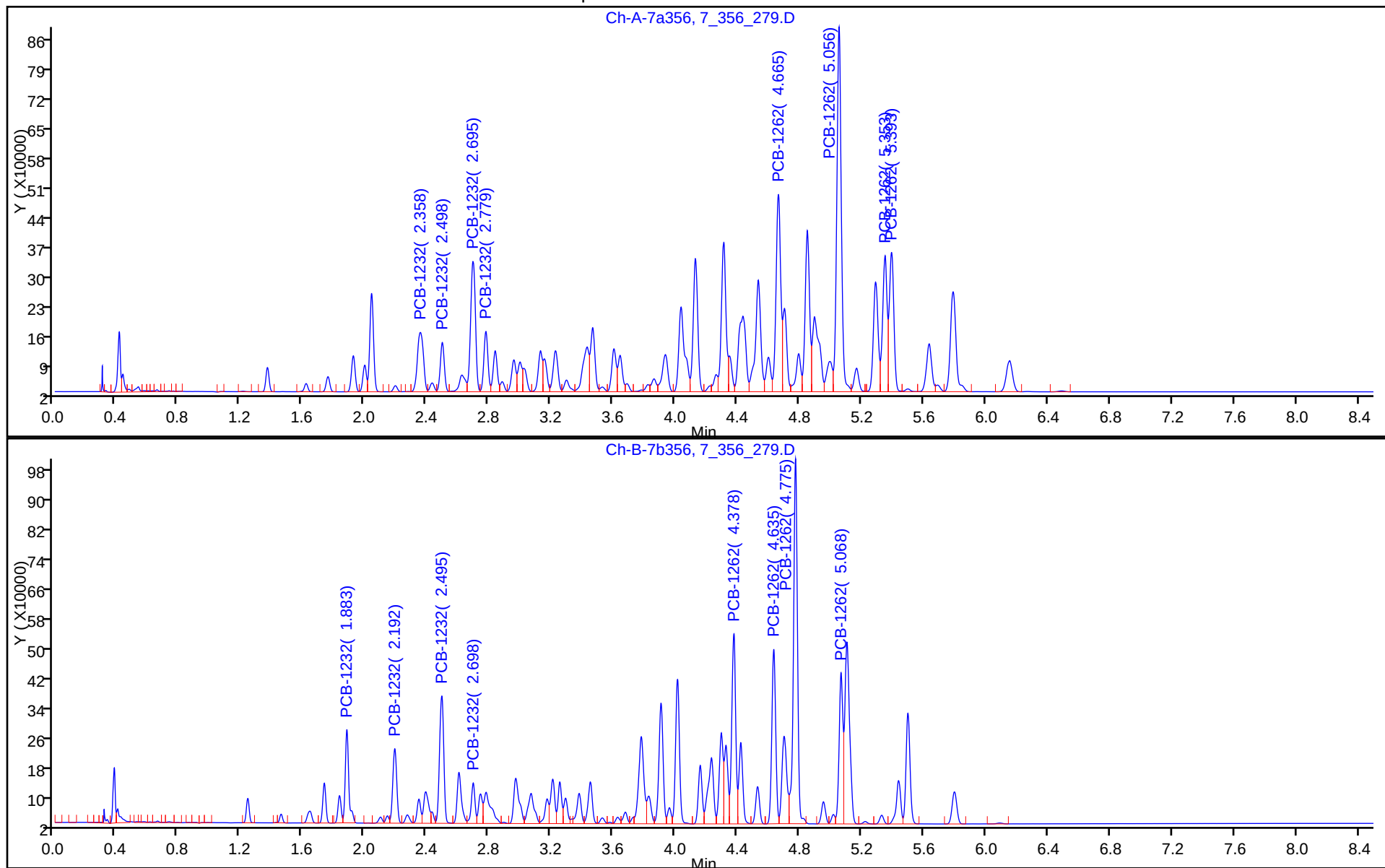
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_280.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 09-Dec-2014 23:03:35 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:58 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 11:23:16

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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5 PCB-1232

1	2.353	2.353	0.000	23641	0.0200	0.0308	a
1	2.498	2.498	0.000	12367	0.0200	0.0289	a
1	2.697	2.697	0.000	36260	0.0200	0.0268	M
1	2.779	2.779	0.000	16406	0.0200	0.0310	M

Average of Peak Amounts = 0.0294

2	1.883	1.883	0.000	24032	0.0200	0.0302	a
2	2.192	2.192	0.000	21871	0.0200	0.0306	a
2	2.493	2.493	0.000	38105	0.0200	0.0292	a
2	2.696	2.696	0.000	9003	0.0200	0.0250	a

Average of Peak Amounts = 0.0287

RPD = 2.15

10 PCB-1262

1	4.662	4.662	0.000	54068	0.0200	0.0274	a
1	5.053	5.053	0.000	86850	0.0200	0.0248	a
1	5.351	5.351	0.000	37196	0.0200	0.0284	a
1	5.394	5.394	0.000	37971	0.0200	0.0282	a

Average of Peak Amounts = 0.0272

2	4.377	4.377	0.000	47965	0.0200	0.0266	a
2	4.635	4.635	0.000	43067	0.0200	0.0264	a
2	4.773	4.773	0.000	85901	0.0200	0.0243	M
2	5.068	5.068	0.000	36373	0.0200	0.0264	a

Average of Peak Amounts = 0.0259

RPD = 4.85

Reagents:

1232-1262 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_280.D

Injection Date: 09-Dec-2014 23:03:35

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 15

Client ID:

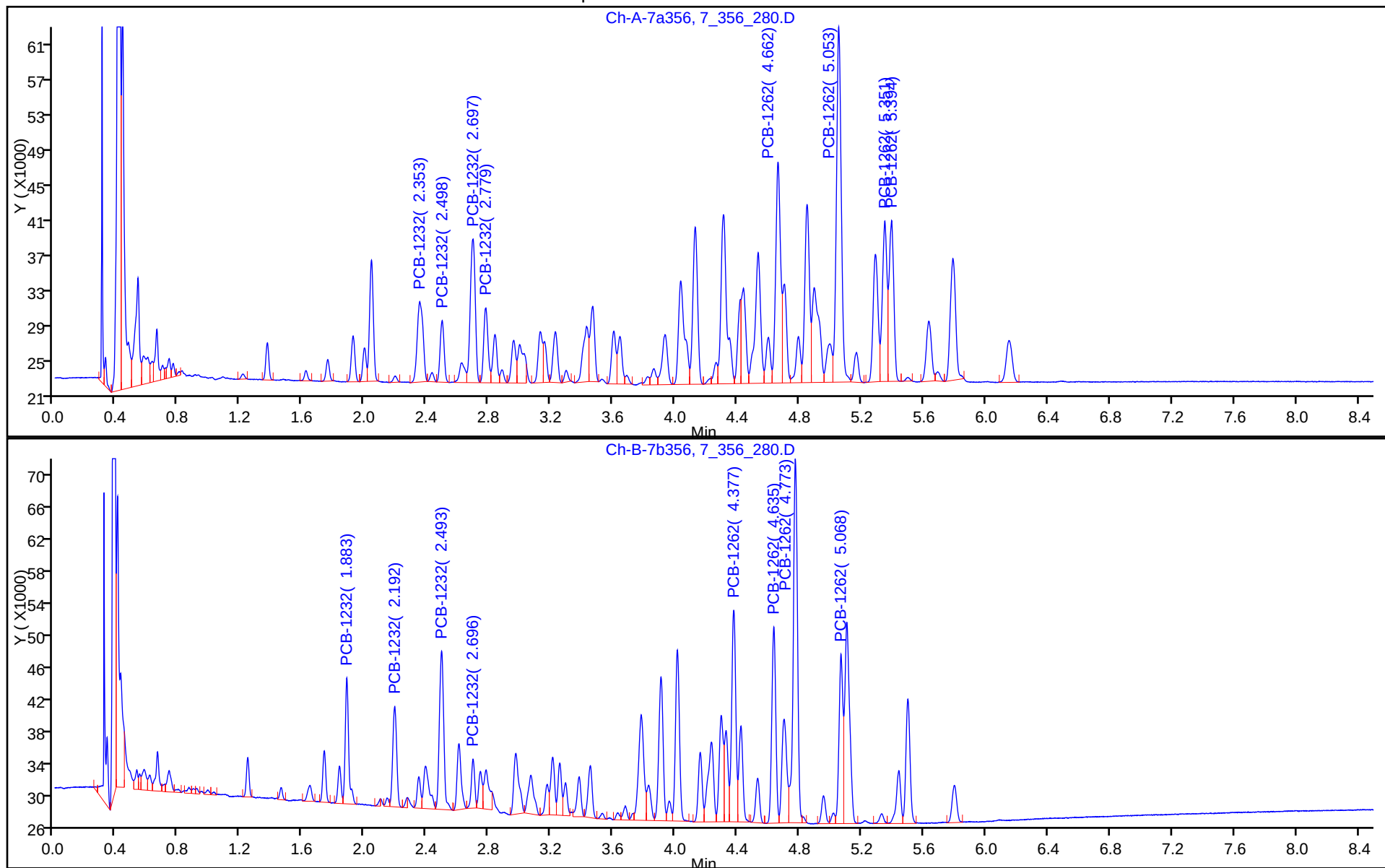
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 23:35 Calibration End Date: 12/10/2014 00:06 Calibration ID: 21445

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/19	7_356_284.D
Level 2	STD2 480-218106/18	7_356_283.D
Level 3	STD3 480-218106/17	7_356_282.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1242 Peak 1	+++++	2.696	+++++								2.667 - 2.727	2.696
PCB-1242 Peak 2	+++++	3.131	+++++								3.101 - 3.161	3.131
PCB-1242 Peak 3	+++++	3.228	+++++								3.198 - 3.258	3.228
PCB-1242 Peak 4	+++++	3.431	+++++								3.400 - 3.460	3.431
PCB-1268 Peak 1	+++++	5.353	+++++								5.322 - 5.382	5.353
PCB-1268 Peak 2	+++++	5.393	+++++								5.363 - 5.423	5.393
PCB-1268 Peak 3	+++++	6.154	+++++								6.124 - 6.184	6.154
PCB-1268 Peak 4	+++++	6.490	+++++								6.461 - 6.521	6.490

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 23:35 Calibration End Date: 12/10/2014 00:06 Calibration ID: 21445

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/19	7_356_284.D
Level 2	STD2 480-218106/18	7_356_283.D
Level 3	STD3 480-218106/17	7_356_282.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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	+++++	2413852	+++++		Ave		2413852.00						20.0			
PCB-1242 Peak 2	+++++	667754	+++++		Ave		667754.000						20.0			
PCB-1242 Peak 3	+++++	777128	+++++		Ave		777128.000						20.0			
PCB-1242 Peak 4	+++++	1105530	+++++		Ave		1105530.00						20.0			
PCB-1268 Peak 1	+++++	3829194	+++++		Ave		3829194.00						20.0			
PCB-1268 Peak 2	+++++	3429550	+++++		Ave		3429550.00						20.0			
PCB-1268 Peak 3	+++++	9306286	+++++		Ave		9306286.00						20.0			
PCB-1268 Peak 4	+++++	1841198	+++++		Ave		1841198.00						20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 23:35 Calibration End Date: 12/10/2014 00:06 Calibration ID: 21445

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/19	7_356_284.D
Level 2	STD2 480-218106/18	7_356_283.D
Level 3	STD3 480-218106/17	7_356_282.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	Ave	+++++	1206926	+++++			+++++	0.500	+++++		
PCB-1242 Peak 2	Ave	+++++	333877	+++++			+++++	0.500	+++++		
PCB-1242 Peak 3	Ave	+++++	388564	+++++			+++++	0.500	+++++		
PCB-1242 Peak 4	Ave	+++++	552765	+++++			+++++	0.500	+++++		
PCB-1268 Peak 1	Ave	+++++	1914597	+++++			+++++	0.500	+++++		
PCB-1268 Peak 2	Ave	+++++	1714775	+++++			+++++	0.500	+++++		
PCB-1268 Peak 3	Ave	+++++	4653143	+++++			+++++	0.500	+++++		
PCB-1268 Peak 4	Ave	+++++	920599	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_282.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Dec-2014 23:35:24 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:48 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 11:51:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	2.698	2.697	0.001	4704912	2.00	1.95	a
1	3.131	3.131	0.000	1358263	2.00	2.03	a
1	3.228	3.228	0.000	1599816	2.00	2.06	a
1	3.432	3.430	0.002	2314441	2.00	2.09	a

Average of Peak Amounts = 2.03

2	2.494	2.493	0.002	4316599	2.00	1.87	a
2	2.605	2.605	0.000	1667201	2.00	1.82	a
2	2.971	2.972	-0.001	2027462	2.00	1.83	a
2	3.256	3.255	0.001	1373084	2.00	1.90	a

Average of Peak Amounts = 1.85

RPD = 9.24

11 PCB-1268

1	5.352	5.352	0.000	7841956	2.00	2.05	a
1	5.395	5.393	0.002	7025266	2.00	2.05	a
1	6.153	6.154	-0.002	18872329	2.00	2.03	a
1	6.491	6.491	0.000	3616003	2.00	1.96	a

Average of Peak Amounts = 2.02

2	5.068	5.068	0.000	7537142	2.00	2.09	a
2	5.106	5.106	0.000	6622327	2.00	2.05	a
2	5.329	5.331	-0.002	5480112	2.00	2.07	a
2	5.799	5.798	0.001	18344200	2.00	2.11	a

Average of Peak Amounts = 2.08

RPD = 2.80

Reagents:

1242-1268 2.0_00004

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_282.D

Injection Date: 09-Dec-2014 23:35:24

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 17

Client ID:

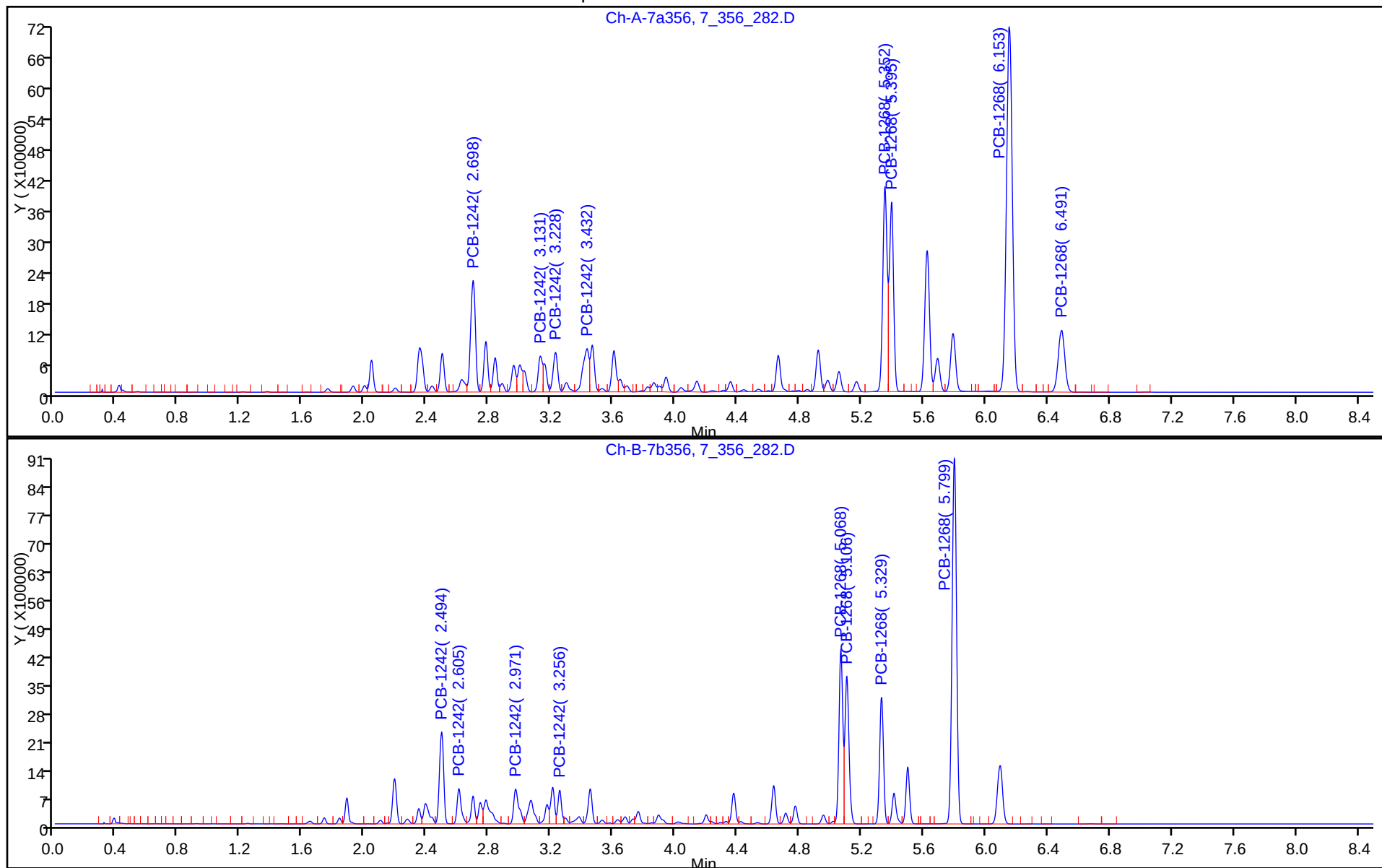
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_283.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Dec-2014 23:51:10 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:50 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: larsonj Date: 10-Dec-2014 11:53:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	2.696	2.697	-0.001	1206926	0.5000	0.5000	M
1	3.131	3.131	0.000	333877	0.5000	0.5000	M
1	3.228	3.228	0.000	388564	0.5000	0.5000	M
1	3.431	3.430	0.001	552765	0.5000	0.5000	M

Average of Peak Amounts = 0.5000

2	2.494	2.493	0.002	1156230	0.5000	0.5000	
2	2.606	2.605	0.001	457028	0.5000	0.5000	
2	2.972	2.972	0.000	553987	0.5000	0.5000	
2	3.256	3.255	0.001	362048	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

11 PCB-1268

1	5.353	5.352	0.001	1914597	0.5000	0.5000	
1	5.393	5.393	-0.001	1714775	0.5000	0.5000	
1	6.154	6.154	0.000	4653143	0.5000	0.5000	
1	6.490	6.491	-0.001	920599	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	5.068	5.068	0.000	1802855	0.5000	0.5000	
2	5.107	5.106	0.001	1616944	0.5000	0.5000	
2	5.332	5.331	0.001	1325948	0.5000	0.5000	
2	5.801	5.798	0.003	4340069	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1242-1268 2.0_00004

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_283.D

Injection Date: 09-Dec-2014 23:51:10

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 18

Client ID:

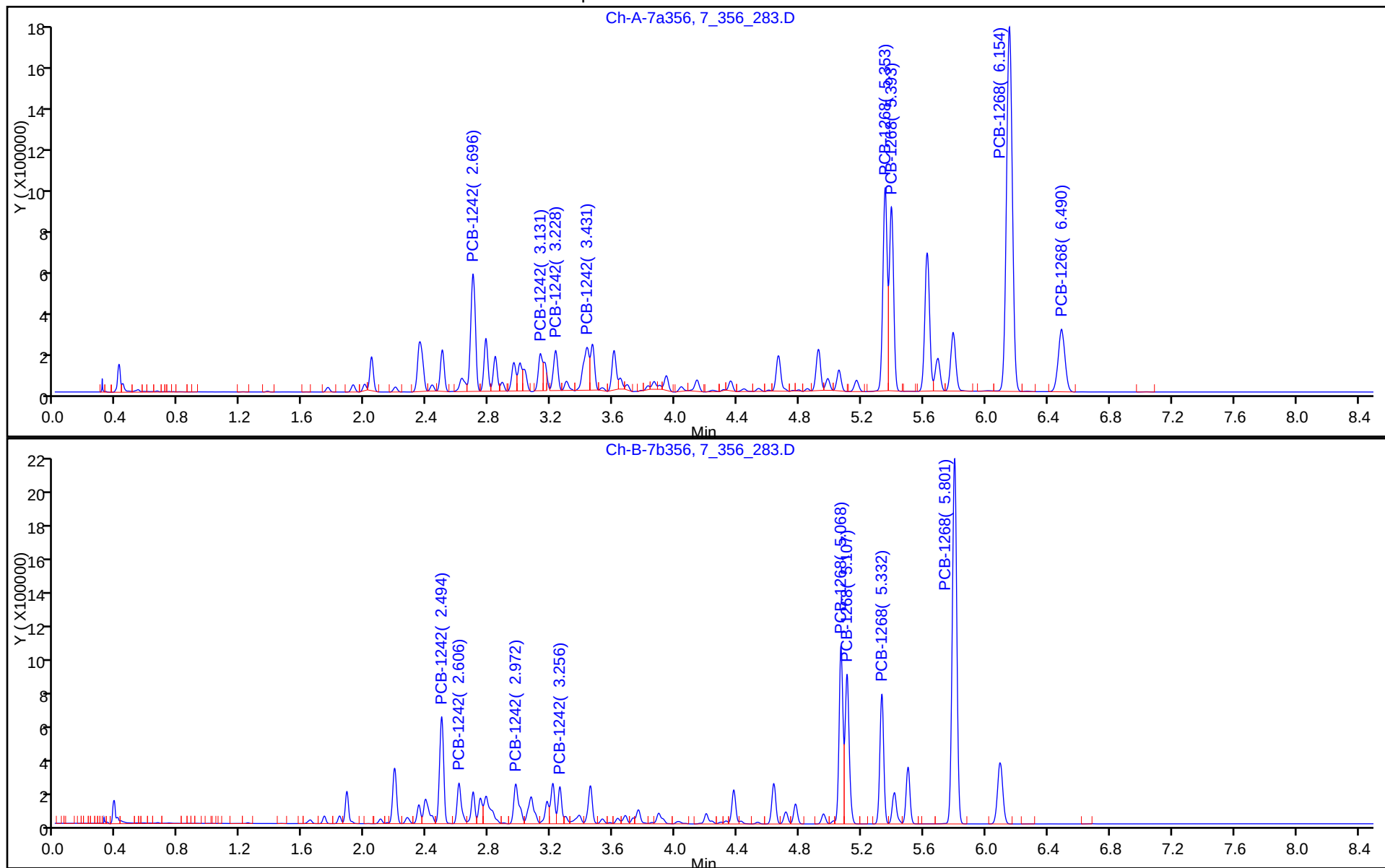
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_283.D

Injection Date: 09-Dec-2014 23:51:10

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 18

Injection Vol: 1.0 ul

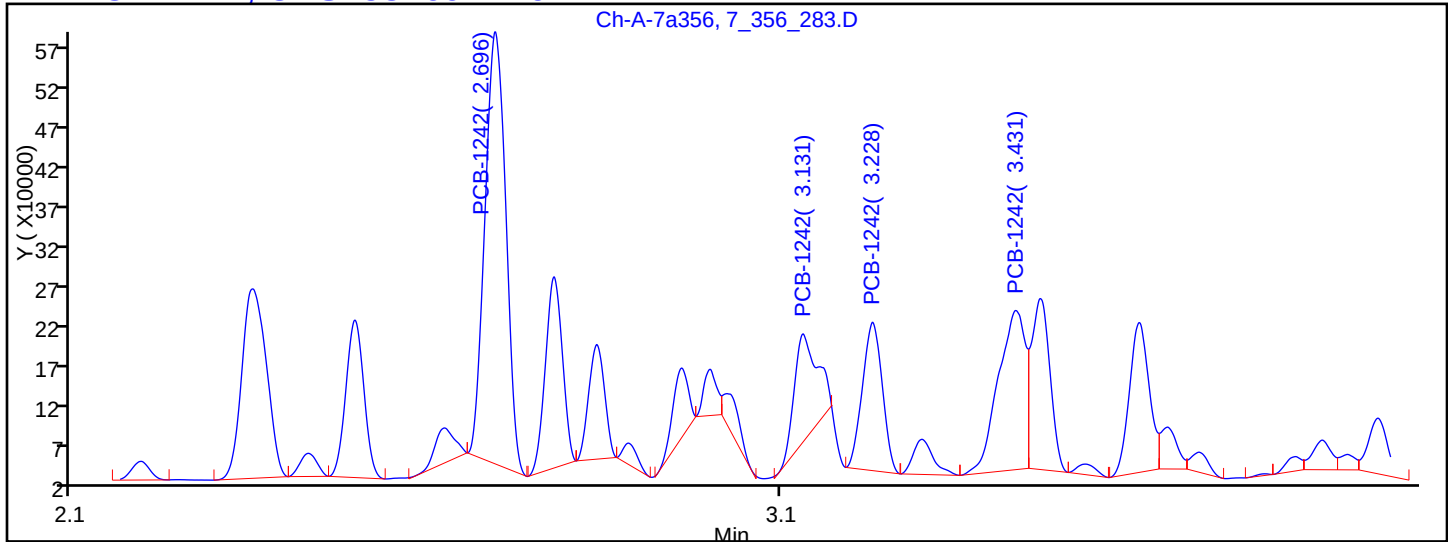
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

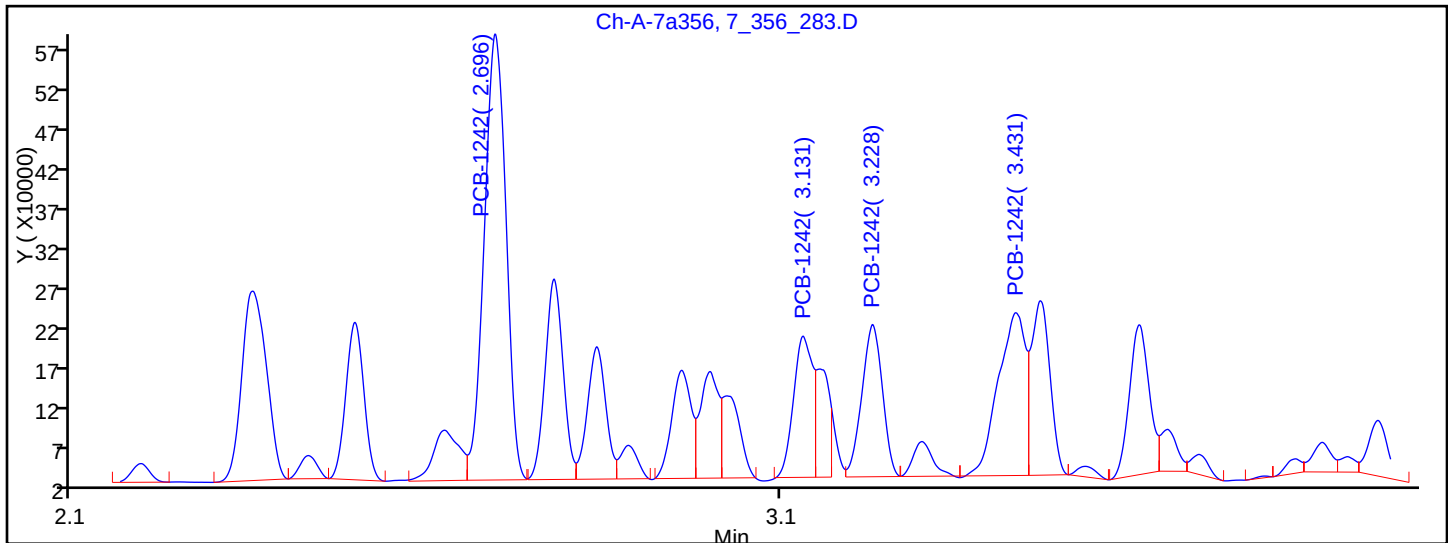
Column:

Detector Ch-A-7A136

4 PCB-1242, CAS: 53469-21-9

Processing Integration Results

RT = 2.696	Response = 1123225	M
RT = 3.131	Response = 302703	M
RT = 3.228	Response = 366235	M
RT = 3.431	Response = 541075	M



Manual Integration Results

RT = 2.696	Response = 1206926	M
RT = 3.131	Response = 333877	M
RT = 3.228	Response = 388564	M
RT = 3.431	Response = 552765	M

Reviewer: larsonj, 10-Dec-2014 11:53:36

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_284.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Dec-2014 00:06:57 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:52 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 11:54:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

							M
1	2.697	2.697	0.000	62099	0.0200	0.0257	M
1	3.131	3.131	0.000	21521	0.0200	0.0322	
1	3.228	3.228	0.000	23956	0.0200	0.0308	
1	3.430	3.430	0.000	33390	0.0200	0.0302	
Average of Peak Amounts =						0.0297	
2	2.493	2.493	0.000	64660	0.0200	0.0280	
2	2.605	2.605	0.000	26930	0.0200	0.0295	
2	2.972	2.972	0.000	33496	0.0200	0.0302	
2	3.255	3.255	0.000	20696	0.0200	0.0286	
Average of Peak Amounts =						0.0291	
						RPD = 2.34	

11 PCB-1268

1	5.352	5.352	0.000	94027	0.0200	0.0246	
1	5.393	5.393	0.000	82830	0.0200	0.0242	
1	6.154	6.154	0.000	213113	0.0200	0.0229	
1	6.491	6.491	0.000	55248	0.0200	0.0300	
Average of Peak Amounts =						0.0254	
2	5.068	5.068	0.000	86145	0.0200	0.0239	
2	5.106	5.106	0.000	78404	0.0200	0.0242	
2	5.331	5.331	0.000	64532	0.0200	0.0243	
2	5.798	5.798	0.000	187284	0.0200	0.0216	
Average of Peak Amounts =						0.0235	
						RPD = 7.74	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1242-1268 2.0_00004

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_284.D

Injection Date: 10-Dec-2014 00:06:57

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 19

Client ID:

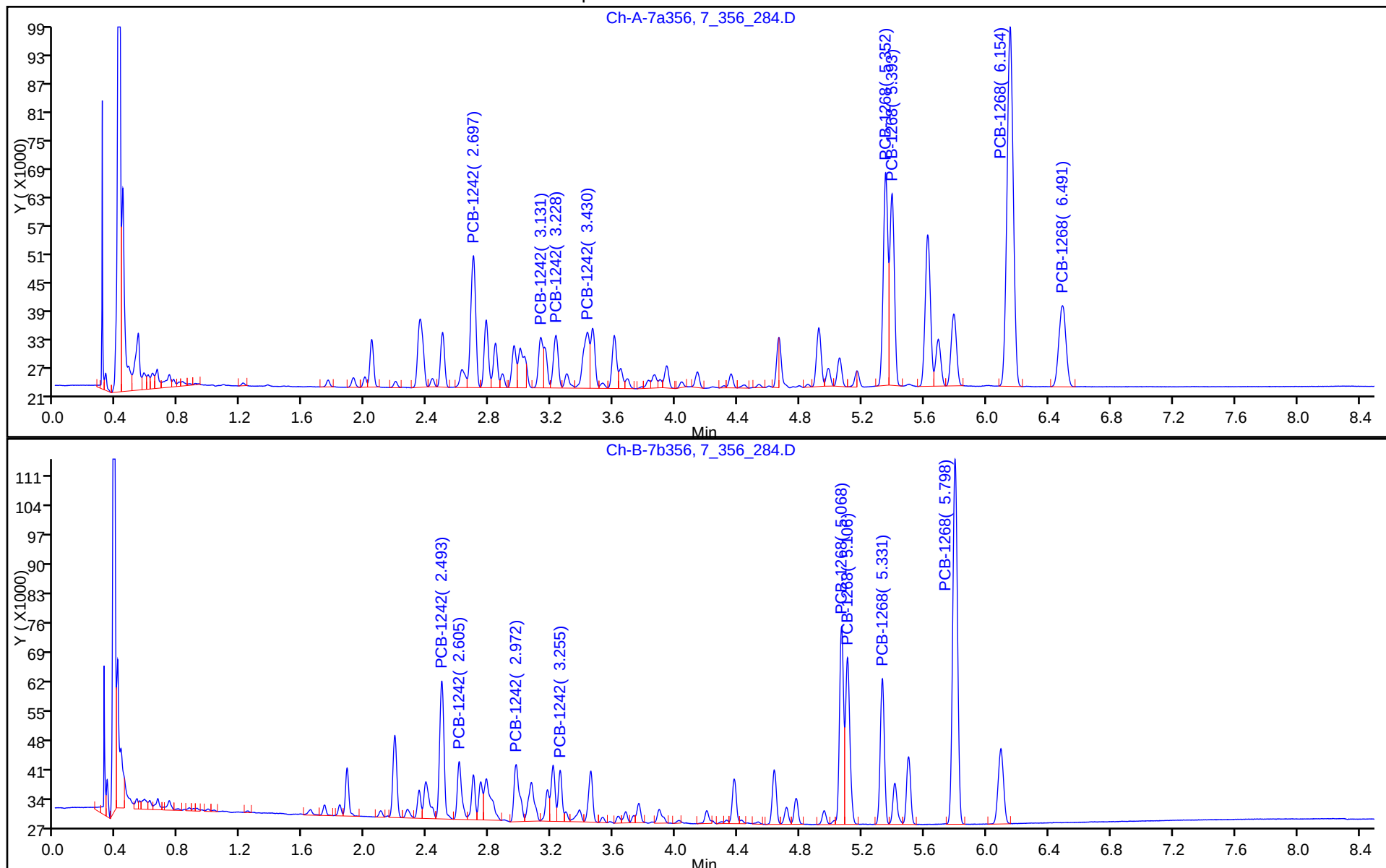
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_284.D

Injection Date: 10-Dec-2014 00:06:57

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 19

Injection Vol: 1.0 ul

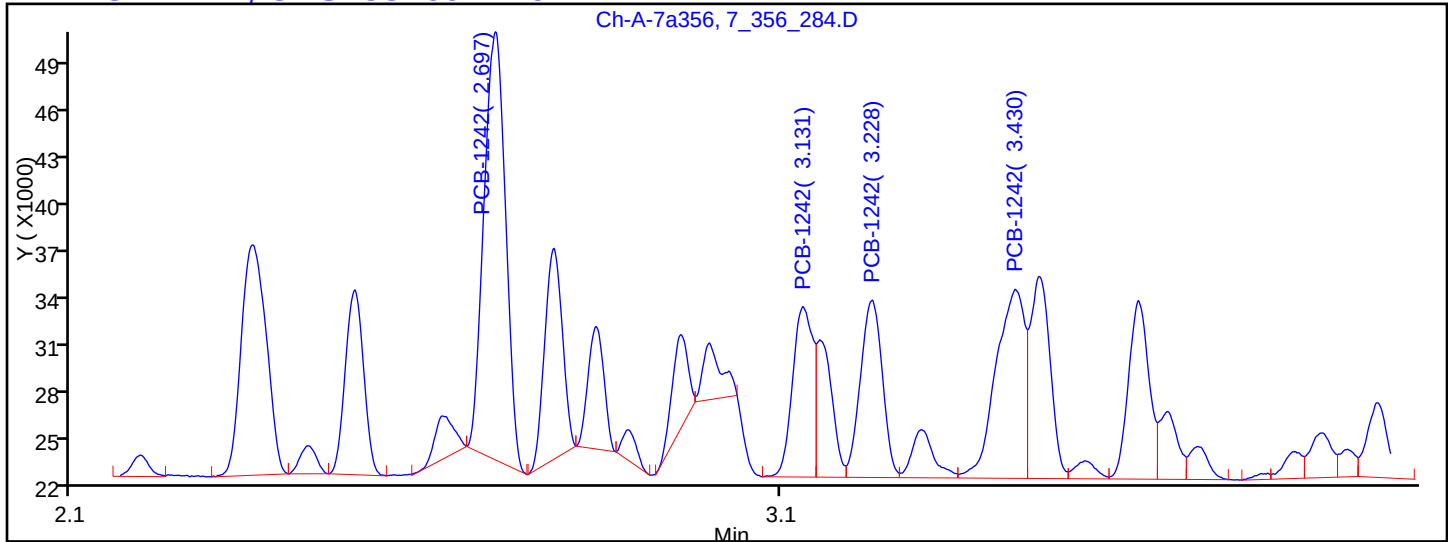
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-A-7A136

4 PCB-1242, CAS: 53469-21-9

Processing Integration Results

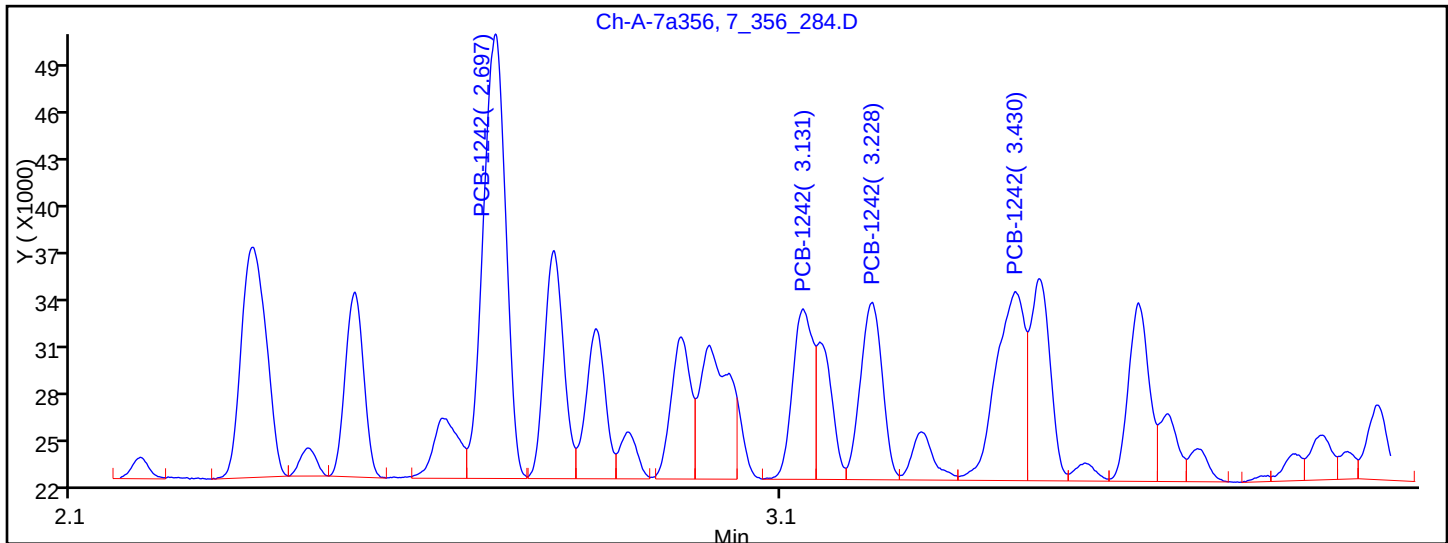
RT = 2.697 Response = 57094

M

RT = 3.131 Response = 21521

RT = 3.228 Response = 23956

RT = 3.430 Response = 33390



Manual Integration Results

RT = 2.697 Response = 62099

M

RT = 3.131 Response = 21521

RT = 3.228 Response = 23956

RT = 3.430 Response = 33390

Reviewer: larsonj, 10-Dec-2014 11:54:56

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 23:35 Calibration End Date: 12/10/2014 00:06 Calibration ID: 21446

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/19	7_356_284.D
Level 2	STD2 480-218106/18	7_356_283.D
Level 3	STD3 480-218106/17	7_356_282.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1242 Peak 1	+++++	2.494	+++++								2.463 - 2.523	2.494
PCB-1242 Peak 2	+++++	2.606	+++++								2.575 - 2.635	2.606
PCB-1242 Peak 3	+++++	2.972	+++++								2.942 - 3.002	2.972
PCB-1242 Peak 4	+++++	3.256	+++++								3.225 - 3.285	3.256
PCB-1268 Peak 1	+++++	5.068	+++++								5.038 - 5.098	5.068
PCB-1268 Peak 2	+++++	5.107	+++++								5.076 - 5.136	5.107
PCB-1268 Peak 3	+++++	5.332	+++++								5.301 - 5.361	5.332
PCB-1268 Peak 4	+++++	5.801	+++++								5.768 - 5.828	5.801

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 23:35 Calibration End Date: 12/10/2014 00:06 Calibration ID: 21446

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/19	7_356_284.D
Level 2	STD2 480-218106/18	7_356_283.D
Level 3	STD3 480-218106/17	7_356_282.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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	+++++	2312460	+++++		Ave		2312460.00						20.0			
PCB-1242 Peak 2	+++++	914056	+++++		Ave		914056.000						20.0			
PCB-1242 Peak 3	+++++	1107974	+++++		Ave		1107974.00						20.0			
PCB-1242 Peak 4	+++++	724096	+++++		Ave		724096.000						20.0			
PCB-1268 Peak 1	+++++	3605710	+++++		Ave		3605710.00						20.0			
PCB-1268 Peak 2	+++++	3233888	+++++		Ave		3233888.00						20.0			
PCB-1268 Peak 3	+++++	2651896	+++++		Ave		2651896.00						20.0			
PCB-1268 Peak 4	+++++	8680138	+++++		Ave		8680138.00						20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/09/2014 23:35 Calibration End Date: 12/10/2014 00:06 Calibration ID: 21446

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/19	7_356_284.D
Level 2	STD2 480-218106/18	7_356_283.D
Level 3	STD3 480-218106/17	7_356_282.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1242 Peak 1	Ave	+++++	1156230	+++++			+++++	0.500	+++++		
PCB-1242 Peak 2	Ave	+++++	457028	+++++			+++++	0.500	+++++		
PCB-1242 Peak 3	Ave	+++++	553987	+++++			+++++	0.500	+++++		
PCB-1242 Peak 4	Ave	+++++	362048	+++++			+++++	0.500	+++++		
PCB-1268 Peak 1	Ave	+++++	1802855	+++++			+++++	0.500	+++++		
PCB-1268 Peak 2	Ave	+++++	1616944	+++++			+++++	0.500	+++++		
PCB-1268 Peak 3	Ave	+++++	1325948	+++++			+++++	0.500	+++++		
PCB-1268 Peak 4	Ave	+++++	4340069	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_282.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 09-Dec-2014 23:35:24 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:48 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136

Process Host: XAWRK048

First Level Reviewer: larsonj Date: 10-Dec-2014 11:51:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	2.698	2.697	0.001	4704912	2.00	1.95	a
1	3.131	3.131	0.000	1358263	2.00	2.03	a
1	3.228	3.228	0.000	1599816	2.00	2.06	a
1	3.432	3.430	0.002	2314441	2.00	2.09	a

Average of Peak Amounts = 2.03

2	2.494	2.493	0.002	4316599	2.00	1.87	a
2	2.605	2.605	0.000	1667201	2.00	1.82	a
2	2.971	2.972	-0.001	2027462	2.00	1.83	a
2	3.256	3.255	0.001	1373084	2.00	1.90	a

Average of Peak Amounts = 1.85

RPD = 9.24

11 PCB-1268

1	5.352	5.352	0.000	7841956	2.00	2.05	a
1	5.395	5.393	0.002	7025266	2.00	2.05	a
1	6.153	6.154	-0.002	18872329	2.00	2.03	a
1	6.491	6.491	0.000	3616003	2.00	1.96	a

Average of Peak Amounts = 2.02

2	5.068	5.068	0.000	7537142	2.00	2.09	a
2	5.106	5.106	0.000	6622327	2.00	2.05	a
2	5.329	5.331	-0.002	5480112	2.00	2.07	a
2	5.799	5.798	0.001	18344200	2.00	2.11	a

Average of Peak Amounts = 2.08

RPD = 2.80

Reagents:

1242-1268 2.0_00004

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_282.D

Injection Date: 09-Dec-2014 23:35:24

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 17

Client ID:

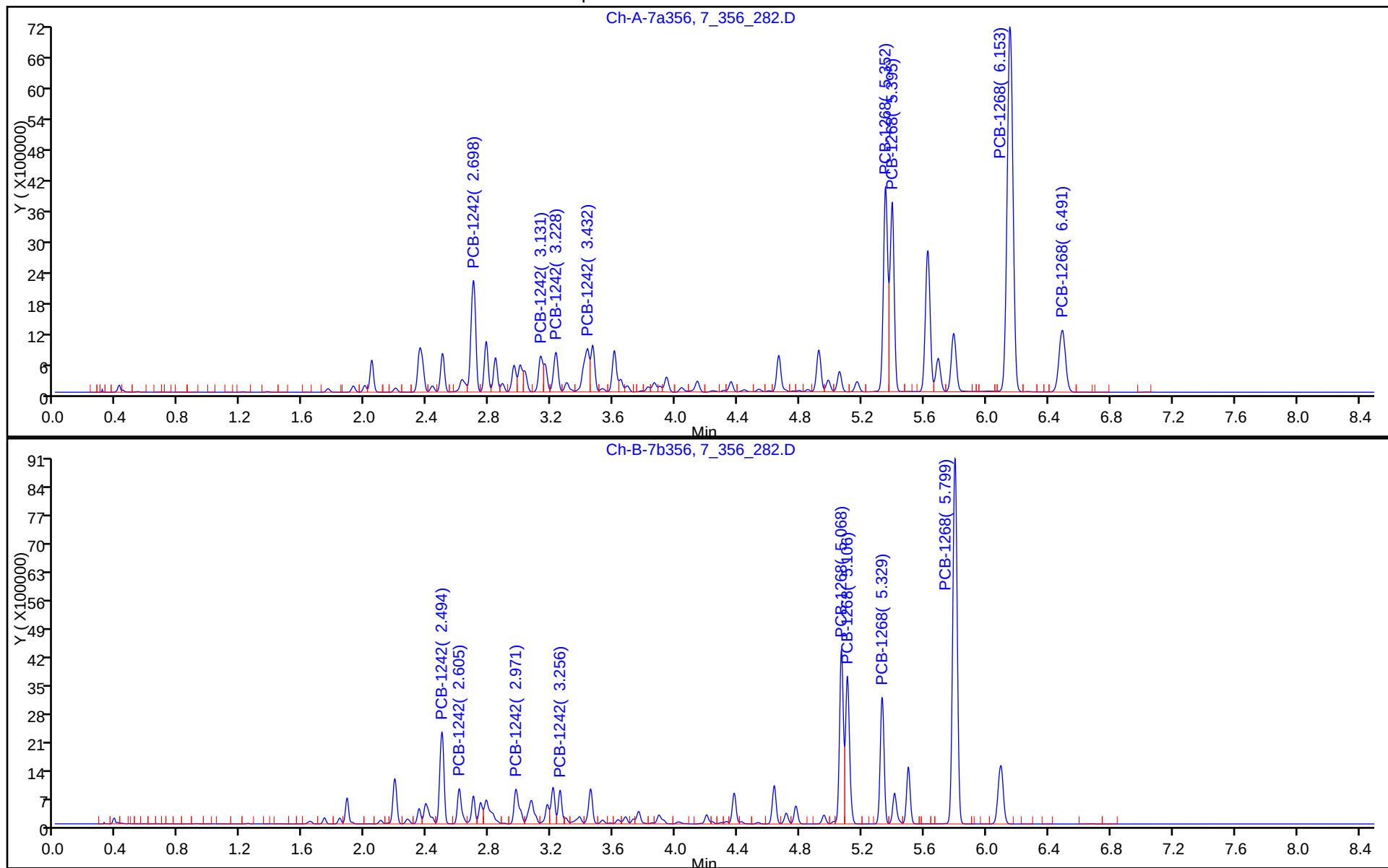
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_283.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 09-Dec-2014 23:51:10 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:50 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 11:53:36

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	2.696	2.697	-0.001	1206926	0.5000	0.5000	M
1	3.131	3.131	0.000	333877	0.5000	0.5000	M
1	3.228	3.228	0.000	388564	0.5000	0.5000	M
1	3.431	3.430	0.001	552765	0.5000	0.5000	M

Average of Peak Amounts = 0.5000

2	2.494	2.493	0.002	1156230	0.5000	0.5000	
2	2.606	2.605	0.001	457028	0.5000	0.5000	
2	2.972	2.972	0.000	553987	0.5000	0.5000	
2	3.256	3.255	0.001	362048	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

11 PCB-1268

1	5.353	5.352	0.001	1914597	0.5000	0.5000	
1	5.393	5.393	-0.001	1714775	0.5000	0.5000	
1	6.154	6.154	0.000	4653143	0.5000	0.5000	
1	6.490	6.491	-0.001	920599	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	5.068	5.068	0.000	1802855	0.5000	0.5000	
2	5.107	5.106	0.001	1616944	0.5000	0.5000	
2	5.332	5.331	0.001	1325948	0.5000	0.5000	
2	5.801	5.798	0.003	4340069	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1242-1268 2.0_00004

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_283.D

Injection Date: 09-Dec-2014 23:51:10

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 18

Client ID:

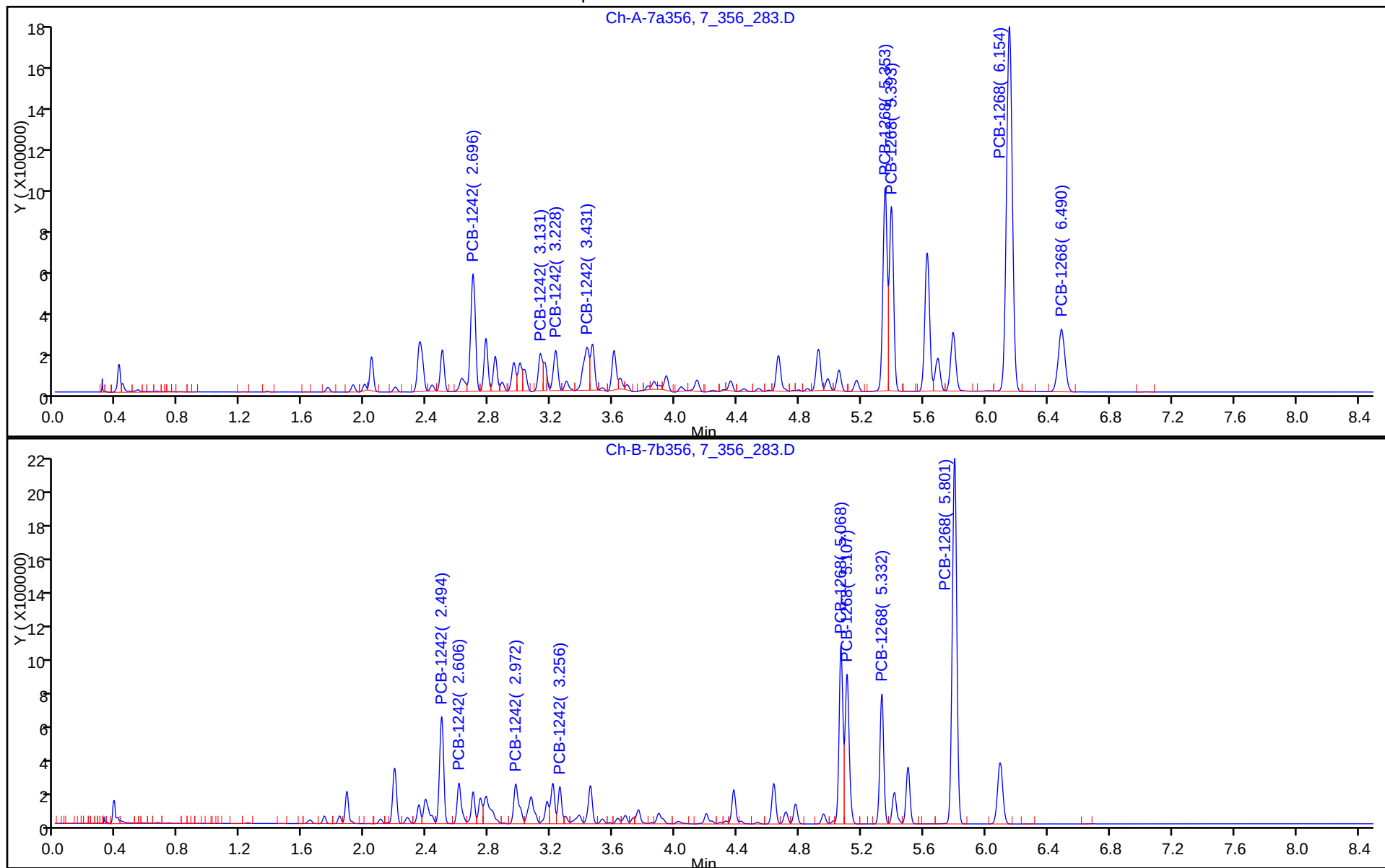
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_284.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Dec-2014 00:06:57 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub28
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:52 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 11:54:56

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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4 PCB-1242

1	2.697	2.697	0.000	62099	0.0200	0.0257	M
1	3.131	3.131	0.000	21521	0.0200	0.0322	
1	3.228	3.228	0.000	23956	0.0200	0.0308	
1	3.430	3.430	0.000	33390	0.0200	0.0302	

Average of Peak Amounts = 0.0297

2	2.493	2.493	0.000	64660	0.0200	0.0280	
2	2.605	2.605	0.000	26930	0.0200	0.0295	
2	2.972	2.972	0.000	33496	0.0200	0.0302	
2	3.255	3.255	0.000	20696	0.0200	0.0286	

Average of Peak Amounts = 0.0291

RPD = 2.34

11 PCB-1268

1	5.352	5.352	0.000	94027	0.0200	0.0246	
1	5.393	5.393	0.000	82830	0.0200	0.0242	
1	6.154	6.154	0.000	213113	0.0200	0.0229	
1	6.491	6.491	0.000	55248	0.0200	0.0300	

Average of Peak Amounts = 0.0254

2	5.068	5.068	0.000	86145	0.0200	0.0239	
2	5.106	5.106	0.000	78404	0.0200	0.0242	
2	5.331	5.331	0.000	64532	0.0200	0.0243	
2	5.798	5.798	0.000	187284	0.0200	0.0216	

Average of Peak Amounts = 0.0235

RPD = 7.74

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1242-1268 2.0_00004

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_284.D

Injection Date: 10-Dec-2014 00:06:57

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 19

Client ID:

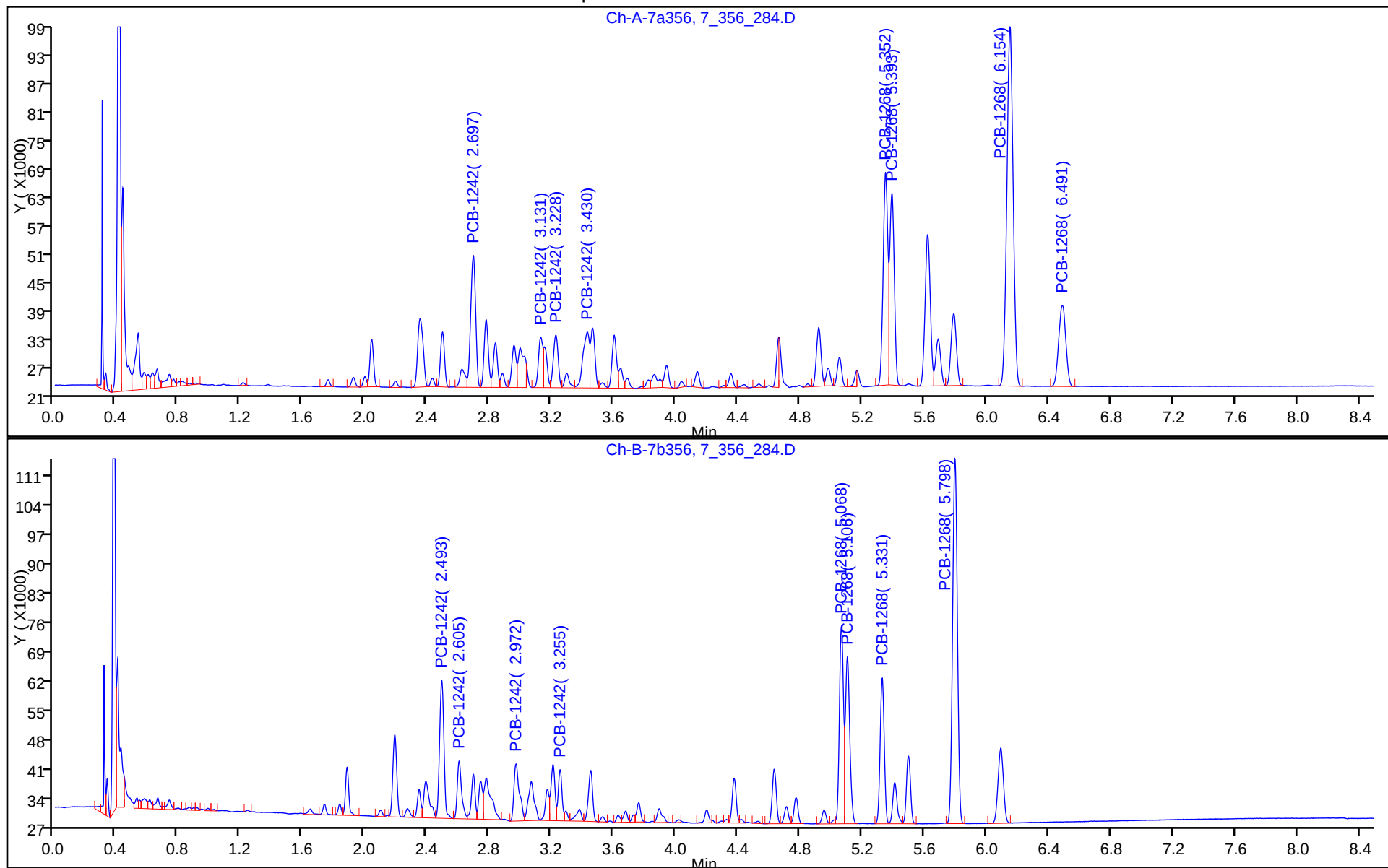
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2014 00:38 Calibration End Date: 12/10/2014 01:10 Calibration ID: 21451

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/23	7_356_288.D
Level 2	STD2 480-218106/22	7_356_287.D
Level 3	STD3 480-218106/21	7_356_286.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1248 Peak 1	++++	3.228	++++								3.199 - 3.259	3.228
PCB-1248 Peak 2	++++	3.432	++++								3.401 - 3.461	3.432
PCB-1248 Peak 3	++++	3.466	++++								3.435 - 3.495	3.466
PCB-1248 Peak 4	++++	3.605	++++								3.575 - 3.635	3.605

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2014 00:38 Calibration End Date: 12/10/2014 01:10 Calibration ID: 21451

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/23	7_356_288.D
Level 2	STD2 480-218106/22	7_356_287.D
Level 3	STD3 480-218106/21	7_356_286.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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	+++++	1216164	+++++		Ave		1216164.00						20.0			
PCB-1248 Peak 2	+++++	1957006	+++++		Ave		1957006.00						20.0			
PCB-1248 Peak 3	+++++	1444404	+++++		Ave		1444404.00						20.0			
PCB-1248 Peak 4	+++++	1178136	+++++		Ave		1178136.00						20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-5 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2014 00:38 Calibration End Date: 12/10/2014 01:10 Calibration ID: 21451

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/23	7_356_288.D
Level 2	STD2 480-218106/22	7_356_287.D
Level 3	STD3 480-218106/21	7_356_286.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	Ave	+++++	608082	+++++			+++++	0.500	+++++		
PCB-1248 Peak 2	Ave	+++++	978503	+++++			+++++	0.500	+++++		
PCB-1248 Peak 3	Ave	+++++	722202	+++++			+++++	0.500	+++++		
PCB-1248 Peak 4	Ave	+++++	589068	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_286.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Dec-2014 00:38:48 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:41 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 12:12:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.228	3.229	-0.001	2347237	2.00	1.93	a
1	3.433	3.431	0.001	3793413	2.00	1.94	a
1	3.467	3.465	0.002	2860911	2.00	1.98	a
1	3.604	3.605	-0.001	2343520	2.00	1.99	a

Average of Peak Amounts =

1.96

2	2.970	2.971	-0.001	2709976	2.00	1.83	a
2	3.071	3.070	0.001	2227790	2.00	1.84	a
2	3.211	3.210	0.001	2640045	2.00	1.91	a
2	3.256	3.256	0.000	2060943	2.00	1.90	a

Average of Peak Amounts =

1.87

RPD = 4.79

Reagents:

1248 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_286.D

Injection Date: 10-Dec-2014 00:38:48

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 21

Client ID:

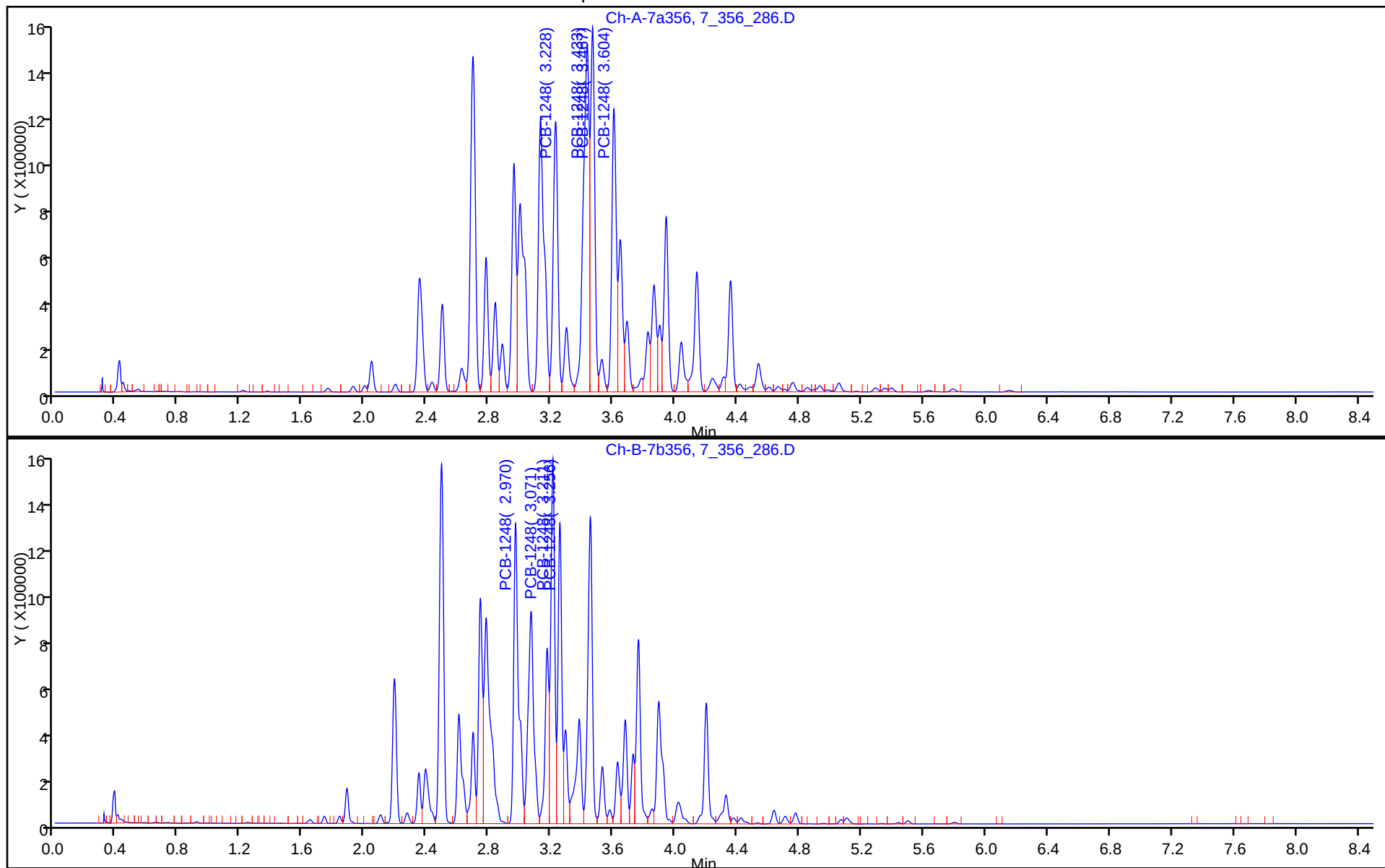
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_287.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Dec-2014 00:54:33 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:44 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 12:12:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.228	3.229	-0.001	608082	0.5000	0.5000
1	3.432	3.431	0.001	978503	0.5000	0.5000
1	3.466	3.465	0.001	722202	0.5000	0.5000
1	3.605	3.605	0.000	589068	0.5000	0.5000

Average of Peak Amounts = 0.5000

2	2.971	2.971	0.000	741952	0.5000	0.5000
2	3.070	3.070	0.000	604836	0.5000	0.5000
2	3.210	3.210	0.000	691768	0.5000	0.5000
2	3.255	3.256	-0.001	543552	0.5000	0.5000

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1248 2.0_00003

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_287.D

Injection Date: 10-Dec-2014 00:54:33

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 22

Client ID:

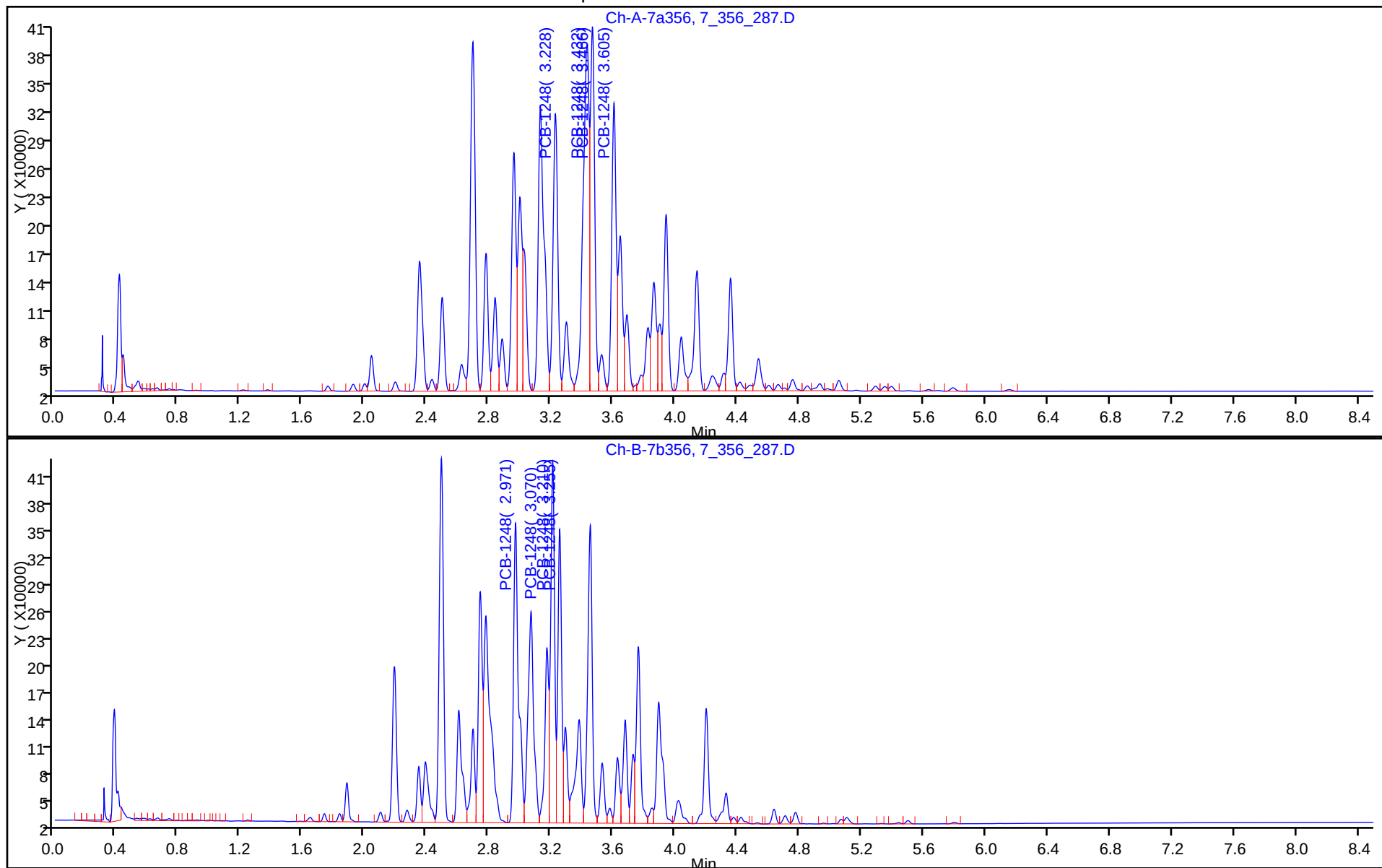
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Dec-2014 01:10:21 ALS Bottle#: 0 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:46 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 12:13:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.229	3.229	0.000	32063	0.0200	0.0264
1	3.431	3.431	0.000	48748	0.0200	0.0249
1	3.465	3.465	0.000	37390	0.0200	0.0259
1	3.605	3.605	0.000	30049	0.0200	0.0255

Average of Peak Amounts = 0.0257

2	2.971	2.971	0.000	41935	0.0200	0.0283
2	3.070	3.070	0.000	33319	0.0200	0.0275
2	3.210	3.210	0.000	37626	0.0200	0.0272
2	3.256	3.256	0.000	28733	0.0200	0.0264

Average of Peak Amounts = 0.0274

RPD = 6.38

Reagents:

1248 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Injection Date: 10-Dec-2014 01:10:21

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 23

Client ID:

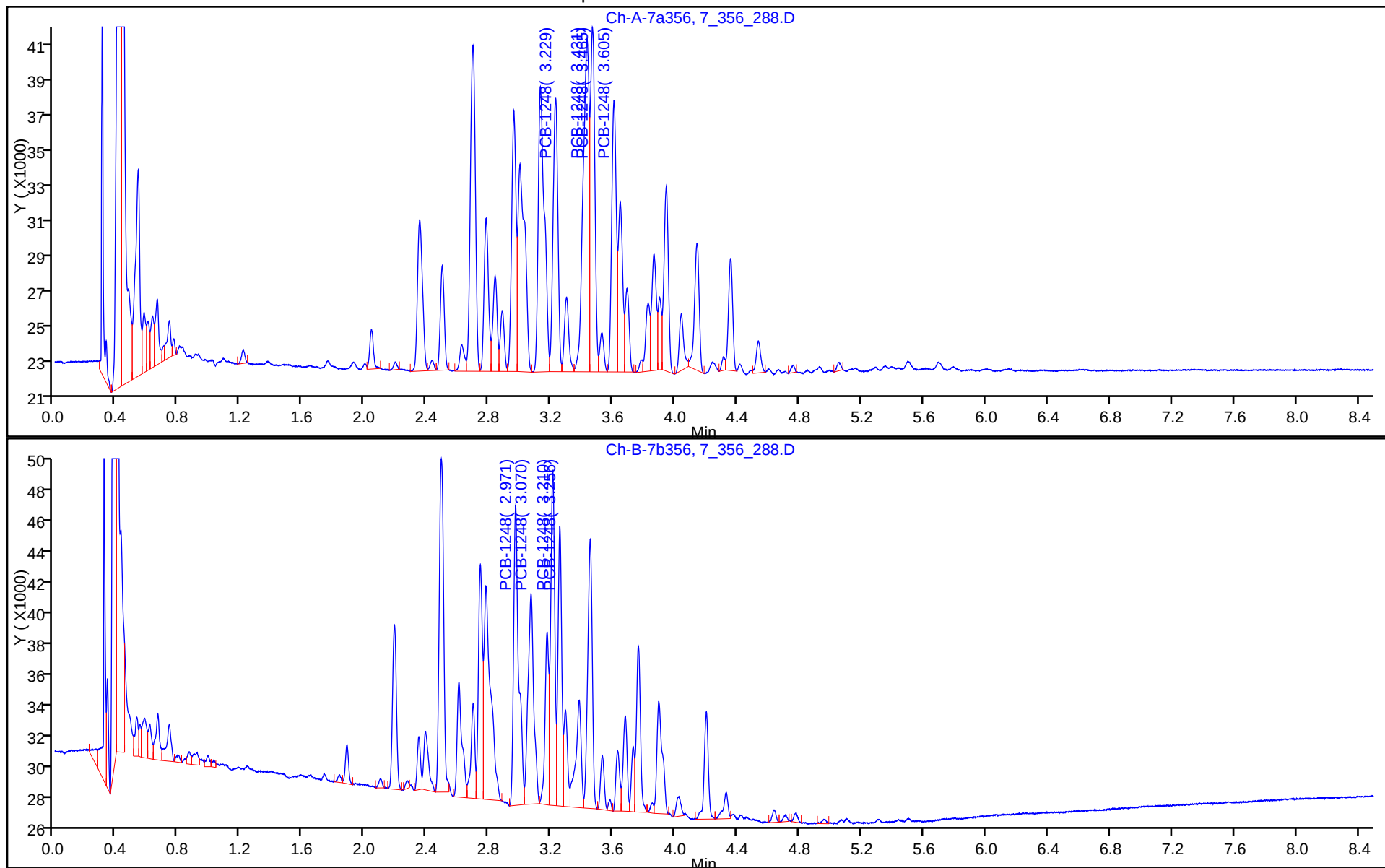
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2014 00:38 Calibration End Date: 12/10/2014 01:10 Calibration ID: 21452

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/23	7_356_288.D
Level 2	STD2 480-218106/22	7_356_287.D
Level 3	STD3 480-218106/21	7_356_286.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1248 Peak 1	+++++	2.971	+++++								2.941 - 3.001	2.971
PCB-1248 Peak 2	+++++	3.070	+++++								3.040 - 3.100	3.070
PCB-1248 Peak 3	+++++	3.210	+++++								3.180 - 3.240	3.210
PCB-1248 Peak 4	+++++	3.255	+++++								3.226 - 3.286	3.255

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2014 00:38 Calibration End Date: 12/10/2014 01:10 Calibration ID: 21452

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/23	7_356_288.D
Level 2	STD2 480-218106/22	7_356_287.D
Level 3	STD3 480-218106/21	7_356_286.D

ANALYTE	CF				CURVE TYPE	COEFFICIENT			#	MIN CF	%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	+++++	1483904	+++++		Ave		1483904.00						20.0			
PCB-1248 Peak 2	+++++	1209672	+++++		Ave		1209672.00						20.0			
PCB-1248 Peak 3	+++++	1383536	+++++		Ave		1383536.00						20.0			
PCB-1248 Peak 4	+++++	1087104	+++++		Ave		1087104.00						20.0			

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

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1 Analy Batch No.: 218106

SDG No.: _____

Instrument ID: HP6890-7 GC Column: ZB-35 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 12/10/2014 00:38 Calibration End Date: 12/10/2014 01:10 Calibration ID: 21452

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-218106/23	7_356_288.D
Level 2	STD2 480-218106/22	7_356_287.D
Level 3	STD3 480-218106/21	7_356_286.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1	LVL 2	LVL 3			LVL 1	LVL 2	LVL 3		
PCB-1248 Peak 1	Ave	+++++	741952	+++++			+++++	0.500	+++++		
PCB-1248 Peak 2	Ave	+++++	604836	+++++			+++++	0.500	+++++		
PCB-1248 Peak 3	Ave	+++++	691768	+++++			+++++	0.500	+++++		
PCB-1248 Peak 4	Ave	+++++	543552	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_286.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Dec-2014 00:38:48 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:41 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 12:12:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.228	3.229	-0.001	2347237	2.00	1.93	a
1	3.433	3.431	0.001	3793413	2.00	1.94	a
1	3.467	3.465	0.002	2860911	2.00	1.98	a
1	3.604	3.605	-0.001	2343520	2.00	1.99	a

Average of Peak Amounts =

1.96

2	2.970	2.971	-0.001	2709976	2.00	1.83	a
2	3.071	3.070	0.001	2227790	2.00	1.84	a
2	3.211	3.210	0.001	2640045	2.00	1.91	a
2	3.256	3.256	0.000	2060943	2.00	1.90	a

Average of Peak Amounts =

1.87

RPD = 4.79

Reagents:

1248 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_286.D

Injection Date: 10-Dec-2014 00:38:48

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 21

Client ID:

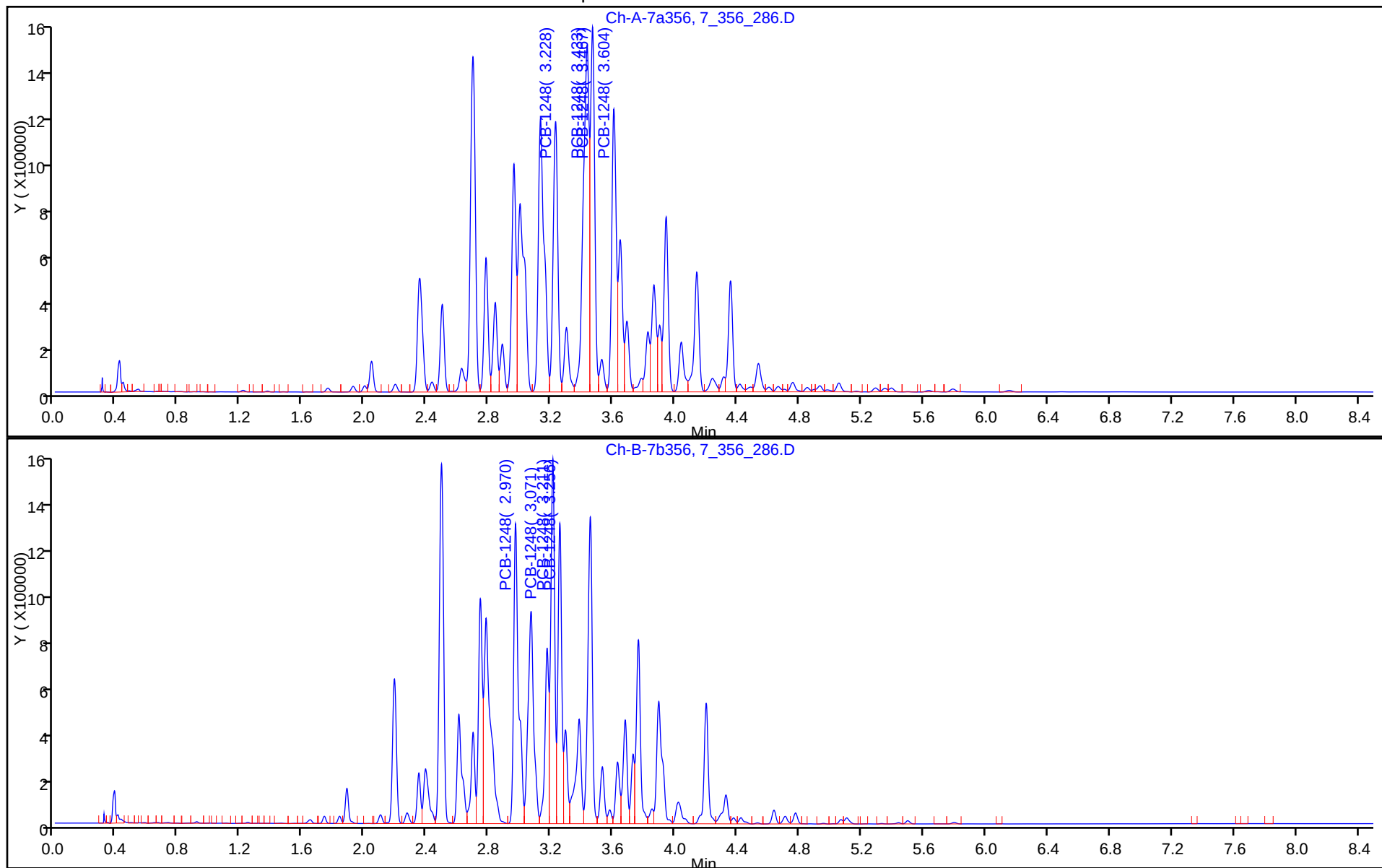
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_287.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Dec-2014 00:54:33 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:44 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 12:12:47

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.228	3.229	-0.001	608082	0.5000	0.5000
1	3.432	3.431	0.001	978503	0.5000	0.5000
1	3.466	3.465	0.001	722202	0.5000	0.5000
1	3.605	3.605	0.000	589068	0.5000	0.5000

Average of Peak Amounts = 0.5000

2	2.971	2.971	0.000	741952	0.5000	0.5000
2	3.070	3.070	0.000	604836	0.5000	0.5000
2	3.210	3.210	0.000	691768	0.5000	0.5000
2	3.255	3.256	-0.001	543552	0.5000	0.5000

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1248 2.0_00003

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_287.D

Injection Date: 10-Dec-2014 00:54:33

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 22

Client ID:

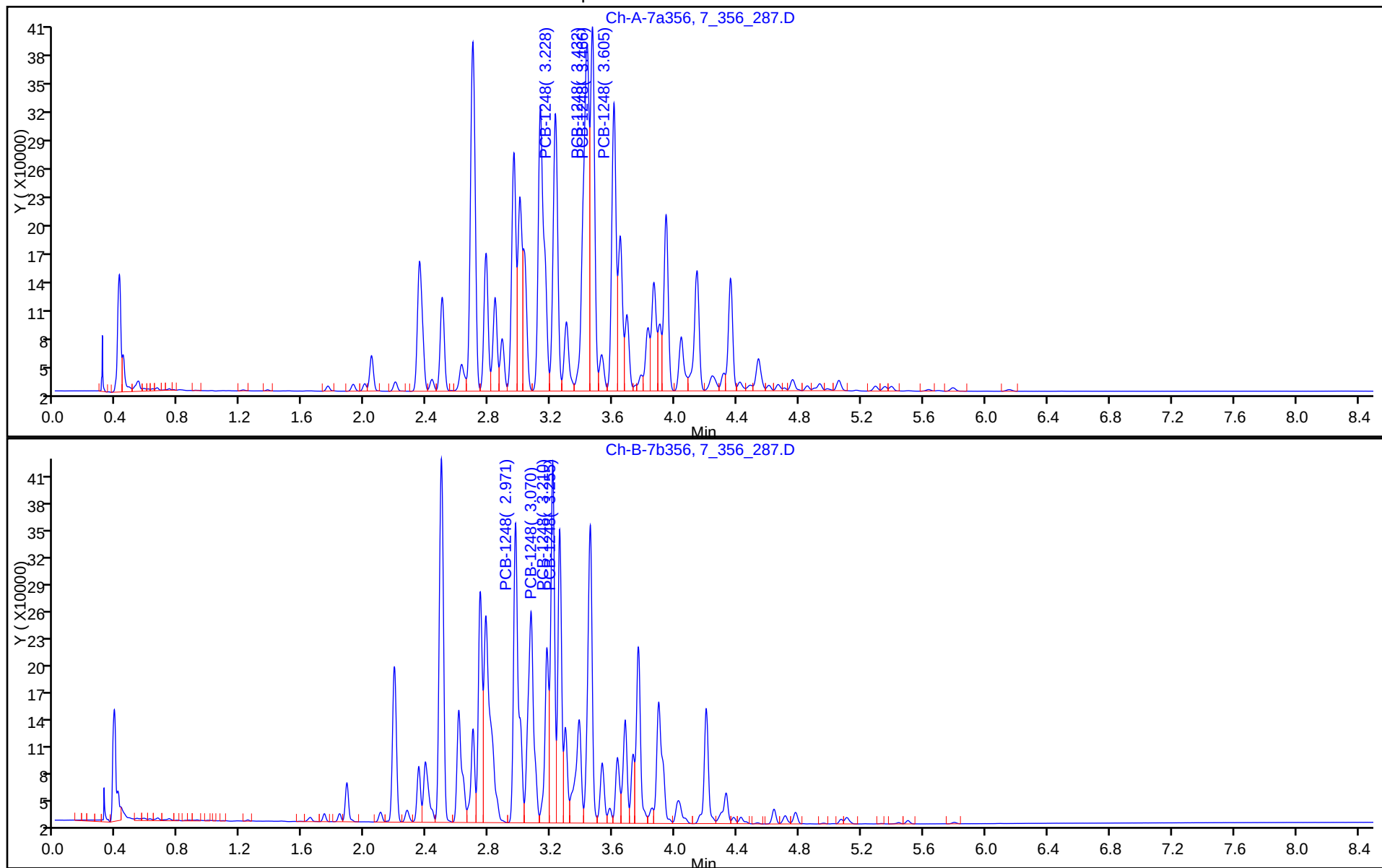
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 10-Dec-2014 01:10:21 ALS Bottle#: 0 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub5
 Method: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Dec-2014 13:21:46 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK048

First Level Reviewer: larsonj

Date: 10-Dec-2014 12:13:08

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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7 PCB-1248

1	3.229	3.229	0.000	32063	0.0200	0.0264
1	3.431	3.431	0.000	48748	0.0200	0.0249
1	3.465	3.465	0.000	37390	0.0200	0.0259
1	3.605	3.605	0.000	30049	0.0200	0.0255

Average of Peak Amounts = 0.0257

2	2.971	2.971	0.000	41935	0.0200	0.0283
2	3.070	3.070	0.000	33319	0.0200	0.0275
2	3.210	3.210	0.000	37626	0.0200	0.0272
2	3.256	3.256	0.000	28733	0.0200	0.0264

Average of Peak Amounts = 0.0274

RPD = 6.38

Reagents:

1248 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D

Injection Date: 10-Dec-2014 01:10:21

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 23

Client ID:

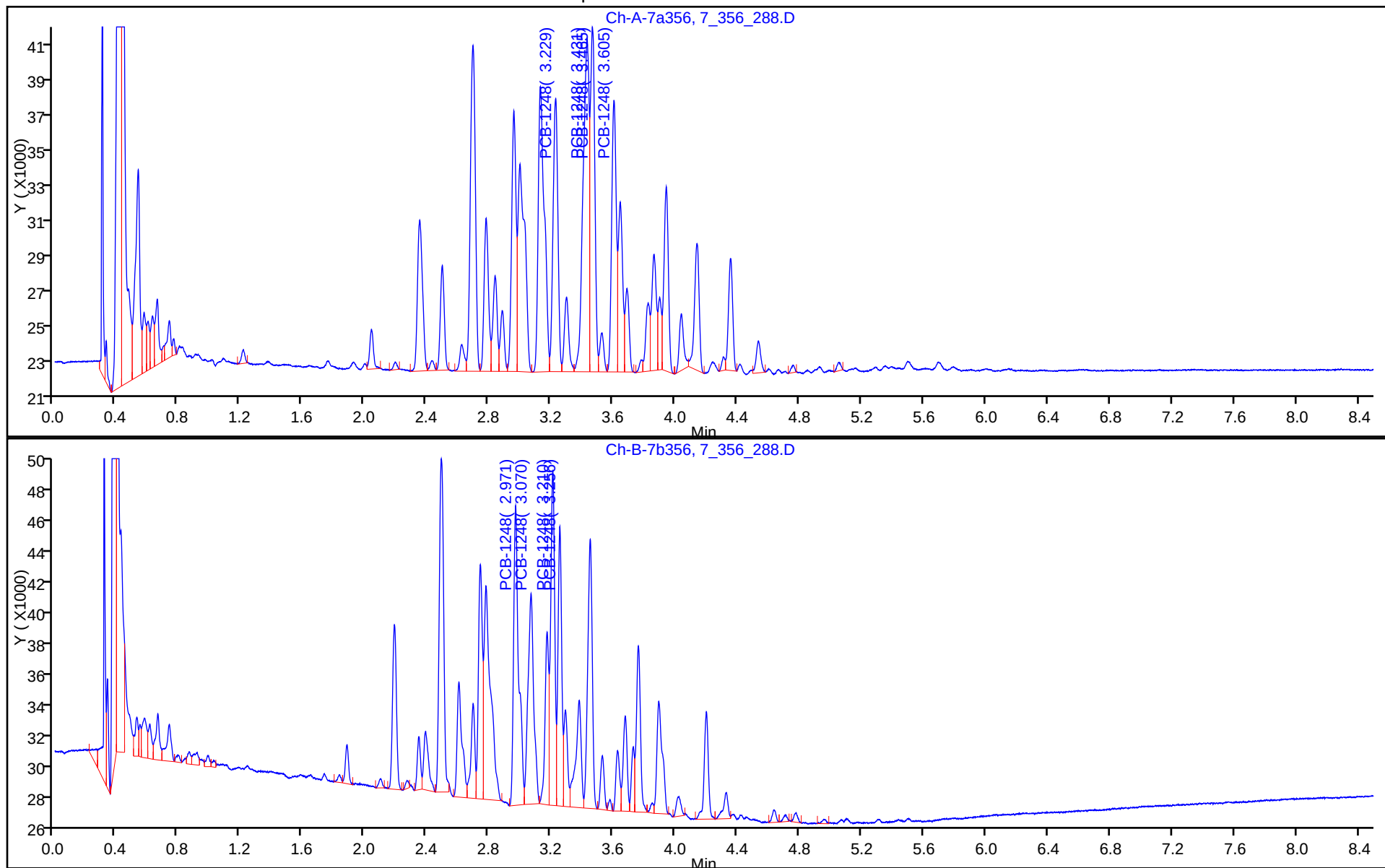
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Lab Sample ID: CCV 480-223637/3 Calibration Date: 01/20/2015 10:11
 Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
 Lab File ID: 7_361_052.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	730136	717744		0.492	0.500	-1.7	20.0
PCB-1016 Peak 2	Ave	3033286	3176088		0.524	0.500	4.7	20.0
PCB-1016 Peak 3	Ave	1205521	1204460		0.500	0.500	-0.0	20.0
PCB-1016 Peak 4	Ave	820917	827272		0.504	0.500	0.8	20.0
PCB-1260 Peak 1	Ave	1239166	1513466		0.611	0.500	22.1*	20.0
PCB-1260 Peak 2	Ave	1217603	1402800		0.576	0.500	15.2	20.0
PCB-1260 Peak 3	Ave	2897224	3416922		0.590	0.500	17.9	20.0
PCB-1260 Peak 4	Ave	1564972	1579696		0.505	0.500	0.9	20.0
Tetrachloro-m-xylene	Ave	48960349	44011900		0.0270	0.0300	-10.1	20.0
DCB Decachlorobiphenyl	Lin		26203900		0.0332	0.0300	10.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Lab Sample ID: CCV 480-223637/3 Calibration Date: 01/20/2015 10:11
Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
Lab File ID: 7_361_052.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.04	2.01	2.07
PCB-1016 Peak 2	2.70	2.67	2.73
PCB-1016 Peak 3	2.78	2.75	2.81
PCB-1016 Peak 4	2.84	2.81	2.87
PCB-1260 Peak 1	4.66	4.63	4.69
PCB-1260 Peak 2	4.85	4.82	4.88
PCB-1260 Peak 3	5.05	5.02	5.08
PCB-1260 Peak 4	5.29	5.26	5.32
Tetrachloro-m-xylene	1.79	1.76	1.82
DCB Decachlorobiphenyl	6.48	6.42	6.54

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_052.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2015 10:11:17 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:05:02 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:05:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	1320357	0.0300	0.0270	
2	1.507	1.507	0.000	1374343	0.0300	0.0298	

RPD = 10.10

6 PCB-1016

1	2.043	2.043	0.000	358872	0.5000	0.4915	
1	2.696	2.696	0.000	1588044	0.5000	0.5235	
1	2.777	2.777	0.000	602230	0.5000	0.4996	
1	2.838	2.838	0.000	413636	0.5000	0.5039	

Average of Peak Amounts = 0.5046

2	2.390	2.390	0.000	503637	0.5000	0.5127	
2	2.494	2.494	0.000	1593210	0.5000	0.5431	
2	2.695	2.695	0.000	422909	0.5000	0.5278	
2	2.970	2.970	0.000	738639	0.5000	0.5244	

Average of Peak Amounts = 0.5270

RPD = 4.33

9 PCB-1260

M

1	4.659	4.659	0.000	756733	0.5000	0.6107	
1	4.845	4.845	0.000	701400	0.5000	0.5760	
1	5.051	5.051	0.000	1708461	0.5000	0.5897	
1	5.285	5.285	0.000	789848	0.5000	0.5047	

Average of Peak Amounts = 0.5703

2	4.631	4.631	0.000	827821	0.5000	0.6032	
2	4.698	4.698	0.000	630003	0.5000	0.5646	
2	4.772	4.772	0.000	1925444	0.5000	0.6353	M
2	5.100	5.100	0.000	1147683	0.5000	0.6140	

Average of Peak Amounts = 0.6043

RPD = 5.79

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_052.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.482	6.482	0.000	786117	0.0300	0.0332	
2	6.088	6.088	0.000	844113	0.0300	0.0326	

RPD = 1.84

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_052.D

Injection Date: 20-Jan-2015 10:11:17

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 3

Client ID:

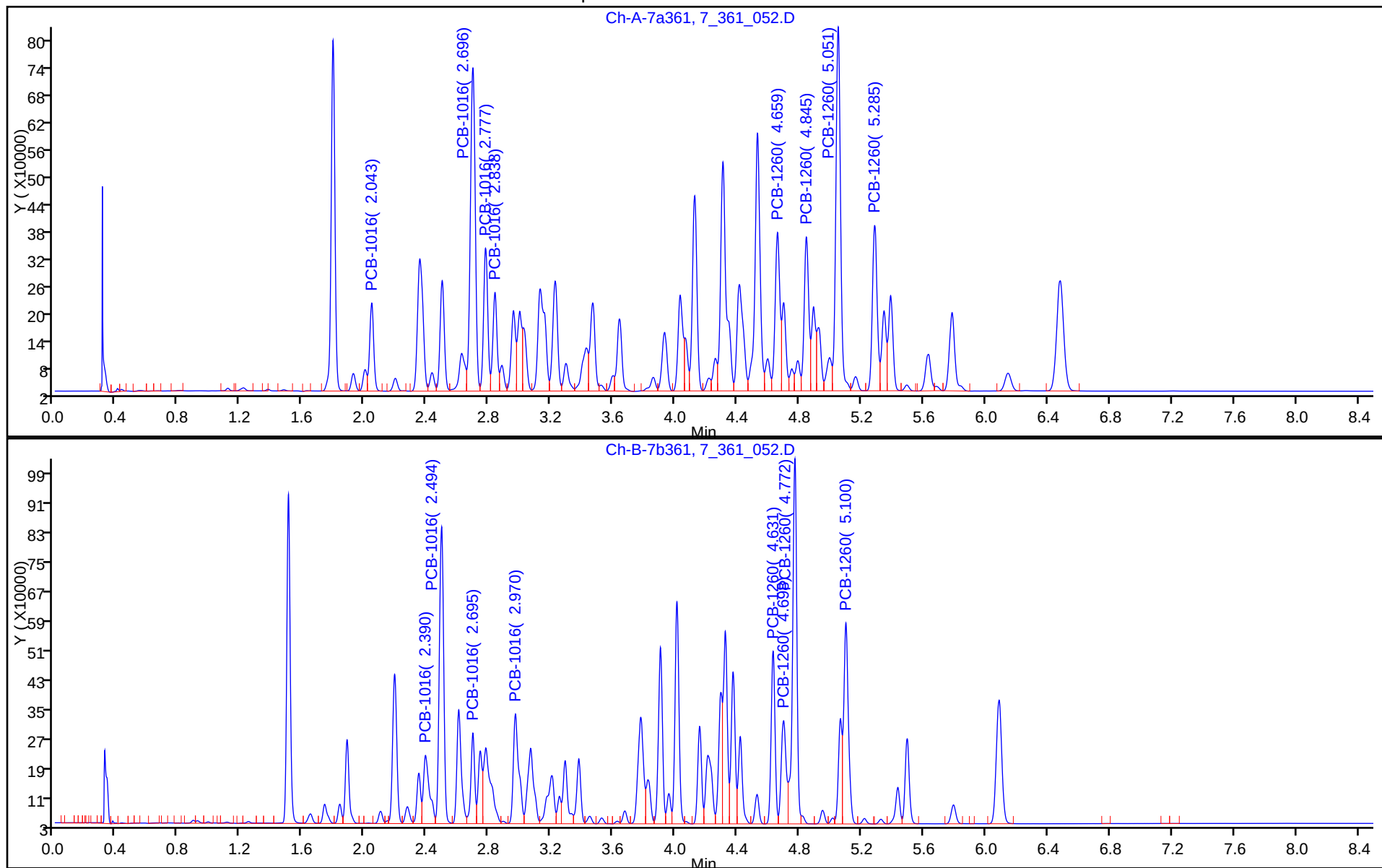
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Lab Sample ID: CCV 480-223637/3 Calibration Date: 01/20/2015 10:11
 Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
 Lab File ID: 7_361_052.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	982379	1007274		0.513	0.500	2.5	20.0
PCB-1016 Peak 2	Ave	2933613	3186420		0.543	0.500	8.6	20.0
PCB-1016 Peak 3	Ave	801309	845818		0.528	0.500	5.6	20.0
PCB-1016 Peak 4	Ave	1408672	1477278		0.524	0.500	4.9	20.0
PCB-1260 Peak 1	Ave	1372489	1655642		0.603	0.500	20.6*	20.0
PCB-1260 Peak 2	Ave	1115803	1260006		0.565	0.500	12.9	20.0
PCB-1260 Peak 3	Ave	3030648	3850888		0.635	0.500	27.1*	20.0
PCB-1260 Peak 4	Ave	1869304	2295366		0.614	0.500	22.8*	20.0
Tetrachloro-m-xylene	Ave	46061469	45811433		0.0298	0.0300	-0.5	20.0
DCB Decachlorobiphenyl	Ave	25917591	28137100		0.0326	0.0300	8.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Lab Sample ID: CCV 480-223637/3 Calibration Date: 01/20/2015 10:11
Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
Lab File ID: 7_361_052.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.39	2.36	2.42
PCB-1016 Peak 2	2.49	2.46	2.52
PCB-1016 Peak 3	2.70	2.67	2.73
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1260 Peak 1	4.63	4.60	4.66
PCB-1260 Peak 2	4.70	4.67	4.73
PCB-1260 Peak 3	4.77	4.74	4.80
PCB-1260 Peak 4	5.10	5.07	5.13
Tetrachloro-m-xylene	1.51	1.48	1.54
DCB Decachlorobiphenyl	6.09	6.03	6.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_052.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2015 10:11:17 ALS Bottle#: 0 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:05:02 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:05:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	1320357	0.0300	0.0270	
2	1.507	1.507	0.000	1374343	0.0300	0.0298	

RPD = 10.10

6 PCB-1016

1	2.043	2.043	0.000	358872	0.5000	0.4915	
1	2.696	2.696	0.000	1588044	0.5000	0.5235	
1	2.777	2.777	0.000	602230	0.5000	0.4996	
1	2.838	2.838	0.000	413636	0.5000	0.5039	

Average of Peak Amounts = 0.5046

2	2.390	2.390	0.000	503637	0.5000	0.5127	
2	2.494	2.494	0.000	1593210	0.5000	0.5431	
2	2.695	2.695	0.000	422909	0.5000	0.5278	
2	2.970	2.970	0.000	738639	0.5000	0.5244	

Average of Peak Amounts = 0.5270

RPD = 4.33

9 PCB-1260

M

1	4.659	4.659	0.000	756733	0.5000	0.6107	
1	4.845	4.845	0.000	701400	0.5000	0.5760	
1	5.051	5.051	0.000	1708461	0.5000	0.5897	
1	5.285	5.285	0.000	789848	0.5000	0.5047	

Average of Peak Amounts = 0.5703

2	4.631	4.631	0.000	827821	0.5000	0.6032	
2	4.698	4.698	0.000	630003	0.5000	0.5646	
2	4.772	4.772	0.000	1925444	0.5000	0.6353	M
2	5.100	5.100	0.000	1147683	0.5000	0.6140	

Average of Peak Amounts = 0.6043

RPD = 5.79

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_052.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.482	6.482	0.000	786117	0.0300	0.0332	
2	6.088	6.088	0.000	844113	0.0300	0.0326	

RPD = 1.84

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_052.D

Injection Date: 20-Jan-2015 10:11:17

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 3

Client ID:

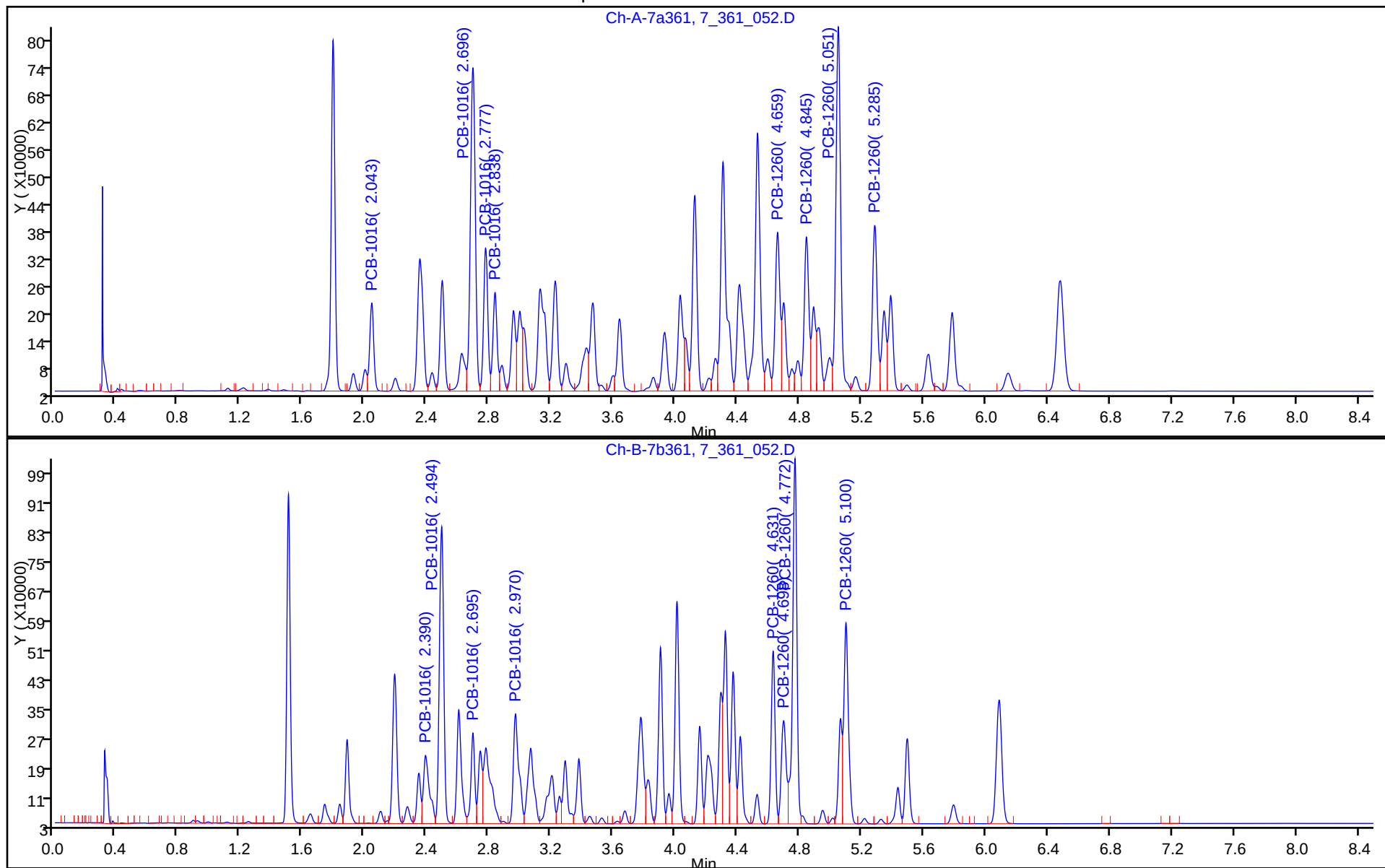
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP6890-07\\20150120-39034.b\\7_361_052.D

Injection Date: 20-Jan-2015 10:11:17

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 3

Injection Vol: 1.0 ul

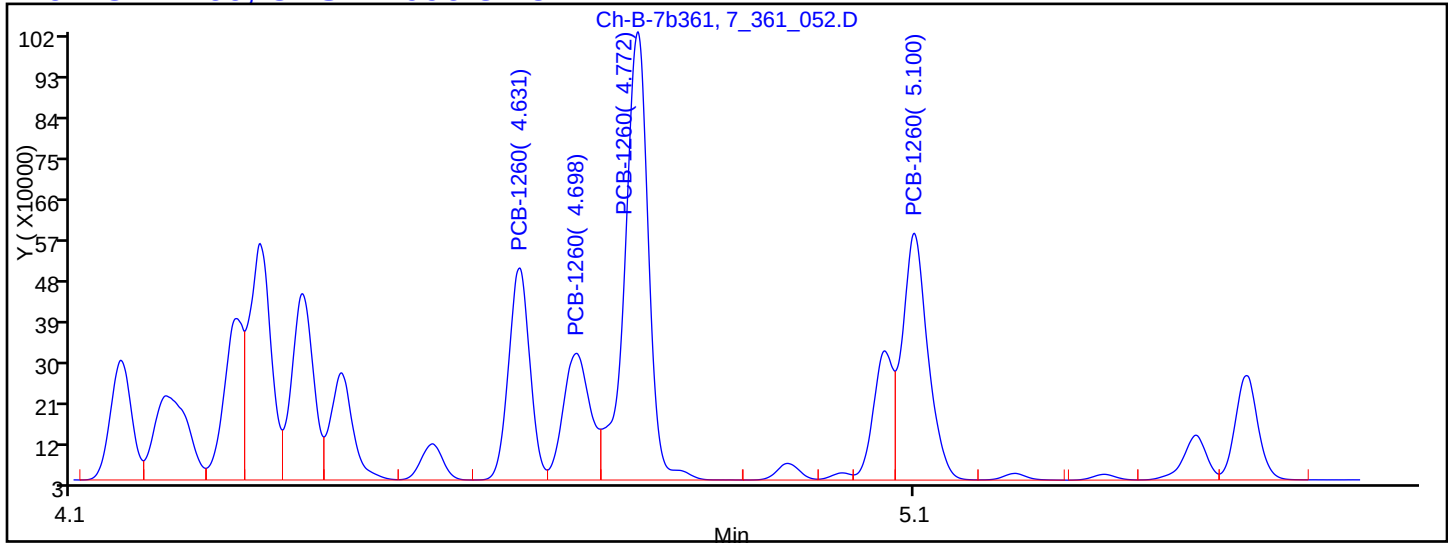
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

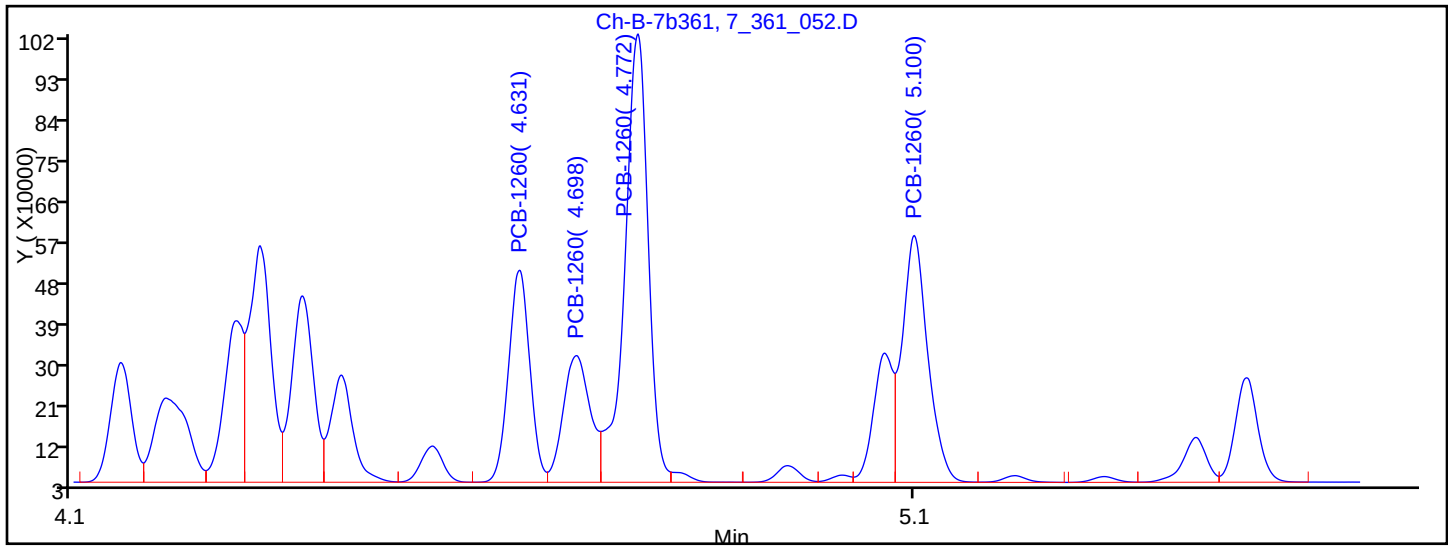
Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.631	Response = 827821
RT = 4.698	Response = 630003
RT = 4.772	Response = 1958721
RT = 5.100	Response = 1147683

M



Manual Integration Results

RT = 4.631	Response = 827821
RT = 4.698	Response = 630003
RT = 4.772	Response = 1925444
RT = 5.100	Response = 1147683

M

Reviewer: sobolk, 20-Jan-2015 10:55:29

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Lab Sample ID: CCV 480-223637/15 Calibration Date: 01/20/2015 13:21
 Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
 Lab File ID: 7_361_064.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	730136	705106		0.483	0.500	-3.4	20.0
PCB-1016 Peak 2	Ave	3033286	3130574		0.516	0.500	3.2	20.0
PCB-1016 Peak 3	Ave	1205521	1186054		0.492	0.500	-1.6	20.0
PCB-1016 Peak 4	Ave	820917	813166		0.495	0.500	-0.9	20.0
PCB-1260 Peak 1	Ave	1239166	1462020		0.590	0.500	18.0	20.0
PCB-1260 Peak 2	Ave	1217603	1343458		0.552	0.500	10.3	20.0
PCB-1260 Peak 3	Ave	2897224	3381360		0.584	0.500	16.7	20.0
PCB-1260 Peak 4	Ave	1564972	1547328		0.494	0.500	-1.1	20.0
Tetrachloro-m-xylene	Ave	48960349	43267733		0.0265	0.0300	-11.6	20.0
DCB Decachlorobiphenyl	Lin		25328833		0.0320	0.0300	6.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Lab Sample ID: CCV 480-223637/15 Calibration Date: 01/20/2015 13:21
Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
Lab File ID: 7_361_064.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.04	2.01	2.07
PCB-1016 Peak 2	2.70	2.67	2.73
PCB-1016 Peak 3	2.78	2.75	2.81
PCB-1016 Peak 4	2.84	2.81	2.87
PCB-1260 Peak 1	4.66	4.63	4.69
PCB-1260 Peak 2	4.85	4.82	4.88
PCB-1260 Peak 3	5.05	5.02	5.08
PCB-1260 Peak 4	5.29	5.26	5.32
Tetrachloro-m-xylene	1.79	1.76	1.82
DCB Decachlorobiphenyl	6.48	6.42	6.54

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_064.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2015 13:21:26 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:04:35 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:04:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	1298032	0.0300	0.0265
2	1.506	1.506	0.000	1329773	0.0300	0.0289

RPD = 8.51

6 PCB-1016

1	2.044	2.044	0.000	352553	0.5000	0.4829
1	2.696	2.696	0.000	1565287	0.5000	0.5160
1	2.778	2.778	0.000	593027	0.5000	0.4919
1	2.838	2.838	0.000	406583	0.5000	0.4953

Average of Peak Amounts = 0.4965

2	2.390	2.390	0.000	490202	0.5000	0.4990
2	2.493	2.493	0.000	1546751	0.5000	0.5273
2	2.696	2.696	0.000	409464	0.5000	0.5110
2	2.969	2.969	0.000	714307	0.5000	0.5071

Average of Peak Amounts = 0.5111

RPD = 2.89

9 PCB-1260

1	4.661	4.661	0.000	731010	0.5000	0.5899
1	4.847	4.847	0.000	671729	0.5000	0.5517
1	5.051	5.051	0.000	1690680	0.5000	0.5836
1	5.287	5.287	0.000	773664	0.5000	0.4944

Average of Peak Amounts = 0.5549

2	4.632	4.632	0.000	796540	0.5000	0.5804
2	4.699	4.699	0.000	602426	0.5000	0.5399
2	4.772	4.772	0.000	1882706	0.5000	0.6212
2	5.101	5.101	0.000	1109708	0.5000	0.5936

Average of Peak Amounts = 0.5838

RPD = 5.08

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_064.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 12 DCB Decachlorobiphenyl

1	6.482	6.482	0.000	759865	0.0300	0.0320	
2	6.087	6.087	0.000	822086	0.0300	0.0317	

RPD = 0.97

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_064.D

Injection Date: 20-Jan-2015 13:21:26

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 15

Client ID:

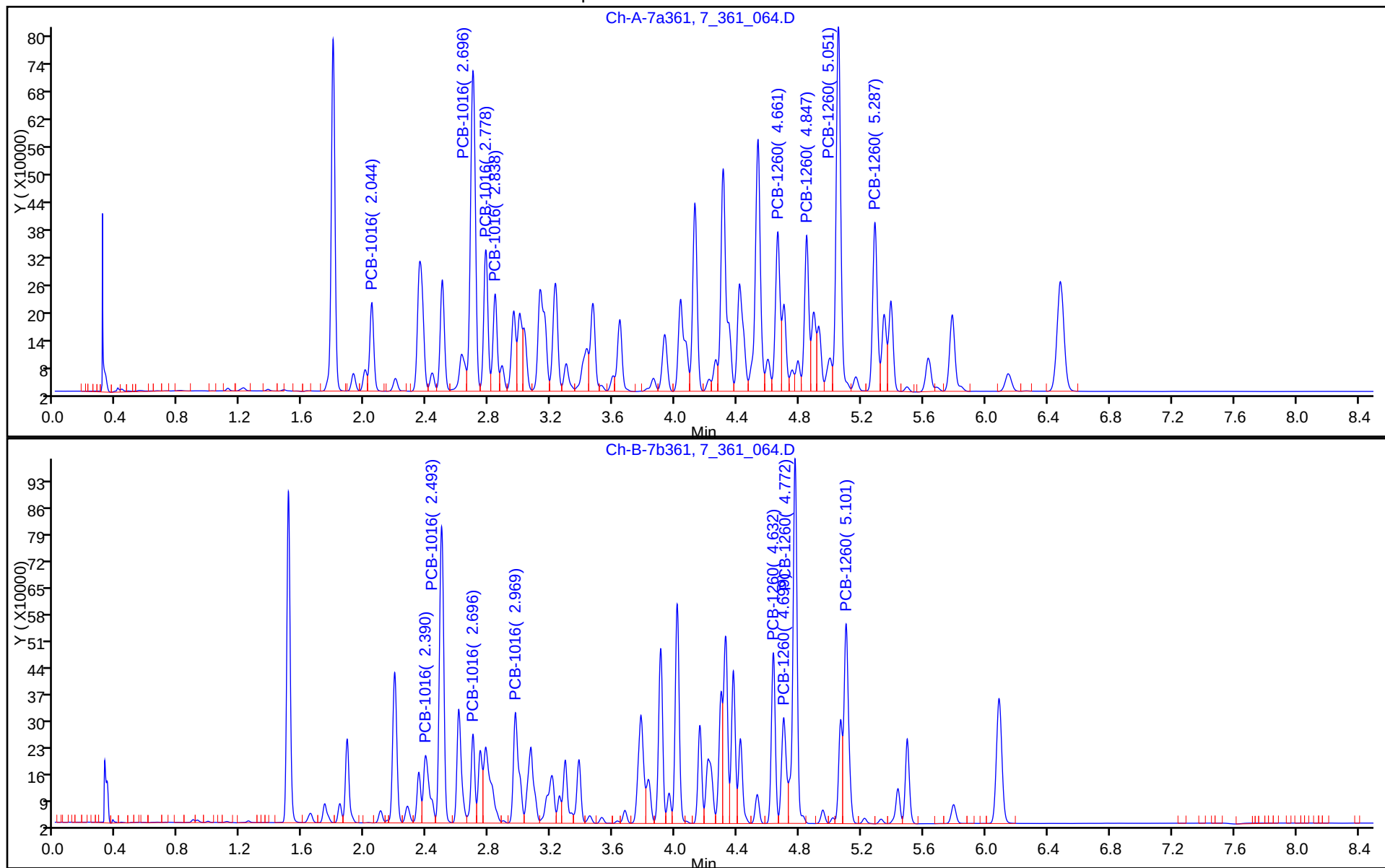
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Lab Sample ID: CCV 480-223637/15 Calibration Date: 01/20/2015 13:21
 Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
 Lab File ID: 7_361_064.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	982379	980404		0.499	0.500	-0.2	20.0
PCB-1016 Peak 2	Ave	2933613	3093502		0.527	0.500	5.5	20.0
PCB-1016 Peak 3	Ave	801309	818928		0.511	0.500	2.2	20.0
PCB-1016 Peak 4	Ave	1408672	1428614		0.507	0.500	1.4	20.0
PCB-1260 Peak 1	Ave	1372489	1593080		0.580	0.500	16.1	20.0
PCB-1260 Peak 2	Ave	1115803	1204852		0.540	0.500	8.0	20.0
PCB-1260 Peak 3	Ave	3030648	3765412		0.621	0.500	24.2*	20.0
PCB-1260 Peak 4	Ave	1869304	2219416		0.594	0.500	18.7	20.0
Tetrachloro-m-xylene	Ave	46061469	44325767		0.0289	0.0300	-3.8	20.0
DCB Decachlorobiphenyl	Ave	25917591	27402867		0.0317	0.0300	5.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Lab Sample ID: CCV 480-223637/15 Calibration Date: 01/20/2015 13:21
Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
Lab File ID: 7_361_064.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.39	2.36	2.42
PCB-1016 Peak 2	2.49	2.46	2.52
PCB-1016 Peak 3	2.70	2.67	2.73
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1260 Peak 1	4.63	4.60	4.66
PCB-1260 Peak 2	4.70	4.67	4.73
PCB-1260 Peak 3	4.77	4.74	4.80
PCB-1260 Peak 4	5.10	5.07	5.13
Tetrachloro-m-xylene	1.51	1.48	1.54
DCB Decachlorobiphenyl	6.09	6.03	6.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_064.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2015 13:21:26 ALS Bottle#: 0 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:04:35 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:04:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	1298032	0.0300	0.0265
2	1.506	1.506	0.000	1329773	0.0300	0.0289

RPD = 8.51

6 PCB-1016

1	2.044	2.044	0.000	352553	0.5000	0.4829
1	2.696	2.696	0.000	1565287	0.5000	0.5160
1	2.778	2.778	0.000	593027	0.5000	0.4919
1	2.838	2.838	0.000	406583	0.5000	0.4953

Average of Peak Amounts = 0.4965

2	2.390	2.390	0.000	490202	0.5000	0.4990
2	2.493	2.493	0.000	1546751	0.5000	0.5273
2	2.696	2.696	0.000	409464	0.5000	0.5110
2	2.969	2.969	0.000	714307	0.5000	0.5071

Average of Peak Amounts = 0.5111

RPD = 2.89

9 PCB-1260

1	4.661	4.661	0.000	731010	0.5000	0.5899
1	4.847	4.847	0.000	671729	0.5000	0.5517
1	5.051	5.051	0.000	1690680	0.5000	0.5836
1	5.287	5.287	0.000	773664	0.5000	0.4944

Average of Peak Amounts = 0.5549

2	4.632	4.632	0.000	796540	0.5000	0.5804
2	4.699	4.699	0.000	602426	0.5000	0.5399
2	4.772	4.772	0.000	1882706	0.5000	0.6212
2	5.101	5.101	0.000	1109708	0.5000	0.5936

Average of Peak Amounts = 0.5838

RPD = 5.08

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_064.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl

1	6.482	6.482	0.000	759865	0.0300	0.0320	
2	6.087	6.087	0.000	822086	0.0300	0.0317	

RPD = 0.97

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_064.D

Injection Date: 20-Jan-2015 13:21:26

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 15

Client ID:

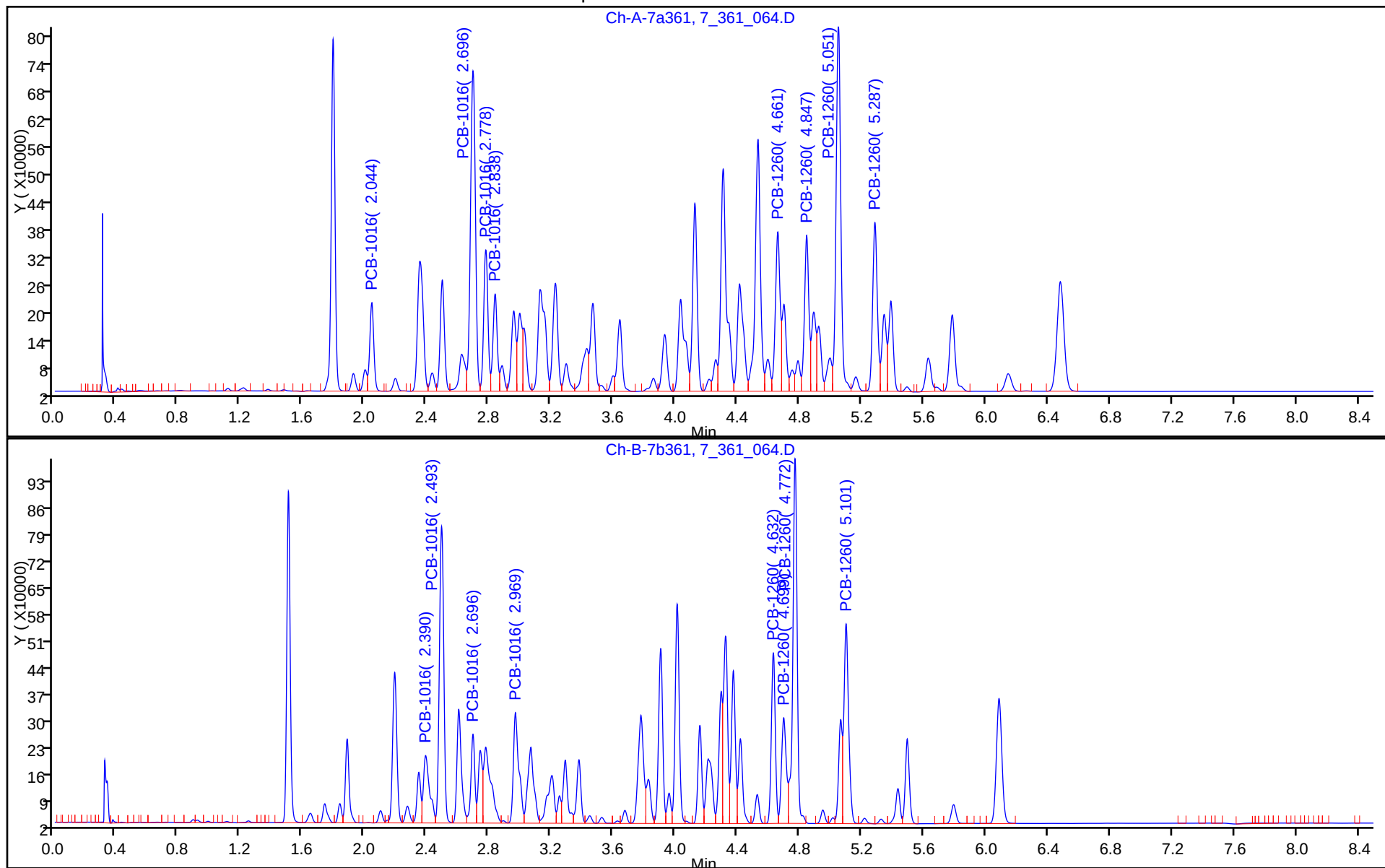
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Lab Sample ID: CCV 480-223637/21 Calibration Date: 01/20/2015 14:56
 Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
 Lab File ID: 7_361_070.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	730136	723244		0.495	0.500	-0.9	20.0
PCB-1016 Peak 2	Ave	3033286	3199372		0.527	0.500	5.5	20.0
PCB-1016 Peak 3	Ave	1205521	1212248		0.503	0.500	0.6	20.0
PCB-1016 Peak 4	Ave	820917	831828		0.507	0.500	1.3	20.0
PCB-1260 Peak 1	Ave	1239166	1525122		0.615	0.500	23.1*	20.0
PCB-1260 Peak 2	Ave	1217603	1360898		0.559	0.500	11.8	20.0
PCB-1260 Peak 3	Ave	2897224	3468386		0.599	0.500	19.7	20.0
PCB-1260 Peak 4	Ave	1564972	1599976		0.511	0.500	2.2	20.0
Tetrachloro-m-xylene	Ave	48960349	43973600		0.0269	0.0300	-10.2	20.0
DCB Decachlorobiphenyl	Lin		25915700		0.0328	0.0300	9.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Lab Sample ID: CCV 480-223637/21 Calibration Date: 01/20/2015 14:56
Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
Lab File ID: 7_361_070.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.05	2.02	2.08
PCB-1016 Peak 2	2.70	2.67	2.73
PCB-1016 Peak 3	2.78	2.75	2.81
PCB-1016 Peak 4	2.84	2.81	2.87
PCB-1260 Peak 1	4.66	4.63	4.69
PCB-1260 Peak 2	4.85	4.82	4.88
PCB-1260 Peak 3	5.05	5.02	5.08
PCB-1260 Peak 4	5.29	5.26	5.32
Tetrachloro-m-xylene	1.80	1.77	1.83
DCB Decachlorobiphenyl	6.48	6.42	6.54

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2015 14:56:46 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:04:24 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:04:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.796	1.796	0.000	1319208	0.0300	0.0269	
2	1.508	1.508	0.000	1340040	0.0300	0.0291	

RPD = 7.67

6 PCB-1016

M

1	2.045	2.045	0.000	361622	0.5000	0.4953	
1	2.698	2.698	0.000	1599686	0.5000	0.5274	M
1	2.778	2.778	0.000	606124	0.5000	0.5028	M
1	2.840	2.840	0.000	415914	0.5000	0.5066	M

Average of Peak Amounts = 0.5080

2	2.391	2.391	0.000	496761	0.5000	0.5057	
2	2.495	2.495	0.000	1575720	0.5000	0.5371	
2	2.697	2.697	0.000	414290	0.5000	0.5170	
2	2.971	2.971	0.000	725785	0.5000	0.5152	

Average of Peak Amounts = 0.5188

RPD = 2.09

9 PCB-1260

M

1	4.660	4.660	0.000	762561	0.5000	0.6154	M
1	4.847	4.847	0.000	680449	0.5000	0.5588	M
1	5.049	5.049	0.000	1734193	0.5000	0.5986	M
1	5.285	5.285	0.000	799988	0.5000	0.5112	M

Average of Peak Amounts = 0.5710

2	4.631	4.631	0.000	819797	0.5000	0.5973	
2	4.700	4.700	0.000	616644	0.5000	0.5526	
2	4.772	4.772	0.000	1910896	0.5000	0.6305	M
2	5.100	5.100	0.000	1158392	0.5000	0.6197	

Average of Peak Amounts = 0.6000

RPD = 4.96

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl M
1 6.483 6.483 0.000 777471 0.0300 0.0328 M
2 6.088 6.088 0.000 841953 0.0300 0.0325
RPD = 0.95

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D

Injection Date: 20-Jan-2015 14:56:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 21

Client ID:

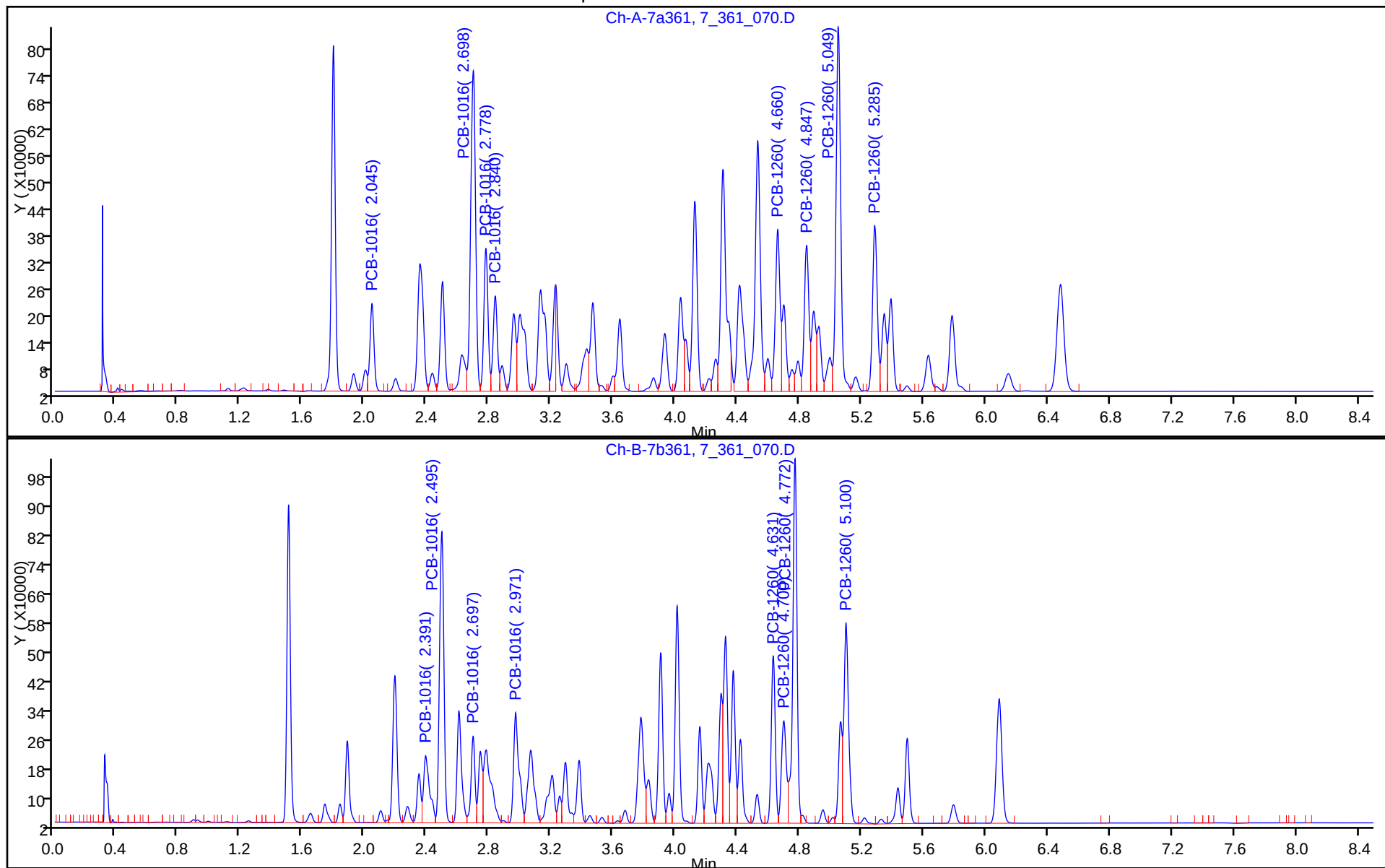
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D

Injection Date: 20-Jan-2015 14:56:46

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 21

Injection Vol: 1.0 ul

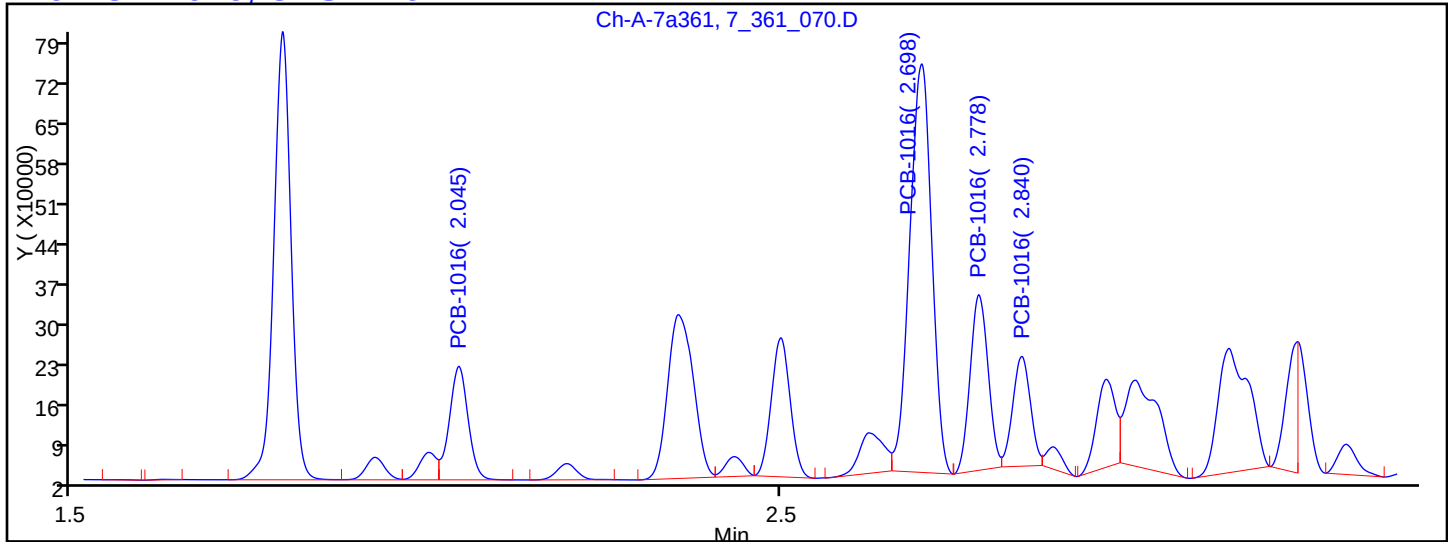
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

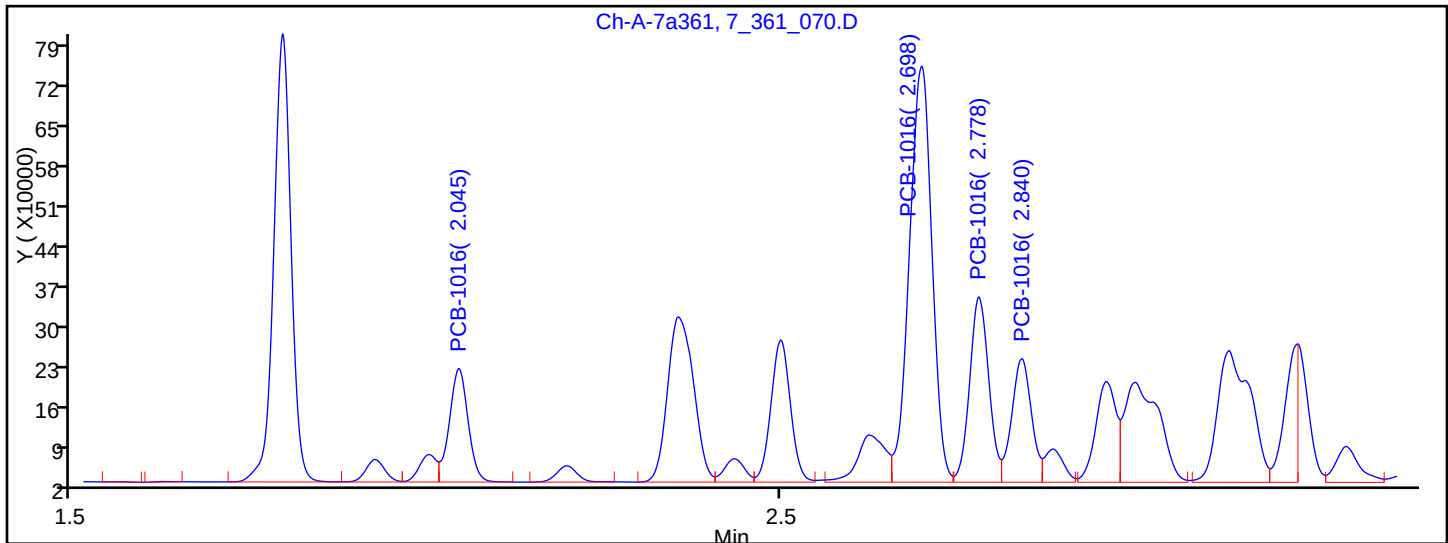
Column:

Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.045	Response = 361622	
RT = 2.698	Response = 1531428	M
RT = 2.778	Response = 539062	M
RT = 2.840	Response = 332903	M



Manual Integration Results

RT = 2.045	Response = 361622	
RT = 2.698	Response = 1599686	M
RT = 2.778	Response = 606124	M
RT = 2.840	Response = 415914	M

Reviewer: sobolk, 20-Jan-2015 15:20:14

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D

Injection Date: 20-Jan-2015 14:56:46

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 21

Injection Vol: 1.0 ul

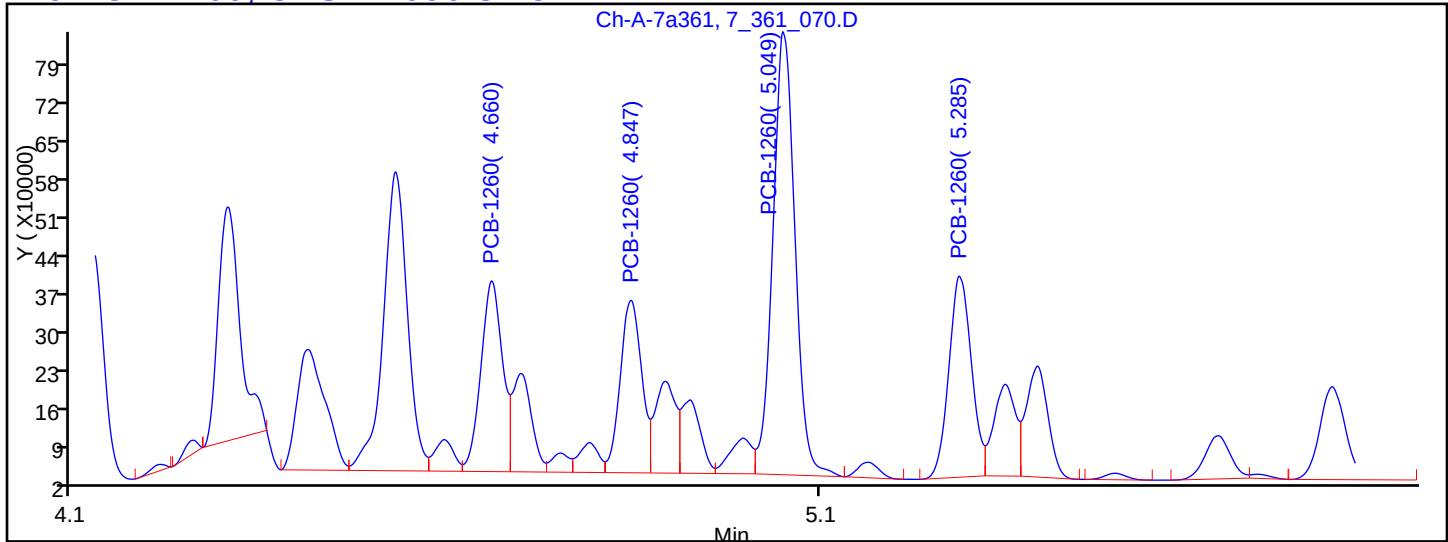
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

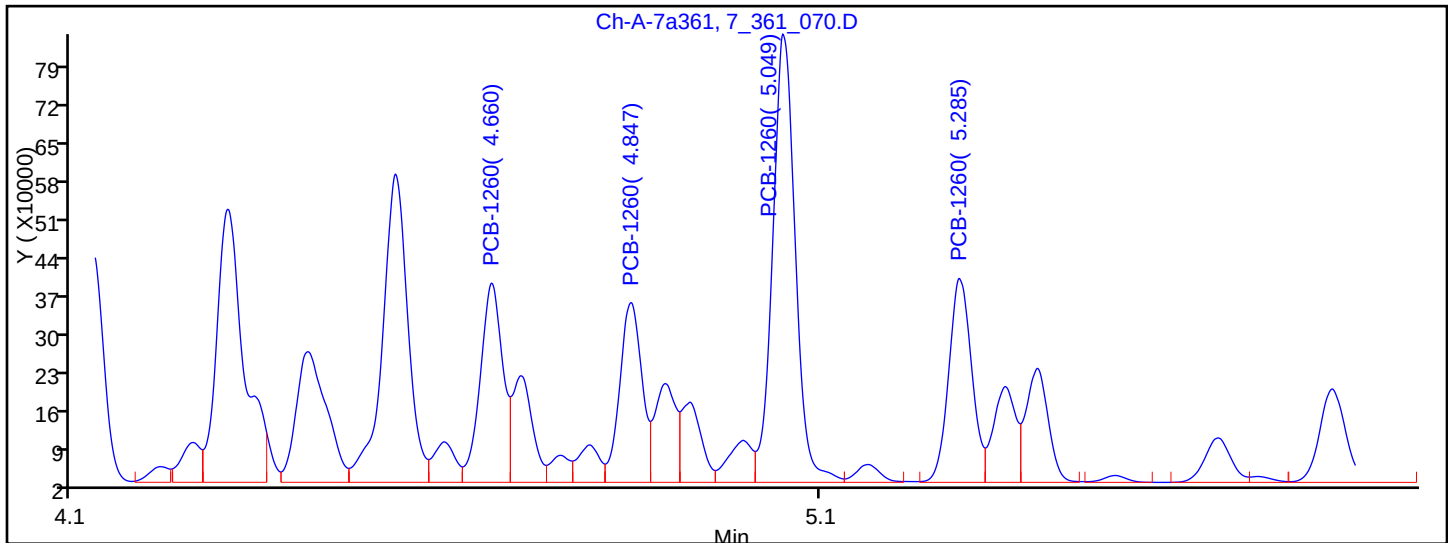
Column:

Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.660	Response = 702595	M
RT = 4.847	Response = 631632	M
RT = 5.049	Response = 1671413	M
RT = 5.285	Response = 775956	M



Manual Integration Results

RT = 4.660	Response = 762561	M
RT = 4.847	Response = 680449	M
RT = 5.049	Response = 1734193	M
RT = 5.285	Response = 799988	M

Reviewer: sobolk, 20-Jan-2015 15:20:14

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

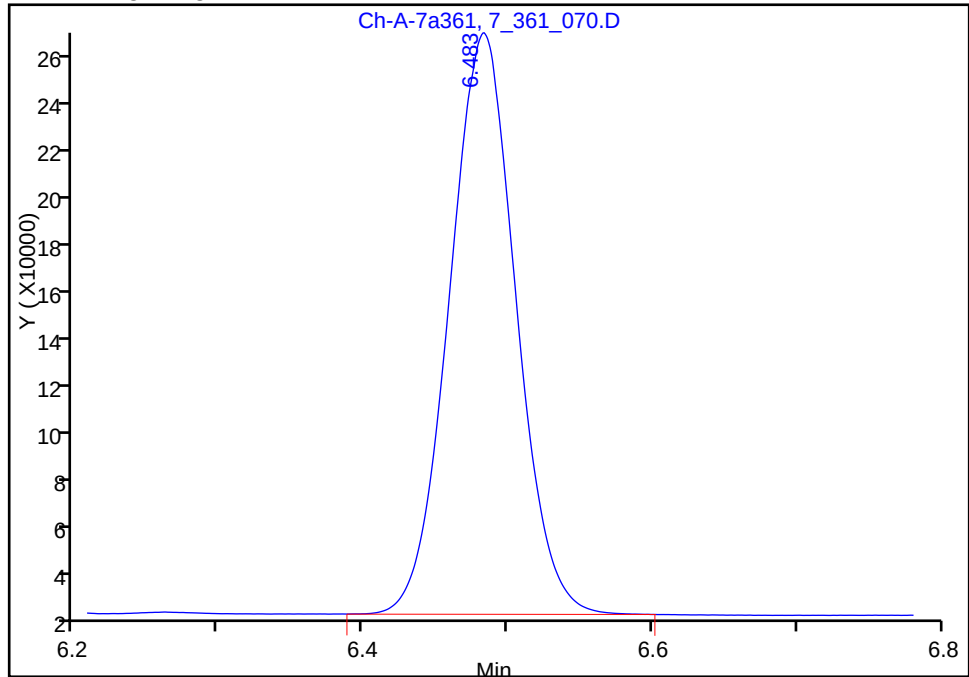
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D		
Injection Date:	20-Jan-2015 14:56:46	Instrument ID:	HP6890-7
Lims ID:	CCV		
Client ID:			
Operator ID:	buftchrom	ALS Bottle#:	0 Worklist Smp#: 21
Injection Vol:	1.0 ul	Dil. Factor:	1.0000
Method:	HP7-PCBS	Limit Group:	GC - 8082A PCB ICAL
Column:		Detector	Ch-A-7A136

\$ 12 DCB Decachlorobiphenyl, CAS: 2051-24-3

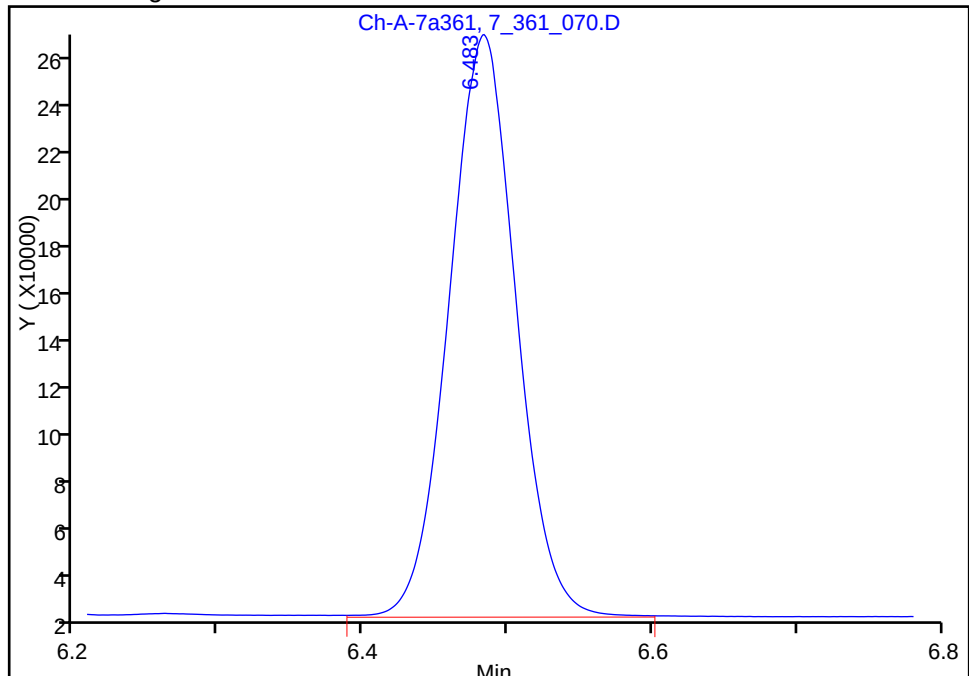
RT: 6.48
Area: 769509
Amount: 0.032450
Amount Units: ng/uL

Processing Integration Results



RT: 6.48
Area: 777471
Amount: 0.032797
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 20-Jan-2015 15:20:14
Audit Action: Assigned New Baseline
Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Lab Sample ID: CCV 480-223637/21 Calibration Date: 01/20/2015 14:56
 Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
 Lab File ID: 7_361_070.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	982379	993522		0.506	0.500	1.1	20.0
PCB-1016 Peak 2	Ave	2933613	3151440		0.537	0.500	7.4	20.0
PCB-1016 Peak 3	Ave	801309	828580		0.517	0.500	3.4	20.0
PCB-1016 Peak 4	Ave	1408672	1451570		0.515	0.500	3.0	20.0
PCB-1260 Peak 1	Ave	1372489	1639594		0.597	0.500	19.5	20.0
PCB-1260 Peak 2	Ave	1115803	1233288		0.553	0.500	10.5	20.0
PCB-1260 Peak 3	Ave	3030648	3821792		0.631	0.500	26.1*	20.0
PCB-1260 Peak 4	Ave	1869304	2316784		0.620	0.500	23.9*	20.0
Tetrachloro-m-xylene	Ave	46061469	44668000		0.0291	0.0300	-3.0	20.0
DCB Decachlorobiphenyl	Ave	25917591	28065100		0.0325	0.0300	8.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Lab Sample ID: CCV 480-223637/21 Calibration Date: 01/20/2015 14:56
Instrument ID: HP6890-7 Calib Start Date: 12/09/2014 19:21
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 12/09/2014 20:56
Lab File ID: 7_361_070.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.39	2.36	2.42
PCB-1016 Peak 2	2.50	2.47	2.53
PCB-1016 Peak 3	2.70	2.67	2.73
PCB-1016 Peak 4	2.97	2.94	3.00
PCB-1260 Peak 1	4.63	4.60	4.66
PCB-1260 Peak 2	4.70	4.67	4.73
PCB-1260 Peak 3	4.77	4.74	4.80
PCB-1260 Peak 4	5.10	5.07	5.13
Tetrachloro-m-xylene	1.51	1.48	1.54
DCB Decachlorobiphenyl	6.09	6.03	6.15

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Jan-2015 14:56:46 ALS Bottle#: 0 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:04:24 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:04:24

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.796	1.796	0.000	1319208	0.0300	0.0269	
2	1.508	1.508	0.000	1340040	0.0300	0.0291	

RPD = 7.67

6 PCB-1016

M

1	2.045	2.045	0.000	361622	0.5000	0.4953	
1	2.698	2.698	0.000	1599686	0.5000	0.5274	M
1	2.778	2.778	0.000	606124	0.5000	0.5028	M
1	2.840	2.840	0.000	415914	0.5000	0.5066	M

Average of Peak Amounts = 0.5080

2	2.391	2.391	0.000	496761	0.5000	0.5057	
2	2.495	2.495	0.000	1575720	0.5000	0.5371	
2	2.697	2.697	0.000	414290	0.5000	0.5170	
2	2.971	2.971	0.000	725785	0.5000	0.5152	

Average of Peak Amounts = 0.5188

RPD = 2.09

9 PCB-1260

M

1	4.660	4.660	0.000	762561	0.5000	0.6154	M
1	4.847	4.847	0.000	680449	0.5000	0.5588	M
1	5.049	5.049	0.000	1734193	0.5000	0.5986	M
1	5.285	5.285	0.000	799988	0.5000	0.5112	M

Average of Peak Amounts = 0.5710

2	4.631	4.631	0.000	819797	0.5000	0.5973	
2	4.700	4.700	0.000	616644	0.5000	0.5526	
2	4.772	4.772	0.000	1910896	0.5000	0.6305	M
2	5.100	5.100	0.000	1158392	0.5000	0.6197	

Average of Peak Amounts = 0.6000

RPD = 4.96

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 12 DCB Decachlorobiphenyl M
1 6.483 6.483 0.000 777471 0.0300 0.0328 M
2 6.088 6.088 0.000 841953 0.0300 0.0325
RPD = 0.95

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D

Injection Date: 20-Jan-2015 14:56:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 21

Client ID:

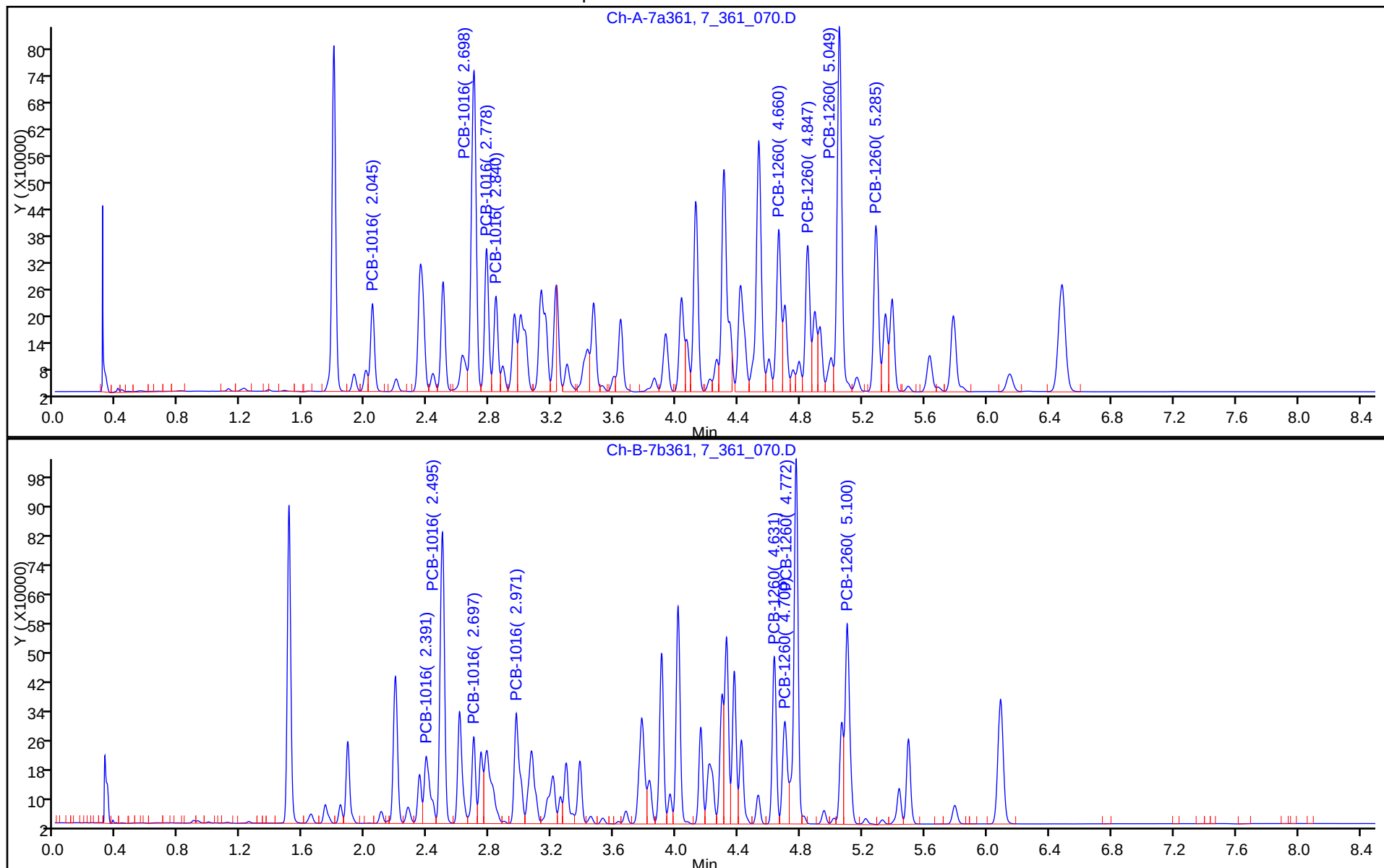
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_070.D

Injection Date: 20-Jan-2015 14:56:46

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

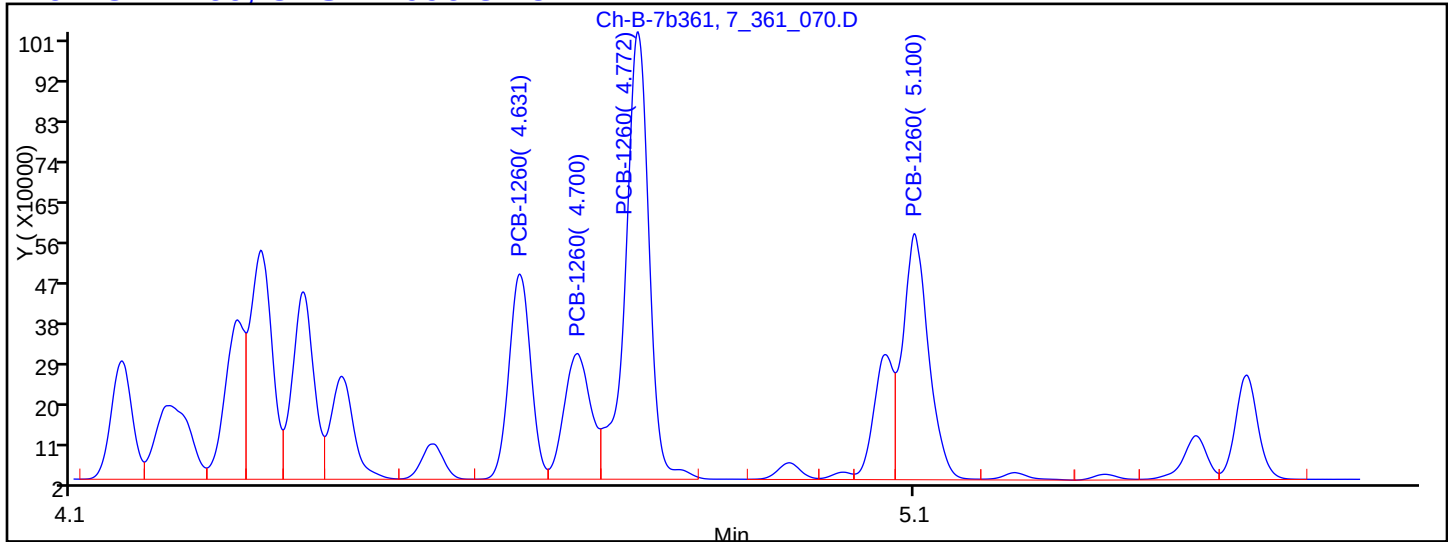
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

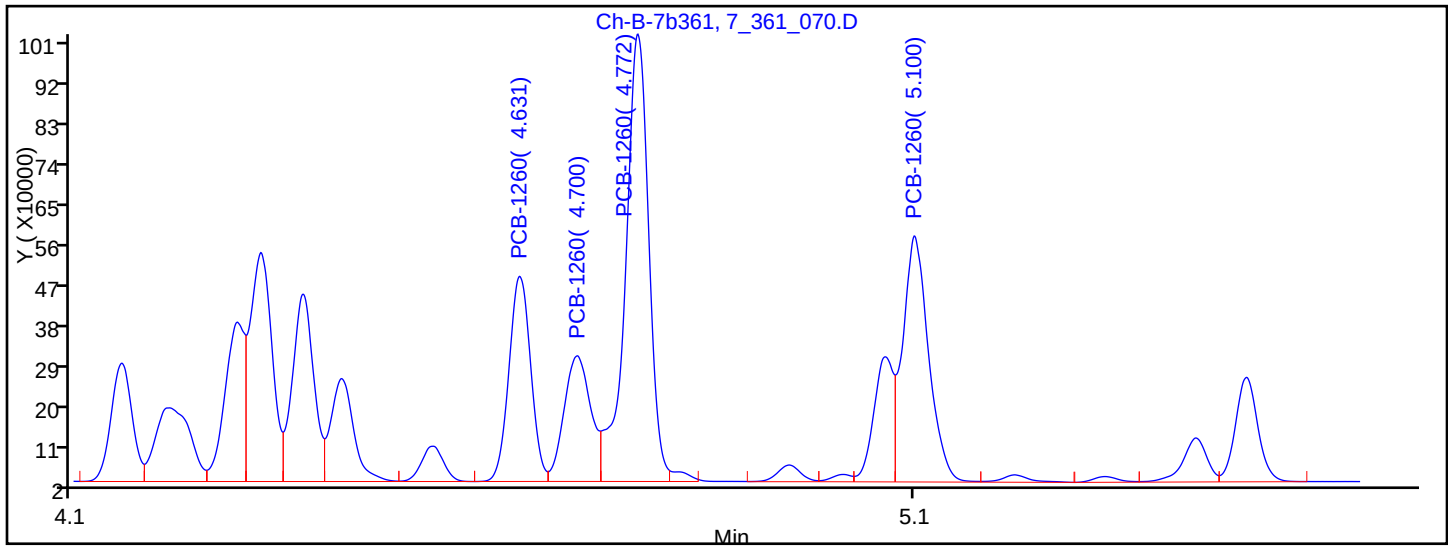
9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.631	Response = 819797
RT = 4.700	Response = 616644
RT = 4.772	Response = 1944915
RT = 5.100	Response = 1158392

M



Manual Integration Results

RT = 4.631	Response = 819797
RT = 4.700	Response = 616644
RT = 4.772	Response = 1910896
RT = 5.100	Response = 1158392

M

Reviewer: sobolk, 20-Jan-2015 15:20:14

Audit Action: Split an Integrated Peak

Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-223536/1-A
 Matrix: Solid Lab File ID: 7_361_054.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.42(g) Date Analyzed: 01/20/2015 10:43
 Con. Extract Vol.: 10(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.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	ND		210	40
11104-28-2	PCB-1221	ND		210	40
11141-16-5	PCB-1232	ND		210	40
53469-21-9	PCB-1242	ND		210	40
12672-29-6	PCB-1248	ND		210	40
11097-69-1	PCB-1254	ND		210	97
11096-82-5	PCB-1260	ND		210	97

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	127		47-176
877-09-8	Tetrachloro-m-xylene	105		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_054.D
 Lims ID: MB 480-223536/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 20-Jan-2015 10:43:08 ALS Bottle#: 0 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:06:19 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:06:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.797	1.794	0.003	1031389	0.0200	0.0211	
2	1.508	1.507	0.001	1047203	0.0200	0.0227	
RPD = 7.62							

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.001	609425	0.0200	0.0255	
2	6.087	6.088	-0.001	651636	0.0200	0.0251	
RPD = 1.29							

Reagents:

COPPER_00051 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_054.D

Injection Date: 20-Jan-2015 10:43:08

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: MB 480-223536/1-A

Worklist Smp#: 5

Client ID:

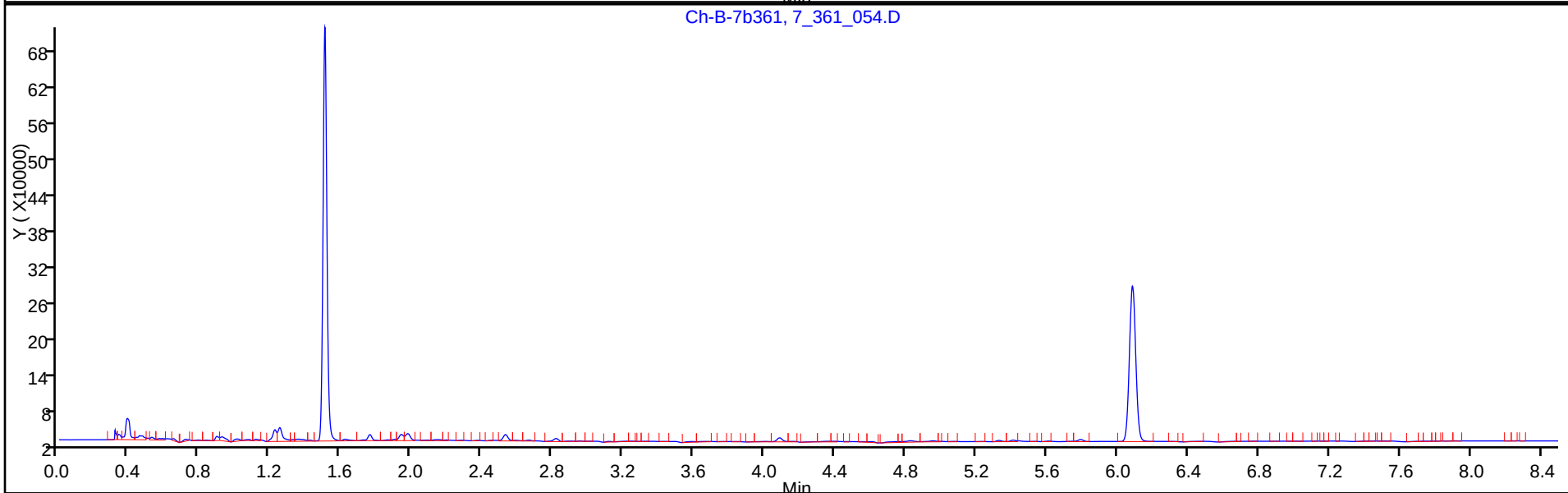
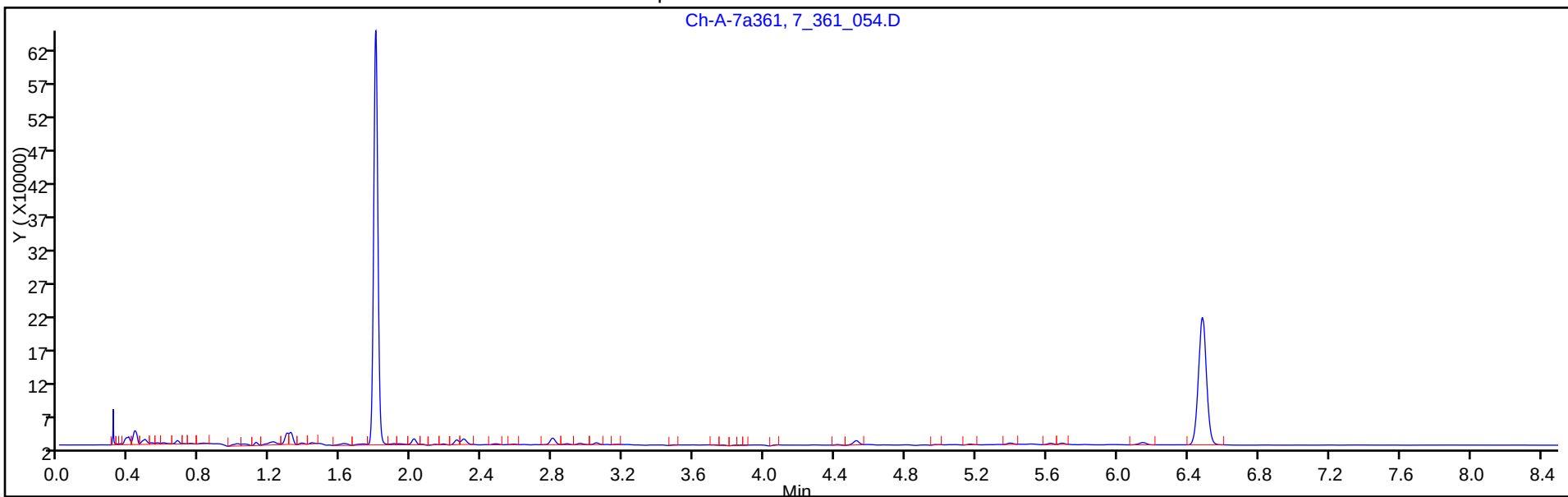
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-223536/1-A
Matrix: Solid Lab File ID: 7_361_054.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.42(g) Date Analyzed: 01/20/2015 10:43
Con. Extract Vol.: 10(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.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	126		47-176
877-09-8	Tetrachloro-m-xylene	114		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_054.D
Lims ID: MB 480-223536/1-A
Client ID:
Sample Type: MB
Inject. Date: 20-Jan-2015 10:43:08 ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 20-Jan-2015 18:06:19 Calib Date: 10-Dec-2014 01:10:21
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:06:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.797	1.794	0.003	1031389	0.0200	0.0211	
2	1.508	1.507	0.001	1047203	0.0200	0.0227	
RPD = 7.62							

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.001	609425	0.0200	0.0255	
2	6.087	6.088	-0.001	651636	0.0200	0.0251	
RPD = 1.29							

Reagents:

COPPER_00051 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_054.D

Injection Date: 20-Jan-2015 10:43:08

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: MB 480-223536/1-A

Worklist Smp#: 5

Client ID:

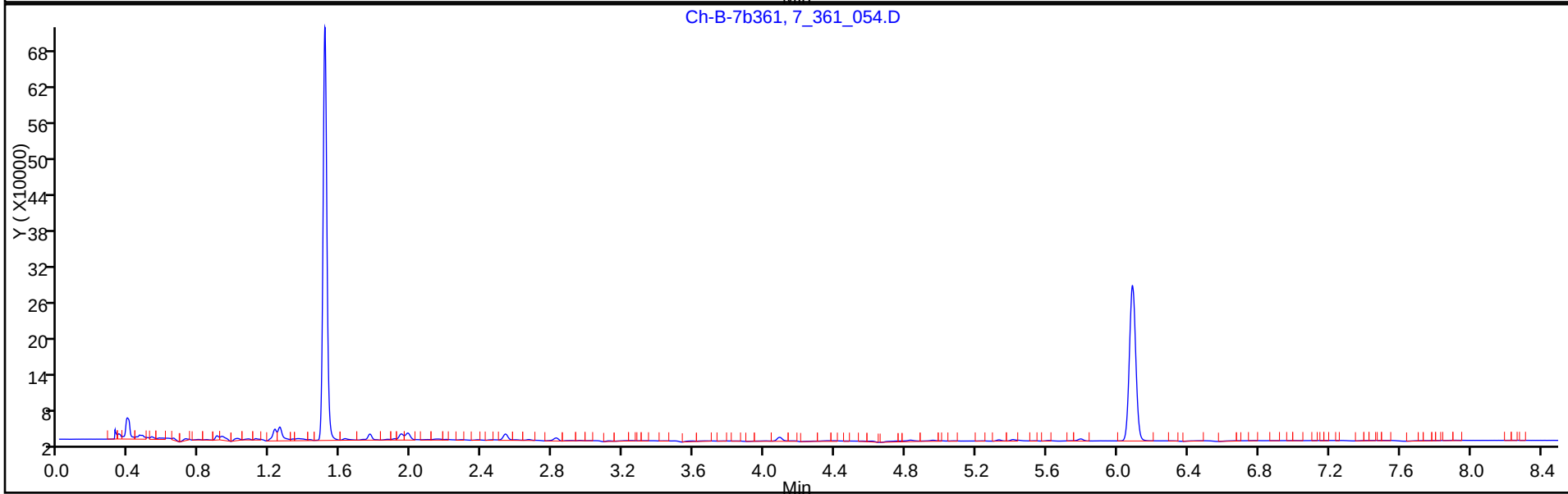
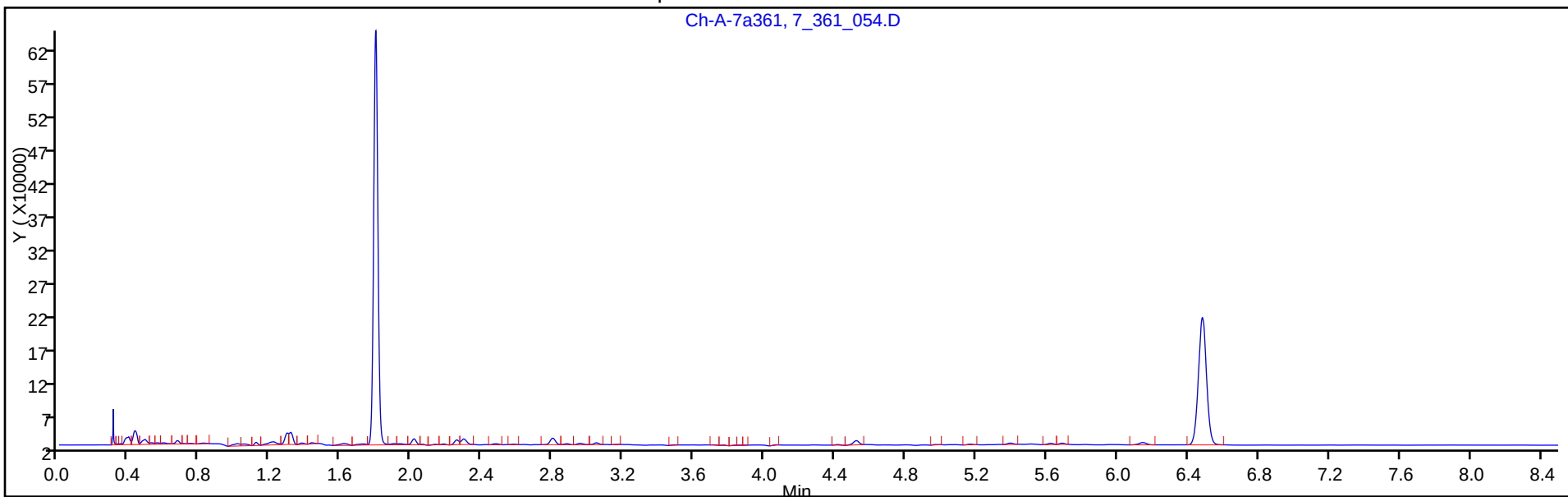
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-223542/1-A
 Matrix: Water Lab File ID: 7_361_066.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 01/19/2015 17:19
 Sample wt/vol: 250 (mL) Date Analyzed: 01/20/2015 13:53
 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.: 223637 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	75		19-126
877-09-8	Tetrachloro-m-xylene	79		23-127

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_066.D
 Lims ID: MB 480-223542/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 20-Jan-2015 13:53:18 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:18:53 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:18:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	771507	0.0200	0.0158	
2	1.506	1.507	-0.001	786049	0.0200	0.0171	
RPD = 7.97							

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.001	370454	0.0200	0.0150	
2	6.087	6.088	-0.001	384823	0.0200	0.0148	
RPD = 1.33							

Reagents:

COPPER_00051 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 20-Jan-2015 18:18:53

Chrom Revision: 2.2 15-Jan-2015 13:05:58

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_066.D

Injection Date: 20-Jan-2015 13:53:18

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: MB 480-223542/1-A

Worklist Smp#: 17

Client ID:

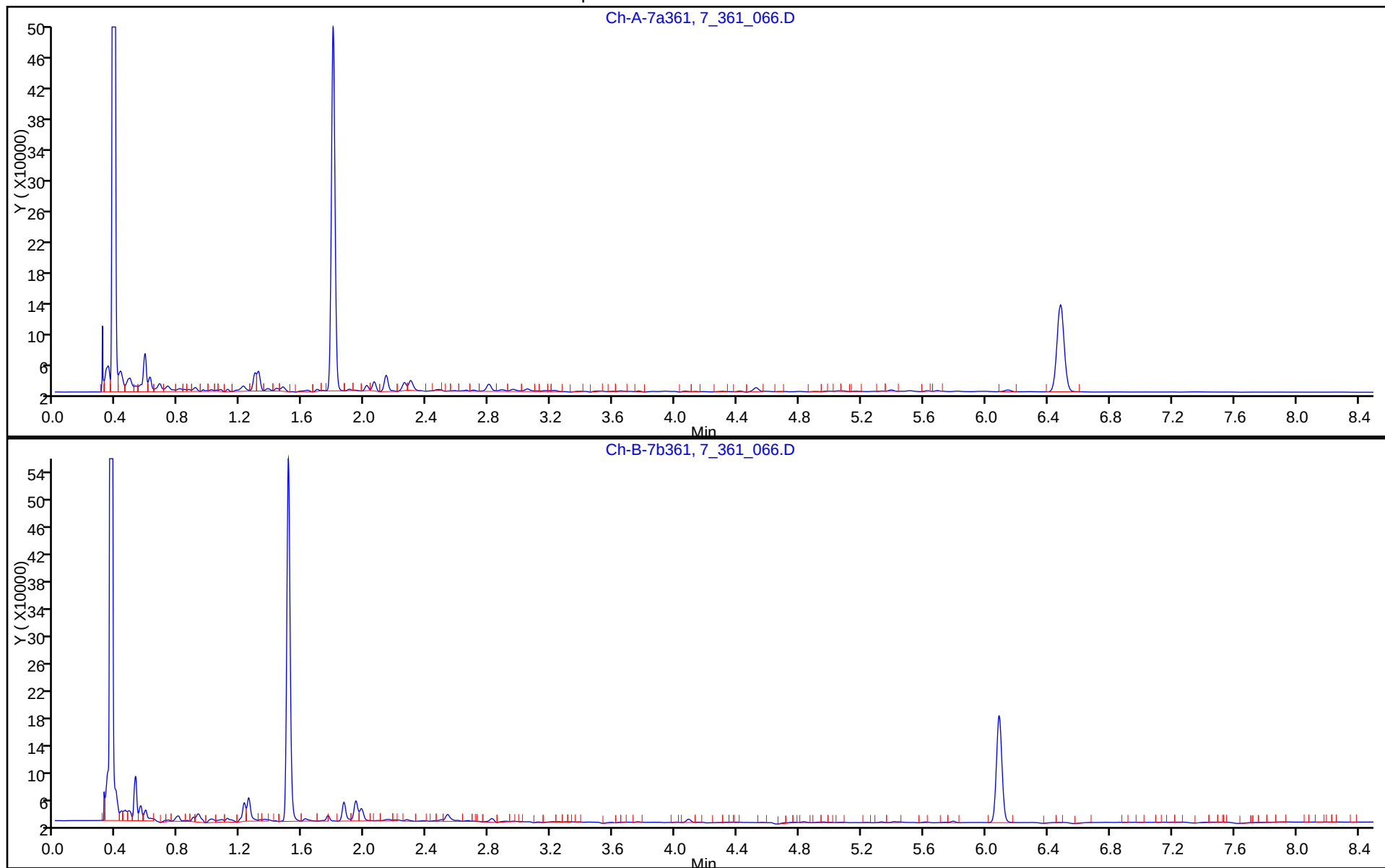
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-223542/1-A
Matrix: Water Lab File ID: 7_361_066.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3510C Date Extracted: 01/19/2015 17:19
Sample wt/vol: 250 (mL) Date Analyzed: 01/20/2015 13:53
Con. Extract Vol.: 2 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	74		19-126
877-09-8	Tetrachloro-m-xylene	85		23-127

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_066.D
 Lims ID: MB 480-223542/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 20-Jan-2015 13:53:18 ALS Bottle#: 0 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:18:53 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:18:53

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.794	1.794	0.000	771507	0.0200	0.0158	
2	1.506	1.507	-0.001	786049	0.0200	0.0171	
						RPD =	7.97

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.001	370454	0.0200	0.0150	
2	6.087	6.088	-0.001	384823	0.0200	0.0148	
						RPD =	1.33

Reagents:

COPPER_00051 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_066.D

Injection Date: 20-Jan-2015 13:53:18

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: MB 480-223542/1-A

Worklist Smp#: 17

Client ID:

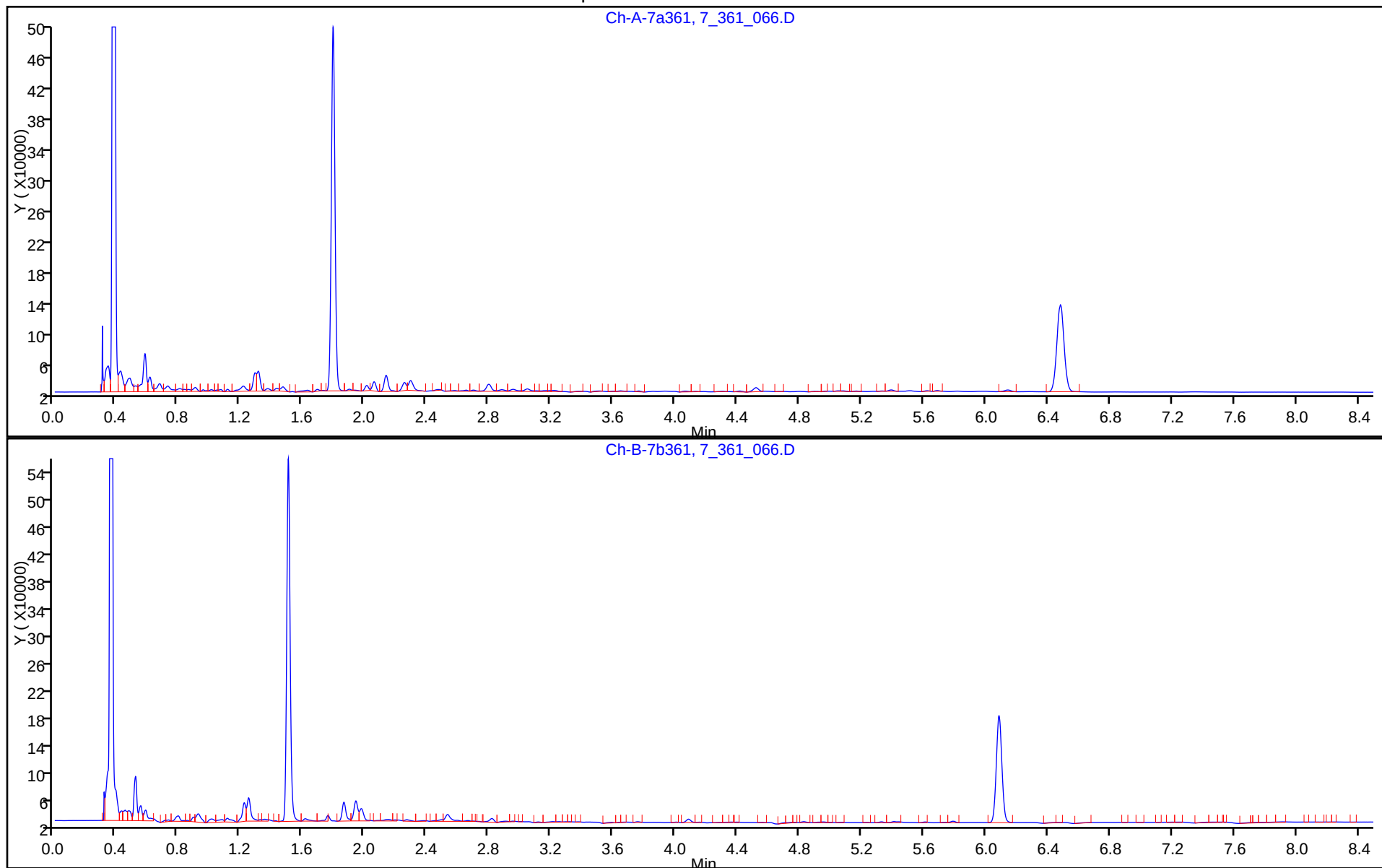
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-223536/2-A

Matrix: Solid Lab File ID: 7_361_055.D

Analysis Method: 8082A Date Collected: _____

Extraction Method: 3550C Date Extracted: 01/19/2015 17:07

Sample wt/vol: +2.68(g) Date Analyzed: 01/20/2015 10:58

Con. Extract Vol.: 10 (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.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	2280		190	36
11096-82-5	PCB-1260	2620		190	87

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	139		47-176
877-09-8	Tetrachloro-m-xylene	118		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_055.D
 Lims ID: LCS 480-223536/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Jan-2015 10:58:54 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:06:35 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk Date: 20-Jan-2015 18:06:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	1151099	0.0200	0.0235	
2	1.507	1.507	0.000	1097971	0.0200	0.0238	
						RPD = 1.38	

6 PCB-1016

1	2.044	2.043	0.001	414014	0.5000	0.5670	
1	2.698	2.696	0.002	1951648	0.5000	0.6434	
1	2.778	2.777	0.001	737960	0.5000	0.6122	
1	2.839	2.838	0.001	512924	0.5000	0.6248	
Average of Peak Amounts =						0.6119	
2	2.390	2.390	0.000	581444	0.5000	0.5919	
2	2.493	2.494	-0.001	1952035	0.5000	0.6654	
2	2.696	2.695	0.001	496197	0.5000	0.6192	
2	2.969	2.970	-0.001	886311	0.5000	0.6292	
Average of Peak Amounts =						0.6264	
						RPD = 2.35	

9 PCB-1260

1	4.659	4.659	0.000	909954	0.5000	0.7343	
1	4.846	4.845	0.001	848140	0.5000	0.6966	
1	5.052	5.051	0.001	2090291	0.5000	0.7215	
1	5.288	5.285	0.003	1020491	0.5000	0.6521	
Average of Peak Amounts =						0.7011	
2	4.631	4.631	0.000	948375	0.5000	0.6910	
2	4.700	4.698	0.002	750307	0.5000	0.6724	
2	4.771	4.772	-0.001	2380349	0.5000	0.7854	
2	5.100	5.100	0.000	1419272	0.5000	0.7593	
Average of Peak Amounts =						0.7270	
						RPD = 3.63	

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.000	662325	0.0200	0.0278	
2	6.087	6.088	-0.001	712138	0.0200	0.0275	
						RPD = 1.08	

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_055.D

Injection Date: 20-Jan-2015 10:58:54

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCS 480-223536/2-A

Worklist Smp#: 6

Client ID:

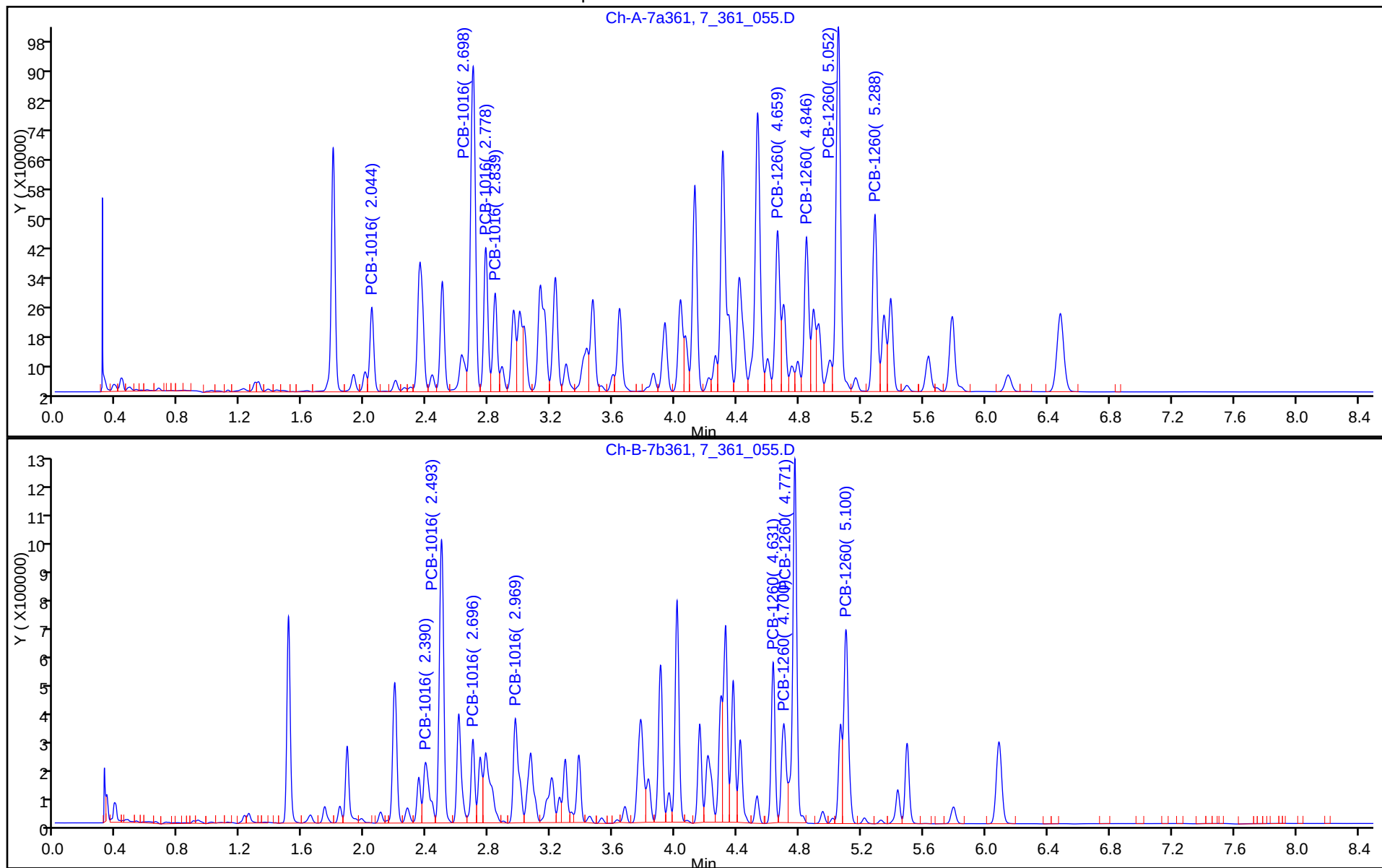
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-223536/2-A
Matrix: Solid Lab File ID: 7_361_055.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.68(g) Date Analyzed: 01/20/2015 10:58
Con. Extract Vol.: 10(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.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	137		47-176
877-09-8	Tetrachloro-m-xylene	119		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_055.D
 Lims ID: LCS 480-223536/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Jan-2015 10:58:54 ALS Bottle#: 0 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:06:35 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:06:35

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	1151099	0.0200	0.0235	
2	1.507	1.507	0.000	1097971	0.0200	0.0238	
						RPD = 1.38	

6 PCB-1016

1	2.044	2.043	0.001	414014	0.5000	0.5670	
1	2.698	2.696	0.002	1951648	0.5000	0.6434	
1	2.778	2.777	0.001	737960	0.5000	0.6122	
1	2.839	2.838	0.001	512924	0.5000	0.6248	
Average of Peak Amounts =						0.6119	
2	2.390	2.390	0.000	581444	0.5000	0.5919	
2	2.493	2.494	-0.001	1952035	0.5000	0.6654	
2	2.696	2.695	0.001	496197	0.5000	0.6192	
2	2.969	2.970	-0.001	886311	0.5000	0.6292	
Average of Peak Amounts =						0.6264	
						RPD = 2.35	

9 PCB-1260

1	4.659	4.659	0.000	909954	0.5000	0.7343	
1	4.846	4.845	0.001	848140	0.5000	0.6966	
1	5.052	5.051	0.001	2090291	0.5000	0.7215	
1	5.288	5.285	0.003	1020491	0.5000	0.6521	
Average of Peak Amounts =						0.7011	
2	4.631	4.631	0.000	948375	0.5000	0.6910	
2	4.700	4.698	0.002	750307	0.5000	0.6724	
2	4.771	4.772	-0.001	2380349	0.5000	0.7854	
2	5.100	5.100	0.000	1419272	0.5000	0.7593	
Average of Peak Amounts =						0.7270	
						RPD = 3.63	

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.000	662325	0.0200	0.0278	
2	6.087	6.088	-0.001	712138	0.0200	0.0275	
						RPD = 1.08	

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_055.D

Injection Date: 20-Jan-2015 10:58:54

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCS 480-223536/2-A

Worklist Smp#: 6

Client ID:

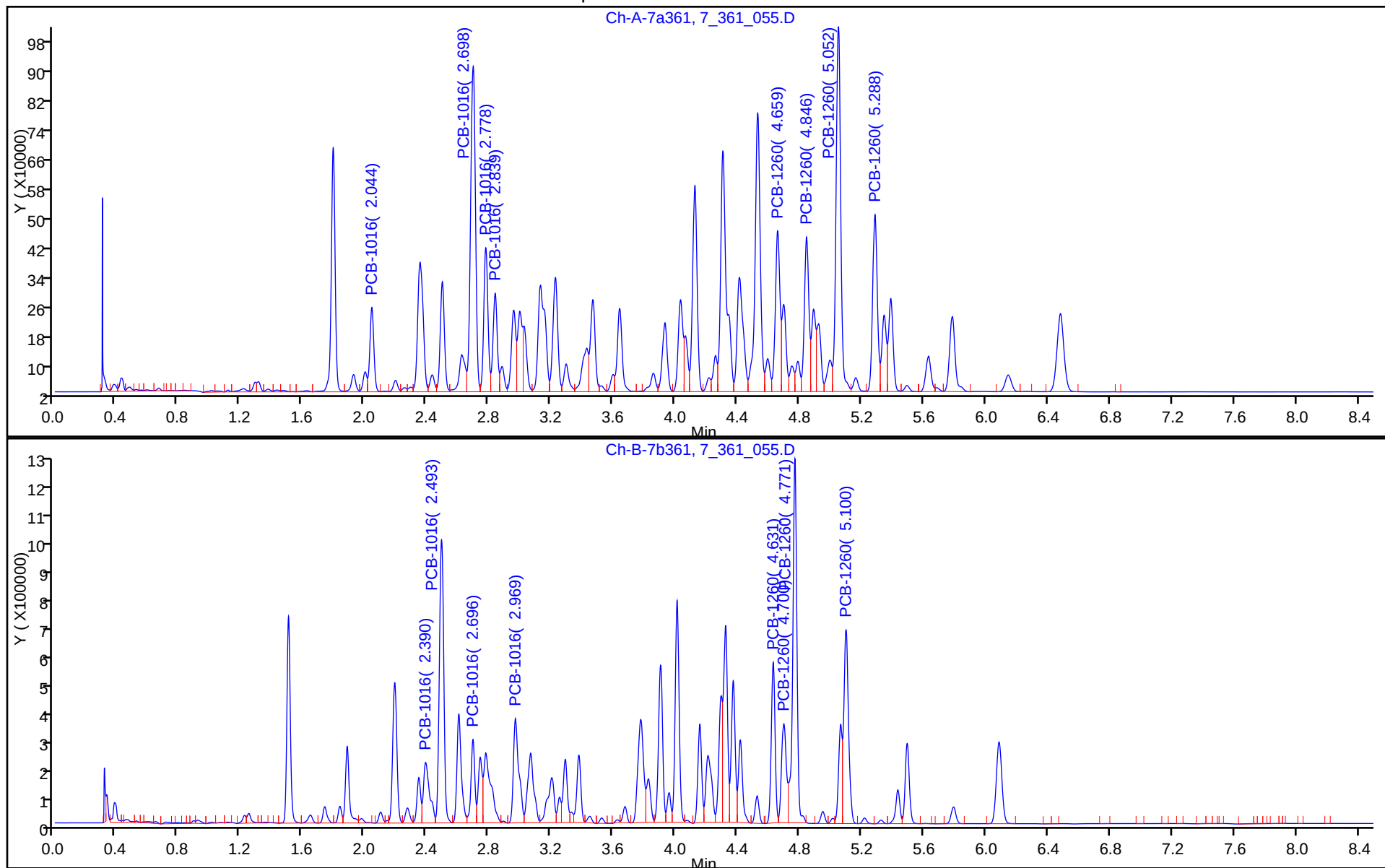
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-223542/2-A
 Matrix: Water Lab File ID: 7_361_067.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 01/19/2015 17:19
 Sample wt/vol: 250 (mL) Date Analyzed: 01/20/2015 14:09
 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.: 223637 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.60		0.50	0.18
11096-82-5	PCB-1260	3.96		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	67		19-126
877-09-8	Tetrachloro-m-xylene	83		23-127

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_067.D
 Lims ID: LCS 480-223542/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Jan-2015 14:09:04 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:19:39 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:19:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M

1	1.795	1.794	0.001	809181	0.0200	0.0165	M
2	1.508	1.507	0.001	781843	0.0200	0.0170	

RPD = 2.67

6 PCB-1016 M

1	2.045	2.043	0.002	281698	0.5000	0.3858	
1	2.698	2.696	0.002	1444762	0.5000	0.4763	M
1	2.779	2.777	0.002	560665	0.5000	0.4651	M
1	2.838	2.838	0.000	388899	0.5000	0.4737	M

Average of Peak Amounts = 0.4502

2	2.393	2.390	0.002	447033	0.5000	0.4551	M
2	2.495	2.494	0.001	1459600	0.5000	0.4975	M
2	2.697	2.695	0.002	386125	0.5000	0.4819	M
2	2.972	2.970	0.002	680704	0.5000	0.4832	M

Average of Peak Amounts = 0.4794

RPD = 6.28

9 PCB-1260 M

1	4.660	4.659	0.001	645941	0.5000	0.5213	M
1	4.848	4.845	0.003	617735	0.5000	0.5073	M
1	5.049	5.051	-0.002	1464071	0.5000	0.5053	M
1	5.287	5.285	0.002	694614	0.5000	0.4439	M

Average of Peak Amounts = 0.4944

2	4.631	4.631	0.000	667825	0.5000	0.4866	
2	4.698	4.698	0.000	513014	0.5000	0.4598	M
2	4.772	4.772	0.000	1653185	0.5000	0.5455	M
2	5.102	5.100	0.002	950274	0.5000	0.5084	M

Average of Peak Amounts = 0.5000

RPD = 1.13

\$ 12 DCB Decachlorobiphenyl

1	6.485	6.482	0.003	333993	0.0200	0.0135	
2	6.087	6.088	-0.001	355247	0.0200	0.0137	

Page 292 of 356
RPD = 1.84

01/22/2015

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_067.D

Injection Date: 20-Jan-2015 14:09:04

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCS 480-223542/2-A

Worklist Smp#: 18

Client ID:

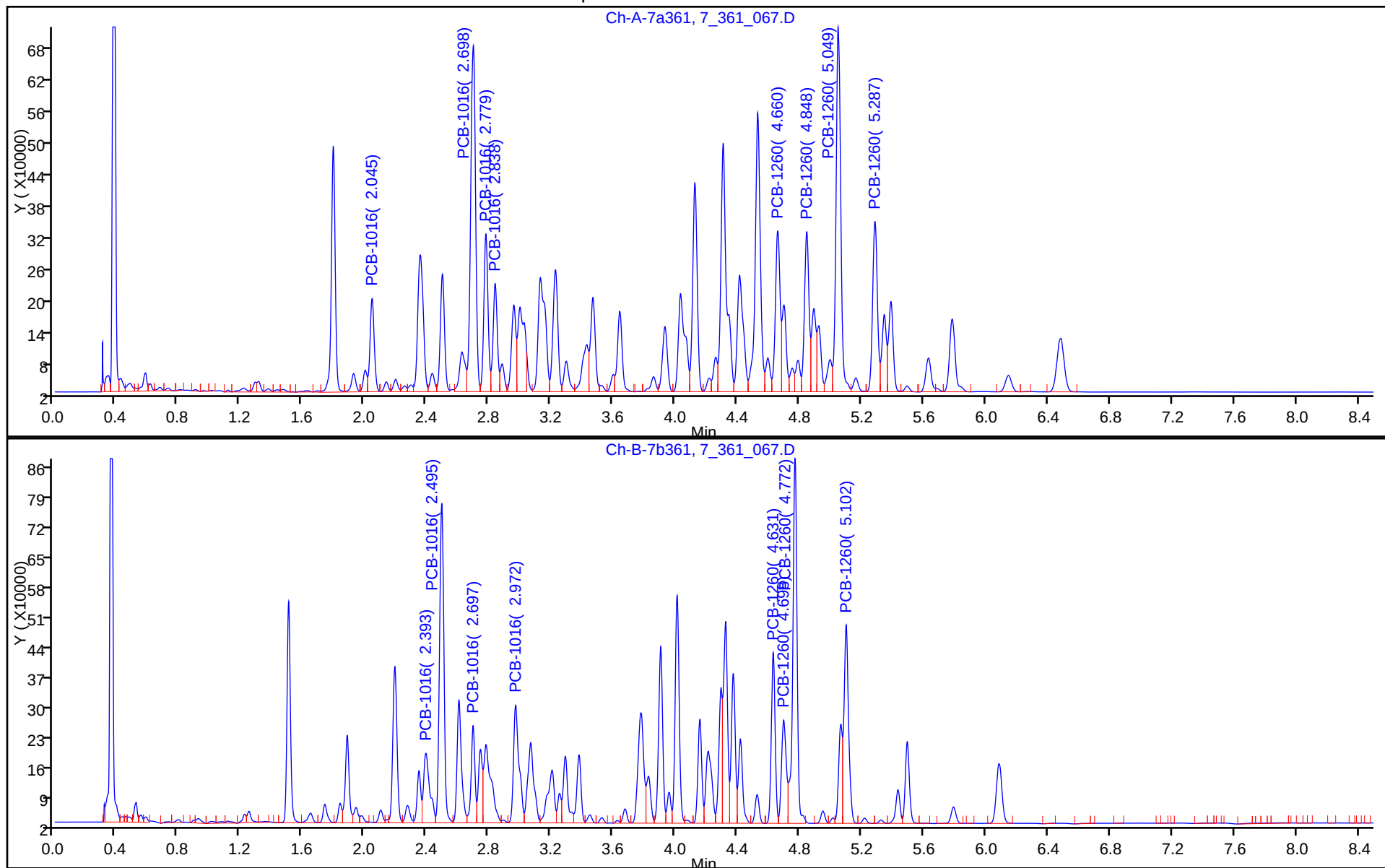
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_067.D

Injection Date: 20-Jan-2015 14:09:04

Instrument ID: HP6890-7

Lims ID: LCS 480-223542/2-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 18

Injection Vol: 1.0 ul

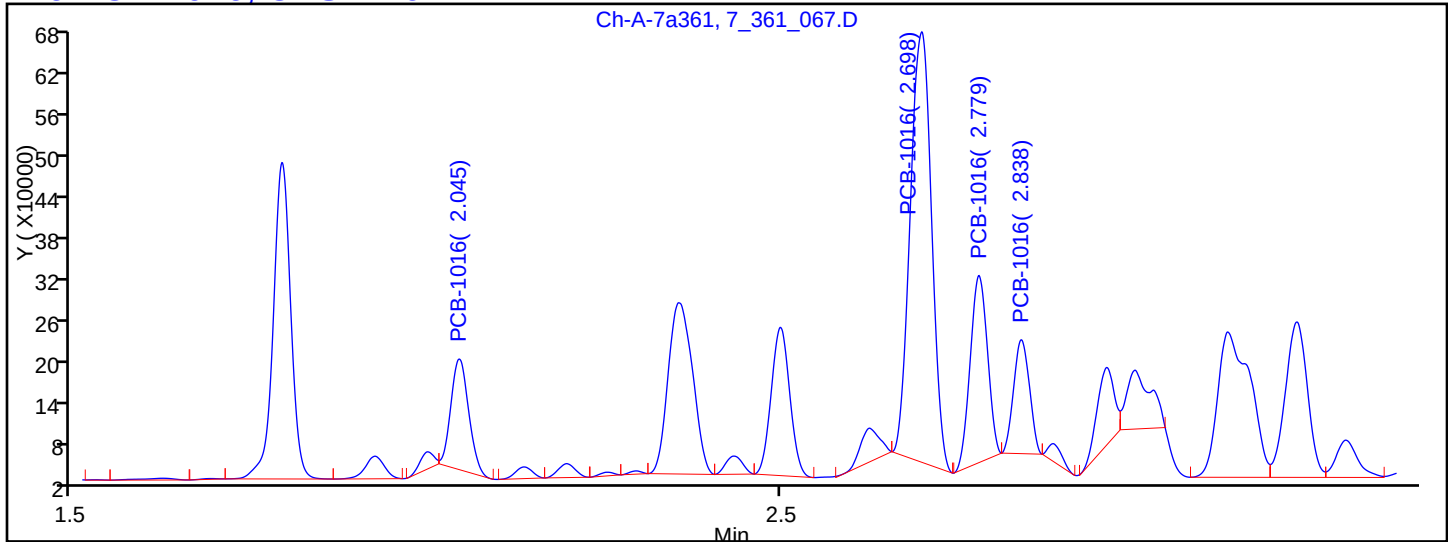
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

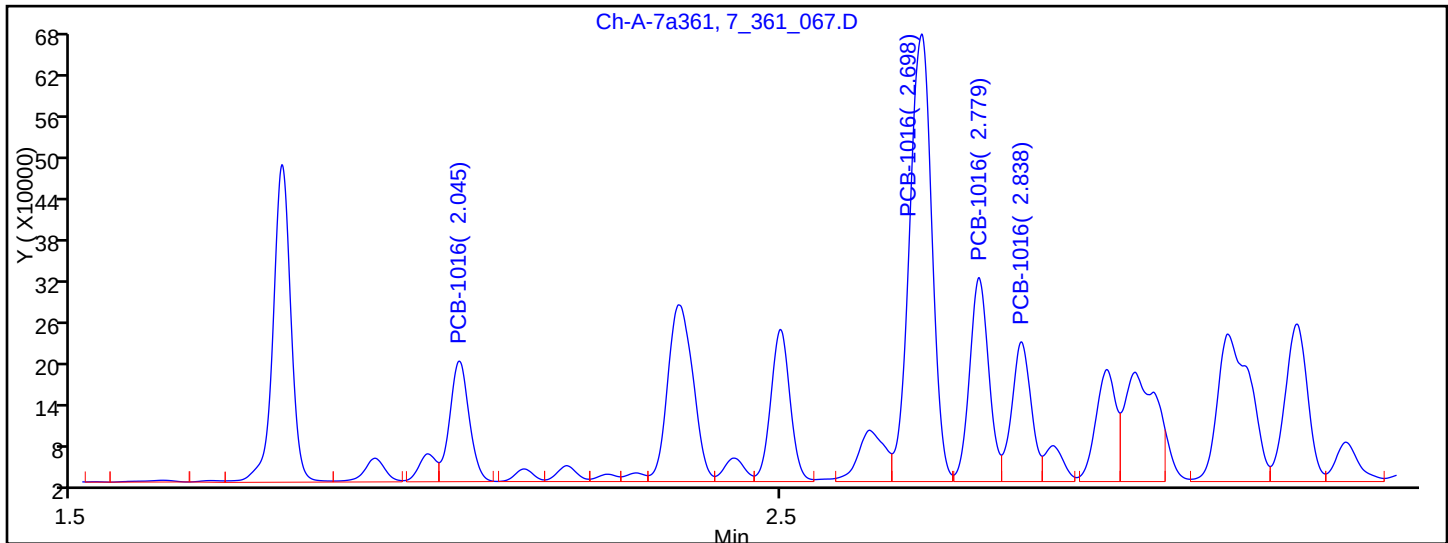
Column:

Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.045	Response = 281698	
RT = 2.698	Response = 1316198	M
RT = 2.779	Response = 463866	M
RT = 2.838	Response = 258649	M



Manual Integration Results

RT = 2.045	Response = 281698	
RT = 2.698	Response = 1444762	M
RT = 2.779	Response = 560665	M
RT = 2.838	Response = 388899	M

Reviewer: sobolk, 20-Jan-2015 18:19:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\\ChromData\\HP6890-07\\20150120-39034.b\\7_361_067.D

Injection Date: 20-Jan-2015 14:09:04

Instrument ID: HP6890-7

Lims ID: LCS 480-223542/2-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

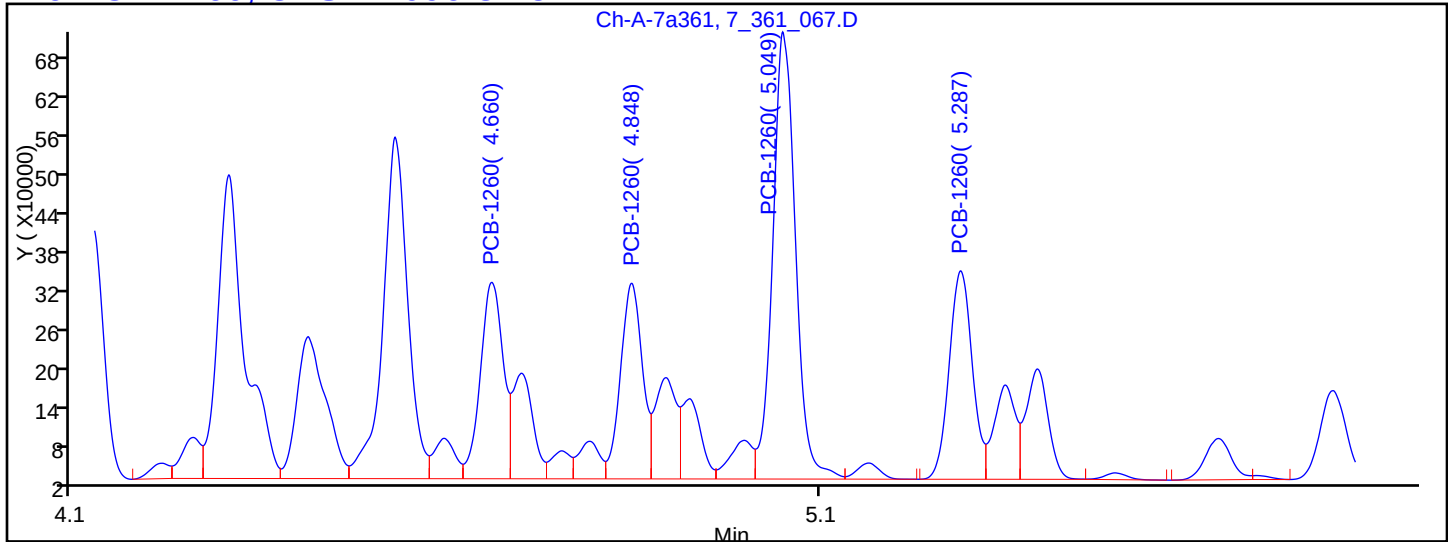
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

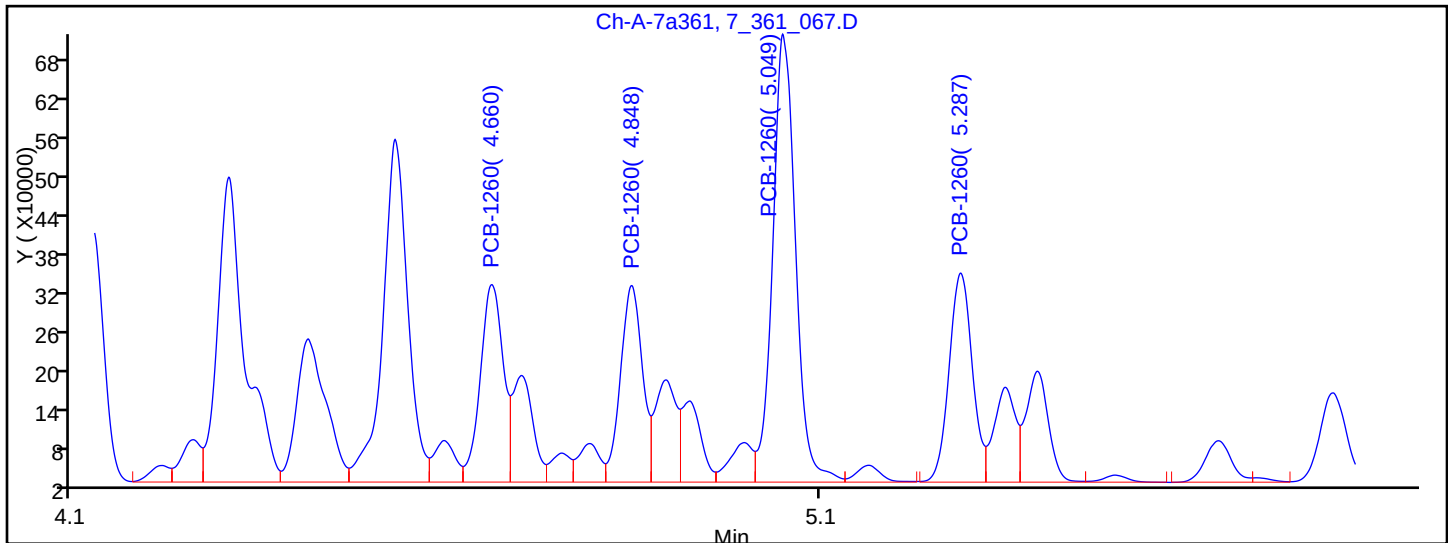
Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.660	Response = 639607	M
RT = 4.848	Response = 612350	M
RT = 5.049	Response = 1455118	M
RT = 5.287	Response = 689393	M



Manual Integration Results

RT = 4.660	Response = 645941	M
RT = 4.848	Response = 617735	M
RT = 5.049	Response = 1464071	M
RT = 5.287	Response = 694614	M

Reviewer: sobolk, 20-Jan-2015 18:19:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

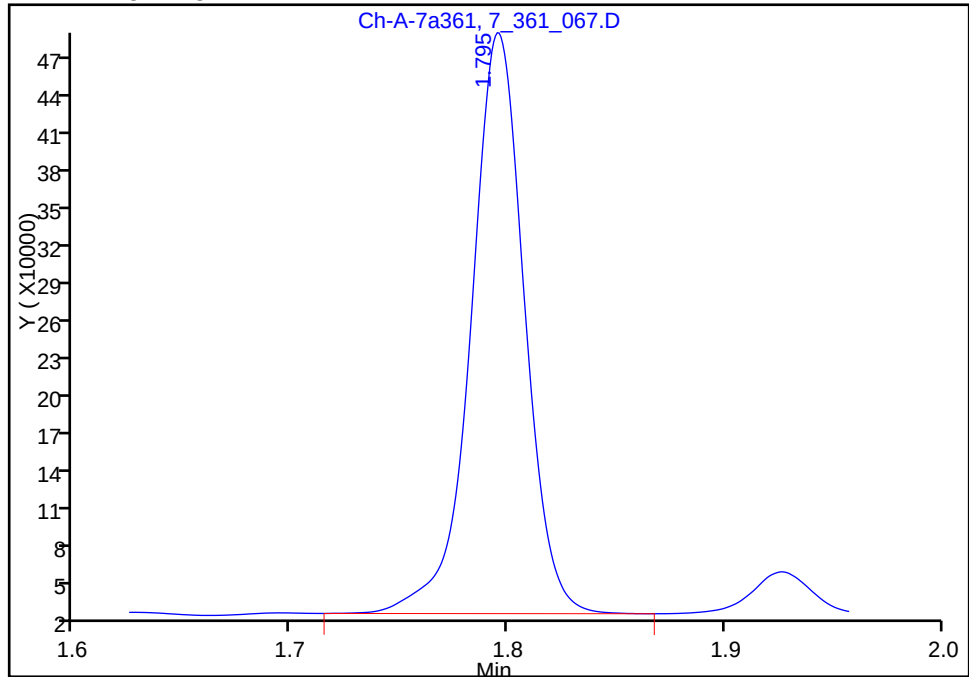
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_067.D
Injection Date: 20-Jan-2015 14:09:04 Instrument ID: HP6890-7
Lims ID: LCS 480-223542/2-A
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 18
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-A-7A136

\$ 3 Tetrachloro-m-xylene, CAS: 877-09-8

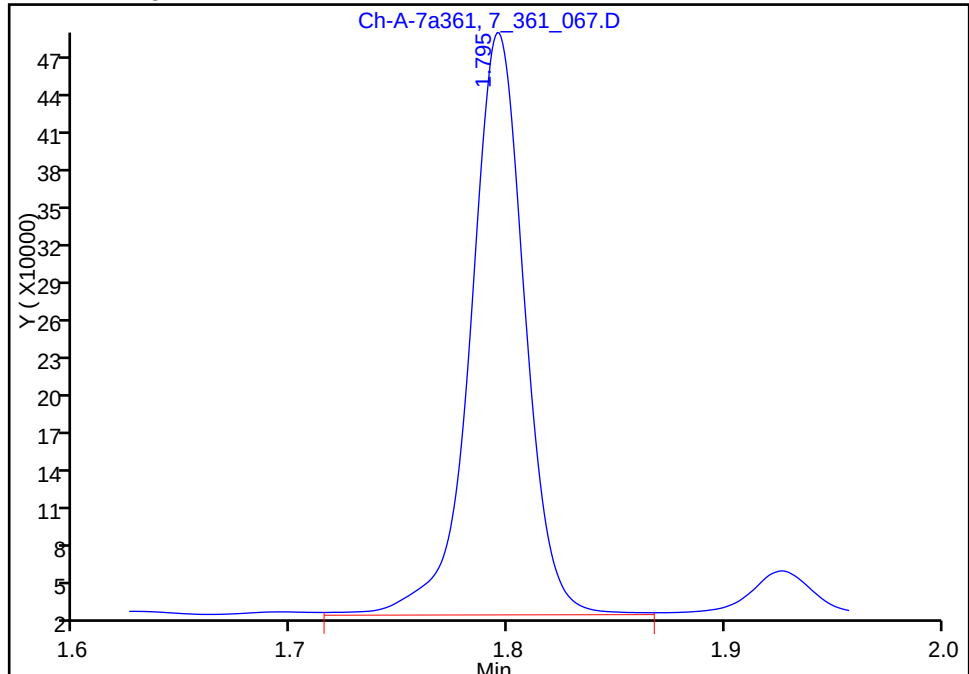
RT: 1.80
Area: 792382
Amount: 0.016184
Amount Units: ng/uL

Processing Integration Results



RT: 1.80
Area: 809181
Amount: 0.016527
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 20-Jan-2015 18:19:39
Audit Action: Assigned New Baseline
Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 480-223542/2-A
Matrix: Water Lab File ID: 7_361_067.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3510C Date Extracted: 01/19/2015 17:19
Sample wt/vol: 250 (mL) Date Analyzed: 01/20/2015 14:09
Con. Extract Vol.: 2 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	69		19-126
877-09-8	Tetrachloro-m-xylene	85		23-127

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_067.D
 Lims ID: LCS 480-223542/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 20-Jan-2015 14:09:04 ALS Bottle#: 0 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:19:39 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:19:39

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene M

1	1.795	1.794	0.001	809181	0.0200	0.0165	M
2	1.508	1.507	0.001	781843	0.0200	0.0170	

RPD = 2.67

6 PCB-1016 M

1	2.045	2.043	0.002	281698	0.5000	0.3858	
1	2.698	2.696	0.002	1444762	0.5000	0.4763	M
1	2.779	2.777	0.002	560665	0.5000	0.4651	M
1	2.838	2.838	0.000	388899	0.5000	0.4737	M

Average of Peak Amounts = 0.4502

2	2.393	2.390	0.002	447033	0.5000	0.4551	M
2	2.495	2.494	0.001	1459600	0.5000	0.4975	M
2	2.697	2.695	0.002	386125	0.5000	0.4819	M
2	2.972	2.970	0.002	680704	0.5000	0.4832	M

Average of Peak Amounts = 0.4794

RPD = 6.28

9 PCB-1260 M

1	4.660	4.659	0.001	645941	0.5000	0.5213	M
1	4.848	4.845	0.003	617735	0.5000	0.5073	M
1	5.049	5.051	-0.002	1464071	0.5000	0.5053	M
1	5.287	5.285	0.002	694614	0.5000	0.4439	M

Average of Peak Amounts = 0.4944

2	4.631	4.631	0.000	667825	0.5000	0.4866	
2	4.698	4.698	0.000	513014	0.5000	0.4598	M
2	4.772	4.772	0.000	1653185	0.5000	0.5455	M
2	5.102	5.100	0.002	950274	0.5000	0.5084	M

Average of Peak Amounts = 0.5000

RPD = 1.13

\$ 12 DCB Decachlorobiphenyl

1	6.485	6.482	0.003	333993	0.0200	0.0135	
2	6.087	6.088	-0.001	355247	0.0200	0.0137	

Page 299 of 356
RPD = 1.84

01/22/2015

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_067.D

Injection Date: 20-Jan-2015 14:09:04

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCS 480-223542/2-A

Worklist Smp#: 18

Client ID:

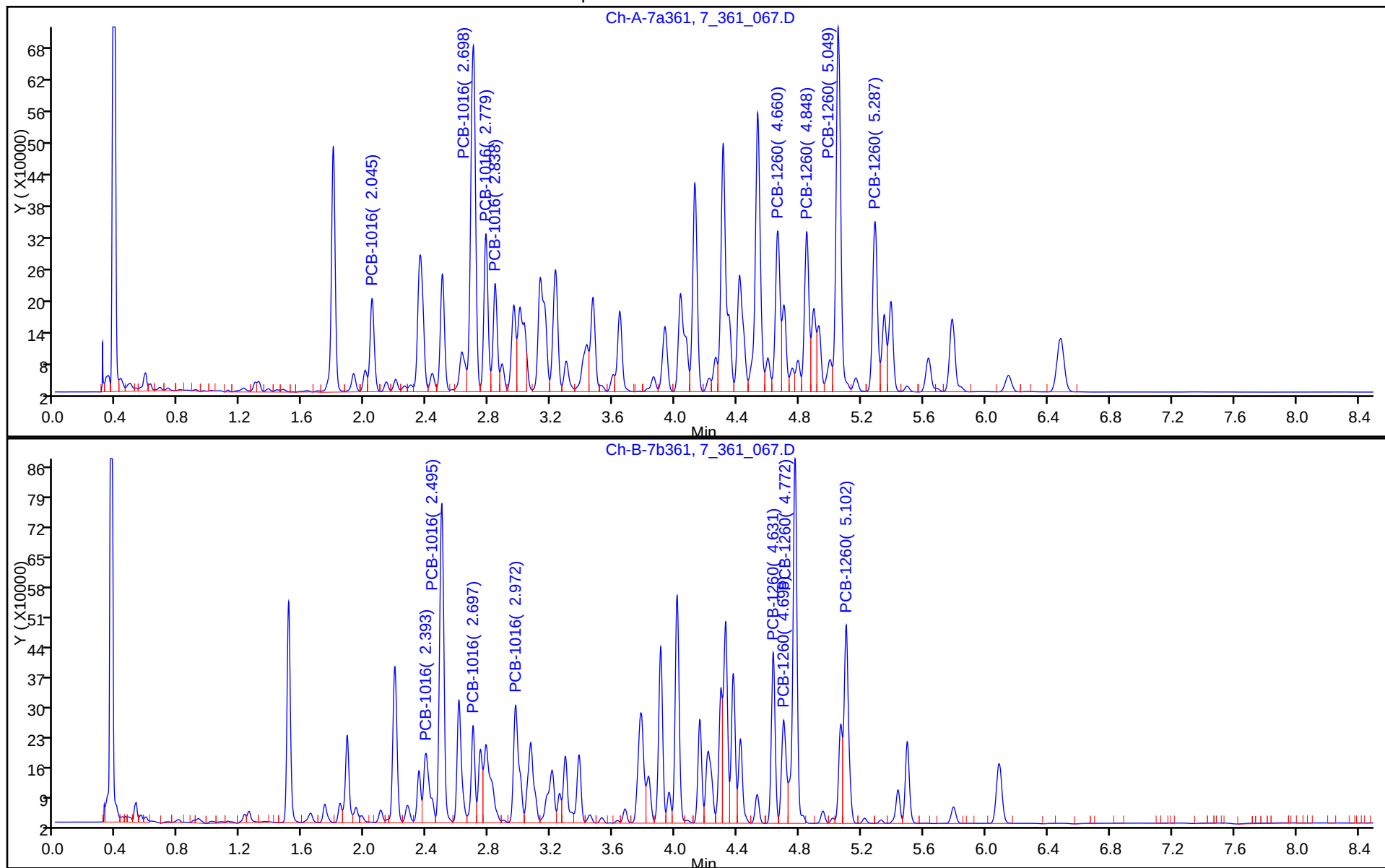
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_067.D

Injection Date: 20-Jan-2015 14:09:04

Instrument ID: HP6890-7

Lims ID: LCS 480-223542/2-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

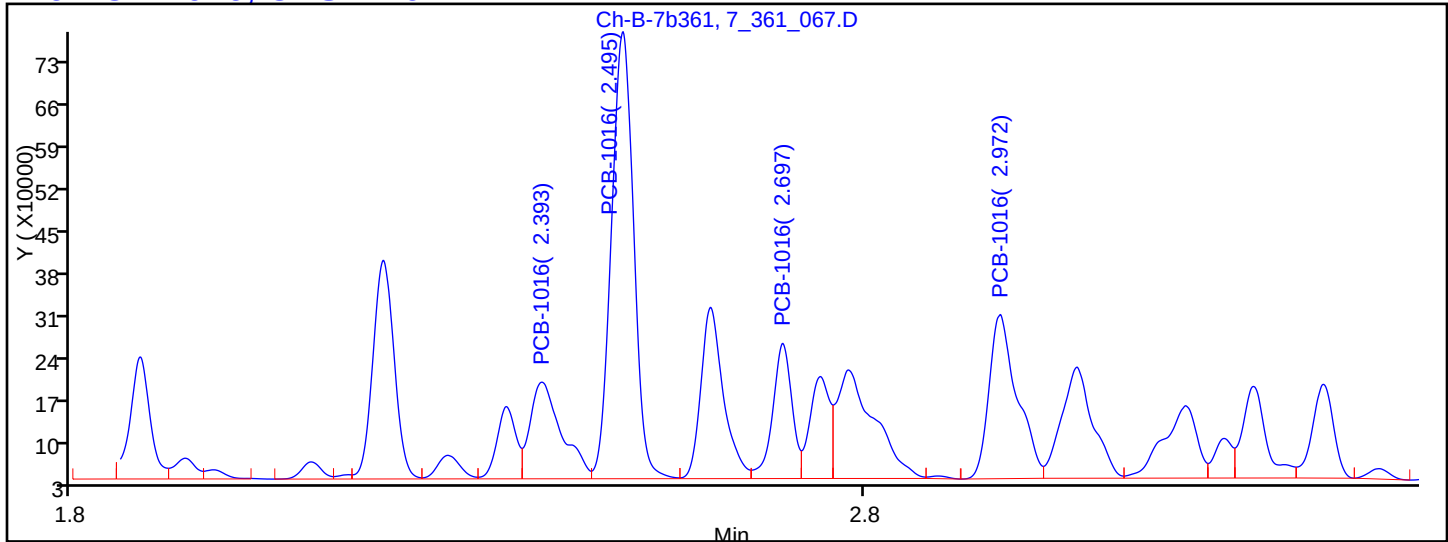
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

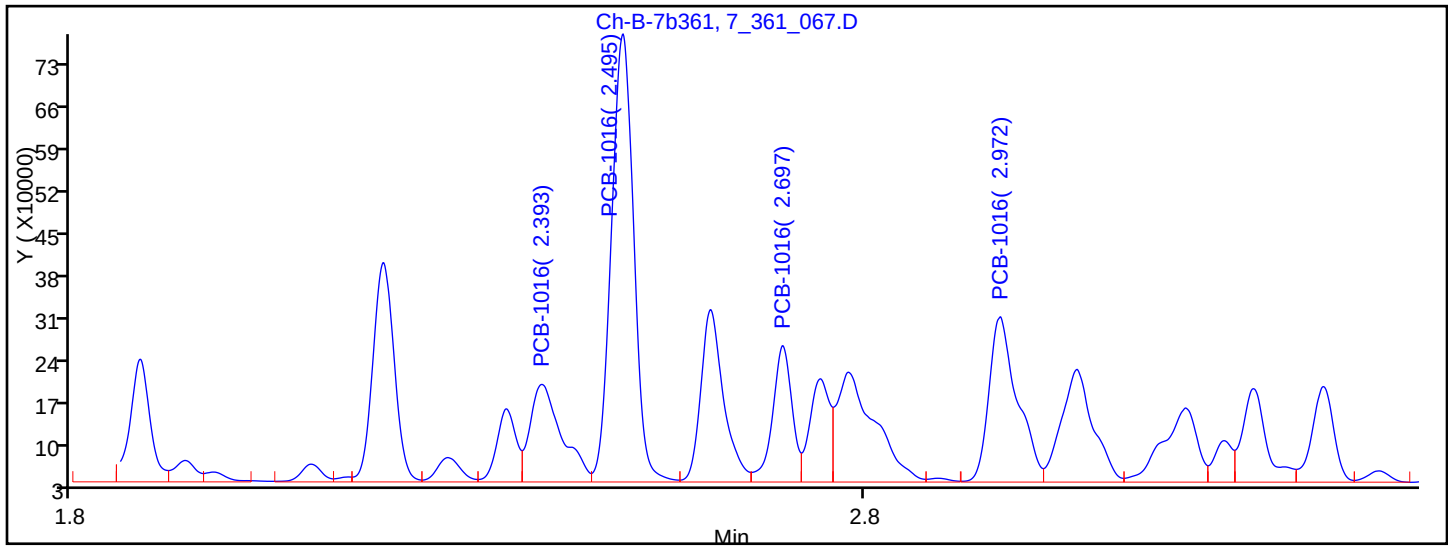
Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.393	Response = 438893	M
RT = 2.495	Response = 1448243	M
RT = 2.697	Response = 378504	M
RT = 2.972	Response = 668601	M



Manual Integration Results

RT = 2.393	Response = 447033	M
RT = 2.495	Response = 1459600	M
RT = 2.697	Response = 386125	M
RT = 2.972	Response = 680704	M

Reviewer: sobolk, 20-Jan-2015 18:19:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_067.D

Injection Date: 20-Jan-2015 14:09:04

Instrument ID: HP6890-7

Lims ID: LCS 480-223542/2-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 18

Injection Vol: 1.0 ul

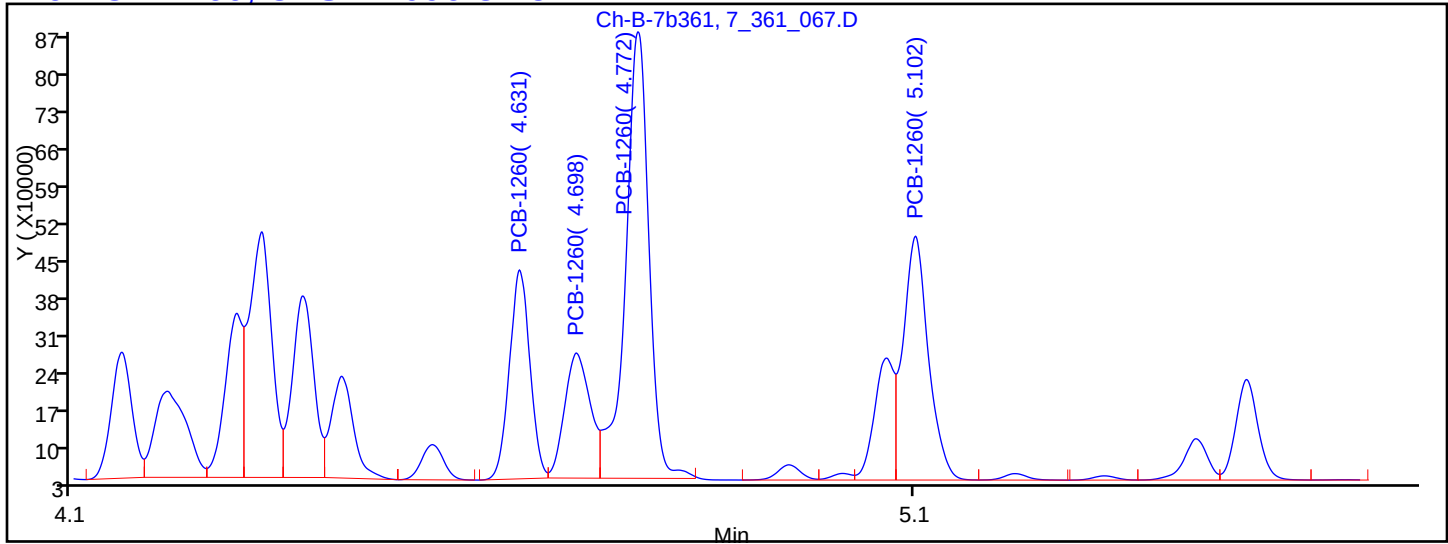
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

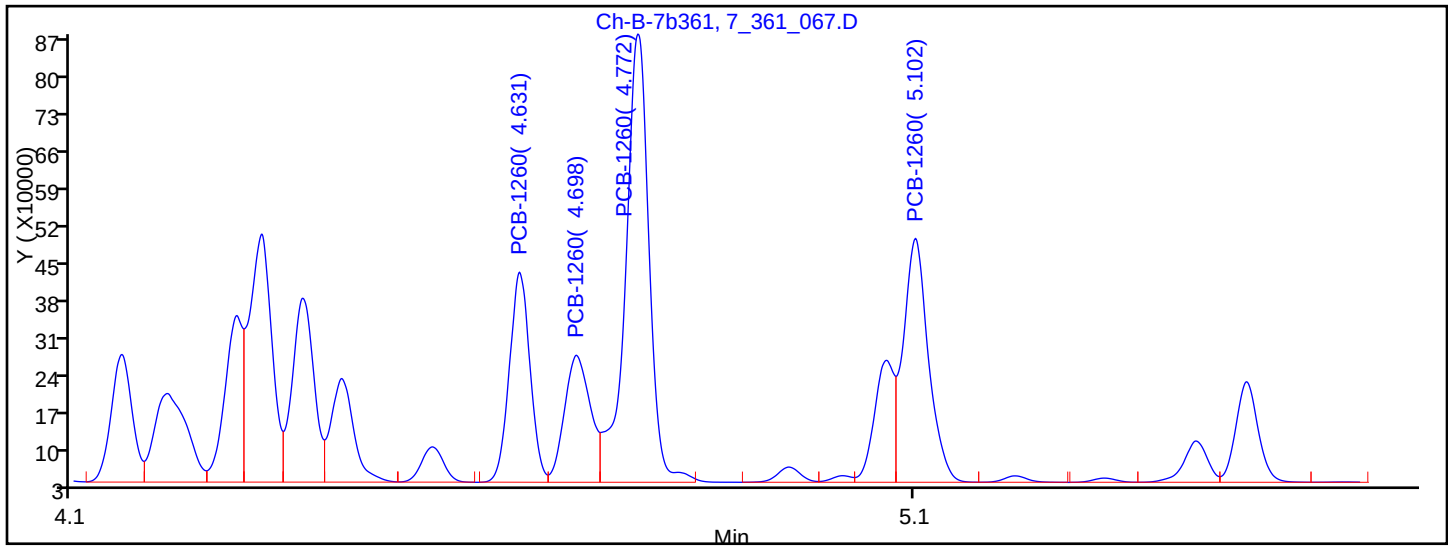
Column:

Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.631	Response = 667825	
RT = 4.698	Response = 499609	M
RT = 4.772	Response = 1631643	M
RT = 5.102	Response = 950557	M



Manual Integration Results

RT = 4.631	Response = 667825	
RT = 4.698	Response = 513014	M
RT = 4.772	Response = 1653185	M
RT = 5.102	Response = 950274	M

Reviewer: sobolk, 20-Jan-2015 18:19:39

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 480-223542/3-A
Matrix: Water Lab File ID: 7_361_068.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3510C Date Extracted: 01/19/2015 17:19
Sample wt/vol: 250 (mL) Date Analyzed: 01/20/2015 14:24
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.: 223637 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	4.05		0.50	0.18
11096-82-5	PCB-1260	4.01		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	66		19-126
877-09-8	Tetrachloro-m-xylene	83		23-127

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_068.D
 Lims ID: LCSD 480-223542/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 20-Jan-2015 14:24:55 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:20:21 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:20:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	813033	0.0200	0.0166
2	1.507	1.507	0.000	794135	0.0200	0.0172

RPD = 3.75

6 PCB-1016

M

1	2.045	2.043	0.002	371257	0.5000	0.5085	M
1	2.697	2.696	0.001	1552012	0.5000	0.5117	M
1	2.778	2.777	0.001	600527	0.5000	0.4981	M
1	2.839	2.838	0.001	416427	0.5000	0.5073	M

Average of Peak Amounts = 0.5064

2	2.391	2.390	0.001	484791	0.5000	0.4935	M
2	2.494	2.494	0.000	1568473	0.5000	0.5347	M
2	2.696	2.695	0.001	415055	0.5000	0.5180	M
2	2.969	2.970	-0.001	732579	0.5000	0.5200	M

Average of Peak Amounts = 0.5165

RPD = 1.98

9 PCB-1260

M

1	4.660	4.659	0.001	670226	0.5000	0.5409	M
1	4.847	4.845	0.002	628265	0.5000	0.5160	M
1	5.051	5.051	0.000	1462179	0.5000	0.5047	M
1	5.288	5.285	0.003	696604	0.5000	0.4451	M

Average of Peak Amounts = 0.5017

2	4.633	4.631	0.001	680559	0.5000	0.4959	M
2	4.701	4.698	0.003	527138	0.5000	0.4724	M
2	4.773	4.772	0.000	1663966	0.5000	0.5490	M
2	5.102	5.100	0.002	961415	0.5000	0.5143	

Average of Peak Amounts = 0.5079

RPD = 1.24

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.000	327286	0.0200	0.0132
2	6.088	6.088	0.000	348925	0.0200	0.0135

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_068.D

Injection Date: 20-Jan-2015 14:24:55

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCSD 480-223542/3-A

Worklist Smp#: 19

Client ID:

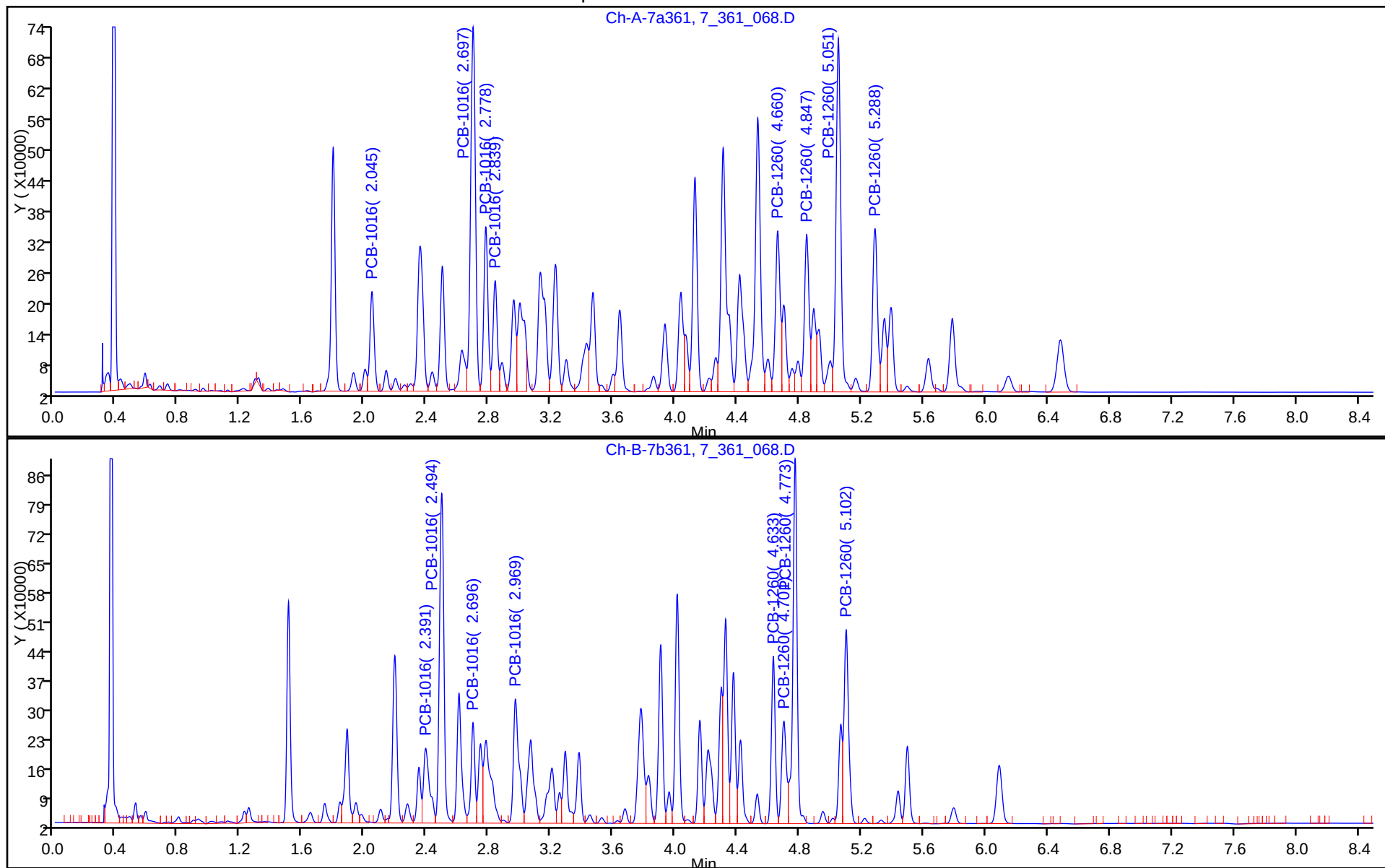
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_068.D

Injection Date: 20-Jan-2015 14:24:55

Instrument ID: HP6890-7

Lims ID: LCSD 480-223542/3-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 19

Injection Vol: 1.0 ul

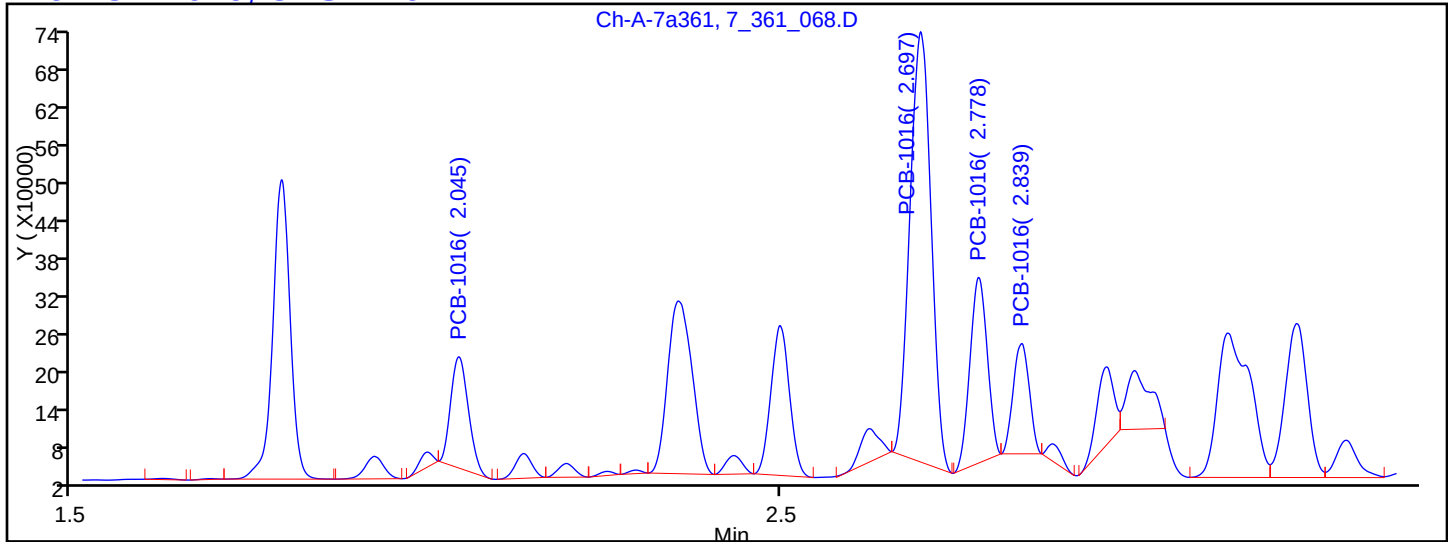
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

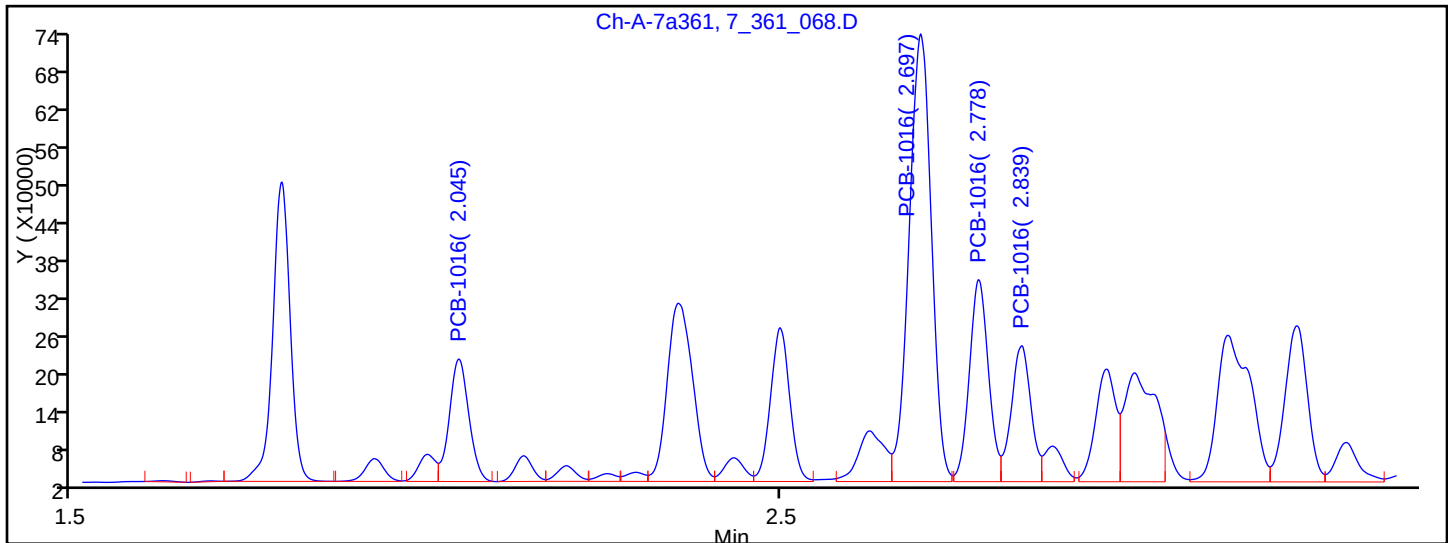
Column:

Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.045	Response = 305817	M
RT = 2.697	Response = 1415745	M
RT = 2.778	Response = 500468	M
RT = 2.839	Response = 276692	M



Manual Integration Results

RT = 2.045	Response = 371257	M
RT = 2.697	Response = 1552012	M
RT = 2.778	Response = 600527	M
RT = 2.839	Response = 416427	M

Reviewer: sobolk, 20-Jan-2015 18:20:21

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_068.D

Injection Date: 20-Jan-2015 14:24:55

Instrument ID: HP6890-7

Lims ID: LCSD 480-223542/3-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 19

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

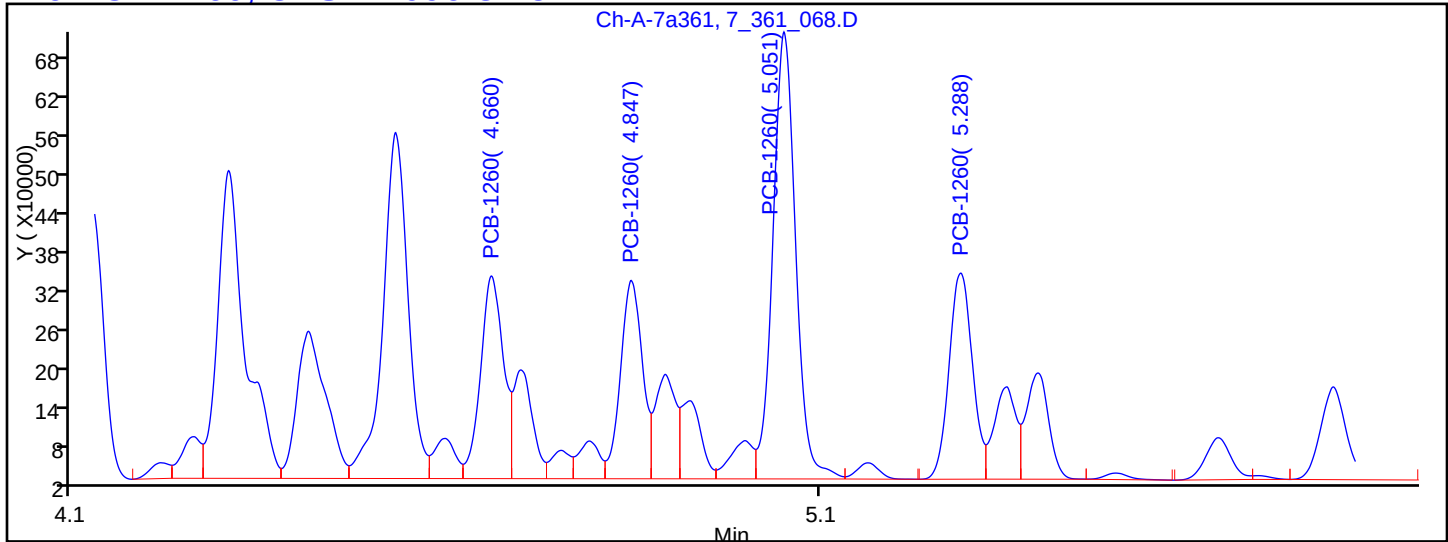
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

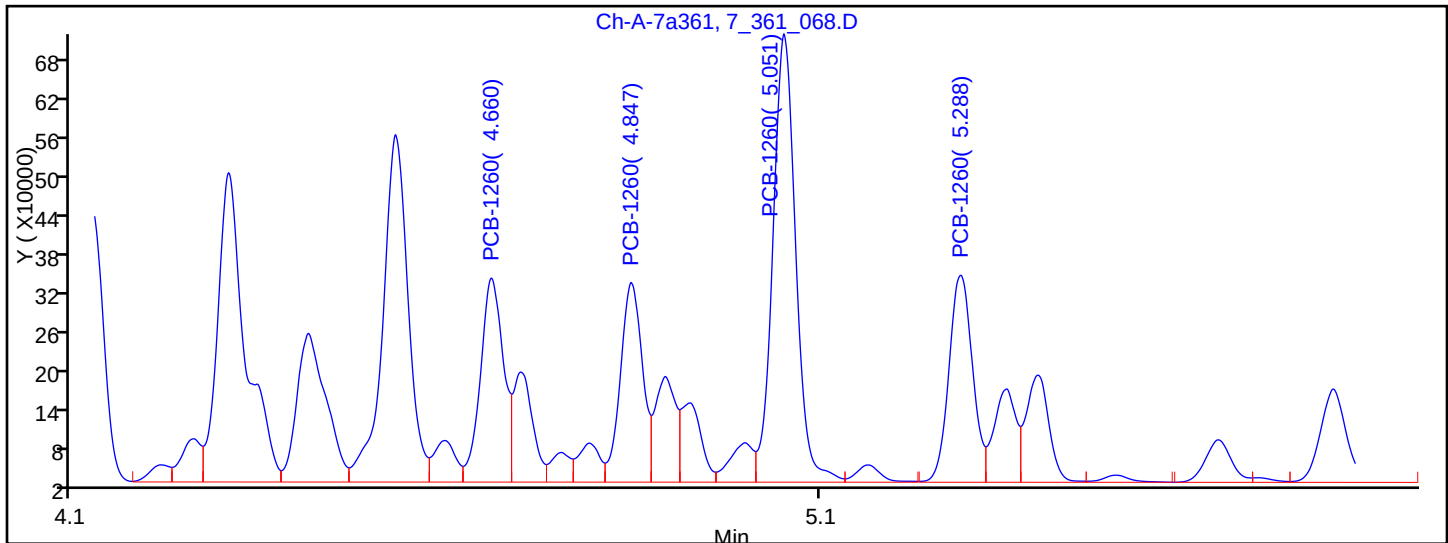
Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.660	Response = 662019	M
RT = 4.847	Response = 621055	M
RT = 5.051	Response = 1449613	M
RT = 5.288	Response = 688964	M



Manual Integration Results

RT = 4.660	Response = 670226	M
RT = 4.847	Response = 628265	M
RT = 5.051	Response = 1462179	M
RT = 5.288	Response = 696604	M

Reviewer: sobolk, 20-Jan-2015 18:20:21

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 480-223542/3-A
Matrix: Water Lab File ID: 7_361_068.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3510C Date Extracted: 01/19/2015 17:19
Sample wt/vol: 250 (mL) Date Analyzed: 01/20/2015 14:24
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.: 223637 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	67		19-126
877-09-8	Tetrachloro-m-xylene	86		23-127

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_068.D
 Lims ID: LCSD 480-223542/3-A
 Client ID:
 Sample Type: LCSD
 Inject. Date: 20-Jan-2015 14:24:55 ALS Bottle#: 0 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:20:21 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:20:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	813033	0.0200	0.0166	
2	1.507	1.507	0.000	794135	0.0200	0.0172	

RPD = 3.75

6 PCB-1016

M

1	2.045	2.043	0.002	371257	0.5000	0.5085	M
1	2.697	2.696	0.001	1552012	0.5000	0.5117	M
1	2.778	2.777	0.001	600527	0.5000	0.4981	M
1	2.839	2.838	0.001	416427	0.5000	0.5073	M

Average of Peak Amounts =

0.5064

2	2.391	2.390	0.001	484791	0.5000	0.4935	M
2	2.494	2.494	0.000	1568473	0.5000	0.5347	M
2	2.696	2.695	0.001	415055	0.5000	0.5180	M
2	2.969	2.970	-0.001	732579	0.5000	0.5200	M

Average of Peak Amounts =

0.5165

RPD = 1.98

9 PCB-1260

M

1	4.660	4.659	0.001	670226	0.5000	0.5409	M
1	4.847	4.845	0.002	628265	0.5000	0.5160	M
1	5.051	5.051	0.000	1462179	0.5000	0.5047	M
1	5.288	5.285	0.003	696604	0.5000	0.4451	M

Average of Peak Amounts =

0.5017

2	4.633	4.631	0.001	680559	0.5000	0.4959	M
2	4.701	4.698	0.003	527138	0.5000	0.4724	M
2	4.773	4.772	0.000	1663966	0.5000	0.5490	M
2	5.102	5.100	0.002	961415	0.5000	0.5143	

Average of Peak Amounts =

0.5079

RPD = 1.24

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.000	327286	0.0200	0.0132	
2	6.088	6.088	0.000	348925	0.0200	0.0135	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_068.D

Injection Date: 20-Jan-2015 14:24:55

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCSD 480-223542/3-A

Worklist Smp#: 19

Client ID:

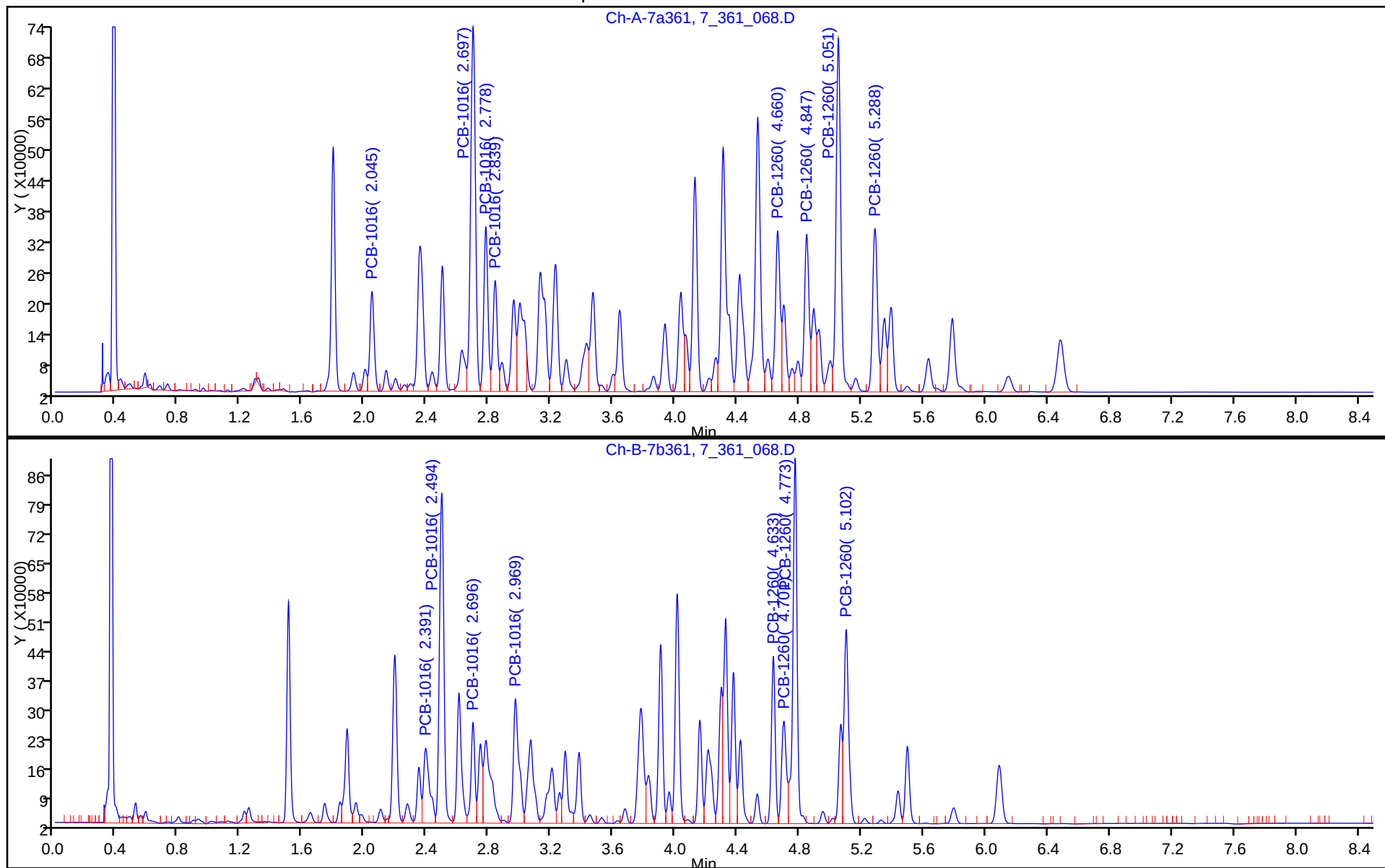
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_068.D

Injection Date: 20-Jan-2015 14:24:55

Instrument ID: HP6890-7

Lims ID: LCSD 480-223542/3-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 19

Injection Vol: 1.0 ul

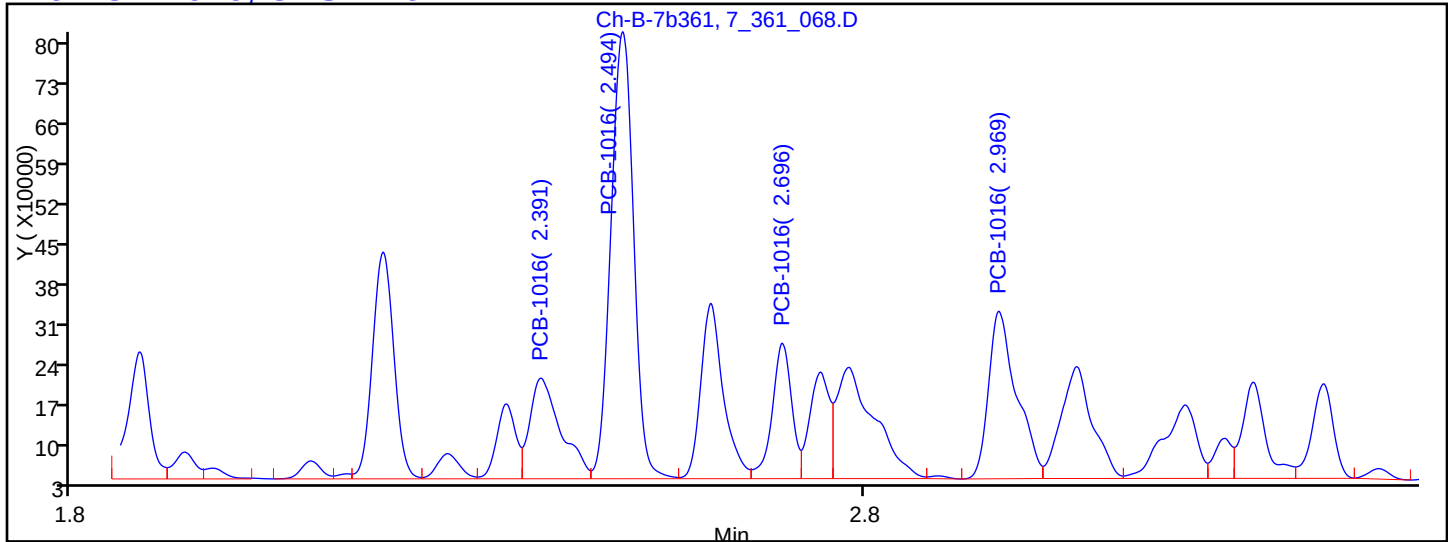
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

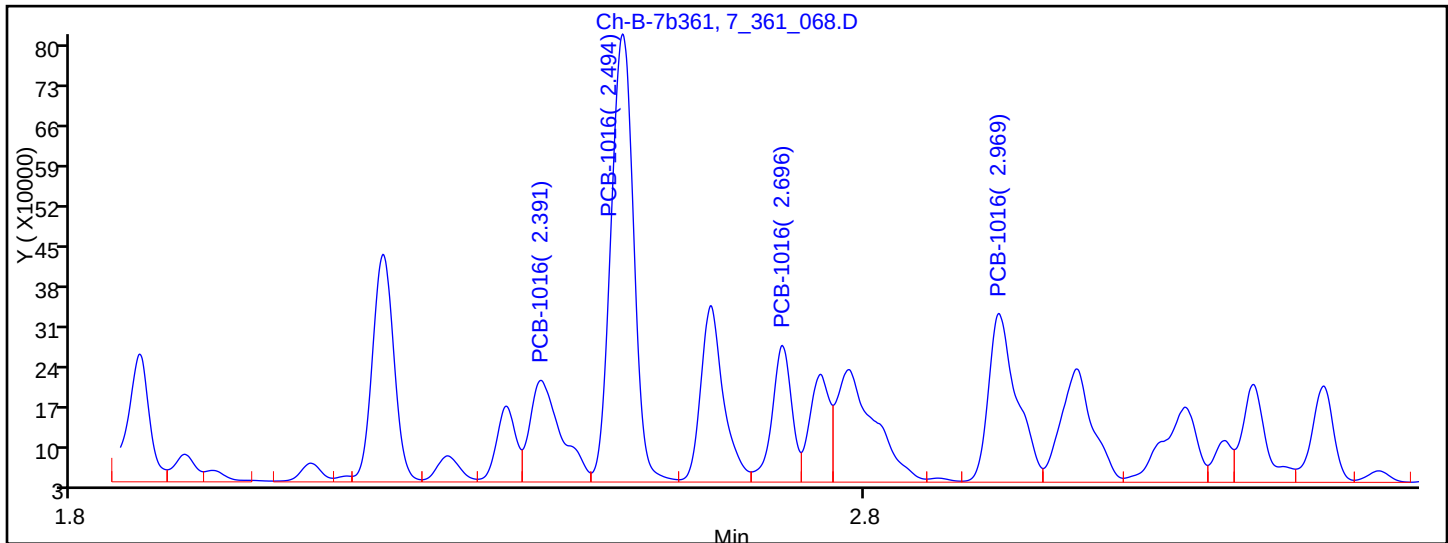
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.391	Response = 475519	M
RT = 2.494	Response = 1555881	M
RT = 2.696	Response = 406879	M
RT = 2.969	Response = 719338	M



Manual Integration Results

RT = 2.391	Response = 484791	M
RT = 2.494	Response = 1568473	M
RT = 2.696	Response = 415055	M
RT = 2.969	Response = 732579	M

Reviewer: sobolk, 20-Jan-2015 18:20:21

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_068.D

Injection Date: 20-Jan-2015 14:24:55

Instrument ID: HP6890-7

Lims ID: LCSD 480-223542/3-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 19

Injection Vol: 1.0 ul

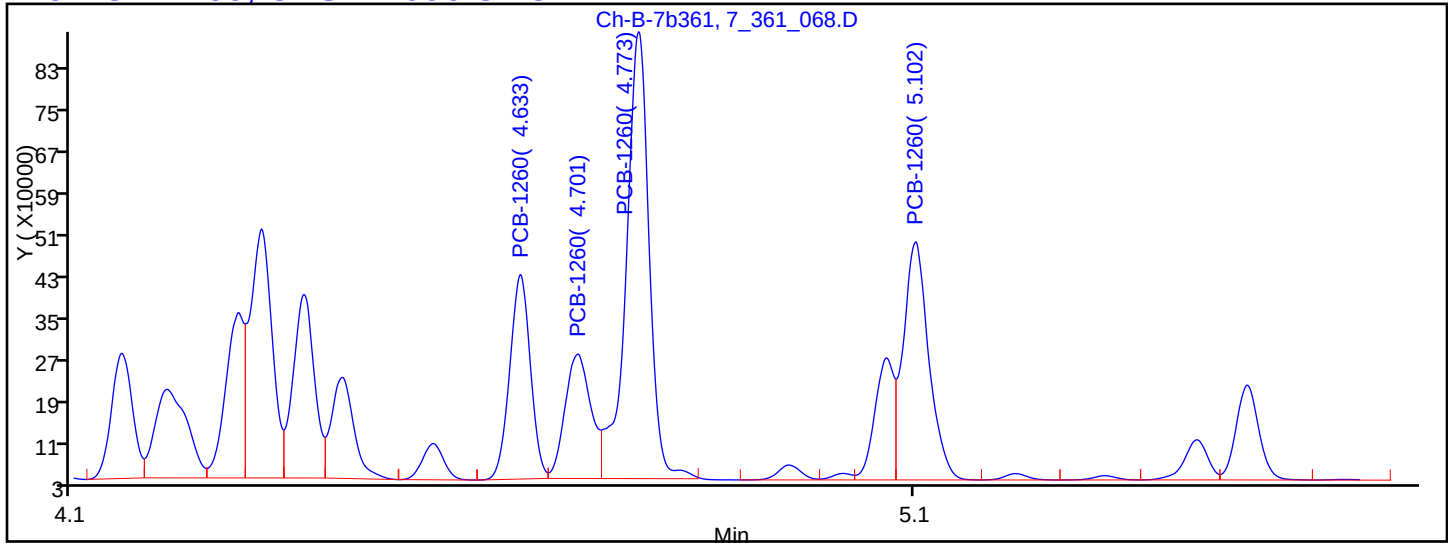
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

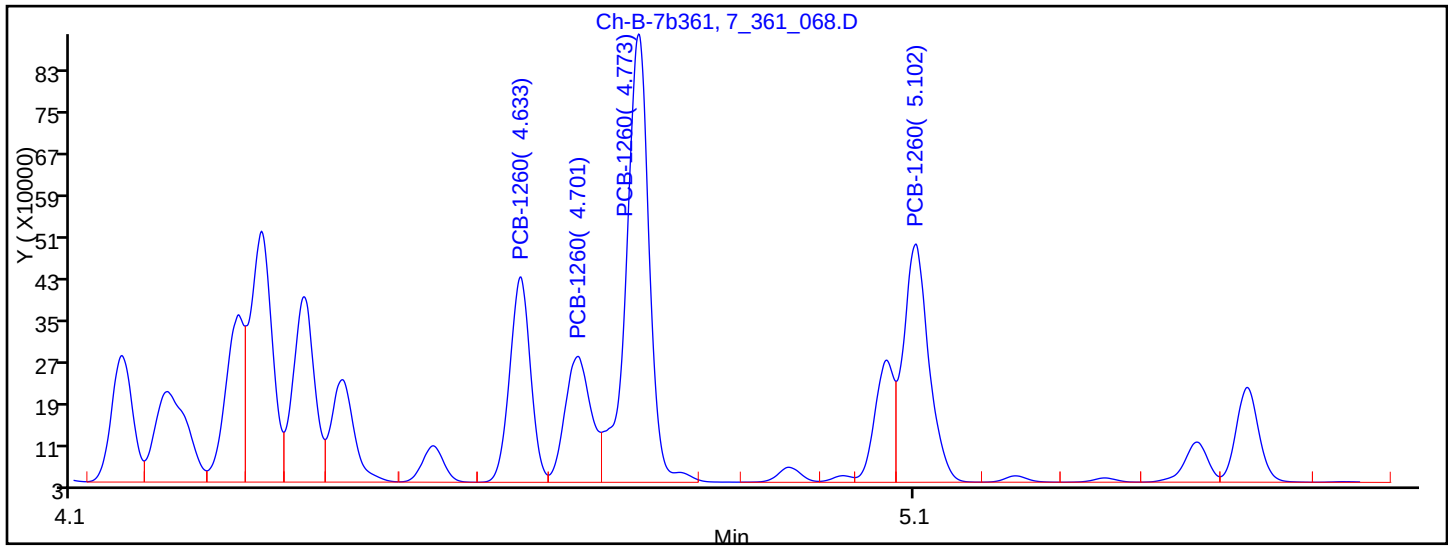
Column:

Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.633	Response = 672469	M
RT = 4.701	Response = 515485	M
RT = 4.773	Response = 1645177	M
RT = 5.102	Response = 961415	



Manual Integration Results

RT = 4.633	Response = 680559	M
RT = 4.701	Response = 527138	M
RT = 4.773	Response = 1663966	M
RT = 5.102	Response = 961415	

Reviewer: sobolk, 20-Jan-2015 18:20:21

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-NW MS Lab Sample ID: 480-74383-1 MS
 Matrix: Solid Lab File ID: 7_361_056.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:25
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.39(g) Date Analyzed: 01/20/2015 11:14
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
 % Moisture: 18.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3170		260	50
11104-28-2	PCB-1221	ND		260	50
11141-16-5	PCB-1232	ND		260	50
53469-21-9	PCB-1242	ND		260	50
12672-29-6	PCB-1248	ND		260	50
11097-69-1	PCB-1254	1380		260	120
11096-82-5	PCB-1260	3610		260	120

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	140		47-176
877-09-8	Tetrachloro-m-xylene	119		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D
 Lims ID: 480-74383-A-1-A MS
 Client ID:
 Sample Type: MS
 Inject. Date: 20-Jan-2015 11:14:46 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:11:02 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:11:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.796	1.794	0.002	1168424	0.0200	0.0239	
2	1.508	1.507	0.001	1089848	0.0200	0.0237	

RPD = 0.86

6 PCB-1016

M

1	2.044	2.043	0.001	415077	0.5000	0.5685	
1	2.698	2.696	0.002	1952038	0.5000	0.6435	
1	2.779	2.777	0.002	748912	0.5000	0.6212	
1	2.839	2.838	0.001	513105	0.5000	0.6250	

Average of Peak Amounts = 0.6146

2	2.392	2.390	0.002	570199	0.5000	0.5804	M
2	2.494	2.494	0.000	1949941	0.5000	0.6647	M
2	2.697	2.695	0.002	486090	0.5000	0.6066	M
2	2.971	2.970	0.001	865691	0.5000	0.6145	

Average of Peak Amounts = 0.6166

RPD = 0.32

8 PCB-1254

M

1	3.643	3.645	-0.003	495576		0.2495	
1	3.860	3.863	-0.002	186777		0.1425	
1	3.935	3.940	-0.005	427825		0.1804	
1	4.127	4.137	-0.010	1151425		0.4984	

Average of Peak Amounts = 0.2677

2	3.379	3.381	-0.002	448112		0.2946	M
2	3.675	3.677	-0.002	95891		0.0856	M
2	3.778	3.763	0.016	956220		0.3956	M
2	3.905	3.895	0.010	1032740		0.4391	M

Average of Peak Amounts = 0.3037

RPD = 12.61

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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9 PCB-1260

M

1	4.662	4.659	0.003	906131	0.5000	0.7312	
1	4.848	4.845	0.003	855791	0.5000	0.7028	
1	5.052	5.051	0.001	2069897	0.5000	0.7144	
1	5.287	5.285	0.002	1025263	0.5000	0.6551	

Average of Peak Amounts =

0.7009

2	4.631	4.631	0.000	911964	0.5000	0.6645	
2	4.699	4.698	0.001	748824	0.5000	0.6711	M
2	4.772	4.772	0.000	2394398	0.5000	0.7901	M
2	5.102	5.100	0.002	1466300	0.5000	0.7844	M

Average of Peak Amounts =

0.7275

RPD = 3.72

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.000	665290	0.0200	0.0279	
2	6.088	6.088	0.000	723796	0.0200	0.0279	

RPD = 0.08

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D

Injection Date: 20-Jan-2015 11:14:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-1-A MS

Worklist Smp#: 7

Client ID:

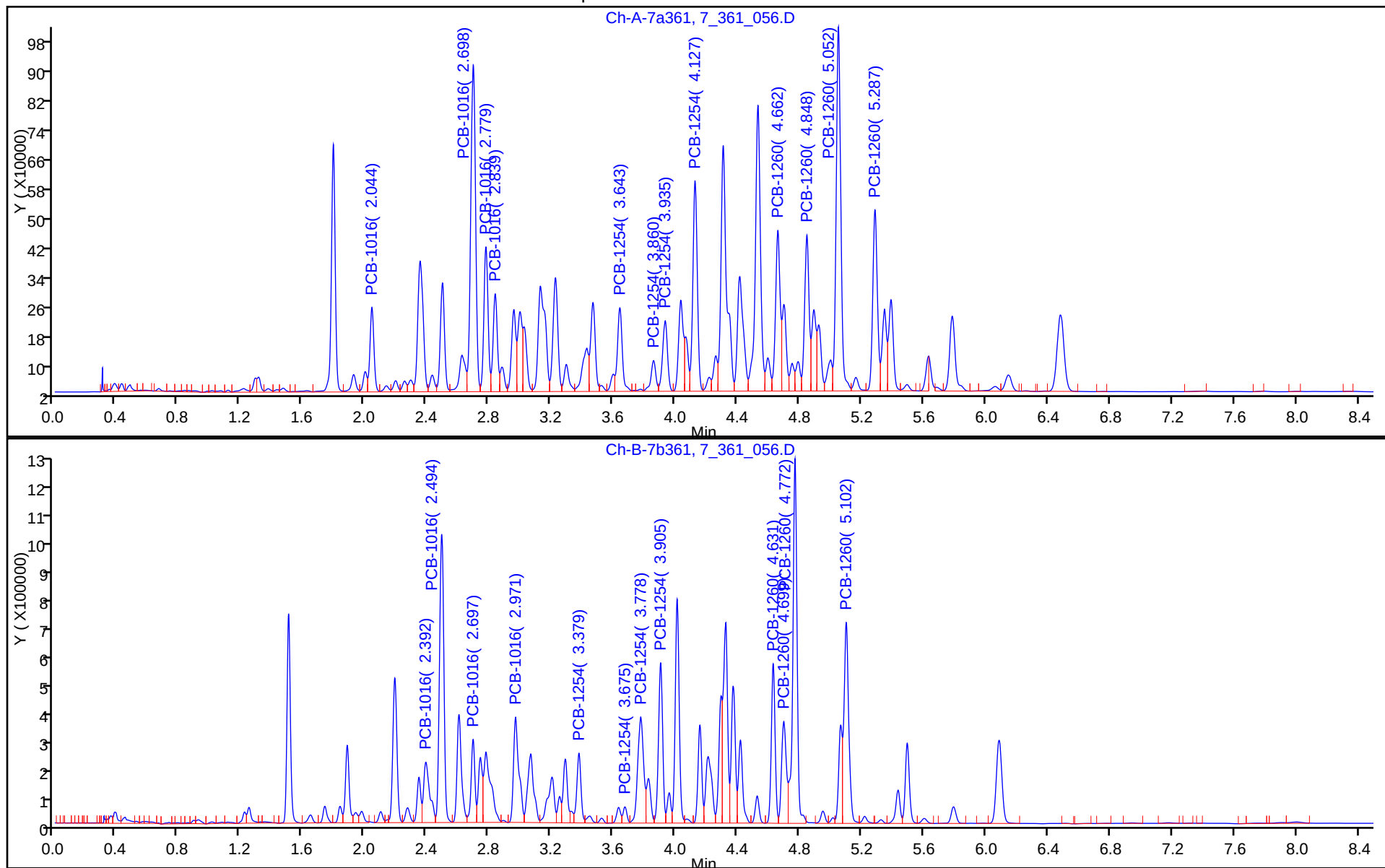
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: TMC-CS-NW MS Lab Sample ID: 480-74383-1 MS
Matrix: Solid Lab File ID: 7_361_056.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:25
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.39(g) Date Analyzed: 01/20/2015 11:14
Con. Extract Vol.: 10 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: 18.8 GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	140		47-176
877-09-8	Tetrachloro-m-xylene	118		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D
 Lims ID: 480-74383-A-1-A MS
 Client ID:
 Sample Type: MS
 Inject. Date: 20-Jan-2015 11:14:46 ALS Bottle#: 0 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:11:02 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:11:02

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.796	1.794	0.002	1168424	0.0200	0.0239	
2	1.508	1.507	0.001	1089848	0.0200	0.0237	

RPD = 0.86

6 PCB-1016

M

1	2.044	2.043	0.001	415077	0.5000	0.5685	
1	2.698	2.696	0.002	1952038	0.5000	0.6435	
1	2.779	2.777	0.002	748912	0.5000	0.6212	
1	2.839	2.838	0.001	513105	0.5000	0.6250	

Average of Peak Amounts = 0.6146

2	2.392	2.390	0.002	570199	0.5000	0.5804	M
2	2.494	2.494	0.000	1949941	0.5000	0.6647	M
2	2.697	2.695	0.002	486090	0.5000	0.6066	M
2	2.971	2.970	0.001	865691	0.5000	0.6145	

Average of Peak Amounts = 0.6166

RPD = 0.32

8 PCB-1254

M

1	3.643	3.645	-0.003	495576		0.2495	
1	3.860	3.863	-0.002	186777		0.1425	
1	3.935	3.940	-0.005	427825		0.1804	
1	4.127	4.137	-0.010	1151425		0.4984	

Average of Peak Amounts = 0.2677

2	3.379	3.381	-0.002	448112		0.2946	M
2	3.675	3.677	-0.002	95891		0.0856	M
2	3.778	3.763	0.016	956220		0.3956	M
2	3.905	3.895	0.010	1032740		0.4391	M

Average of Peak Amounts = 0.3037

RPD = 12.61

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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9 PCB-1260

M

1	4.662	4.659	0.003	906131	0.5000	0.7312	
1	4.848	4.845	0.003	855791	0.5000	0.7028	
1	5.052	5.051	0.001	2069897	0.5000	0.7144	
1	5.287	5.285	0.002	1025263	0.5000	0.6551	

Average of Peak Amounts =

0.7009

2	4.631	4.631	0.000	911964	0.5000	0.6645	
2	4.699	4.698	0.001	748824	0.5000	0.6711	M
2	4.772	4.772	0.000	2394398	0.5000	0.7901	M
2	5.102	5.100	0.002	1466300	0.5000	0.7844	M

Average of Peak Amounts =

0.7275

RPD = 3.72

\$ 12 DCB Decachlorobiphenyl

1	6.483	6.482	0.000	665290	0.0200	0.0279	
2	6.088	6.088	0.000	723796	0.0200	0.0279	

RPD = 0.08

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D

Injection Date: 20-Jan-2015 11:14:46

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-74383-A-1-A MS

Worklist Smp#: 7

Client ID:

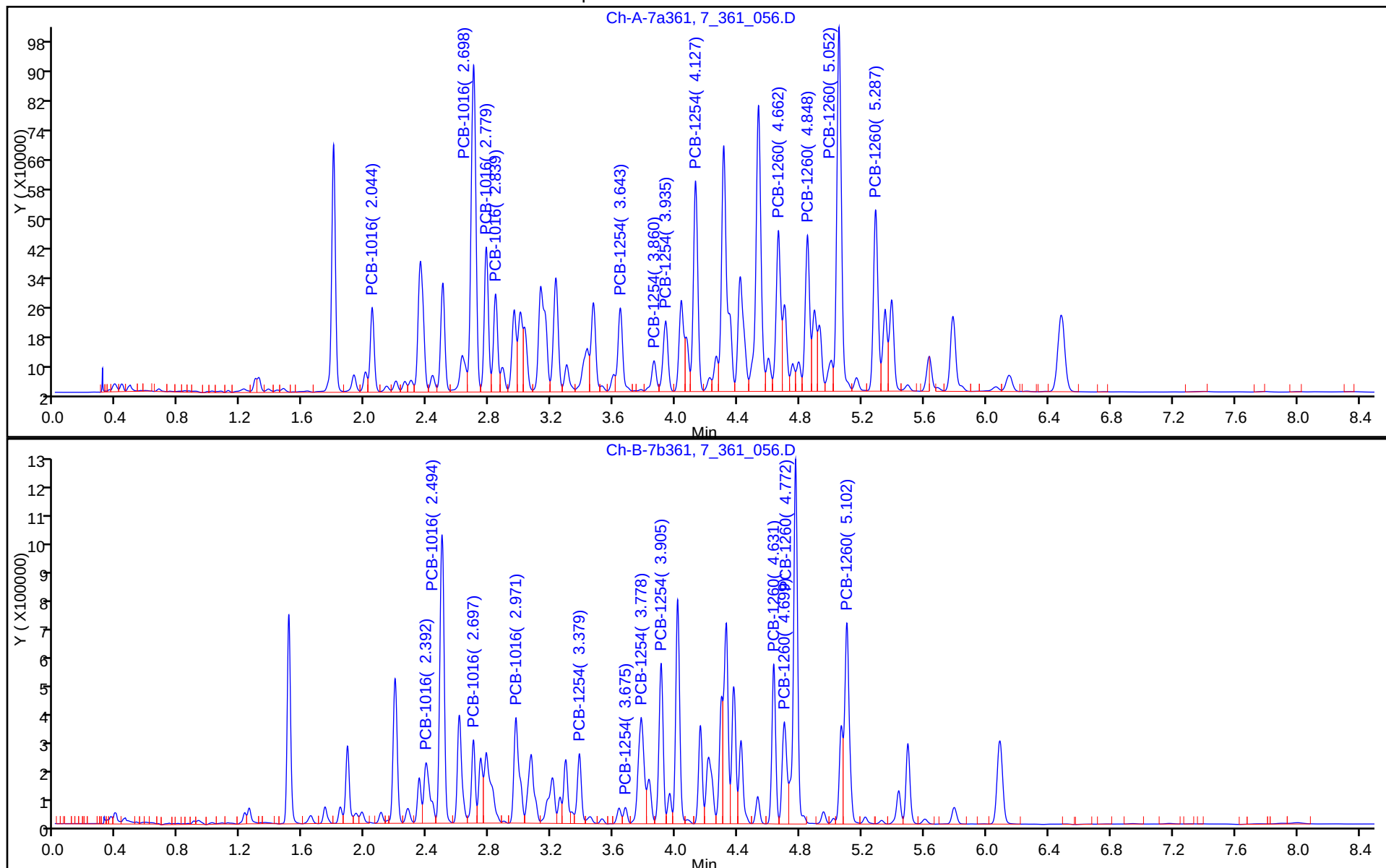
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D

Injection Date: 20-Jan-2015 11:14:46

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-A MS

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

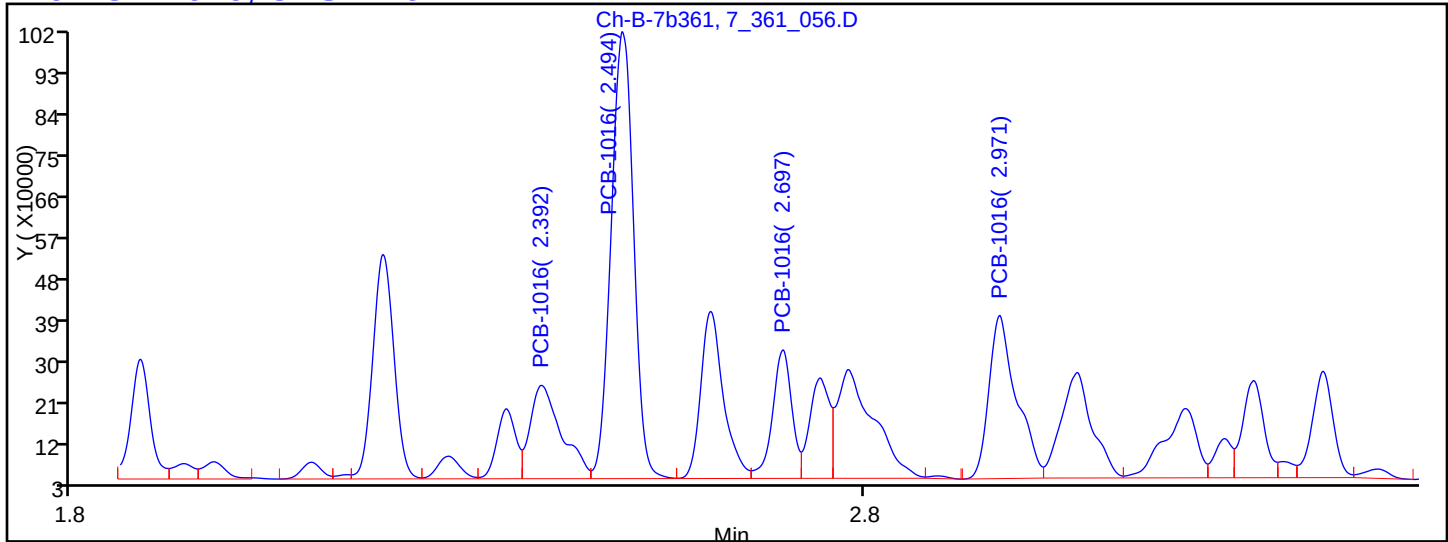
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

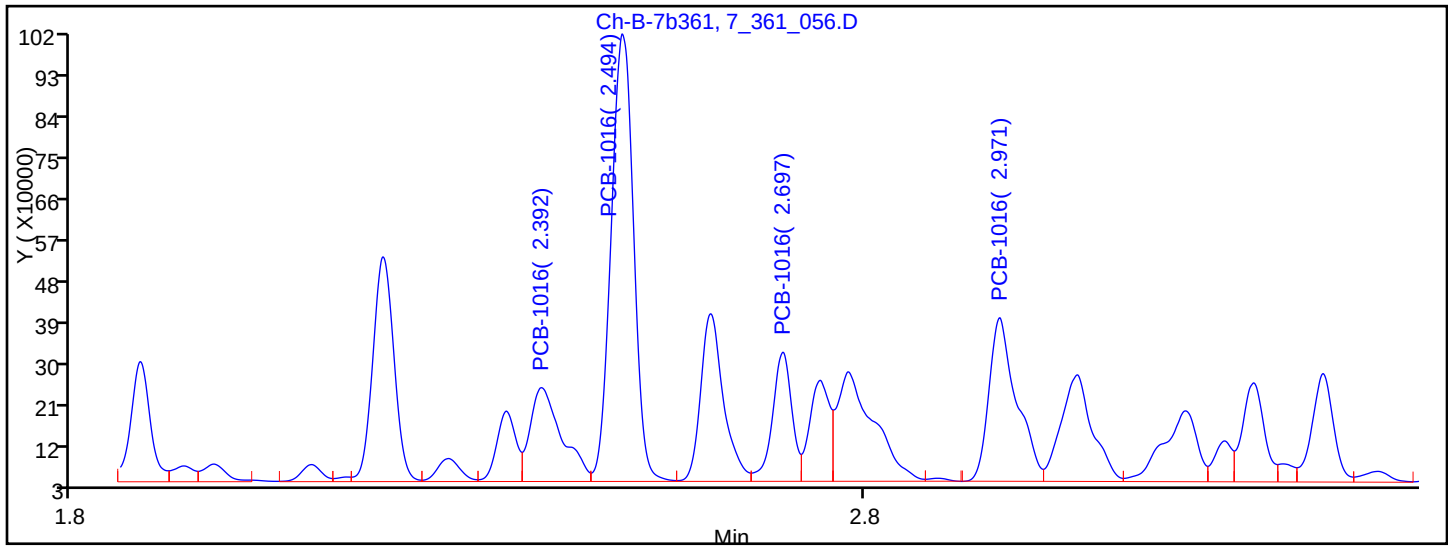
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.392	Response = 564804	M
RT = 2.494	Response = 1942918	M
RT = 2.697	Response = 481038	M
RT = 2.971	Response = 865691	



Manual Integration Results

RT = 2.392	Response = 570199	M
RT = 2.494	Response = 1949941	M
RT = 2.697	Response = 486090	M
RT = 2.971	Response = 865691	

Reviewer: sobolk, 20-Jan-2015 18:11:02

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D

Injection Date: 20-Jan-2015 11:14:46

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-A MS

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

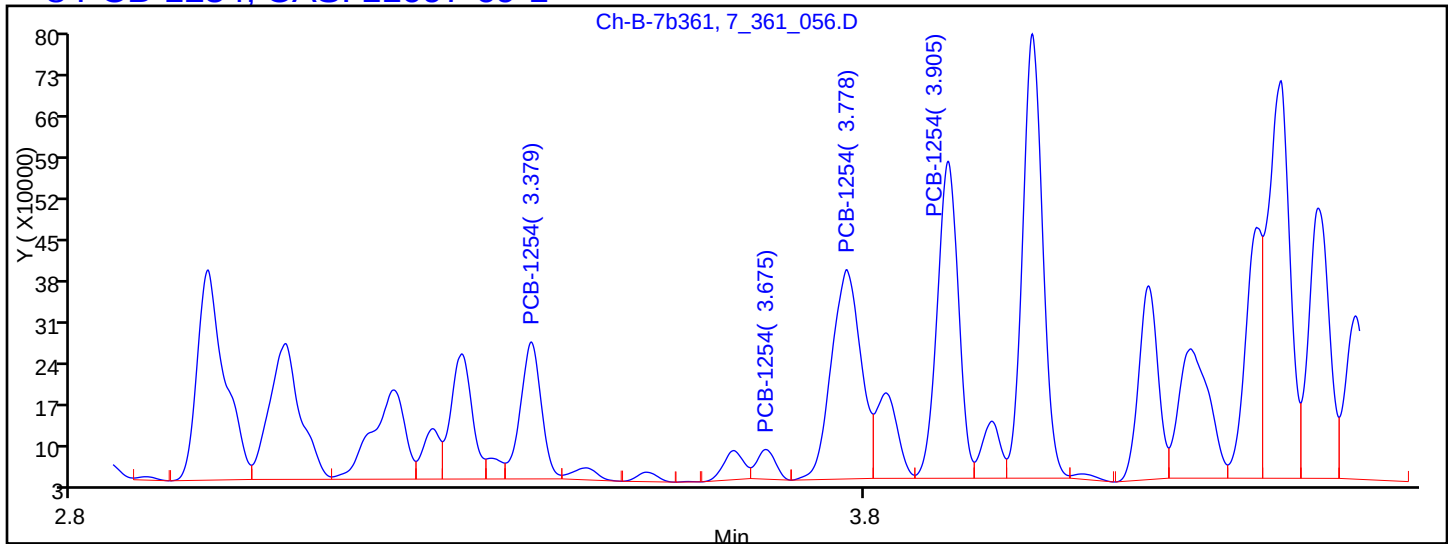
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

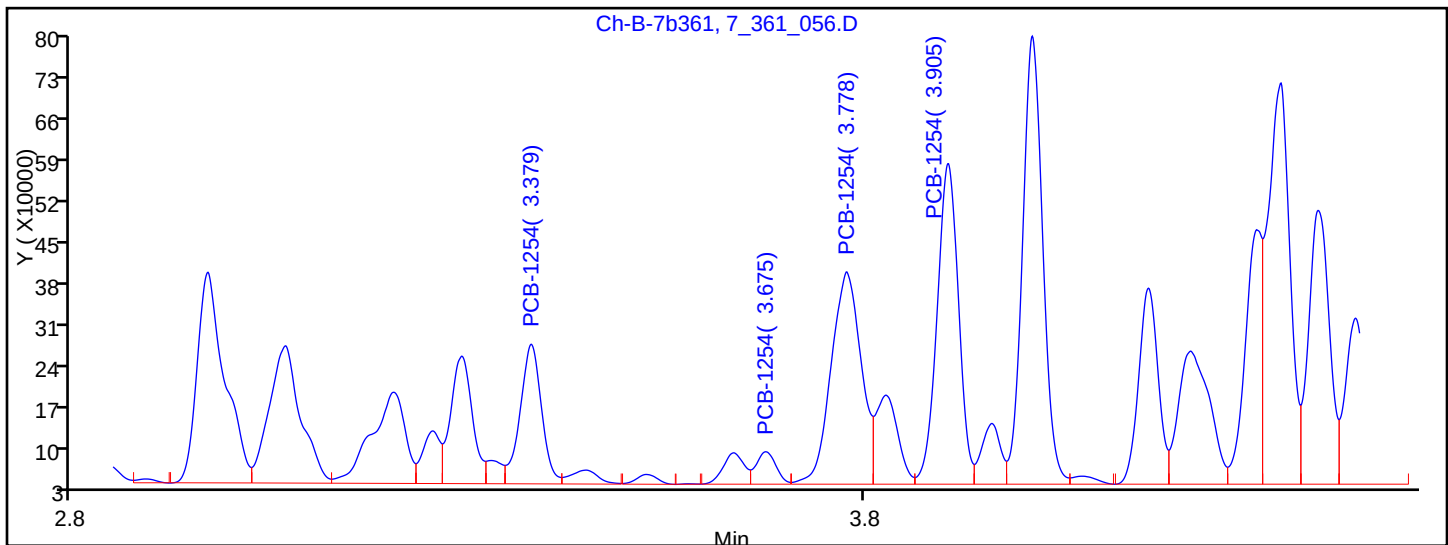
Column:

Detector Ch-B-7b136

8 PCB-1254, CAS: 11097-69-1

Processing Integration Results

RT = 3.379	Response = 428403	M
RT = 3.675	Response = 82542	M
RT = 3.778	Response = 928143	M
RT = 3.905	Response = 1004698	M



Manual Integration Results

RT = 3.379	Response = 448112	M
RT = 3.675	Response = 95891	M
RT = 3.778	Response = 956220	M
RT = 3.905	Response = 1032740	M

Reviewer: sobolk, 20-Jan-2015 18:11:02

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_056.D

Injection Date: 20-Jan-2015 11:14:46

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-A MS

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

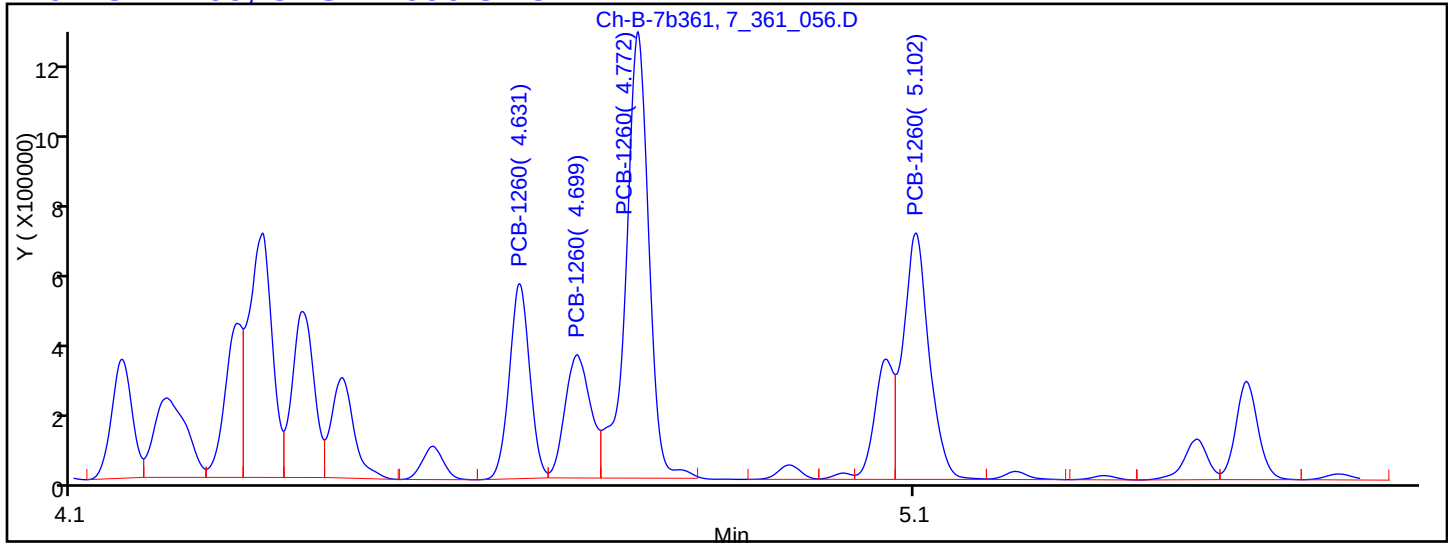
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

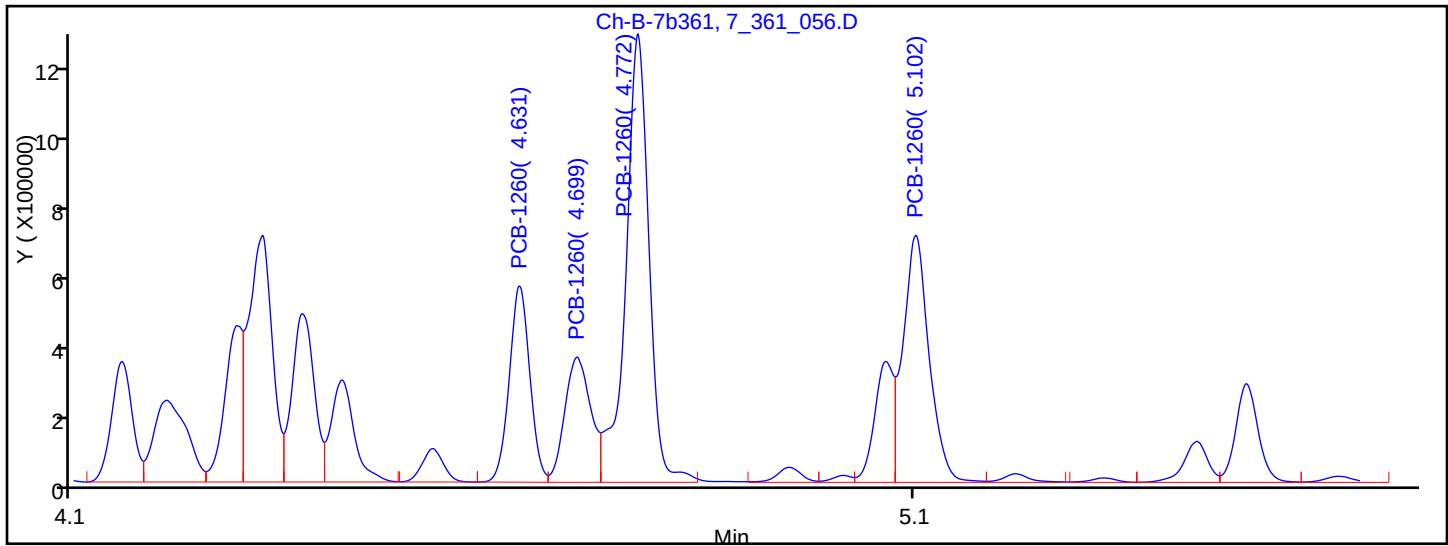
Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.631	Response = 911964	
RT = 4.699	Response = 728065	M
RT = 4.772	Response = 2359795	M
RT = 5.102	Response = 1455276	M



Manual Integration Results

RT = 4.631	Response = 911964	
RT = 4.699	Response = 748824	M
RT = 4.772	Response = 2394398	M
RT = 5.102	Response = 1466300	M

Reviewer: sobolk, 20-Jan-2015 18:11:02

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
 SDG No.: _____
 Client Sample ID: TMC-CS-NW MSD Lab Sample ID: 480-74383-1 MSD
 Matrix: Solid Lab File ID: 7_361_057.D
 Analysis Method: 8082A Date Collected: 01/19/2015 13:25
 Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
 Sample wt/vol: +2.20(g) Date Analyzed: 01/20/2015 11:30
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 1(uL) GC Column: ZB-5 ID: 0.53(mm)
 % Moisture: 18.8 GPC Cleanup: (Y/N) N
 Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3000		280	55
11104-28-2	PCB-1221	ND		280	55
11141-16-5	PCB-1232	ND		280	55
53469-21-9	PCB-1242	ND		280	55
12672-29-6	PCB-1248	ND		280	55
11097-69-1	PCB-1254	1340		280	130
11096-82-5	PCB-1260	3530		280	130

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	125		47-176
877-09-8	Tetrachloro-m-xylene	110		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D
 Lims ID: 480-74383-A-1-B MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 20-Jan-2015 11:30:32 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:10:26 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:10:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
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\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	1079403	0.0200	0.0220	
2	1.507	1.507	0.000	1040868	0.0200	0.0226	

RPD = 2.47

6 PCB-1016

M

1	2.043	2.043	0.000	307466	0.5000	0.4211	
1	2.698	2.696	0.002	1796864	0.5000	0.5924	M
1	2.779	2.777	0.002	681074	0.5000	0.5650	M
1	2.839	2.838	0.001	465557	0.5000	0.5671	M

Average of Peak Amounts = 0.5364

2	2.391	2.390	0.001	540567	0.5000	0.5503	M
2	2.495	2.494	0.001	1806412	0.5000	0.6158	M
2	2.695	2.695	0.000	461301	0.5000	0.5757	M
2	2.969	2.970	-0.001	816782	0.5000	0.5798	M

Average of Peak Amounts = 0.5804

RPD = 7.88

8 PCB-1254

M

1	3.641	3.645	-0.004	449447		0.2263	M
1	3.859	3.863	-0.003	154180		0.1176	M
1	3.934	3.940	-0.006	385001		0.1623	M
1	4.127	4.137	-0.010	1040940		0.4506	M

Average of Peak Amounts = 0.2392

2	3.378	3.381	-0.003	414693		0.2726	M
2	3.675	3.677	-0.002	90026		0.0804	M
2	3.776	3.763	0.014	862615		0.3569	M
2	3.905	3.895	0.010	967625		0.4114	M

Average of Peak Amounts = 0.2803

RPD = 15.83

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

9 PCB-1260							M
1	4.659	4.659	0.000	816451	0.5000	0.6589	M
1	4.845	4.845	0.000	772128	0.5000	0.6341	M
1	5.050	5.051	-0.001	1876337	0.5000	0.6476	M
1	5.286	5.285	0.001	914184	0.5000	0.5842	M
Average of Peak Amounts =						0.6312	
2	4.631	4.631	0.000	873333	0.5000	0.6363	M
2	4.699	4.698	0.001	686936	0.5000	0.6156	M
2	4.770	4.772	-0.002	2141454	0.5000	0.7066	M
2	5.100	5.100	0.000	1302530	0.5000	0.6968	
Average of Peak Amounts =						0.6638	
RPD = 5.04							
\$ 12 DCB Decachlorobiphenyl							
1	6.483	6.482	0.001	597342	0.0200	0.0249	
2	6.087	6.088	-0.001	651554	0.0200	0.0251	
RPD = 0.79							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Injection Date: 20-Jan-2015 11:30:32 Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-B MSD

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

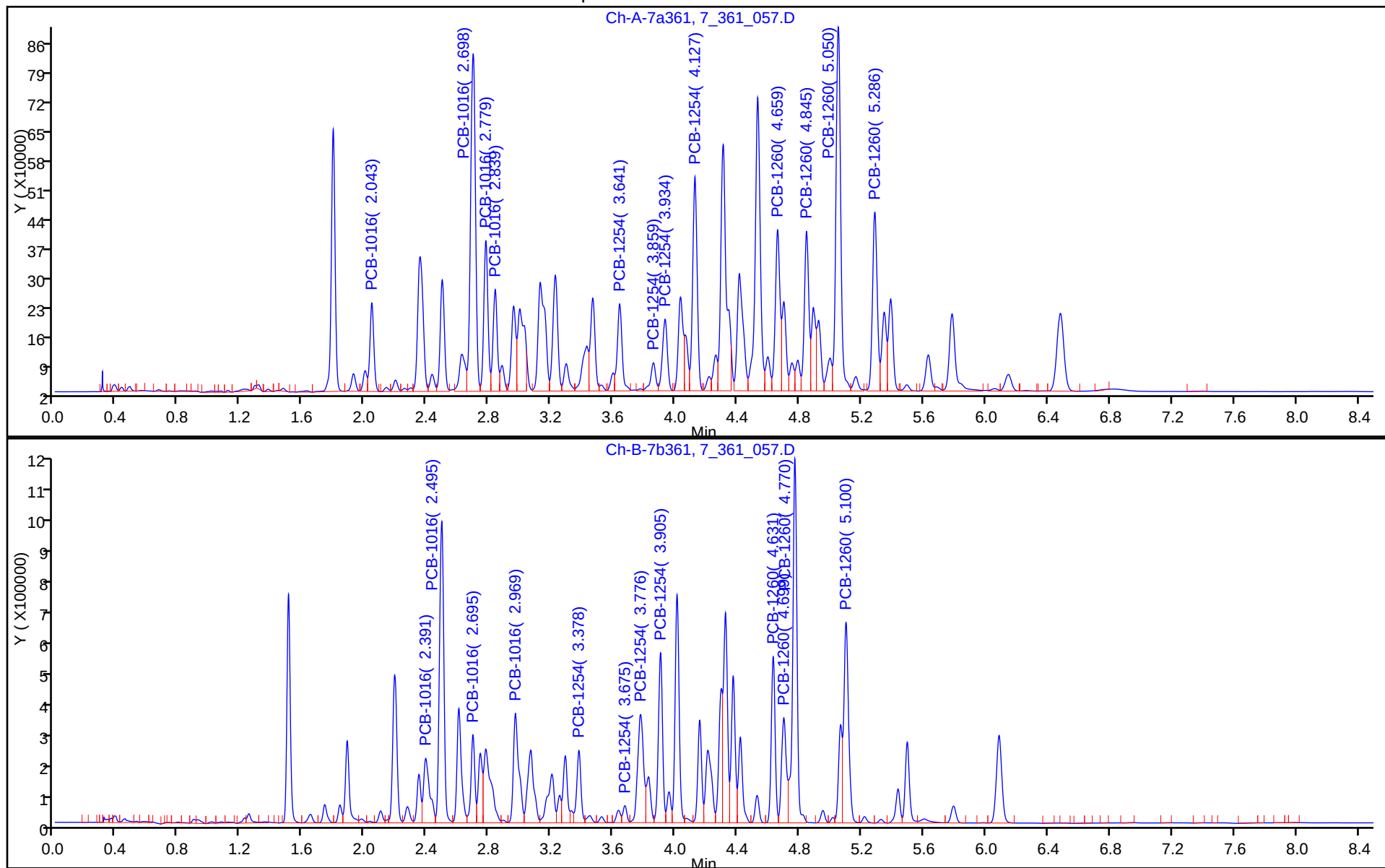
Operator ID: buftchrom

Worklist Smp#: 8

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

ALS Bottle#: 0



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Injection Date: 20-Jan-2015 11:30:32

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-B MSD

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

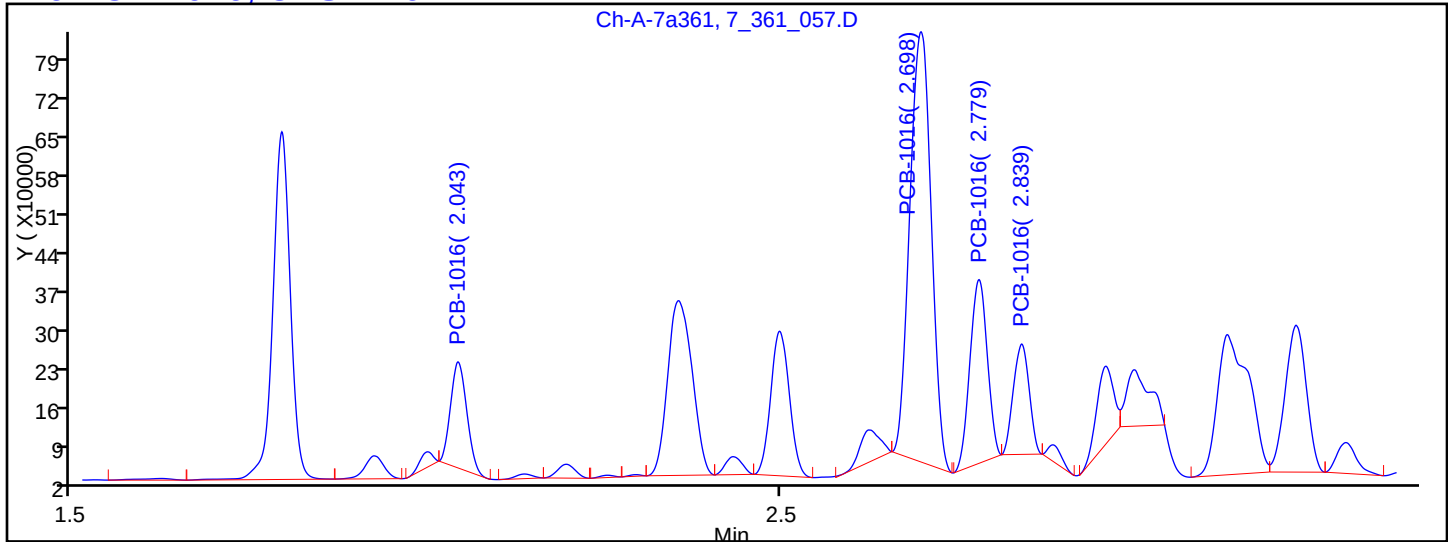
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

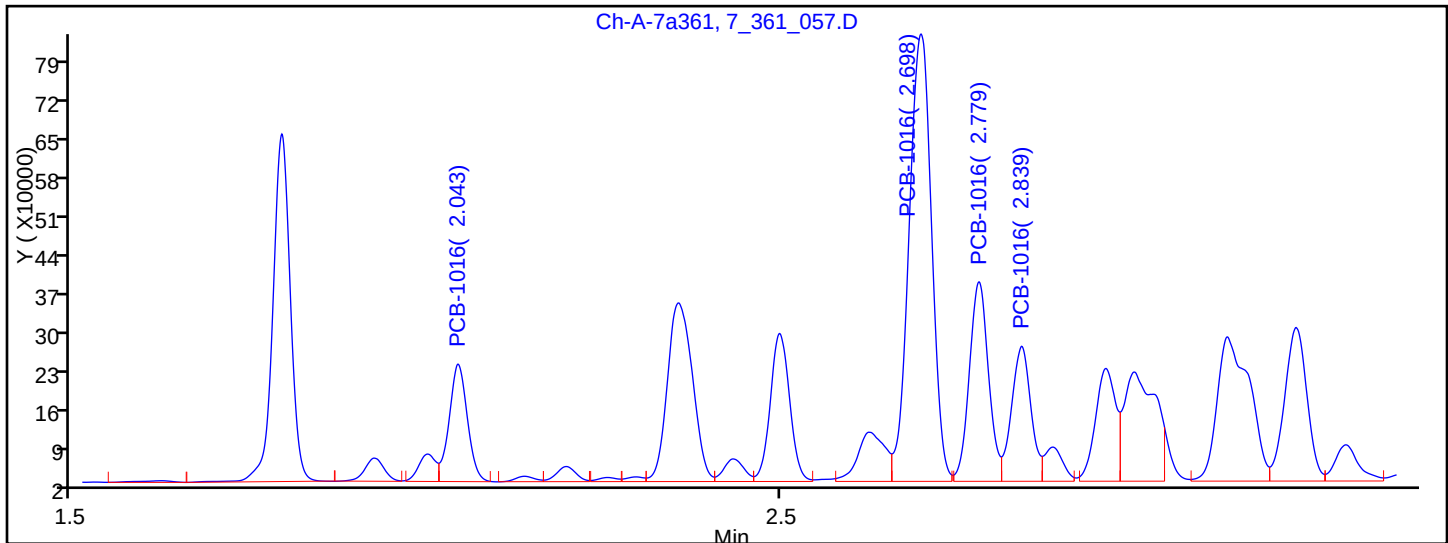
Column:

Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.043	Response = 307466	
RT = 2.698	Response = 1641691	M
RT = 2.779	Response = 569476	M
RT = 2.839	Response = 311694	M



Manual Integration Results

RT = 2.043	Response = 307466	
RT = 2.698	Response = 1796864	M
RT = 2.779	Response = 681074	M
RT = 2.839	Response = 465557	M

Reviewer: sobolk, 20-Jan-2015 18:10:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Injection Date: 20-Jan-2015 11:30:32

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-B MSD

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

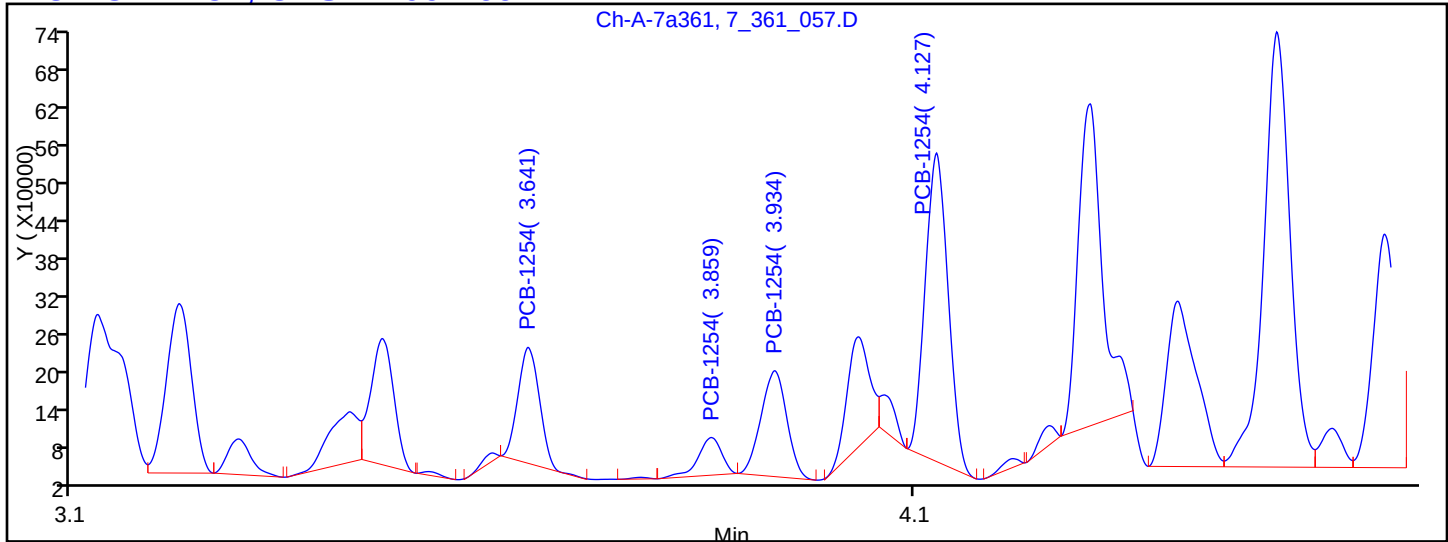
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

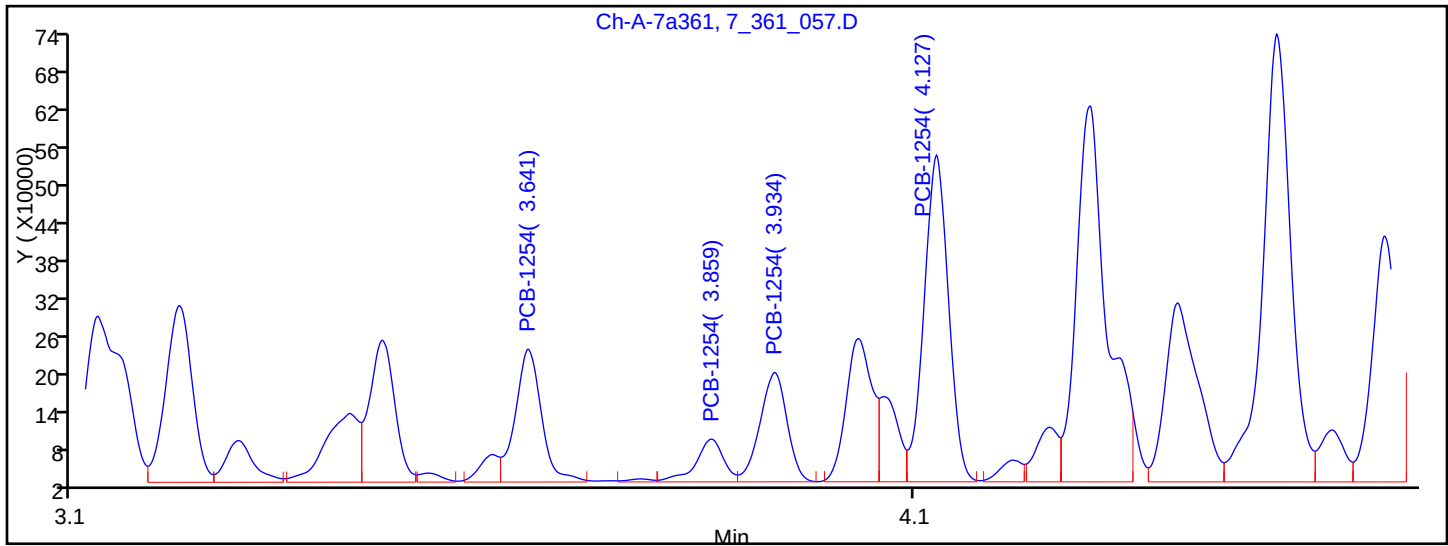
Column:

Detector Ch-A-7A136

8 PCB-1254, CAS: 11097-69-1

Processing Integration Results

RT = 3.641	Response = 325149	M
RT = 3.859	Response = 115999	M
RT = 3.934	Response = 354145	M
RT = 4.127	Response = 913696	M



Manual Integration Results

RT = 3.641	Response = 449447	M
RT = 3.859	Response = 154180	M
RT = 3.934	Response = 385001	M
RT = 4.127	Response = 1040940	M

Reviewer: sobolk, 20-Jan-2015 18:10:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Injection Date: 20-Jan-2015 11:30:32

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-B MSD

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

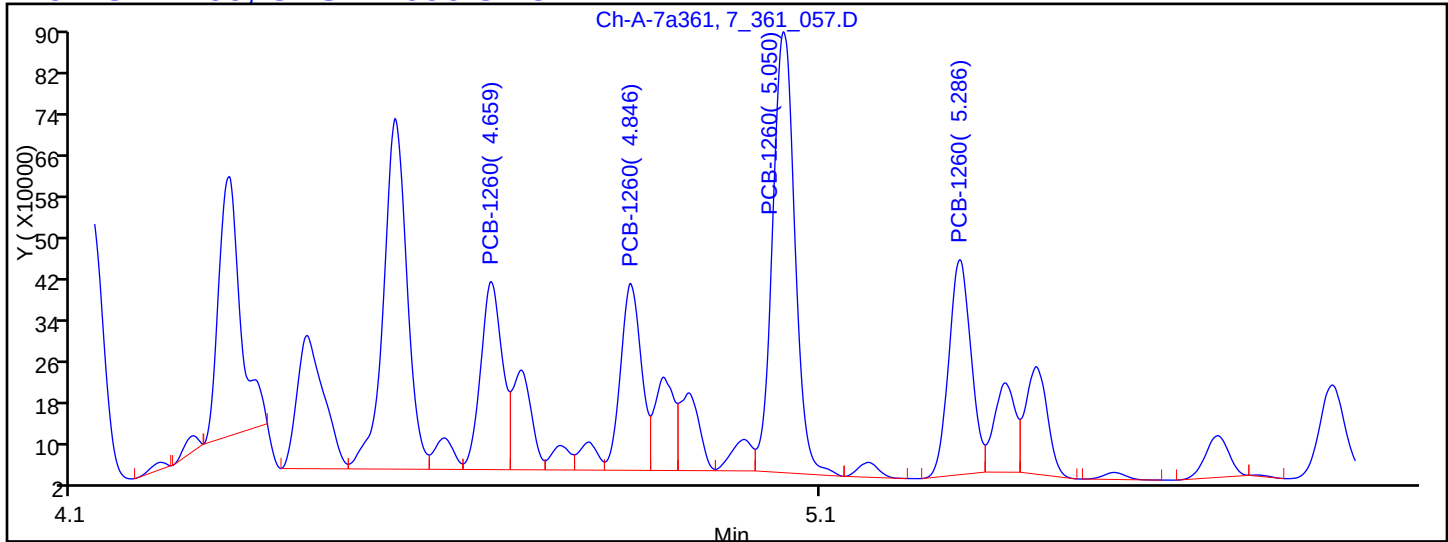
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

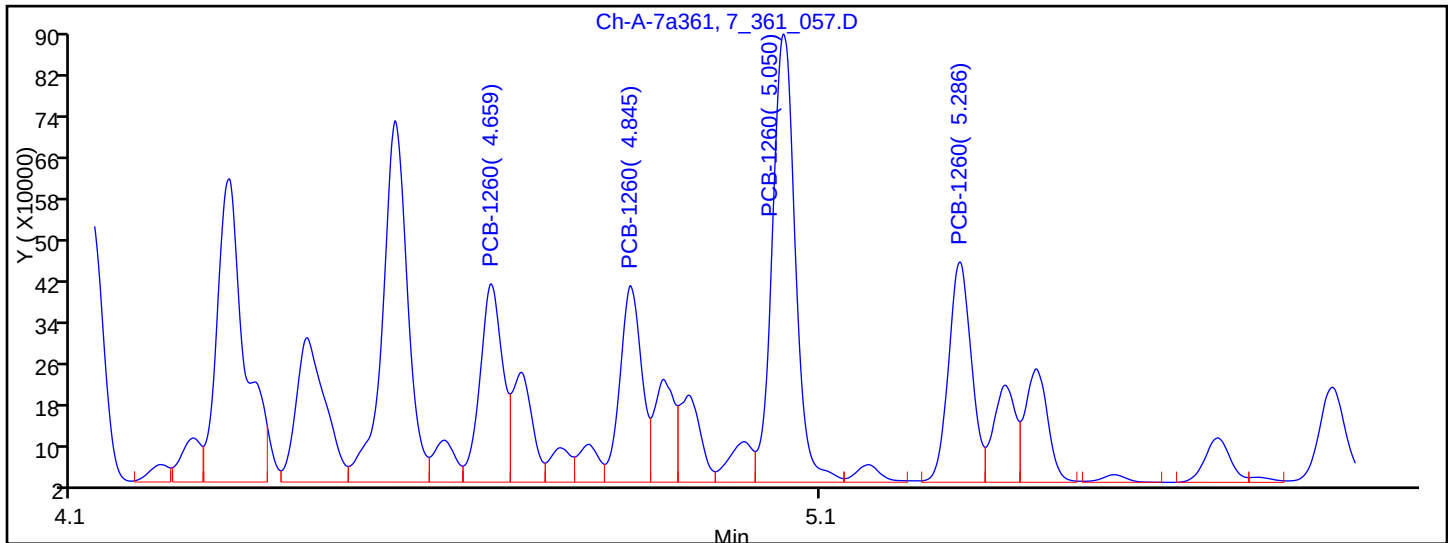
Detector Ch-A-7A136

9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.659	Response = 740303	M
RT = 4.846	Response = 702770	M
RT = 5.050	Response = 1789181	M
RT = 5.286	Response = 867976	M



Manual Integration Results

RT = 4.659	Response = 816451	M
RT = 4.845	Response = 772128	M
RT = 5.050	Response = 1876337	M
RT = 5.286	Response = 914184	M

Reviewer: sobolk, 20-Jan-2015 18:10:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1
SDG No.: _____
Client Sample ID: TMC-CS-NW MSD Lab Sample ID: 480-74383-1 MSD
Matrix: Solid Lab File ID: 7_361_057.D
Analysis Method: 8082A Date Collected: 01/19/2015 13:25
Extraction Method: 3550C Date Extracted: 01/19/2015 17:07
Sample wt/vol: +2.20 (g) Date Analyzed: 01/20/2015 11:30
Con. Extract Vol.: 10 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
% Moisture: 18.8 GPC Cleanup: (Y/N) N
Analysis Batch No.: 223637 Units: ug/Kg

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	126		47-176
877-09-8	Tetrachloro-m-xylene	113		46-175

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D
 Lims ID: 480-74383-A-1-B MSD
 Client ID:
 Sample Type: MSD
 Inject. Date: 20-Jan-2015 11:30:32 ALS Bottle#: 0 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 20-Jan-2015 18:10:26 Calib Date: 10-Dec-2014 01:10:21
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20141209-38119.b\7_356_288.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK006

First Level Reviewer: sobolk

Date: 20-Jan-2015 18:10:26

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

\$ 3 Tetrachloro-m-xylene

1	1.795	1.794	0.001	1079403	0.0200	0.0220	
2	1.507	1.507	0.000	1040868	0.0200	0.0226	

RPD = 2.47

6 PCB-1016

M

1	2.043	2.043	0.000	307466	0.5000	0.4211	
1	2.698	2.696	0.002	1796864	0.5000	0.5924	M
1	2.779	2.777	0.002	681074	0.5000	0.5650	M
1	2.839	2.838	0.001	465557	0.5000	0.5671	M

Average of Peak Amounts =

0.5364

2	2.391	2.390	0.001	540567	0.5000	0.5503	M
2	2.495	2.494	0.001	1806412	0.5000	0.6158	M
2	2.695	2.695	0.000	461301	0.5000	0.5757	M
2	2.969	2.970	-0.001	816782	0.5000	0.5798	M

Average of Peak Amounts =

0.5804

RPD = 7.88

8 PCB-1254

M

1	3.641	3.645	-0.004	449447		0.2263	M
1	3.859	3.863	-0.003	154180		0.1176	M
1	3.934	3.940	-0.006	385001		0.1623	M
1	4.127	4.137	-0.010	1040940		0.4506	M

Average of Peak Amounts =

0.2392

2	3.378	3.381	-0.003	414693		0.2726	M
2	3.675	3.677	-0.002	90026		0.0804	M
2	3.776	3.763	0.014	862615		0.3569	M
2	3.905	3.895	0.010	967625		0.4114	M

Average of Peak Amounts =

0.2803

RPD = 15.83

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ng/uL	OnCol Amt ng/uL	Flags
-----	--------------	------------------	------------------	----------	------------------	--------------------	-------

9 PCB-1260							M
1	4.659	4.659	0.000	816451	0.5000	0.6589	M
1	4.845	4.845	0.000	772128	0.5000	0.6341	M
1	5.050	5.051	-0.001	1876337	0.5000	0.6476	M
1	5.286	5.285	0.001	914184	0.5000	0.5842	M
Average of Peak Amounts =						0.6312	
2	4.631	4.631	0.000	873333	0.5000	0.6363	M
2	4.699	4.698	0.001	686936	0.5000	0.6156	M
2	4.770	4.772	-0.002	2141454	0.5000	0.7066	M
2	5.100	5.100	0.000	1302530	0.5000	0.6968	
Average of Peak Amounts =						0.6638	
RPD = 5.04							
\$ 12 DCB Decachlorobiphenyl							
1	6.483	6.482	0.001	597342	0.0200	0.0249	
2	6.087	6.088	-0.001	651554	0.0200	0.0251	
RPD = 0.79							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00051

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Injection Date: 20-Jan-2015 11:30:32 Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-B MSD

Client ID:

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

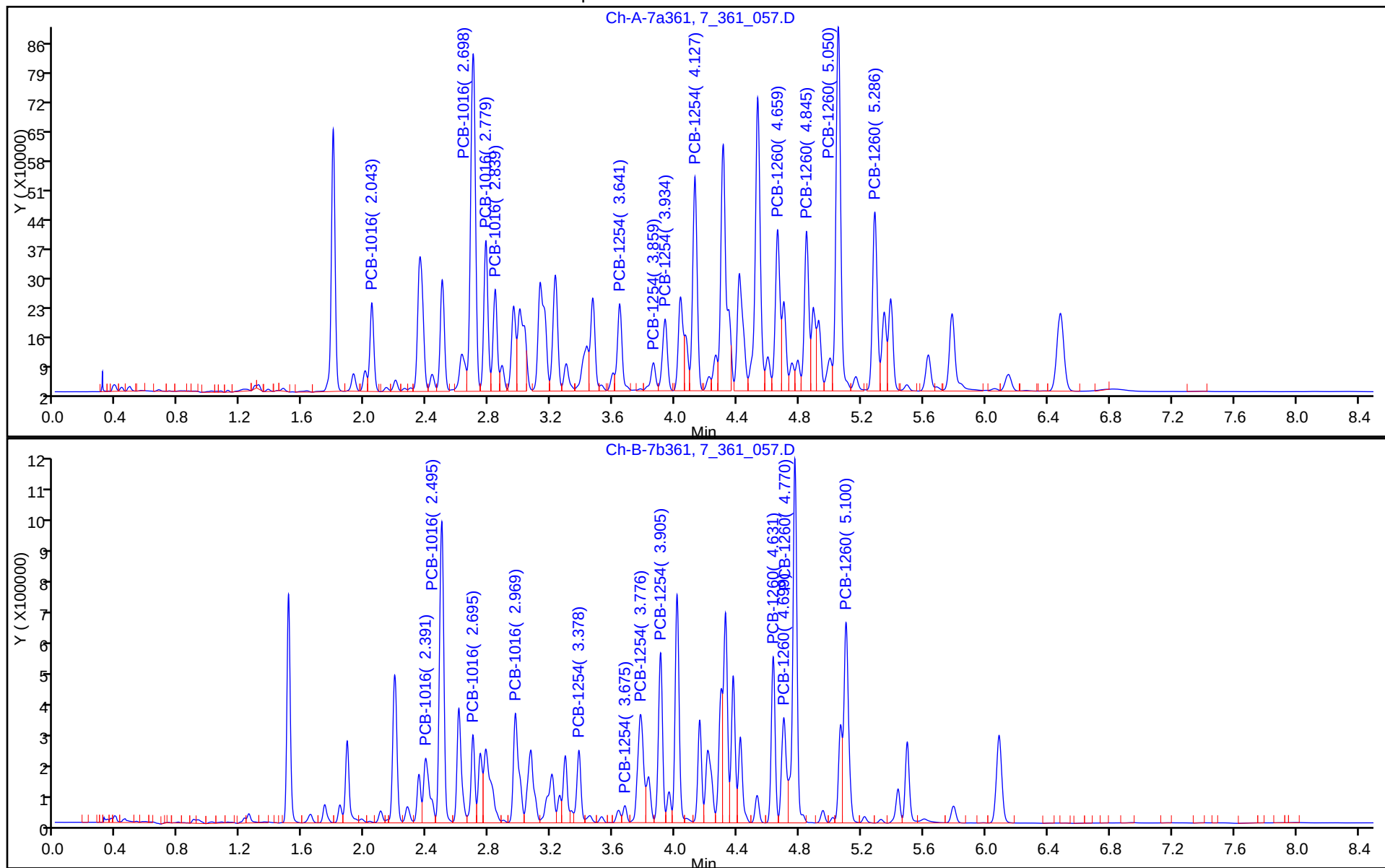
Operator ID: buftchrom

Worklist Smp#: 8

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

ALS Bottle#: 0



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Injection Date: 20-Jan-2015 11:30:32

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-B MSD

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

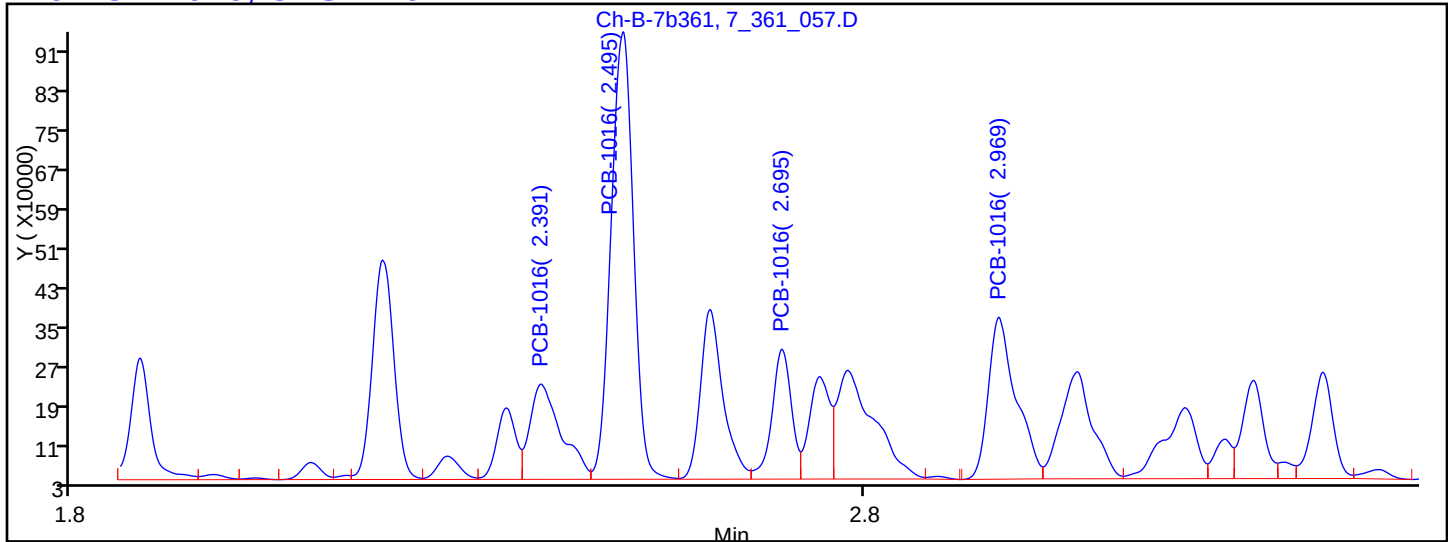
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

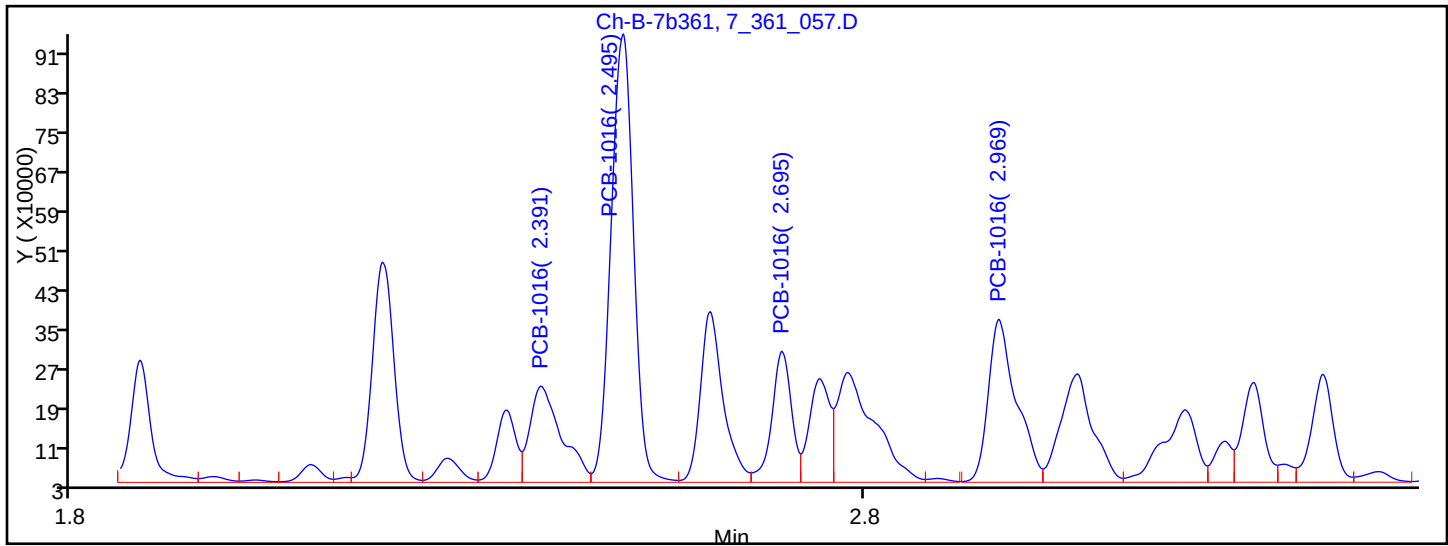
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.391	Response = 530728	M
RT = 2.495	Response = 1793201	M
RT = 2.695	Response = 452750	M
RT = 2.969	Response = 803972	M



Manual Integration Results

RT = 2.391	Response = 540567	M
RT = 2.495	Response = 1806412	M
RT = 2.695	Response = 461301	M
RT = 2.969	Response = 816782	M

Reviewer: sobolk, 20-Jan-2015 18:10:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Injection Date: 20-Jan-2015 11:30:32

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-B MSD

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

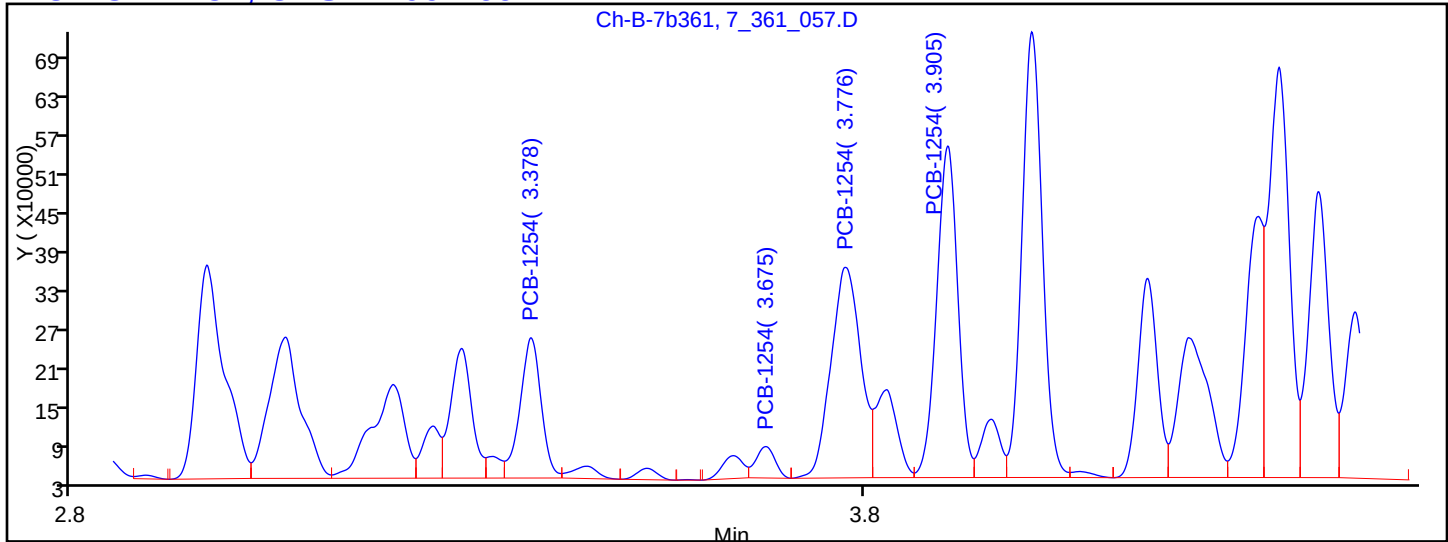
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

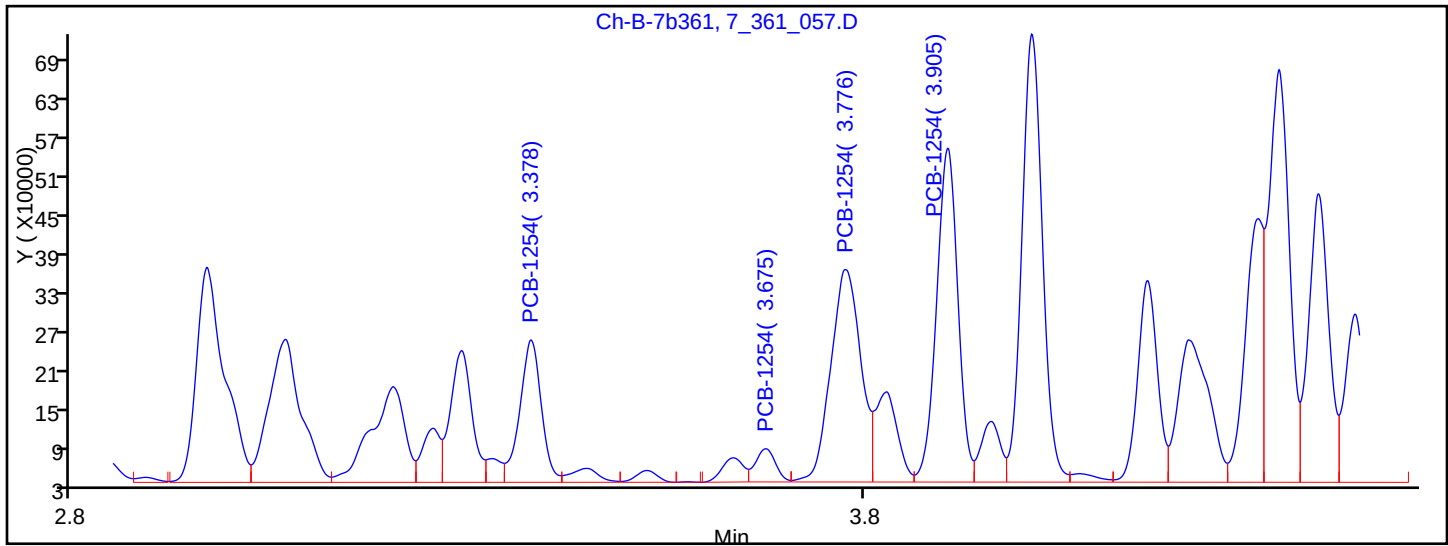
Column:

Detector Ch-B-7b136

8 PCB-1254, CAS: 11097-69-1

Processing Integration Results

RT = 3.378	Response = 400516	M
RT = 3.675	Response = 81423	M
RT = 3.776	Response = 845103	M
RT = 3.905	Response = 951299	M



Manual Integration Results

RT = 3.378	Response = 414693	M
RT = 3.675	Response = 90026	M
RT = 3.776	Response = 862615	M
RT = 3.905	Response = 967625	M

Reviewer: sobolk, 20-Jan-2015 18:10:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150120-39034.b\7_361_057.D

Injection Date: 20-Jan-2015 11:30:32

Instrument ID: HP6890-7

Lims ID: 480-74383-A-1-B MSD

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 8

Injection Vol: 1.0 ul

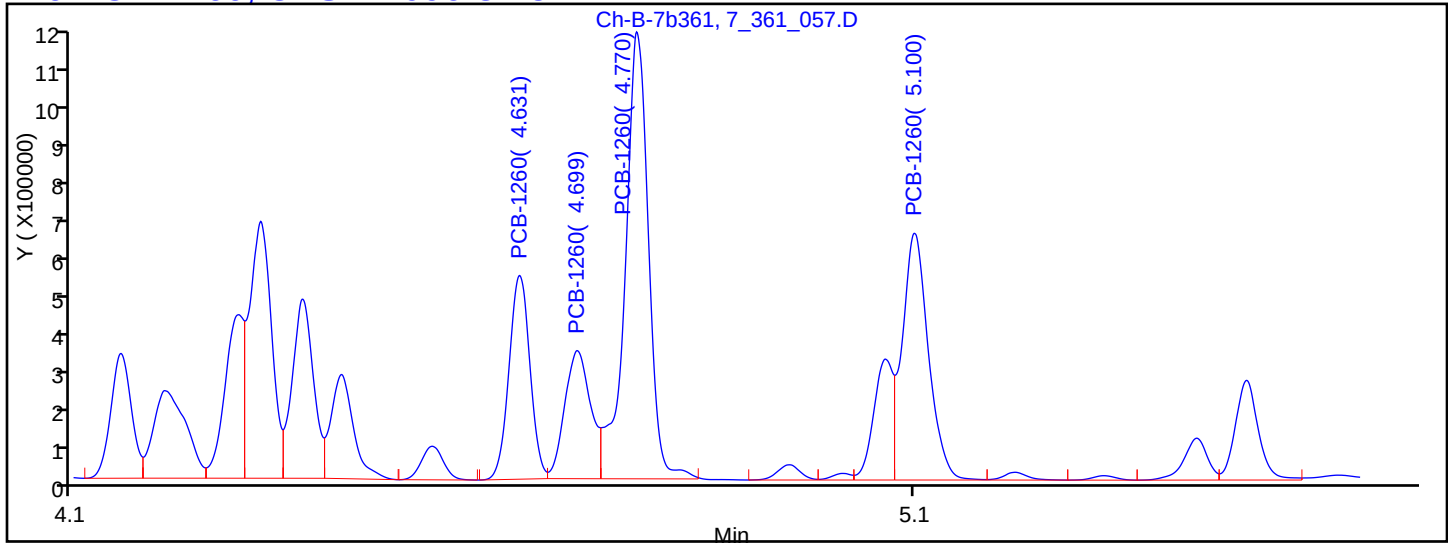
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

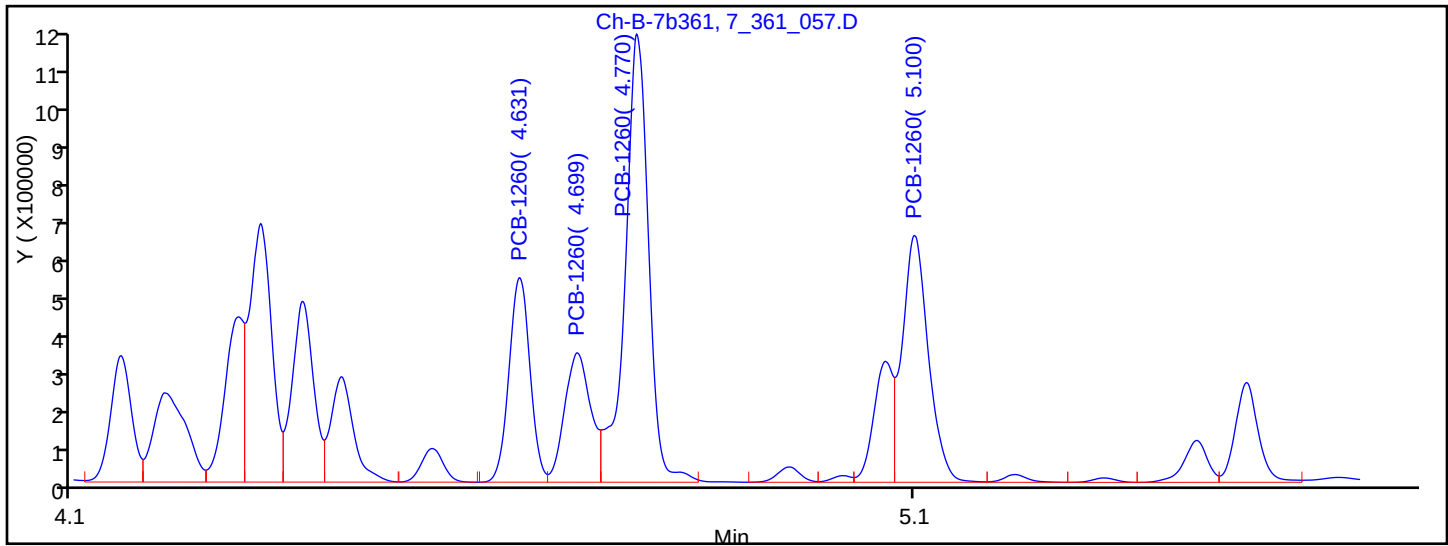
Column:

Detector Ch-B-7b136

9 PCB-1260, CAS: 11096-82-5

Processing Integration Results

RT = 4.631	Response = 866114	M
RT = 4.699	Response = 675105	M
RT = 4.770	Response = 2122081	M
RT = 5.100	Response = 1302530	



Manual Integration Results

RT = 4.631	Response = 873333	M
RT = 4.699	Response = 686936	M
RT = 4.770	Response = 2141454	M
RT = 5.100	Response = 1302530	

Reviewer: sobolk, 20-Jan-2015 18:10:26

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-74383-1

SDG No.: _____

Instrument ID: HP6890-7Start Date: 12/09/2014 19:21Analysis Batch Number: 218106End Date: 12/10/2014 01:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 480-218106/1 IC		12/09/2014 19:21	1	7_356_266.D	ZB-5 0.53 (mm)
STD7 480-218106/1 IC		12/09/2014 19:21	1	7_356_266.D	ZB-35 0.53 (mm)
STD6 480-218106/2 IC		12/09/2014 19:37	1	7_356_267.D	ZB-5 0.53 (mm)
STD6 480-218106/2 IC		12/09/2014 19:37	1	7_356_267.D	ZB-35 0.53 (mm)
STD5 480-218106/3 IC		12/09/2014 19:53	1	7_356_268.D	ZB-5 0.53 (mm)
STD5 480-218106/3 IC		12/09/2014 19:53	1	7_356_268.D	ZB-35 0.53 (mm)
STD4 480-218106/4 IC		12/09/2014 20:09	1	7_356_269.D	ZB-5 0.53 (mm)
STD4 480-218106/4 IC		12/09/2014 20:09	1	7_356_269.D	ZB-35 0.53 (mm)
STD3 480-218106/5 IC		12/09/2014 20:25	1	7_356_270.D	ZB-5 0.53 (mm)
STD3 480-218106/5 IC		12/09/2014 20:25	1	7_356_270.D	ZB-35 0.53 (mm)
STD2 480-218106/6 IC		12/09/2014 20:41	1	7_356_271.D	ZB-5 0.53 (mm)
STD2 480-218106/6 IC		12/09/2014 20:41	1	7_356_271.D	ZB-35 0.53 (mm)
STD1 480-218106/7 IC		12/09/2014 20:56	1	7_356_272.D	ZB-5 0.53 (mm)
STD1 480-218106/7 IC		12/09/2014 20:56	1	7_356_272.D	ZB-35 0.53 (mm)
ICV 480-218106/8		12/09/2014 21:12	1		ZB-5 0.53 (mm)
ICV 480-218106/8		12/09/2014 21:12	1		ZB-35 0.53 (mm)
STD3 480-218106/9 IC		12/09/2014 21:28	1	7_356_274.D	ZB-5 0.53 (mm)
STD3 480-218106/9 IC		12/09/2014 21:28	1	7_356_274.D	ZB-35 0.53 (mm)
STD2 480-218106/10 IC		12/09/2014 21:44	1	7_356_275.D	ZB-5 0.53 (mm)
STD2 480-218106/10 IC		12/09/2014 21:44	1	7_356_275.D	ZB-35 0.53 (mm)
STD1 480-218106/11 IC		12/09/2014 22:00	1	7_356_276.D	ZB-5 0.53 (mm)
STD1 480-218106/11 IC		12/09/2014 22:00	1	7_356_276.D	ZB-35 0.53 (mm)
ICV 480-218106/12		12/09/2014 22:15	1		ZB-5 0.53 (mm)
ICV 480-218106/12		12/09/2014 22:15	1		ZB-35 0.53 (mm)
STD3 480-218106/13 IC		12/09/2014 22:31	1	7_356_278.D	ZB-5 0.53 (mm)
STD3 480-218106/13 IC		12/09/2014 22:31	1	7_356_278.D	ZB-35 0.53 (mm)
STD2 480-218106/14 IC		12/09/2014 22:47	1	7_356_279.D	ZB-5 0.53 (mm)
STD2 480-218106/14 IC		12/09/2014 22:47	1	7_356_279.D	ZB-35 0.53 (mm)
STD1 480-218106/15 IC		12/09/2014 23:03	1	7_356_280.D	ZB-5 0.53 (mm)
STD1 480-218106/15 IC		12/09/2014 23:03	1	7_356_280.D	ZB-35 0.53 (mm)
ICV 480-218106/16		12/09/2014 23:19	1		ZB-5 0.53 (mm)
ICV 480-218106/16		12/09/2014 23:19	1		ZB-35 0.53 (mm)
STD3 480-218106/17 IC		12/09/2014 23:35	1	7_356_282.D	ZB-5 0.53 (mm)
STD3 480-218106/17 IC		12/09/2014 23:35	1	7_356_282.D	ZB-35 0.53 (mm)
STD2 480-218106/18 IC		12/09/2014 23:51	1	7_356_283.D	ZB-5 0.53 (mm)
STD2 480-218106/18 IC		12/09/2014 23:51	1	7_356_283.D	ZB-35 0.53 (mm)
STD1 480-218106/19 IC		12/10/2014 00:06	1	7_356_284.D	ZB-5 0.53 (mm)
STD1 480-218106/19 IC		12/10/2014 00:06	1	7_356_284.D	ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

SDG No.: _____

Instrument ID: HP6890-7 Start Date: 12/09/2014 19:21Analysis Batch Number: 218106 End Date: 12/10/2014 01:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 480-218106/20		12/10/2014 00:22	1		ZB-5 0.53 (mm)
ICV 480-218106/20		12/10/2014 00:22	1		ZB-35 0.53 (mm)
STD3 480-218106/21 IC		12/10/2014 00:38	1	7_356_286.D	ZB-5 0.53 (mm)
STD3 480-218106/21 IC		12/10/2014 00:38	1	7_356_286.D	ZB-35 0.53 (mm)
STD2 480-218106/22 IC		12/10/2014 00:54	1	7_356_287.D	ZB-5 0.53 (mm)
STD2 480-218106/22 IC		12/10/2014 00:54	1	7_356_287.D	ZB-35 0.53 (mm)
STD1 480-218106/23 IC		12/10/2014 01:10	1	7_356_288.D	ZB-5 0.53 (mm)
STD1 480-218106/23 IC		12/10/2014 01:10	1	7_356_288.D	ZB-35 0.53 (mm)
ICV 480-218106/24		12/10/2014 01:26	1		ZB-5 0.53 (mm)
ICV 480-218106/24		12/10/2014 01:26	1		ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-74383-1

SDG No.: _____

Instrument ID: HP6890-7Start Date: 01/20/2015 10:11Analysis Batch Number: 223637End Date: 01/20/2015 17:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-223637/3		01/20/2015 10:11	1	7_361_052.D	ZB-5 0.53 (mm)
CCV 480-223637/3		01/20/2015 10:11	1	7_361_052.D	ZB-35 0.53 (mm)
MB 480-223536/1-A		01/20/2015 10:43	1	7_361_054.D	ZB-5 0.53 (mm)
MB 480-223536/1-A		01/20/2015 10:43	1	7_361_054.D	ZB-35 0.53 (mm)
LCS 480-223536/2-A		01/20/2015 10:58	1	7_361_055.D	ZB-5 0.53 (mm)
LCS 480-223536/2-A		01/20/2015 10:58	1	7_361_055.D	ZB-35 0.53 (mm)
480-74383-1 MS	TMC-CS-NW MS	01/20/2015 11:14	1	7_361_056.D	ZB-5 0.53 (mm)
480-74383-1 MS	TMC-CS-NW MS	01/20/2015 11:14	1	7_361_056.D	ZB-35 0.53 (mm)
480-74383-1 MSD	TMC-CS-NW MSD	01/20/2015 11:30	1	7_361_057.D	ZB-5 0.53 (mm)
480-74383-1 MSD	TMC-CS-NW MSD	01/20/2015 11:30	1	7_361_057.D	ZB-35 0.53 (mm)
480-74383-1	TMC-CS-NW	01/20/2015 11:46	1	7_361_058.D	ZB-5 0.53 (mm)
480-74383-1	TMC-CS-NW	01/20/2015 11:46	1	7_361_058.D	ZB-35 0.53 (mm)
480-74383-2	TMC-CS-NE	01/20/2015 12:02	1	7_361_059.D	ZB-5 0.53 (mm)
480-74383-2	TMC-CS-NE	01/20/2015 12:02	1	7_361_059.D	ZB-35 0.53 (mm)
480-74383-3	TMC-CS-SE	01/20/2015 12:18	1	7_361_060.D	ZB-5 0.53 (mm)
480-74383-3	TMC-CS-SE	01/20/2015 12:18	1	7_361_060.D	ZB-35 0.53 (mm)
480-74383-4	TMC-CS-SW	01/20/2015 12:33	1	7_361_061.D	ZB-5 0.53 (mm)
480-74383-4	TMC-CS-SW	01/20/2015 12:33	1	7_361_061.D	ZB-35 0.53 (mm)
480-74383-5	TMC-CS-CENTER	01/20/2015 12:49	1	7_361_062.D	ZB-5 0.53 (mm)
480-74383-5	TMC-CS-CENTER	01/20/2015 12:49	1	7_361_062.D	ZB-35 0.53 (mm)
480-74383-6	TMC-CS-CENTER-FR	01/20/2015 13:05	1	7_361_063.D	ZB-5 0.53 (mm)
480-74383-6	TMC-CS-CENTER-FR	01/20/2015 13:05	1	7_361_063.D	ZB-35 0.53 (mm)
CCV 480-223637/15		01/20/2015 13:21	1	7_361_064.D	ZB-5 0.53 (mm)
CCV 480-223637/15		01/20/2015 13:21	1	7_361_064.D	ZB-35 0.53 (mm)
MB 480-223542/1-A		01/20/2015 13:53	1	7_361_066.D	ZB-5 0.53 (mm)
MB 480-223542/1-A		01/20/2015 13:53	1	7_361_066.D	ZB-35 0.53 (mm)
LCS 480-223542/2-A		01/20/2015 14:09	1	7_361_067.D	ZB-5 0.53 (mm)
LCS 480-223542/2-A		01/20/2015 14:09	1	7_361_067.D	ZB-35 0.53 (mm)
LCSD 480-223542/3-A		01/20/2015 14:24	1	7_361_068.D	ZB-5 0.53 (mm)
LCSD 480-223542/3-A		01/20/2015 14:24	1	7_361_068.D	ZB-35 0.53 (mm)
480-74383-7	EB1-01192015	01/20/2015 14:40	1	7_361_069.D	ZB-5 0.53 (mm)
480-74383-7	EB1-01192015	01/20/2015 14:40	1	7_361_069.D	ZB-35 0.53 (mm)
CCV 480-223637/21		01/20/2015 14:56	1	7_361_070.D	ZB-5 0.53 (mm)
CCV 480-223637/21		01/20/2015 14:56	1	7_361_070.D	ZB-35 0.53 (mm)
ZZZZZ		01/20/2015 15:28	1		ZB-5 0.53 (mm)
ZZZZZ		01/20/2015 15:28	1		ZB-35 0.53 (mm)
ZZZZZ		01/20/2015 15:44	1		ZB-5 0.53 (mm)
ZZZZZ		01/20/2015 15:44	1		ZB-35 0.53 (mm)
ZZZZZ		01/20/2015 16:00	1		ZB-5 0.53 (mm)
ZZZZZ		01/20/2015 16:00	1		ZB-35 0.53 (mm)
ZZZZZ		01/20/2015 16:15	5		ZB-5 0.53 (mm)
ZZZZZ		01/20/2015 16:15	5		ZB-35 0.53 (mm)
ZZZZZ		01/20/2015 16:31	2		ZB-5 0.53 (mm)
ZZZZZ		01/20/2015 16:31	2		ZB-35 0.53 (mm)
ZZZZZ		01/20/2015 16:47	1		ZB-5 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

SDG No.: _____

Instrument ID: HP6890-7 Start Date: 01/20/2015 10:11Analysis Batch Number: 223637 End Date: 01/20/2015 17:19

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		01/20/2015 16:47	1		ZB-35 0.53 (mm)
ZZZZZ		01/20/2015 17:03	25		ZB-5 0.53 (mm)
ZZZZZ		01/20/2015 17:03	25		ZB-35 0.53 (mm)
CCV 480-223637/30		01/20/2015 17:19	1		ZB-5 0.53 (mm)
CCV 480-223637/30		01/20/2015 17:19	1		ZB-35 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

SDG No.: _____

Batch Number: 223536 Batch Start Date: 01/19/15 17:06 Batch Analyst: Hartigan, Connor PBatch Method: 3550C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	CalcMsg	InitialAmount	FinalAmount	O_8081/82surr 00072	O_8082spike 00036	
MB 480-223536/1		3550C, 8082A		CALC NOT SET TO RUN	+2.42 g	10 mL	1 mL		
LCS 480-223536/2		3550C, 8082A		CALC NOT SET TO RUN	+2.68 g	10 mL	1 mL	1 mL	
480-74383-A-1 MS	TMC-CS-NW	3550C, 8082A	T	CALC NOT SET TO RUN	+2.39 g	10 mL	1 mL	1 mL	
480-74383-A-1 MSD	TMC-CS-NW	3550C, 8082A	T	CALC NOT SET TO RUN	+2.20 g	10 mL	1 mL	1 mL	
480-74383-A-1	TMC-CS-NW	3550C, 8082A	T	CALC NOT SET TO RUN	+2.46 g	10 mL	1 mL		
480-74383-A-2	TMC-CS-NE	3550C, 8082A	T	CALC NOT SET TO RUN	+2.51 g	10 mL	1 mL		
480-74383-A-3	TMC-CS-SE	3550C, 8082A	T	CALC NOT SET TO RUN	+2.17 g	10 mL	1 mL		
480-74383-A-4	TMC-CS-SW	3550C, 8082A	T	CALC NOT SET TO RUN	+2.28 g	10 mL	1 mL		
480-74383-A-5	TMC-CS-CENTER	3550C, 8082A	T	CALC NOT SET TO RUN	+2.24 g	10 mL	1 mL		
480-74383-A-6	TMC-CS-CENTER-FR	3550C, 8082A	T	CALC NOT SET TO RUN	+2.32 g	10 mL	1 mL		

Batch Notes	
Acid used for Clean Up Reagent	Sulfuric 0000086315
Balance ID	40029
Analyst performed Clean Up	CH 01-19-15
Na2SO4 Lot Number	27864009
Nominal Amount Used	2 g
Prep Solvent Lot #	0000093859
Prep Solvent Name	Hexane
Prep Solvent Volume Used	10
Person's name who witnessed reagent drop	CH
Perform Calculation (0=No, 1=Yes)	0

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.

8082A

Page 1 of 1

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

SDG No.: _____

Batch Number: 223542 Batch Start Date: 01/19/15 17:19 Batch Analyst: Hartigan, Connor PBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	InitialAmount	FinalAmount	O_608PCBSpike 00008
MB 480-223542/1		3510C, 8082A		7 SU			250 mL	2 mL	
LCS 480-223542/2		3510C, 8082A		7 SU			250 mL	2 mL	1 mL
LCSD 480-223542/3		3510C, 8082A		7 SU			250 mL	2 mL	1 mL
480-74383-A-7	EB1-01192015	3510C, 8082A	T	6 SU	441.2 g	179.4 g	261.8 mL	2 mL	

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_PCBLsurr 00025					
MB 480-223542/1		3510C, 8082A		1 mL					
LCS 480-223542/2		3510C, 8082A		1 mL					
LCSD 480-223542/3		3510C, 8082A		1 mL					
480-74383-A-7	EB1-01192015	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.: 480-74383-1

SDG No.: _____

Batch Number: 223542 Batch Start Date: 01/19/15 17:19 Batch Analyst: Hartigan, Connor PBatch Method: 3510C Batch End Date: _____

Batch Notes	
Acid used for Clean Up Reagent	Sulfuric
Acid Lot	0000086315; CH 1/19/15
Balance ID	14552245
Person's name who did the concentration	CH
Exchange Solvent Lot #	0000093859
Exchange Solvent Name	Hexane
Final Concentrator Volume	1 mL
Glass Wool ID	03413999
Na2SO4 Lot Number	27864009
pH Paper Lot Number	HC421273
Prep Solvent Lot #	0000095733
Prep Solvent Name	Methylene Chloride
Prep Solvent Volume Used	60 mL
Person's name who did the prep	CH
Person's name who witnessed reagent drop	CH
Person who performed Spike	CH
Person who witnessed spiking	CH
Sufficient volume for MS/MSD?	NO

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.

GENERAL CHEMISTRY

COVER PAGE
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-74383-1

SDG No.: _____

Project: GE Tonawanda

Client Sample ID	Lab Sample ID
<u>TMC-CS-NW</u>	<u>480-74383-1</u>
<u>TMC-CS-NE</u>	<u>480-74383-2</u>
<u>TMC-CS-SE</u>	<u>480-74383-3</u>
<u>TMC-CS-SW</u>	<u>480-74383-4</u>
<u>TMC-CS-CENTER</u>	<u>480-74383-5</u>
<u>TMC-CS-CENTER-FR</u>	<u>480-74383-6</u>

Comments:

9-IN
DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-74383-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture RL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	RL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

9-IN
CALIBRATION BLANK DETECTION LIMITS
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job Number: 480-74383-1
SDG Number: _____
Matrix: Solid Instrument ID: NOEQUIP
Method: Moisture XRL Date: 08/17/2009 12:10

Analyte	Wavelength/ Mass	XRL (%)	
Percent Moisture		0.1	
Percent Solids		0.1	

13-IN
ANALYSIS RUN LOG
GENERAL CHEMISTRY

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

SDG No.: _____

Instrument ID: NOEQUIP Method: Moisture

Start Date: 01/19/2015 16:52 End Date: 01/19/2015 16:52

Lab Sample ID	D / F	T y p e	Time	Analytes																	
				% S o l	M o i s t																
ZZZZZZ			16:52																		
ZZZZZZ			16:52																		
ZZZZZZ			16:52																		
ZZZZZZ			16:52																		
ZZZZZZ			16:52																		
480-74383-1	1	T	16:52	X	X																
480-74383-2	1	T	16:52	X	X																
480-74383-3	1	T	16:52	X	X																
480-74383-4	1	T	16:52	X	X																
480-74383-5	1	T	16:52	X	X																
480-74383-6	1	T	16:52	X	X																

Prep Types

T = Total/NA

GENERAL CHEMISTRY BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-74383-1

SDG No.: _____

Batch Number: 223535 Batch Start Date: 01/19/15 16:52 Batch Analyst: Kinecki, Kenneth PBatch Method: Moisture Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	DISH#	DishWeight	SampleMassWet	SampleMassDry		
480-74383-A-1	TMC-CS-NW	Moisture	T	6	4.20 g	12.65 g	11.06 g		
480-74383-A-2	TMC-CS-NE	Moisture	T	7	4.20 g	12.53 g	10.87 g		
480-74383-A-3	TMC-CS-SE	Moisture	T	8	4.20 g	14.10 g	11.88 g		
480-74383-A-4	TMC-CS-SW	Moisture	T	9	4.20 g	9.86 g	8.84 g		
480-74383-A-5	TMC-CS-CENTER	Moisture	T	10	4.20 g	9.72 g	8.61 g		
480-74383-A-6	TMC-CS-CENTER-FR	Moisture	T	11	4.20 g	12.94 g	10.91 g		

Batch Notes	
Batch Comment	PP-FH-07-14 4.20
Date samples were placed in the oven	01/19/15
Time samples were place in the oven	1700

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.

Moisture

Page 1 of 1

Shipping and Receiving Documents

Login Sample Receipt Checklist

Client: URS Corporation

Job Number: 480-74383-1

Login Number: 74383

List Source: TestAmerica Buffalo

List Number: 1

Creator: Janish, Carl M

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time.	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	URS
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

ATTACHMENT 3

BACKFILL STONE CLEAN SOURCE LETTER & WEIGHT TICKET



Nicholas Dolyk
400 Hinman Rd.
Lockport, NY 14094
716-998-7212

Re: Lockport Quarry fill

To Whom It May Concern:

The Light Stone Fill material being provided for this project is from a clean, all natural source that is monitored by the New York State Department of Environmental Conservation and The New York State Department of Transportation.

Any questions please feel free to contact me. Thank you.

Regards,

A handwritten signature in black ink, appearing to read 'NDolyk', written over the printed name.

Nicholas Dolyk

Lafarge

Lafarge 30182	LOCKPORT AGGREGATE PLANT 400 HINMAN ROAD	716-439-1300 716-505-5354
Ticket : 676474		01/22/2015 8:44
Customer : 11674988 PARISO LOGISTICS INC		
Quote : 751925		
ZONE P4		
Delv Ins 1 : CARMEN M PARISO ZONE 4		
Delv Ins 1 :		
Cust Job # :		
P.O. # :		
Order # : 5-5R		
Delivery N		
Truck : PAR228 License : 82678PA		
Zone Id : N31 Max GVW : 76606 1b		
Hired Id : PLI PARISO LOGISTICS INC		
Product : AG5038 LIGHT STONE FILL		
Imperial Metric		
Gross :	53840 1b	24421 kg
Stored Tare :	27020 1b MAN WT	12256 kg
Net :	26820 1b	12165 kg
Qty :	13.41 TN	12.17 TM
Loads :	1	
Acc. Qty :	13.41 TN	12.16 TM

Weighmaster : KSUTTON

Received and

Accepted Material

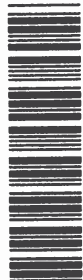
Driver:

*NOTE: US scales weighed in lb/CA scales weighed in kg

Plant : 30182



Ticket : 676474



Net : 13.41 TN



Truck : PAR228



Tare : 27020 1b



ATTACHMENT 4

SOIL WEIGHT TICKET & FINAL NON-HAZARDOUS WASTE MANIFEST



High Acres LF
425 Perinton Pkwy
Fairport, NY, 14450
Ph: (585) 223-6132

Original
Ticket# 1005936

Customer Name GETONAWANDA - 113662NY GENERA Carrier PRI PRICE TRUCKING CORP
Ticket Date 01/23/2015 Vehicle# 4000 Volume
Payment Type Credit Account Container
Manual Ticket# Driver
Hauling Ticket# Check#
Route Billing # 0006607
State Waste Code Gen EPA ID
Manifest ** Grid CELL 11
Destination
PO
Profile 113662NY (SOIL FROM STREAM BANK REMEDIATION)
Generator 190-GETONAWANDA GENERAL ELECTRIC

Time	Scale	Operator	Inbound	Gross	55860 lb
In 01/23/2015 07:02:08	A Scale 1	JFRUTCHE		Tare	35700 lb
Out 01/23/2015 07:45:15	B Scale 2	JFRUTCHE		Net	20160 lb
				Tons	10.08

Comments

Product	LDX	Qty	UDM	Rate	Fee	Amount	Origin
1 Cont Soil RCB-Tons 100		10.08	Tons				ERI
2 EVF-P-Standard Env 100			%				ERI
3 RCR-P-Regulatory C 100			%				ERI

Total Fees
Total Ticket

Driver's Signature_____

NON-HAZARDOUS WASTE MANIFEST

4060

Please print or type (Form designed for use on elite (12 pitch) typewriter)

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. N/A		Manifest Document No.		2. Page 1 of 1	
3. Generator's Name and Mailing Address General Electric 319 Great Oaks Boulevard, Albany, NY 12203				450 Ensminger Rd. Tonawanda NY 14150			
4. Generator's Phone () 518-862-2730 Allen T. Antonoff				6. US EPA ID Number NYD048785574			
5. Transporter 1 Company Name Price Trucking				A. State Transporter's ID 558831V			
7. Transporter 2 Company Name				B. Transporter 1 Phone 716-822-0177			
8. US EPA ID Number				C. State Transporter's ID			
9. Designated Facility Name and Site Address High Acres Landfill 426 Perinton Pkwy. Fairport, NY 14450				D. Transporter 2 Phone			
10. US EPA ID Number N/A				E. State Facility's ID			
				F. Facility's Phone 585-225-8132			
11. WASTE DESCRIPTION				Containers		13. Total Quantity	
				No. Type		14. Unit Wt./Vol.	
a. NON DOT Regulated Solids, NOS (Contaminated Soil)				1		CM	
b.						10	
c.						T	
d.							
G. Additional Descriptions for Materials Listed Above				H. Handling Codes for Wastes Listed Above			
a. # 113662NY				a. L			
b. Job # FUR60049				b.			
15. Special Handling Instructions and Additional Information In Case Of Emergency call 1-800-225-6750							
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.							
Printed/Typed Name Steven Moeller of URS, as						Date	
Signature [Signature]						Month Day Year 01/20/2015	
17. Transporter 1 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name Thomas Rice						Month Day Year 01/20/2015	
Signature [Signature]						Date	
18. Transporter 2 Acknowledgement of Receipt of Materials						Date	
Printed/Typed Name CRISTIAN MANOZ						Month Day Year 01/22/2015	
Signature [Signature]						Date	
19. Discrepancy Indication Space							
20. Facility Owner or Operator: Certification of receipt of the waste materials covered by this manifest, except as noted in item 19.							
Printed/Typed Name J. Mutchay						Date	
Signature [Signature]						Month Day Year 1/23/15	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

ATTACHMENT 5
COMPLETION NOTICES

May 15, 2015

Mr. David Leput
Regulatory Branch
U.S. Army Corps of Engineers
1776 Niagara Street
Buffalo, New York 14207

RE: Completion Form / Compliance Certification
Two Mile Creek Limited Bank Soil Removal
490 East Park Avenue
Tonawanda, New York
File No.: 2014-00892

Dear Mr. Leput:

On behalf of General Electric International, Inc. (GE), AECOM, a successor to URS Corporation – New York (URS), is submitting the attached Completion Form / Compliance Certification for File No. 2014-00892.

GE and AECOM appreciate your assistance with this project. If you have any questions please call us, or Mr. Tom Antonoff of GE at (518) 862-2720.

Very truly yours,



Karen Peppin
Project Manager
URS Corporation – New York



Don Porterfield, P.E.
Principal Environmental Engineer
URS Corporation – New York

Attachment: Completion Form / Compliance Certification

cc: Ms. Jessica LeClair, NYSDEC DER
Mr. Michael Kaiser, Town of Tonawanda
Mr. Tom Antonoff, GE

COMPLETION FORM / COMPLIANCE CERTIFICATION

Each permittee who receives a Nationwide Permit (NWP) verification letter from the Corps must provide a signed certification documenting completion of the authorized activity and any compensatory mitigation.

APPLICANT:

Thomas Antonoff
General Electric International
Inc.
319 Great Oaks Boulevard
Albany, New York 12203

POINT OF CONTACT:

Karen Peppin
URS Corporation
3 Corporate Drive
Clifton Park, NY 12065

File No.: 2014-00892

File Closed: 09/18/14

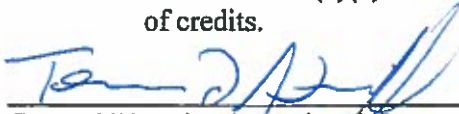
NWP No.: 18

Upon completion of the activity authorized by this permit and any required compensatory mitigation sign this certification and return it to the address listed below within 30 days of project completion.

Please note that your permitted activity is subject to a compliance inspection by a U.S. Army Corps of Engineers representative. If you fail to comply with this permit you are subject to permit suspension, modification, revocation, and/or assessment of administrative penalties.

The permittee shall certify the completion of the authorized work and mitigation:

- a. The authorized work was done in accordance with the NWP authorization, including any general, regional, or activity specific conditions.
- b. The implementation of any required compensatory mitigation was completed in accordance with the permit conditions. If credits from a mitigation bank or in-lieu fee program are used to satisfy the compensatory mitigation requirements, this certification must include the documentation required by 33 CFR 332.3(1)(3) to confirm that the permittee secured the appropriate number and resource type of credits.



General Electric International, Inc.

5-13-15
Date

Permittee Telephone Number: 518-862-2720

Project location: On the west bank of Two Mile Creek in Sheridan Park Golf Course, approximately 550 south of Interstate 290 and 1,100 feet north of Ensminger Road.

Project Description: To remove soil from an area along the streambank that contains PCB's and dispose of an approved hazardous waste disposal site. The area then will be restored to original grade with granular fill.

Authorized Impacts (Waters of the U.S. Impacted by Project): Removal of 5.5 cubic yards of soil material/Granular Fill (3 cubic yards) Total Area of Disturbance 0.002 Acres

Waterway and/or Project Setting: Two Mile Creek

Return completed form to:
Mr. David Leput
Regulatory Branch
U.S. Army Corps of Engineers
1776 Niagara Street
Buffalo, NY 14207

May 15, 2015

Mr. David S. Denk
Regional Permit Administrator
New York State Department of Environmental Conservation
Division of Environmental Permits, Region 9
270 Michigan Avenue
Buffalo, New York 14203-2915

RE: Notice of Completion
Two Mile Creek Limited Bank Soil Removal
490 East Park Avenue
Tonawanda, New York
Permit No. 9-1464-00314/00001

Dear Mr. Denk:

On behalf of General Electric International, Inc. (GE), AECOM, a successor to URS Corporation – New York (URS), is writing to notify you of the completion of the work covered by these two permits:

- Stream Disturbance – Permit ID 9-1464-00314/00001; and
- Water Quality Certification – Permit ID 9-1464-00314/00002.

GE and AECOM appreciate the NYSDEC's continued assistance with this project. If you have any questions please call us.

Very truly yours,



Karen Peppin
Project Manager
URS Corporation – New York



Don Porterfield, P.E.
Principal Environmental Engineer
URS Corporation – New York

cc: Ms. Jessica LeClair, NYSDEC DER
Mr. Michael Kaiser, Town of Tonawanda
Mr. Tom Antonoff, GE