



**Department of
Environmental
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New York State Department of Environmental
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Columbia Mills Site 2015 Annual Groundwater Monitoring Report

NYSDEC Site Number 7-38-012

December 2015

COLUMBIA MILLS SITE 2015 ANNUAL GROUNDWATER MONITORING REPORT

NYSDEC Site Number 7-38-012



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ACRONYMS AND ABBREVIATIONS

ABP	Amphibian Breeding Pond
AMSL	Above Mean Sea Level
DO	Dissolved Oxygen
DUP	Duplicate
MW	Monitoring Well
NYSDEC	New York State Department of Environmental Conservation
O&M	Operation and Maintenance
PCBs	Poly-chlorinated Biphenyls
PPRS	Pore-pressure Relief System
PRR	Periodic Review Report
REDOX	Oxidation-Reduction Potential
TDS	Total Dissolved Solids
ug/L	Micrograms per liter
USEPA	United States Environmental Protection Agency

1 INTRODUCTION

The NYSDEC has issued a Work Assignment (# D007618-10) to ARCADIS CE, Inc. (Arcadis) for Operation, Maintenance, and Monitoring at the Columbia Mills Site (NYSDEC Site Number 7-38-012) in Minetto, New York. Arcadis has prepared this Report in accordance with the NYSDEC-approved Work Plan to summarize site activities, including second quarter 2015 groundwater sampling results.

2 SITE DESCRIPTION

The Columbia Mills site is located on Route 48, Minetto, Oswego County, New York (Figure 2-1), across Route 48 from the western bank of the Oswego Canal. A capped, closed landfill is located in the western portion of the site. The landfill is surrounded by a six-foot chain-link fence. Groundwater quality in the vicinity of the landfill is monitored by sampling of eight groundwater monitoring wells on a five-quarter basis.

3 OPERATION AND MAINTENANCE

O&M activities were conducted on April 22 and 23, 2015 in accordance with the Work Plan (Malcolm Pirnie, 2007), the recommendations in the 2011 Periodic Review Report (PRR) (Arcadis, 2011), and in consultation with NYSDEC. Site visits were also conducted on July 13, 2015 and August 13, 2015 as described below.

3.1 Observations and Activities

3.1.1 April 22 and 23

- A visual inspection of the landfill cap was performed to assess the landfill for burrowing rodents, erosion and settlement or woody vegetation. No active burrowing rodent holes, erosion, or cap settlement was observed. The landfill cap was not mowed; however, no woody vegetation was observed on the cover system.
- An approximately 30 ft. section of perimeter fence along the eastern side of the landfill was found to be damaged and could not be repaired during the April site inspection.
- The outlet structure for the Amphibian Breeding Pond (ABP) was clogged with branches and other debris. The outlet was cleared and normal flow restored.
- Photographs taken during the April inspection are provided in Appendix A.

3.1.2 July 13, 2015

- The section of damaged fence along the eastern side of the landfill was repaired by Arcadis and NYSDEC personnel on July 13, 2015 by replacing three post and stretching and re-securing the fence fabric.
- During the July 13, 2015 fence repairs, NYSDEC Operations were on-site to mow the landfill cap. During mowing operations, groundwater monitoring well MW-1D was hit by the mower and damaged.
- Photographs of the fence repair and damaged well are provided in Appendix A.

3.1.3 August 13, 2015

- Damaged monitoring well MW-1D was repaired by Arcadis on August 13, 2015 by removing and replacing the damaged protective casing and well riser. The elevation of the riser will need to be re-surveyed to provide an accurate measuring point elevation. The survey will be performed by Arcadis during the next (2016) site inspection.
- Photographs of the repaired well are provided in Appendix A.

3.2 Leachate Collection system Operation Overview

A schematic of the leachate collection system is provided on Figure 3-1. Figure 3-2 provides a process flow diagram of the leachate collection system. As shown on Figure 3-2, a combination Pore-pressure Relief System (PPRS)/leachate collection system is located along the perimeter of the landfill cell. The system directs leachate by gravity to a 10,000 gallon sub-surface leachate collection tank, the Town of Minetto sanitary sewer, or the ABP (via the combination sampling sump). A valve located at the inlet to the collection tank controls flow into the tank. Valves located up-gradient of the leachate collection tank can direct flow to the Town of Minetto sanitary sewer or ABP. Currently, at the direction of the NYSDEC, leachate is being directed to Town of Minetto sanitary sewer.

As shown on Figure 3-1 and 3-2, groundwater from separate PPRSs (north and south of the landfill cell, respectively) discharges into a pre-cast concrete combination sampling sump located on the west side of the landfill. Valves within the sampling sump control groundwater flow into the sump and through the PPRSs. The valves can be closed if sampling indicates the presence of contamination in groundwater from the PPRS collection lines.

3.3 Leachate Collection System Sampling

Leachate collection system samples were collected from the north and south PPRS and leachate inlet pipes in the combination sampling sump (Figure 3-1) to evaluate the potential presence of PCBs in the leachate (currently discharged to the Town of Minetto sanitary sewer).

3.3.1 Sampling Procedures

Leachate flow was temporarily diverted from the Town of Minetto sanitary sewer to the combination sampling sump. Leachate collection system samples were then collected from each inlet pipe to the combination sampling sump structure (leachate north PPRS, and south PPRS) (Figure 3-1) using a peristaltic pump with dedicated sample tubing. Leachate flow was restored to the Town of Minetto sanitary sewer after sampling was complete.

Samples from the combination sampling sump were submitted to TestAmerica in Amherst, New York for analysis of PCBs by USEPA Method 8082.

3.3.2 Sampling Results

Leachate collection system sampling results are summarized in Table 3-1 (PCBs). Analytical reporting forms are provided in Appendix A.

As shown in Table 3-1, none of the samples collected from the leachate collection system contained PCBs at concentrations greater than the indicated laboratory quantitation limits.

4 GROUNDWATER MONITORING PROGRAM

4.1 Groundwater Monitoring

Groundwater monitoring wells were sampled on April 22 and 23, 2015 to provide information on groundwater quality, monitor contaminant migration in the groundwater at the site, and assess hydrogeologic site conditions, including groundwater flow. The site is currently being sampled every five quarters, therefore, the next groundwater sampling event will be conducted during the third quarter 2016.

4.2 Well Inspection

Existing on-site groundwater monitoring wells and piezometers (Figure 4-1) were evaluated for integrity and suitability for groundwater monitoring and water levels. The condition of each well and piezometer was recorded on well inspection logs (Appendix B). As shown in Appendix B, the integrity of the groundwater monitoring wells and piezometers were acceptable and no repair or maintenance is required at this time.

4.2.1 Groundwater Flow

Prior to collecting samples, groundwater levels were measured to the nearest hundredth of a foot and recorded on a groundwater level data form (Appendix C). Table 4-1 summarizes the groundwater levels and elevations from the site. As shown in Table 4-1, groundwater elevations in shallow overburden and bedrock wells ranged from approximately 311 feet amsl to approximately 326 feet amsl; groundwater elevations in deep bedrock wells ranged from approximately 301 feet amsl to approximately 326 feet amsl. As shown in Table 4-1, well clusters MW-1S/1D and 2S/2D had higher groundwater elevations in the deep groundwater monitoring zone compared to the shallow groundwater monitoring zone, indicating an upward hydraulic gradient at these locations. Table 4-1 shows that well clusters MW-3S/3D and MW-4S/4D had downward hydraulic gradient. As shown in Table 4-1, the average shallow and deep groundwater elevations measured in 2015 are approximately the two feet higher than the elevations measured in 2013.

Shallow and deep potentiometric surfaces map are provided on Figure 4-2 and Figure 4-3, respectfully. As shown on Figure 4-2 and Figure 4-3, the direction of groundwater flow in the vicinity of the site is generally to the northeast toward the ABP and the Oswego Canal.

4.3 Groundwater Sampling

Groundwater samples from monitoring wells MW-1S, MW-1D, MW-2S, MW-2D, MW-3S, MW-3D, MW-4S, and MW-4D were collected using low-flow groundwater purging and sampling procedures in accordance with the Work Plan. One sample (DUP-1) was collected from MW-1D and submitted as a field duplicate. Prior to collecting groundwater samples, pH, conductivity, turbidity, DO, temperature, salinity, TDS, and REDOX were measured using a Horiba U-52 water quality meter and recorded on groundwater sampling purge logs. Groundwater sampling purge logs are presented in Appendix D. As shown in Appendix D, MW-3S and MW-3D were pumped dry during purging. Groundwater samples were collected

from these wells after allowing the wells to recharge for approximately 24 hours. Groundwater samples were submitted to TestAmerica for analysis of PCBs by USEPA Method 8082.

4.3.1 Groundwater Sampling Results

Table 4-2 shows that no PCBs were detected in any of the groundwater samples collected during the April 2015 sampling event. As shown in Table 4-2, only one groundwater sample (MW-3S collected in 2007) has ever contained a total PCB concentration greater than the respective NYSDEC Class GA Standard of 0.09 ug/L.

5 RECOMMENDATIONS

- Annual O&M should continue to be conducted as described in the Work Plan and as recommended in the PRR.
- The landfill cap should continue to be mowed on an annual basis to prevent the establishment of woody vegetation.
- The measuring point elevation for groundwater monitoring well MW-1D should be re-surveyed during the next site inspection.

6 SUMMARY

Other than a damaged perimeter fence, O&M activities conducted in April 2015 indicated no significant problems with the condition or security of the landfill. The damaged fence was repaired by Arcadis and NYSDEC in July 2015.

The landfill cap was mowed by NYSDEC Operation in July 2015. During the mowing event, groundwater monitoring well MW-1D was damaged. The well was repaired by Arcadis in August 2015 but needs to be surveyed to obtain accurate measuring point data.

Leachate and PPRS samples did not contain detectable concentrations of PCBs. The groundwater monitoring wells and piezometers are generally in acceptable condition. Based on the water level survey, groundwater flow across the site is generally toward the northeast. No PCBs were detected in the groundwater samples collected during the April 2015 monitoring event.

Annual O&M should continue to be conducted as described in the Work Plan and as recommended in the PRR.

The next groundwater sampling event will be conducted during the third quarter 2016.

7 REFERENCES

Arcadis, 2011, Periodic Review Report, Columbia Mills Site, Site Number 7-38-012.

Malcolm Pirnie, 2007, Work Plan, Columbia Mills Site, Site Number 7-38-012.

TABLES



Table 3-1
Summary of Leachate Collection System Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class AA/GA Standard	Leachate 6/19/2009 ug/L	Leachate 3/25/2010 ug/L	Leachate 6/22/2011 ug/L	Leachate 7/30/2012 ug/L	Leachate 10/17/2013 ug/L	Leachate 4/23/2015 ug/L
Analyte							
PCB-1016	-	0.53 U	0.53 U	0.5 U	0.47 U	0.49 U	0.5 U
PCB-1221	-	0.53 U	0.53 U	0.5 U	0.47 U	0.49 U	0.5 U
PCB-1232	-	0.53 U	0.53 U	0.5 U	0.47 U	0.49 U	0.5 U
PCB-1242	-	0.53 U	0.53 U	0.5 U	0.47 U	0.49 U	0.5 U
PCB-1248	-	0.53 U	0.53 U	0.5 U	0.47 U	0.49 U	0.5 U
PCB-1254	-	0.53 U	0.53 U	0.5 U	0.47 U	0.49 U	0.5 U
PCB-1260	-	0.53 U	0.53 U	0.5 U	0.47 U	0.49 U	0.5 U
Total PCBs	0.09	-	-	-	-	-	-

Notes:
U - Analyte not detected

Table 3-1
Summary of Leachate Collection System Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class AA/GA Standard	North PPRS 6/19/2009 ug/L	North PPRS 3/25/2010 ug/L	North PPRS 6/22/2011 ug/L	North PPRS 10/17/2013 ug/L	North PPRS 4/23/2015 ug/L
Analyte						
PCB-1016	-	0.5 U	0.5 U	0.5 U	0.48 U	0.5 U
PCB-1221	-	0.5 U	0.5 U	0.5 U	0.48 U	0.5 U
PCB-1232	-	0.5 U	0.5 U	0.5 U	0.48 U	0.5 U
PCB-1242	-	0.5 U	0.5 U	0.5 U	0.48 U	0.5 U
PCB-1248	-	0.5 U	0.5 U	0.5 U	0.48 U	0.5 U
PCB-1254	-	0.5 U	0.5 U	0.5 U	0.48 U	0.5 U
PCB-1260	-	0.5 U	0.5 U	0.5 U	0.48 U	0.5 U
Total PCBs	0.09	-	-	-	-	-

Notes:
U - Analyte not detected

Table 3-1
Summary of Leachate Collection System Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class AA/GA Standard	South PPRS 6/19/2009 ug/L	South PPRS 3/25/2010 ug/L	South PPRS 6/22/2011 ug/L	South PPRS 7/30/2012 ug/L	South PPRS 10/17/2013 ug/L	South PPRS 4/23/2015 ug/L
Analyte							
PCB-1016	-	0.5 U	0.5 U	0.5 U	0.49 U	0.49 U	0.5 U
PCB-1221	-	0.5 U	0.5 U	0.5 U	0.49 U	0.49 U	0.5 U
PCB-1232	-	0.5 U	0.5 U	0.5 U	0.49 U	0.49 U	0.5 U
PCB-1242	-	0.5 U	0.5 U	0.5 U	0.49 U	0.49 U	0.5 U
PCB-1248	-	0.5 U	0.5 U	0.5 U	0.49 U	0.49 U	0.5 U
PCB-1254	-	0.5 U	0.5 U	0.5 U	0.49 U	0.49 U	0.5 U
PCB-1260	-	0.5 U	0.5 U	0.5 U	0.49 U	0.49 U	0.5 U
Total PCBs	0.09	-	-	-	-	-	-

Notes:
U - Analyte not detected

Table 3-1
Summary of Leachate Collection System Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class AA/GA Standard	Tank 10/2/2008 ug/L	Tank 3/25/2010 ug/L
Analyte			
PCB-1016	-	0.53 U	0.53 U
PCB-1221	-	1.1 U	0.53 U
PCB-1232	-	0.53 U	0.53 U
PCB-1242	-	0.53 U	0.53 U
PCB-1248	-	0.53 U	0.53 U
PCB-1254	-	0.53 U	0.53 U
PCB-1260	-	0.53 U	0.53 U
Total PCBs	0.09	-	-

Notes:

U - Analyte not detected

Table 4-1
Summary of Groundwater Elevations
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Well	Measuring Point Elevation ⁽¹⁾ (feet)	8/6/2007		10/1/2008		6/17/2009		3/24/2010		6/22/2011		7/25/2012		10/17/2013		4/22/2015	
		DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)	DTW (feet)	Elevation (feet)
MW-1S	324.85	6.94	317.91	4.91	319.94	4.81	320.04	2.98	321.87	5.20	319.65	6.92	317.93	5.28	319.57	3.07	321.78
MW-1D	325.14	3.70	321.44	1.96	323.18	1.80	323.34	0.67	324.47	2.23	322.91	3.50	321.64	2.10	323.04	1.04	324.10
MW-2S	335.93	13.90	322.03	13.22	322.71	11.66	324.27	9.43	326.50	12.10	323.83	13.46	322.47	13.07	322.86	9.95	325.98
MW-2D	335.90	13.95	321.95	13.39	322.51	11.77	324.13	9.19	326.71	11.80	324.10	13.62	322.28	13.43	322.47	9.56	326.34
MW-3S	316.02	6.42	309.60	5.71	310.31	5.76	310.26	5.94	310.08	5.48	310.54	6.67	309.35	6.52	309.50	5.05	310.97
MW-3D	315.79	8.23	307.56	16.52	299.27	22.03	293.76	20.78	295.01	16.21	299.58	17.71	298.08	16.75	299.04	14.88	300.91
MW-4S	321.63	12.20	309.43	12.21	309.42	11.70	309.93	8.41	313.22	11.69	309.94	12.27	309.36	11.02	310.61	9.13	312.50
MW-4D	321.26	11.44	309.82	11.29	309.97	11.13	310.13	10.17	311.09	11.12	310.14	11.51	309.75	11.05	310.21	10.37	310.89
LFP-1	NA	19.15	-	18.74	-	18.36	-	18.00	-	18.30	-	18.91	-	18.55	-	17.17	-
LFP-2	NA	16.40	-	16.45	-	NM	-	13.12	-	Dry	-	16.00	-	15.86	-	12.76	-
LFP-3	NA	14.75	-	14.20	-	14.18	-	13.85	-	14.20	-	14.59	-	14.00	-	13.76	-
LFP-4	NA	13.57	-	13.40	-	13.24	-	13.28	-	13.25	-	13.33	-	13.28	-	13.15	-
LFP-5	NA	17.30	-	17.32	-	17.26	-	16.61	-	16.92	-	17.15	-	17.06	-	16.55	-
LFP-6	NA	14.50	-	14.19	-	13.44	-	12.40	-	13.40	-	14.15	-	13.73	-	12.51	-
LFP-7	NA	NM	-	Dry	-	NM	-	Dry	-	Dry	-	Dry	-	Dry	-	Dry	-
LFP-8	NA	13.92	-	13.54	-	13.21	-	12.39	-	13.30	-	13.74	-	13.72	-	12.39	-
LFP-9	NA	18.20	-	18.00	-	17.93	-	17.79	-	17.85	-	18.13	-	17.93	-	17.67	-
LFP-10	NA	15.18	-	14.90	-	14.90	-	14.81	-	14.89	-	15.18	-	14.88	-	14.73	-
LFP-11	NA	23.77	-	23.18	-	22.89	-	22.41	-	22.85	-	23.55	-	22.95	-	22.15	-
LFP-12	NA	NM	-	Dry	-	Dry	-	Dry	-	Dry	-	Dry	-	Dry	-	14.56	-
LFP-13	NA	Dry	-	6.33	-	6.50	-	5.48	-	6.60	-	7.48	-	5.75	-	5.92	-
LFP-14	NA	26.37	-	26.00	-	25.83	-	25.49	-	25.80	-	26.23	-	25.96	-	25.40	-

Notes

(1) - Source: Malcolm Pirnie Inc. Project Number 0266319

Table 2-2, Monitoring Well and Piezometer Construction Summary

NA - Not Available

NM - Not Measured

Table 4-2
Summary of Groundwater Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class GA Standards	MW-1S 8/7/2007 ug/L	MW-1S 10/1/2008 ug/L	MW-1S 6/18/2009 ug/L	MW-1S 3/24/2010 ug/L	MW-1S 6/22/2011 ug/L	MW-1S 7/29/2012 ug/L	MW-1S 10/16/2013 ug/L	MW-1S 4/22/2015 ug/L
Analyte									
PCB-1016	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.49 U	0.48 U	0.47 U
PCB-1221	-	1.1 U	1.1 U	0.52 U	0.53 U	0.5 U	0.49 U	0.48 U	0.47 U
PCB-1232	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.49 U	0.48 U	0.47 U
PCB-1242	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.49 U	0.48 U	0.47 U
PCB-1248	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.49 U	0.48 U	0.47 U
PCB-1254	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.49 U	0.48 U	0.47 U
PCB-1260	-	0.54 U	0.53 U	0.52 U	0.53 U	0.5 U	0.49 U	0.48 U	0.47 U
Total PCBs	0.09	-	-	-	-	-	-	-	-

Notes:

- Concentration exceeds corresponding
NYSDEC Class GA Standard

1 - DUP collected from MW-1D

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

NS - No sample. Container damaged.

Table 4-2
Summary of Groundwater Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class GA Standards	MW-1D 8/7/2007 ug/L	MW-1D 10/1/2008 ug/L	MW-1D 6/18/2009 ug/L	MW-1D 3/24/2010 ug/L	MW-1D 6/22/2011 ug/L	MW-1D 7/29/2012 ug/L	MW-1D 10/16/2013 ug/L	MW-1D 4/22/2015 ug/L	DUP-1 ⁽¹⁾ 4/22/2015 ug/L
Analyte										
PCB-1016	-	0.54 U	0.52 U	0.5 U	0.5 U	0.5 U	0.49 U	0.48 U	0.48 U	0.48 U
PCB-1221	-	1.1 U	1.0 U	0.5 U	0.5 U	0.5 U	0.49 U	0.48 U	0.48 U	0.48 U
PCB-1232	-	0.54 U	0.52 U	0.5 U	0.5 U	0.5 U	0.49 U	0.48 U	0.48 U	0.48 U
PCB-1242	-	0.54 U	0.52 U	0.5 U	0.5 U	0.5 U	0.49 U	0.48 U	0.48 U	0.48 U
PCB-1248	-	0.54 U	0.52 U	0.5 U	0.5 U	0.5 U	0.49 U	0.48 U	0.48 U	0.48 U
PCB-1254	-	0.54 U	0.52 U	0.5 U	0.5 U	0.5 U	0.49 U	0.48 U	0.48 U	0.48 U
PCB-1260	-	0.54 U	0.52 U	0.5 U	0.5 U	0.5 U	0.49 U	0.48 U	0.48 U	0.48 U
Total PCBs	0.09	-	-	-	-	-	-	-	-	-

Notes:

- Concentration exceeds corresponding
NYSDEC Class GA Standard

1 - DUP collected from MW-1D

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

NS - No sample. Container damaged.

Table 4-2
Summary of Groundwater Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class GA Standards	MW-2S 8/7/2007 ug/L	MW-2S 10/2/2008 ug/L	MW-2S 6/18/2009 ug/L	MW-2S 3/24/2010 ug/L	MW-2S 6/22/2011 ug/L	MW-2S 7/29/2012 ug/L	MW-2S 10/16/2013 ug/L	MW-2S 4/22/2015 ug/L
Analyte									
PCB-1016	-	0.56 U	0.54 U	0.5 U	NS	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1221	-	1.1 U	1.1 U	0.5 U	NS	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1232	-	0.56 U	0.54 U	0.5 U	NS	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1242	-	0.56 U	0.54 U	0.5 U	NS	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1248	-	0.56 U	0.54 U	0.5 U	NS	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1254	-	0.56 U	0.54 U	0.5 U	NS	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1260	-	0.56 U	0.54 U	0.5 U	NS	0.5 U	0.47 U	0.49 U	0.48 U
Total PCBs	0.09	-	-	-	-	-	-	-	-

Notes:

 - Concentration exceeds corresponding
NYSDEC Class GA Standard

1 - DUP collected from MW-1D

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

NS - No sample. Container damaged.

Table 4-2
Summary of Groundwater Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class GA Standards	MW-2D 8/7/2007 ug/L	MW-2D 10/1/2008 ug/L	MW-2D 6/18/2009 ug/L	MW-2D 3/24/2010 ug/L	MW-2D 6/25/2011 ug/L	MW-2D 7/29/2012 ug/L	MW-2D 10/16/2013 ug/L	MW-2D 4/22/2015 ug/L
Analyte									
PCB-1016	-	0.56 U	0.55 U	0.5 U	0.53 U	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1221	-	1.1 U	1.1 U	0.5 U	0.53 U	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1232	-	0.56 U	0.55 U	0.5 U	0.53 U	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1242	-	0.56 U	0.55 U	0.5 U	0.53 U	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1248	-	0.56 U	0.55 U	0.5 U	0.53 U	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1254	-	0.56 U	0.55 U	0.5 U	0.53 U	0.5 U	0.47 U	0.49 U	0.48 U
PCB-1260	-	0.56 U	0.55 U	0.5 U	0.53 U	0.5 U	0.47 U	0.49 U	0.48 U
Total PCBs	0.09	-	-	-	-	-	-	-	-

Notes:

- Concentration exceeds corresponding
NYSDEC Class GA Standard

1 - DUP collected from MW-1D

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

NS - No sample. Container damaged.

Table 4-2
Summary of Groundwater Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class GA Standards	MW-3S 8/8/2007 ug/L	MW-3S 10/2/2008 ug/L	MW-3S 6/19/2009 ug/L	MW-3S 3/25/2010 ug/L	MW-3S 6/23/2011 ug/L	MW-3S 8/1/2012 ug/L	MW-3S 10/16/2013 ug/L	MW-3S 4/23/2015 ug/L
Analyte									
PCB-1016	-	0.50 U	0.53 U	0.5 U	0.5 U	0.63 U	0.91 U	0.5 U	0.48 U
PCB-1221	-	1.0 U	1.1 U	0.5 U	0.5 U	0.63 U	0.91 U	0.5 U	0.48 U
PCB-1232	-	0.50 U	0.53 U	0.5 U	0.5 U	0.63 U	0.91 U	0.5 U	0.48 U
PCB-1242	-	0.50 U	0.53 U	0.5 U	0.5 U	0.63 U	0.91 U	0.5 U	0.48 U
PCB-1248	-	0.40 J M	0.53 U	0.5 U	0.5 U	0.63 U	0.91 U	0.5 U	0.48 U
PCB-1254	-	0.50 U	0.53 U	0.5 U	0.5 U	0.63 U	0.91 U	0.5 U	0.48 U
PCB-1260	-	0.19 JMB	0.53 U	0.5 U	0.5 U	0.63 U	0.91 U	0.5 U	0.48 U
Total PCBs	0.09	0.59	-	-	-	-	-	-	-

Notes:

- Concentration exceeds corresponding
NYSDEC Class GA Standard

1 - DUP collected from MW-1D

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

NS - No sample. Container damaged.

Table 4-2
Summary of Groundwater Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class GA Standards	MW-3D 8/8/2007 ug/L	MW-3D 10/2/2008 ug/L	MW-3D 6/19/2009 ug/L	MW-3D 3/25/2010 ug/L	MW-3D 6/23/2011 ug/L	MW-3D 8/1/2012 ug/L	MW-3D 10/16/2013 ug/L	MW-3D 4/23/2015 ug/L
Analyte									
PCB-1016	-	0.5 U	0.93 U	0.54 U	0.54 U	0.5 U	1.2 U	0.77 U	0.73 U
PCB-1221	-	1.0 U	1.9 U	0.54 U	0.54 U	0.5 U	1.2 U	0.77 U	0.73 U
PCB-1232	-	0.5 U	0.93 U	0.54 U	0.54 U	0.5 U	1.2 U	0.77 U	0.73 U
PCB-1242	-	0.5 U	0.93 U	0.54 U	0.54 U	0.5 U	1.2 U	0.77 U	0.73 U
PCB-1248	-	0.5 U	0.93 U	0.54 U	0.54 U	0.5 U	1.2 U	0.77 U	0.73 U
PCB-1254	-	0.5 U	0.93 U	0.54 U	0.54 U	0.5 U	1.2 U	0.77 U	0.73 U
PCB-1260	-	0.5 U	0.93 U	0.54 U	0.54 U	0.5 U	1.2 U	0.77 U	0.73 U
Total PCBs	0.09	-	-	-	-	-	-	-	-

Notes:

 - Concentration exceeds corresponding
NYSDEC Class GA Standard

1 - DUP collected from MW-1D

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

NS - No sample. Container damaged.

Table 4-2
Summary of Groundwater Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class GA Standards	MW-4S 8/7/2007 ug/L	MW-4S 10/1/2008 ug/L	MW-4S 6/18/2009 ug/L	MW-4S 3/24/2010 ug/L	MW-4S 6/22/2011 ug/L	MW-4S 8/1/2012 ug/L	MW-4S 10/16/2013 ug/L	MW-4S 4/23/2015 ug/L
Analyte									
PCB-1016	-	0.56 U	0.54 U	0.5 U	0.54 U	0.5 U	0.47 U	0.49 U	0.49 U
PCB-1221	-	1.1 U	1.1 U	0.5 U	0.54 U	0.5 U	0.47 U	0.49 U	0.49 U
PCB-1232	-	0.56 U	0.54 U	0.5 U	0.54 U	0.5 U	0.47 U	0.49 U	0.49 U
PCB-1242	-	0.56 U	0.54 U	0.5 U	0.54 U	0.5 U	0.47 U	0.49 U	0.49 U
PCB-1248	-	0.56 U	0.54 U	0.5 U	0.54 U	0.5 U	0.47 U	0.49 U	0.49 U
PCB-1254	-	0.56 U	0.54 U	0.5 U	0.54 U	0.5 U	0.47 U	0.49 U	0.49 U
PCB-1260	-	0.56 U	0.54 U	0.5 U	0.54 U	0.5 U	0.47 U	0.49 U	0.49 U
Total PCBs	0.09	-	-	-	-	-	-	-	-

Notes:

- Concentration exceeds corresponding
NYSDEC Class GA Standard

1 - DUP collected from MW-1D

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

NS - No sample. Container damaged.

Table 4-2
Summary of Groundwater Sampling Results - PCBs
Columbia Mills
Minetto, New York
NYSDEC Site No. 7-38-012

Sample Date Units	NYSDEC Class GA Standards	MW-4D 8/7/2007 ug/L	MW-4D 10/1/2008 ug/L	MW-4D 6/18/2009 ug/L	MW-4D 3/24/2010 ug/L	MW-4D 6/22/2011 ug/L	MW-4D 7/30/2012 ug/L	MW-4D 10/16/2013 ug/L	MW-4D 4/23/2015 ug/L
Analyte									
PCB-1016	-	0.61 U	0.52 U	0.5 U	0.52 U	0.5 U	0.47 U	0.48 U	0.47 U
PCB-1221	-	1.2 U	1.0 U	0.5 U	0.52 U	0.5 U	0.47 U	0.48 U	0.47 U
PCB-1232	-	0.61 U	0.52 U	0.5 U	0.52 U	0.5 U	0.47 U	0.48 U	0.47 U
PCB-1242	-	0.61 U	0.52 U	0.5 U	0.52 U	0.5 U	0.47 U	0.48 U	0.47 U
PCB-1248	-	0.61 U	0.52 U	0.5 U	0.52 U	0.5 U	0.47 U	0.48 U	0.47 U
PCB-1254	-	0.61 U	0.52 U	0.5 U	0.52 U	0.5 U	0.47 U	0.48 U	0.47 U
PCB-1260	-	0.61 U	0.52 U	0.5 U	0.52 U	0.5 U	0.47 U	0.48 U	0.47 U
Total PCBs	0.09	-	-	-	-	-	-	-	-

Notes:

- Concentration exceeds corresponding
NYSDEC Class GA Standard

1 - DUP collected from MW-1D

U - Analyte not detected

J - Estimated value

M - Manual integrated compound

B - Analyte was detected in Method Blank.

NS - No sample. Container damaged.

FIGURES



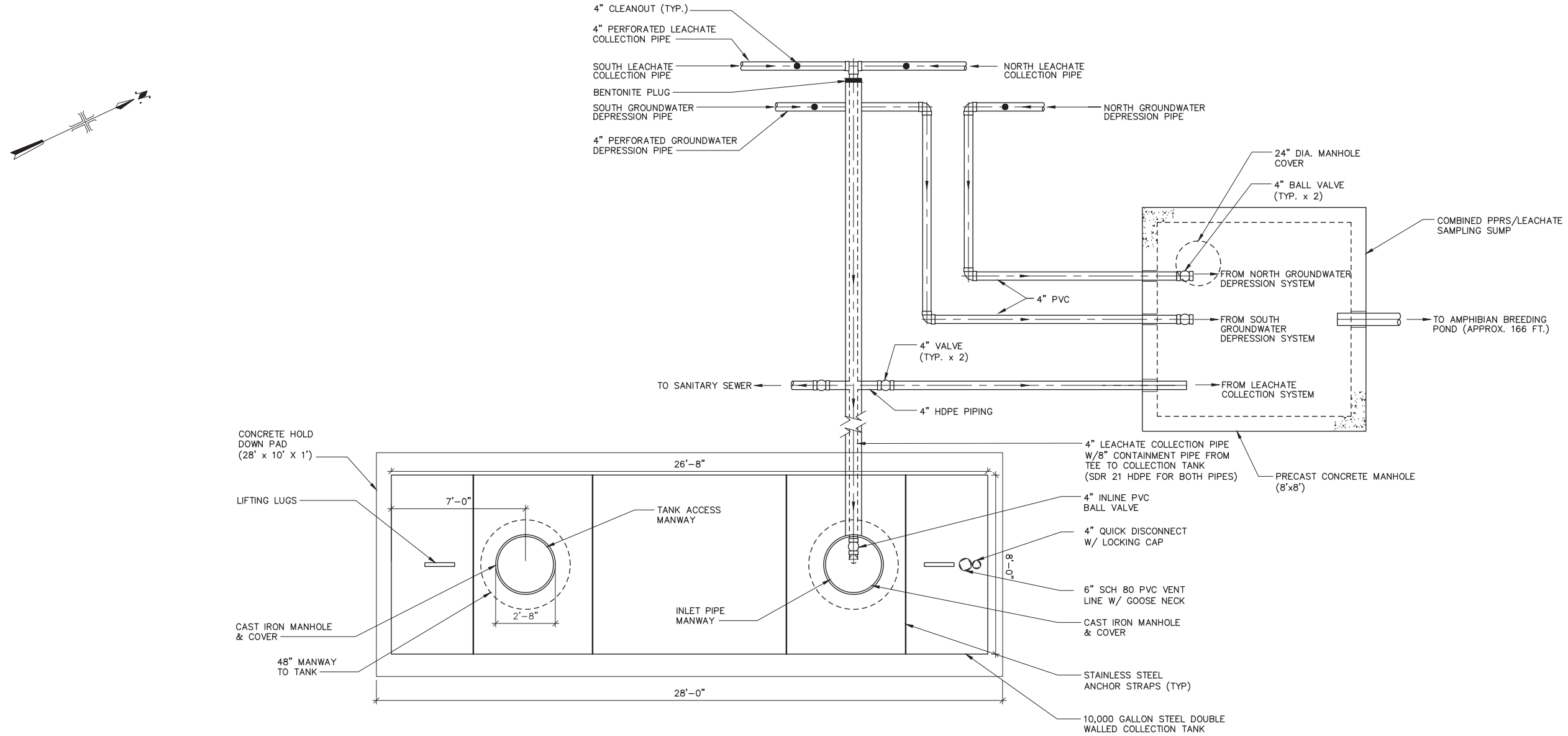
Figure 2-1 Site Location

Columbia Mills Site
NYSDEC Site 7-38-012



0  2,000 ft

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User: Lewandowski Spec: PIRNIE STANDARD File: \\ACAD\\PROJ\\0266\\363\\Figures\\FIGURE 2-2 2009 REPORT.DWG Scale: 1:1 Date: 09/23/2011 Time: 13:28 Layout: Layout1



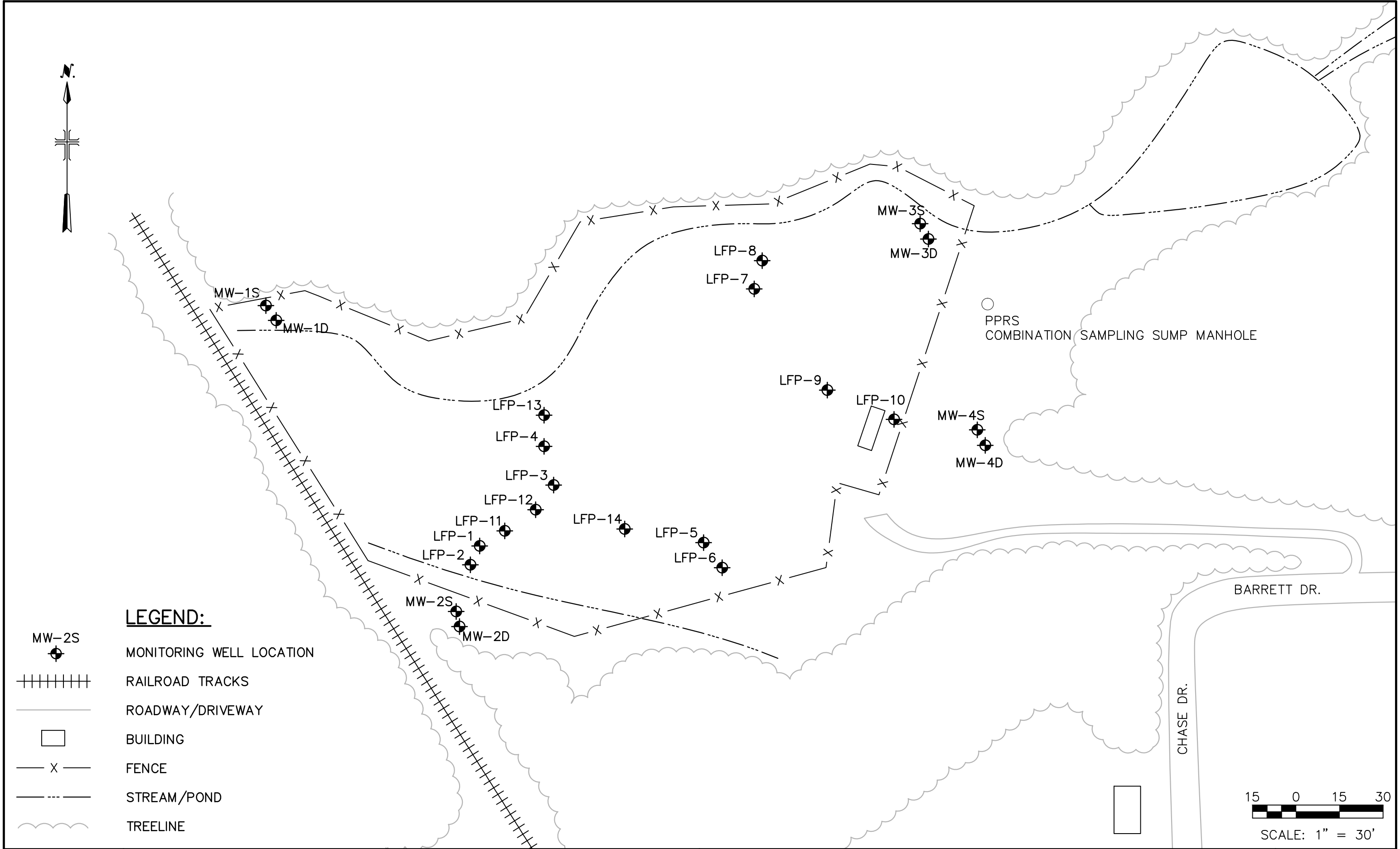
LEACHATE COLLECTION
TANK PIPING
PLAN VIEW

SCALE: 3/16" = 1'-0"

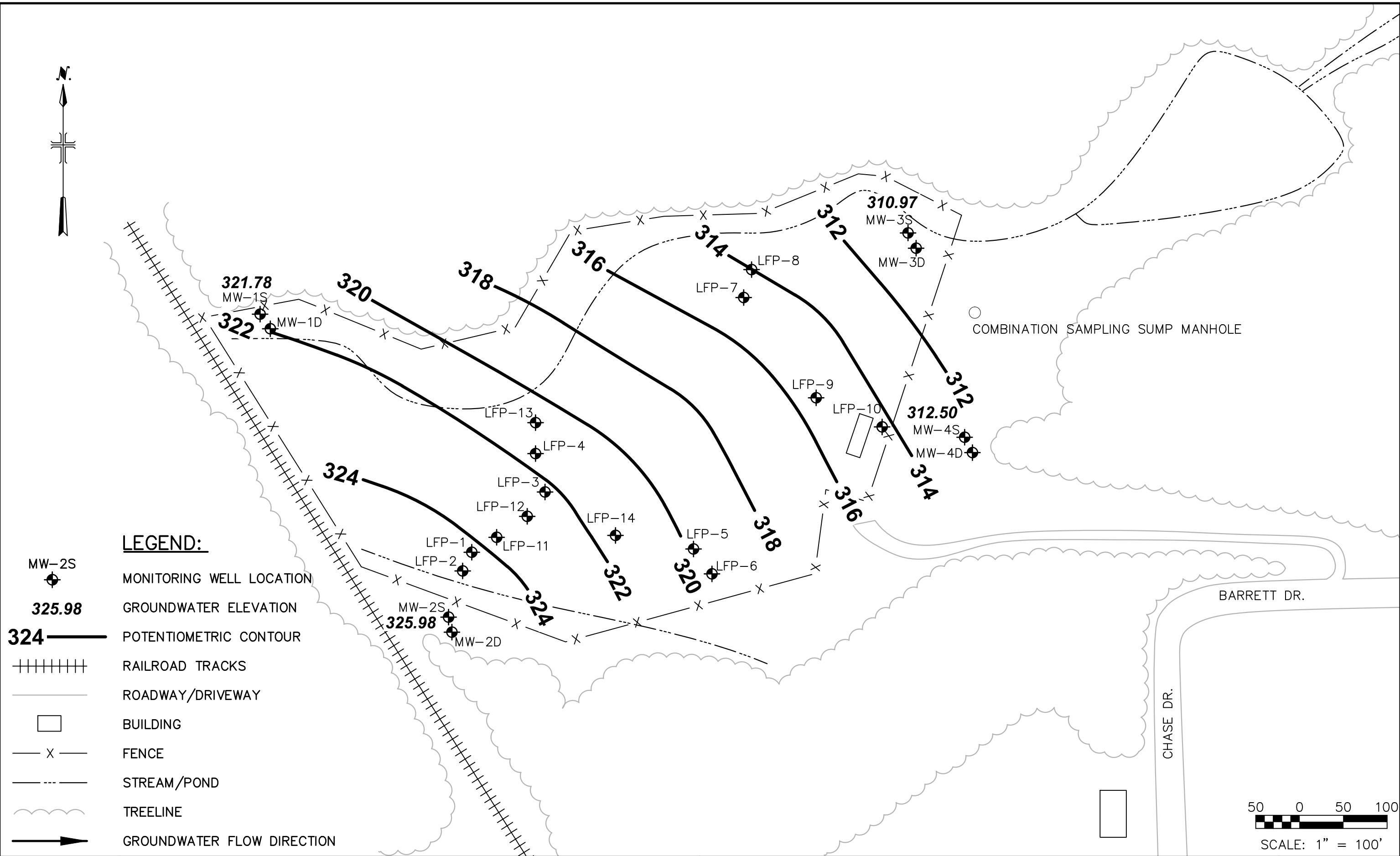
SOURCE: MALCOLM PIRNIE REMEDIAL LANDFILL DESIGN DRAWINGS (MARCH 1995) AND 2009 MALCOM PIRNIE DYE TESTING AT THE SITE.



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User: Lewandowski Spec: PIRNIE STANDARD File: I: \ACAD\PROJ\0266\363\Figures\FIGURE 4-1.DWG Scale: 1:1 Date: 09/08/2011 Time: 11:08 Layout: Layout1

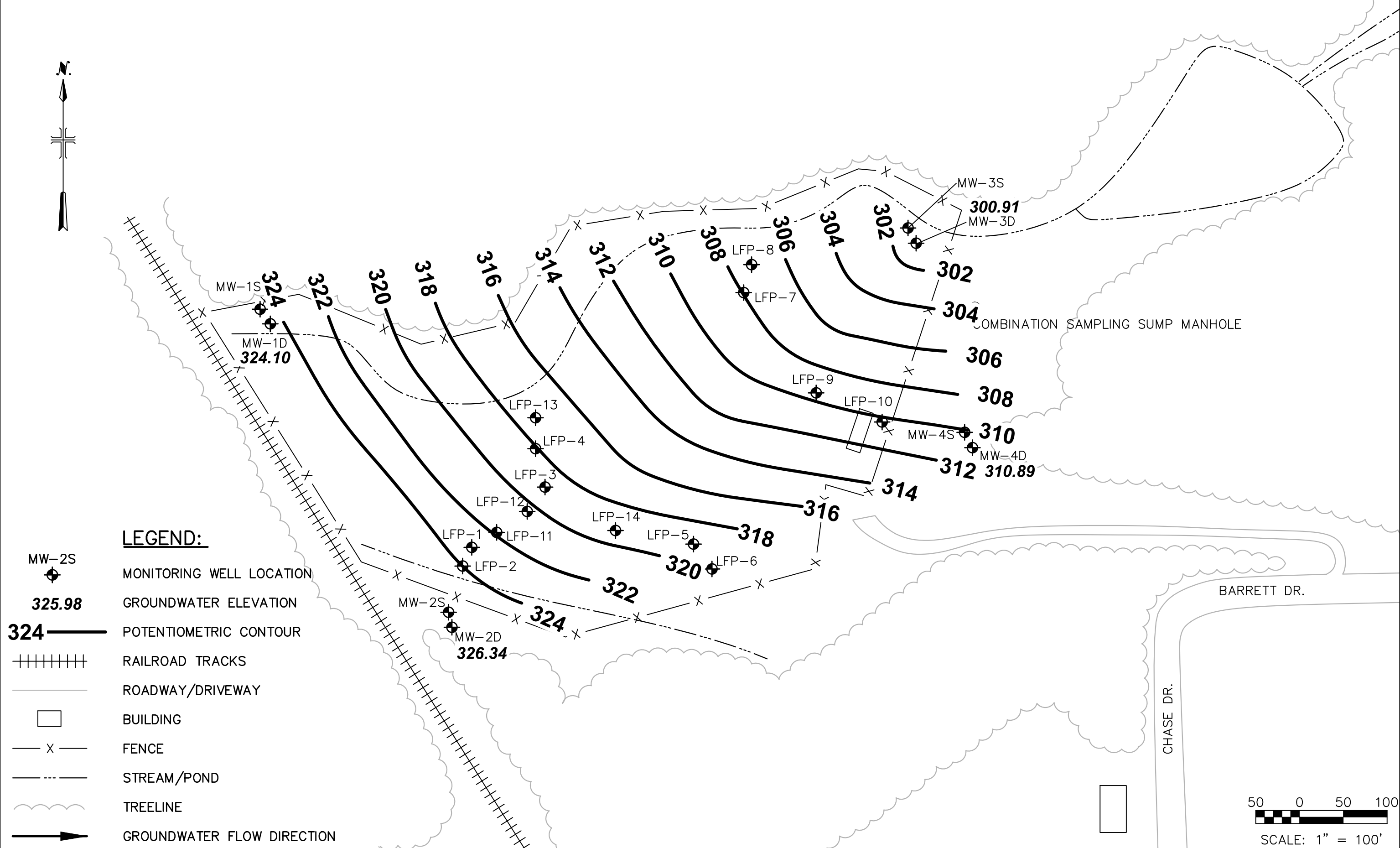


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- LEGEND:**
- MW-2S
325.98
324 — MONITORING WELL LOCATION
GROUNDWATER ELEVATION
POTENTIOMETRIC CONTOUR
 - +++++ RAILROAD TRACKS
 - ROADWAY/DRIVEWAY
 - BUILDING
 - X — FENCE
 - - - - - STREAM/POND
 - ~~~~~ TREELINE
 - GROUNDWATER FLOW DIRECTION

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APPENDIX A

Site Photographs



Appendix A
Site Photographs

Columbia Mills Site
NYSDEC Site #7-38-012
Minetto, New York



Site facing east
4/23/15



Site facing north
4/23/15

Appendix A Site Photographs

Columbia Mills Site
NYSDEC Site #7-38-012
Minetto, New York



Site facing south
4/23/15



Site facing west
4/23/15

Appendix A Site Photographs

Columbia Mills Site
NYSDEC Site #7-38-012
Minetto, New York



ABP Discharge
Structure (blocked)
4/23/15



ABP Discharge
Structure (cleaned)
4/23/15

Appendix A Site Photographs

Columbia Mills Site
NYSDEC Site #7-38-012
Minetto, New York



Damaged Fence
4/23/15



Repaired Fence
7/13/15

Appendix A Site Photographs

Columbia Mills Site
NYSDEC Site #7-38-012
Minetto, New York



Damaged Riser
(MW-1D)
7/13/15



Repaired Well
(MW-1D)
8/13/15

APPENDIX B

Analytical Reporting Forms

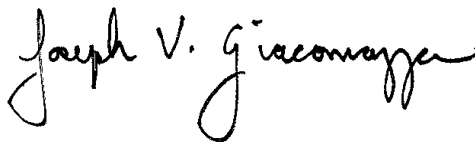


ANALYTICAL REPORT

Job Number: 480-79126-1

Job Description: NYSDEC-Standby COLUMBIA MILLS

For:
ARCADIS U.S. Inc
855 Route 146
Suite 210
Clifton Park, NY 12065
Attention: Jeremy Wyckoff



Approved for release.
Joe V Giacomazza
Project Management Assistant II
4/29/2015 3:23 PM

Designee for
Judy L Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
judy.stone@testamericainc.com
04/29/2015

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

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Job Narrative
480-79126-1

Receipt

The samples were received on 4/24/2015 9:00 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperature of the cooler at receipt was 2.7° C.

GC Semi VOA

Method(s) 8082A: All primary data for analytical batch 238818 is reported from the ZB-35 column.

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

Organic Prep

Method(s) 3510C: Elevated reporting limits are provided for the following samples due to insufficient sample provided for preparation: MW-3D (480-79126-6).

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

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 228096Lab Sample ID: STD3 480-228096/5 IC Client Sample ID: _____Date Analyzed: 02/24/15 16:32 Lab File ID: 7_363_224.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.73	Split Peak	larsonj	02/25/15 16:12
PCB-1260 Peak 2	4.80	Split Peak	larsonj	02/25/15 16:12
PCB-1260 Peak 3	4.87	Split Peak	larsonj	02/25/15 16:12
PCB-1260 Peak 4	5.20	Split Peak	larsonj	02/25/15 16:12

Lab Sample ID: STD2 480-228096/6 IC Client Sample ID: _____Date Analyzed: 02/24/15 16:47 Lab File ID: 7_363_225.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	1.87	Unspecified		
PCB-1260 Peak 1	4.74	Incomplete Integration	sobolk	02/26/15 11:32
PCB-1260 Peak 2	4.93	Incomplete Integration	sobolk	02/26/15 11:32
PCB-1260 Peak 3	5.13	Incomplete Integration	sobolk	02/26/15 11:32
PCB-1260 Peak 4	5.37	Incomplete Integration	sobolk	02/26/15 11:32

Lab Sample ID: STD2 480-228096/6 IC Client Sample ID: _____Date Analyzed: 02/24/15 16:47 Lab File ID: 7_363_225.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.48	Split Peak	larsonj	02/25/15 16:11
PCB-1016 Peak 2	2.58	Split Peak	larsonj	02/25/15 16:11
PCB-1016 Peak 3	2.78	Split Peak	larsonj	02/25/15 16:11
PCB-1016 Peak 4	3.06	Split Peak	larsonj	02/25/15 16:11
PCB-1260 Peak 1	4.73	Split Peak	larsonj	02/25/15 16:11
PCB-1260 Peak 2	4.80	Split Peak	larsonj	02/25/15 16:11
PCB-1260 Peak 3	4.87	Split Peak	larsonj	02/25/15 16:11
PCB-1260 Peak 4	5.21	Split Peak	larsonj	02/25/15 16:11

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 228096Lab Sample ID: STD1 480-228096/7 IC Client Sample ID: _____Date Analyzed: 02/24/15 17:03 Lab File ID: 7_363_226.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1260 Peak 1	4.74	Baseline Smoothing	larsonj	02/25/15 16:57
PCB-1260 Peak 2	4.93	Baseline Smoothing	larsonj	02/25/15 16:57
PCB-1260 Peak 3	5.13	Baseline Smoothing	larsonj	02/25/15 16:57
PCB-1260 Peak 4	5.37	Baseline Smoothing	larsonj	02/25/15 16:57

Lab Sample ID: STD3 480-228096/13 IC Client Sample ID: _____Date Analyzed: 02/24/15 18:38 Lab File ID: 7_363_232.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	2.12	Baseline Smoothing	larsonj	02/25/15 17:01
PCB-1232 Peak 2	2.57	Baseline Smoothing	larsonj	02/25/15 14:49
PCB-1232 Peak 3	2.77	Baseline Smoothing	larsonj	02/25/15 14:49
PCB-1232 Peak 4	2.86	Baseline Smoothing	larsonj	02/25/15 14:49
PCB-1262 Peak 1	4.74	Baseline Smoothing	larsonj	02/25/15 14:49
PCB-1262 Peak 2	5.13	Baseline Smoothing	larsonj	02/25/15 14:49
PCB-1262 Peak 3	5.43	Baseline Smoothing	larsonj	02/25/15 14:49
PCB-1262 Peak 4	5.47	Baseline Smoothing	larsonj	02/25/15 14:49

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 228096Lab Sample ID: STD3 480-228096/13 IC Client Sample ID: _____Date Analyzed: 02/24/15 18:38 Lab File ID: 7_363_232.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	1.96	Split Peak	larsonj	02/25/15 14:55
PCB-1232 Peak 2	2.28	Split Peak	larsonj	02/25/15 14:55
PCB-1232 Peak 3	2.58	Split Peak	larsonj	02/25/15 14:55
PCB-1232 Peak 4	2.69	Split Peak	larsonj	02/25/15 14:55
PCB-1262 Peak 1	4.47	Split Peak	larsonj	02/25/15 14:49
PCB-1262 Peak 2	4.73	Split Peak	larsonj	02/25/15 14:49
PCB-1262 Peak 3	4.87	Split Peak	larsonj	02/25/15 14:49
PCB-1262 Peak 4	5.17	Split Peak	larsonj	02/25/15 14:49

Lab Sample ID: STD2 480-228096/14 IC Client Sample ID: _____Date Analyzed: 02/24/15 18:54 Lab File ID: 7_363_233.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 3	2.77	Baseline Smoothing	larsonj	02/25/15 14:47
PCB-1232 Peak 4	2.86	Baseline Smoothing	larsonj	02/25/15 14:47
PCB-1262 Peak 1	4.74	Baseline Smoothing	larsonj	02/25/15 14:47
PCB-1262 Peak 2	5.13	Baseline Smoothing	larsonj	02/25/15 14:47
PCB-1262 Peak 3	5.43	Baseline Smoothing	larsonj	02/25/15 14:47
PCB-1262 Peak 4	5.47	Baseline Smoothing	larsonj	02/25/15 14:47

Lab Sample ID: STD2 480-228096/14 IC Client Sample ID: _____Date Analyzed: 02/24/15 18:54 Lab File ID: 7_363_233.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1262 Peak 1	4.47	Split Peak	larsonj	02/25/15 14:48
PCB-1262 Peak 2	4.73	Split Peak	larsonj	02/25/15 14:48
PCB-1262 Peak 3	4.87	Split Peak	larsonj	02/25/15 14:48
PCB-1262 Peak 4	5.17	Split Peak	larsonj	02/25/15 14:48

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 228096Lab Sample ID: STD1 480-228096/15 IC Client Sample ID: _____Date Analyzed: 02/24/15 19:10 Lab File ID: 7_363_234.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1232 Peak 1	1.96	Split Peak	larsonj	02/25/15 14:55
PCB-1232 Peak 3	2.58	Incomplete Integration	larsonj	02/25/15 14:50
PCB-1262 Peak 1	4.47	Split Peak	larsonj	02/25/15 14:48
PCB-1262 Peak 2	4.73	Split Peak	larsonj	02/25/15 14:48
PCB-1262 Peak 3	4.87	Split Peak	larsonj	02/25/15 14:48
PCB-1262 Peak 4	5.17	Split Peak	larsonj	02/25/15 14:48

Lab Sample ID: STD1 480-228096/19 IC Client Sample ID: _____Date Analyzed: 02/24/15 20:14 Lab File ID: 7_363_238.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1242 Peak 1	2.58	Baseline Smoothing	larsonj	02/25/15 14:56
PCB-1242 Peak 2	2.69	Baseline Smoothing	larsonj	02/25/15 14:56
PCB-1242 Peak 3	3.06	Baseline Smoothing	larsonj	02/25/15 14:56
PCB-1242 Peak 4	3.35	Baseline Smoothing	larsonj	02/25/15 14:56

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 235369Lab Sample ID: STD5 480-235369/3 IC Client Sample ID: _____Date Analyzed: 04/10/15 11:18 Lab File ID: 7_367_217.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	1.81	Incomplete Integration	sobolk	04/10/15 11:52

Lab Sample ID: STD3 480-235369/5 IC Client Sample ID: _____Date Analyzed: 04/10/15 11:50 Lab File ID: 7_367_219.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	1.81	Incomplete Integration	sobolk	04/10/15 12:17

Lab Sample ID: STD3 480-235369/5 IC Client Sample ID: _____Date Analyzed: 04/10/15 11:50 Lab File ID: 7_367_219.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	1.53	Incomplete Integration	sobolk	04/10/15 12:17
DCB Decachlorobiphenyl	6.14	Incomplete Integration	sobolk	04/10/15 12:17

Lab Sample ID: STD2 480-235369/6 IC Client Sample ID: _____Date Analyzed: 04/10/15 12:06 Lab File ID: 7_367_220.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
DCB Decachlorobiphenyl	6.14	Incomplete Integration	sobolk	04/10/15 12:41

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 238818Lab Sample ID: CCV 480-238818/4 Client Sample ID: _____Date Analyzed: 04/27/15 10:35 Lab File ID: 7_369_132.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.42	Split Peak	sobolk	04/27/15 10:51
PCB-1016 Peak 2	2.53	Split Peak	sobolk	04/27/15 10:51
PCB-1016 Peak 3	2.73	Split Peak	sobolk	04/27/15 10:51
PCB-1016 Peak 4	3.00	Split Peak	sobolk	04/27/15 10:51
PCB-1260 Peak 1	4.67	Baseline Smoothing	sobolk	04/27/15 10:51
PCB-1260 Peak 2	4.74	Baseline Smoothing	sobolk	04/27/15 10:51
PCB-1260 Peak 3	4.81	Baseline Smoothing	sobolk	04/27/15 10:51
PCB-1260 Peak 4	5.14	Baseline Smoothing	sobolk	04/27/15 10:51

Lab Sample ID: LCS 480-238627/2-A Client Sample ID: _____Date Analyzed: 04/27/15 11:22 Lab File ID: 7_369_135.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	1.82	Baseline Smoothing	sobolk	04/27/15 12:06
PCB-1016 Peak 1	2.71	Baseline Smoothing	sobolk	04/27/15 12:06
PCB-1016 Peak 2	2.80	Baseline Smoothing	sobolk	04/27/15 12:06
PCB-1016 Peak 3	2.86	Baseline Smoothing	sobolk	04/27/15 12:06
PCB-1016 Peak 4	3.24	Baseline Smoothing	sobolk	04/27/15 12:06

Lab Sample ID: LCS 480-238627/2-A Client Sample ID: _____Date Analyzed: 04/27/15 11:22 Lab File ID: 7_369_135.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.42	Split Peak	sobolk	04/27/15 12:06
PCB-1016 Peak 2	2.53	Split Peak	sobolk	04/27/15 12:06
PCB-1016 Peak 3	2.73	Split Peak	sobolk	04/27/15 12:06
PCB-1016 Peak 4	3.00	Split Peak	sobolk	04/27/15 12:06

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 238818Lab Sample ID: 480-79126-1 MS Client Sample ID: MW-1S MSDate Analyzed: 04/27/15 12:10 Lab File ID: 7_369_138.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
Tetrachloro-m-xylene	1.54	Baseline Smoothing	sobolk	04/27/15 17:12
PCB-1016 Peak 1	2.42	Split Peak	sobolk	04/27/15 17:12
PCB-1016 Peak 2	2.53	Baseline Smoothing	sobolk	04/27/15 17:12
PCB-1016 Peak 3	2.73	Baseline Smoothing	sobolk	04/27/15 17:12
PCB-1016 Peak 4	3.00	Baseline Smoothing	sobolk	04/27/15 17:12
PCB-1260 Peak 1	4.67	Baseline Smoothing	sobolk	04/27/15 17:12
PCB-1260 Peak 2	4.74	Baseline Smoothing	sobolk	04/27/15 17:12
PCB-1260 Peak 3	4.81	Baseline Smoothing	sobolk	04/27/15 17:12
PCB-1260 Peak 4	5.14	Baseline Smoothing	sobolk	04/27/15 17:12

Lab Sample ID: 480-79126-1 MSD Client Sample ID: MW-1S MSDDate Analyzed: 04/27/15 12:26 Lab File ID: 7_369_139.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.72	Baseline Smoothing	sobolk	04/27/15 17:13
PCB-1016 Peak 2	2.80	Baseline Smoothing	sobolk	04/27/15 17:13
PCB-1016 Peak 3	2.86	Baseline Smoothing	sobolk	04/27/15 17:13
PCB-1016 Peak 4	3.24	Baseline Smoothing	sobolk	04/27/15 17:13
PCB-1260 Peak 1	4.67	Baseline Smoothing	sobolk	04/27/15 17:13
PCB-1260 Peak 2	4.86	Baseline Smoothing	sobolk	04/27/15 17:13
PCB-1260 Peak 3	5.06	Baseline Smoothing	sobolk	04/27/15 17:13
PCB-1260 Peak 4	5.30	Baseline Smoothing	sobolk	04/27/15 17:13

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 238818Lab Sample ID: 480-79126-1 MSD Client Sample ID: MW-1S MSDDate Analyzed: 04/27/15 12:26 Lab File ID: 7_369_139.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.42	Split Peak	sobolk	04/27/15 17:13
PCB-1016 Peak 2	2.53	Split Peak	sobolk	04/27/15 17:13
PCB-1016 Peak 3	2.73	Split Peak	sobolk	04/27/15 17:13
PCB-1016 Peak 4	3.00	Split Peak	sobolk	04/27/15 17:13

Lab Sample ID: CCV 480-238818/16 Client Sample ID: _____Date Analyzed: 04/27/15 13:45 Lab File ID: 7_369_144.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.42	Split Peak	sobolk	04/27/15 14:09
PCB-1016 Peak 2	2.53	Split Peak	sobolk	04/27/15 14:09
PCB-1016 Peak 3	2.73	Split Peak	sobolk	04/27/15 14:09
PCB-1016 Peak 4	3.00	Split Peak	sobolk	04/27/15 14:09

Lab Sample ID: CCV 480-238818/28 Client Sample ID: _____Date Analyzed: 04/27/15 16:55 Lab File ID: 7_369_156.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.42	Split Peak	sobolk	04/27/15 17:10
PCB-1016 Peak 2	2.53	Split Peak	sobolk	04/27/15 17:10
PCB-1016 Peak 3	2.73	Split Peak	sobolk	04/27/15 17:10
PCB-1016 Peak 4	3.00	Split Peak	sobolk	04/27/15 17:10
PCB-1260 Peak 1	4.67	Baseline Smoothing	sobolk	04/27/15 17:10
PCB-1260 Peak 2	4.74	Baseline Smoothing	sobolk	04/27/15 17:10
PCB-1260 Peak 3	4.81	Baseline Smoothing	sobolk	04/27/15 17:10
PCB-1260 Peak 4	5.14	Baseline Smoothing	sobolk	04/27/15 17:10

PCBS MANUAL INTEGRATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Analysis Batch Number: 238818Lab Sample ID: CCV 480-238818/36 Client Sample ID: _____Date Analyzed: 04/27/15 19:02 Lab File ID: 7_369_164.D GC Column: ZB-5 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.71	Baseline Smoothing	sobolk	04/28/15 08:34
PCB-1016 Peak 2	2.80	Baseline Smoothing	sobolk	04/28/15 08:34
PCB-1016 Peak 3	2.86	Baseline Smoothing	sobolk	04/28/15 08:34
PCB-1016 Peak 4	3.24	Baseline Smoothing	sobolk	04/28/15 08:34
PCB-1260 Peak 1	4.67	Baseline Smoothing	sobolk	04/28/15 08:34
PCB-1260 Peak 2	4.86	Baseline Smoothing	sobolk	04/28/15 08:34
PCB-1260 Peak 3	5.06	Baseline Smoothing	sobolk	04/28/15 08:34
PCB-1260 Peak 4	5.30	Baseline Smoothing	sobolk	04/28/15 08:34

Lab Sample ID: CCV 480-238818/36 Client Sample ID: _____Date Analyzed: 04/27/15 19:02 Lab File ID: 7_369_164.D GC Column: ZB-35 ID: 0.53 (mm)

COMPOUND NAME	RETENTION TIME	MANUAL INTEGRATION		
		REASON	ANALYST	DATE
PCB-1016 Peak 1	2.42	Split Peak	sobolk	04/28/15 08:34
PCB-1016 Peak 2	2.53	Split Peak	sobolk	04/28/15 08:34
PCB-1016 Peak 3	2.73	Split Peak	sobolk	04/28/15 08:34
PCB-1016 Peak 4	3.00	Split Peak	sobolk	04/28/15 08:34

SAMPLE SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Lab Sample ID	Client Sample ID	Client Matrix	Date/Time Sampled	Date/Time Received
480-79126-1	MW-1S	Water	04/22/2015 1340	04/24/2015 0900
480-79126-1MS	MW-1S	Water	04/22/2015 1340	04/24/2015 0900
480-79126-1MSD	MW-1S	Water	04/22/2015 1340	04/24/2015 0900
480-79126-2	MW-1D	Water	04/22/2015 1340	04/24/2015 0900
480-79126-3	MW-2S	Water	04/22/2015 1445	04/24/2015 0900
480-79126-4	MW-2D	Water	04/22/2015 1510	04/24/2015 0900
480-79126-5	MW-3S	Water	04/23/2015 0740	04/24/2015 0900
480-79126-6	MW-3D	Water	04/23/2015 0745	04/24/2015 0900
480-79126-7	MW-4S	Water	04/23/2015 0730	04/24/2015 0900
480-79126-8	MW-4D	Water	04/22/2015 1130	04/24/2015 0900
480-79126-9	DUP-1	Water	04/22/2015 0000	04/24/2015 0900
480-79126-10	NPPRS	Water	04/23/2015 0815	04/24/2015 0900
480-79126-11	SPPRS	Water	04/23/2015 0825	04/24/2015 0900
480-79126-12	LEACHATE	Water	04/23/2015 0820	04/24/2015 0900

EXECUTIVE SUMMARY - Detections

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Lab Sample ID Analyte	Client Sample ID	Result	Qualifier	Reporting Limit	Units	Method

No Detections

METHOD SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Description	Lab Location	Method	Preparation Method
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:

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

METHOD / ANALYST SUMMARY

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Method	Analyst	Analyst ID
SW846 8082A	Sobol, Kevin	KS

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: MW-1S

Lab Sample ID: 480-79126-1

Date Sampled: 04/22/2015 1340

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	264.5 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1520			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.47	U	0.17	0.47
PCB-1221	0.47	U	0.17	0.47
PCB-1232	0.47	U	0.17	0.47
PCB-1242	0.47	U	0.17	0.47
PCB-1248	0.47	U	0.17	0.47
PCB-1254	0.47	U	0.24	0.47
PCB-1260	0.47	U	0.24	0.47

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	46		19 - 125
Tetrachloro-m-xylene	80		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: MW-1D

Lab Sample ID: 480-79126-2

Date Sampled: 04/22/2015 1340

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	261.1 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1536			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	41		19 - 125
Tetrachloro-m-xylene	85		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: MW-2S

Lab Sample ID: 480-79126-3

Date Sampled: 04/22/2015 1445

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	263.1 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1552			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	35		19 - 125
Tetrachloro-m-xylene	79		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: MW-2D

Lab Sample ID: 480-79126-4

Date Sampled: 04/22/2015 1510

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	259.4 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1608			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	30		19 - 125
Tetrachloro-m-xylene	84		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: MW-3S

Lab Sample ID: 480-79126-5

Date Sampled: 04/23/2015 0740

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	259.7 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1623			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	41		19 - 125
Tetrachloro-m-xylene	85		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: MW-3D

Lab Sample ID: 480-79126-6

Date Sampled: 04/23/2015 0745

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	171.1 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1639			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.73	U	0.26	0.73
PCB-1221	0.73	U	0.26	0.73
PCB-1232	0.73	U	0.26	0.73
PCB-1242	0.73	U	0.26	0.73
PCB-1248	0.73	U	0.26	0.73
PCB-1254	0.73	U	0.37	0.73
PCB-1260	0.73	U	0.37	0.73

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	35		19 - 125
Tetrachloro-m-xylene	82		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: MW-4S

Lab Sample ID: 480-79126-7

Date Sampled: 04/23/2015 0730

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	255.6 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1727			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.49	U	0.17	0.49
PCB-1221	0.49	U	0.17	0.49
PCB-1232	0.49	U	0.17	0.49
PCB-1242	0.49	U	0.17	0.49
PCB-1248	0.49	U	0.17	0.49
PCB-1254	0.49	U	0.24	0.49
PCB-1260	0.49	U	0.24	0.49

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	43		19 - 125
Tetrachloro-m-xylene	80		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: MW-4D

Lab Sample ID: 480-79126-8

Date Sampled: 04/22/2015 1130

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	265.8 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1743			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.47	U	0.17	0.47
PCB-1221	0.47	U	0.17	0.47
PCB-1232	0.47	U	0.17	0.47
PCB-1242	0.47	U	0.17	0.47
PCB-1248	0.47	U	0.17	0.47
PCB-1254	0.47	U	0.24	0.47
PCB-1260	0.47	U	0.24	0.47

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	36		19 - 125
Tetrachloro-m-xylene	76		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: DUP-1

Lab Sample ID: 480-79126-9

Date Sampled: 04/22/2015 0000

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	260.9 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1759			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

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

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	50		19 - 125
Tetrachloro-m-xylene	77		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: NPPRS

Lab Sample ID: 480-79126-10

Date Sampled: 04/23/2015 0815

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1814			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.18	0.50
PCB-1221	0.50	U	0.18	0.50
PCB-1232	0.50	U	0.18	0.50
PCB-1242	0.50	U	0.18	0.50
PCB-1248	0.50	U	0.18	0.50
PCB-1254	0.50	U	0.25	0.50
PCB-1260	0.50	U	0.25	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	50		19 - 125
Tetrachloro-m-xylene	82		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: SPPRS

Lab Sample ID: 480-79126-11

Date Sampled: 04/23/2015 0825

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1830			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.18	0.50
PCB-1221	0.50	U	0.18	0.50
PCB-1232	0.50	U	0.18	0.50
PCB-1242	0.50	U	0.18	0.50
PCB-1248	0.50	U	0.18	0.50
PCB-1254	0.50	U	0.25	0.50
PCB-1260	0.50	U	0.25	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	75		19 - 125
Tetrachloro-m-xylene	82		24 - 137

Analytical Data

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Client Sample ID: LEACHATE

Lab Sample ID: 480-79126-12

Date Sampled: 04/23/2015 0820

Client Matrix: Water

Date Received: 04/24/2015 0900

8082A Polychlorinated Biphenyls (PCBs) by Gas Chromatography

Analysis Method:	8082A	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Prep Method:	3510C	Prep Batch:	480-238627	Initial Weight/Volume:	250 mL
Dilution:	1.0			Final Weight/Volume:	2 mL
Analysis Date:	04/27/2015 1846			Injection Volume:	1 uL
Prep Date:	04/25/2015 0938			Result Type:	PRIMARY

Analyte	Result (ug/L)	Qualifier	MDL	RL
PCB-1016	0.50	U	0.18	0.50
PCB-1221	0.50	U	0.18	0.50
PCB-1232	0.50	U	0.18	0.50
PCB-1242	0.50	U	0.18	0.50
PCB-1248	0.50	U	0.18	0.50
PCB-1254	0.50	U	0.25	0.50
PCB-1260	0.50	U	0.25	0.50

Surrogate	%Rec	Qualifier	Acceptance Limits
DCB Decachlorobiphenyl	63		19 - 125
Tetrachloro-m-xylene	82		24 - 137

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

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

Lab Sample ID	Client Sample ID	TCX2 %Rec	DCB2 %Rec
480-79126-1	MW-1S	80	46
480-79126-2	MW-1D	85	41
480-79126-3	MW-2S	79	35
480-79126-4	MW-2D	84	30
480-79126-5	MW-3S	85	41
480-79126-6	MW-3D	82	35
480-79126-7	MW-4S	80	43
480-79126-8	MW-4D	76	36
480-79126-9	DUP-1	77	50
480-79126-10	NPPRS	82	50
480-79126-11	SPPRS	82	75
480-79126-12	LEACHATE	82	63
MB 480-238627/1-A		71	38
LCS 480-238627/2-A		78	31
480-79126-1 MS	MW-1S MS	82	37
480-79126-1 MSD	MW-1S MSD	77	35

Surrogate	Acceptance Limits
TCX = Tetrachloro-m-xylene	24-137
DCB = DCB Decachlorobiphenyl	19-125

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Method Blank - Batch: 480-238627

Method: 8082A Preparation: 3510C

Lab Sample ID: MB 480-238627/1-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/27/2015 1106
Prep Date: 04/25/2015 0938
Leach Date: N/A

Analysis Batch: 480-238818
Prep Batch: 480-238627
Leach Batch: N/A
Units: ug/L

Instrument ID: HP6890-7
Lab File ID: 7_369_134.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	0.50	U	0.18	0.50
PCB-1221	0.50	U	0.18	0.50
PCB-1232	0.50	U	0.18	0.50
PCB-1242	0.50	U	0.18	0.50
PCB-1248	0.50	U	0.18	0.50
PCB-1254	0.50	U	0.25	0.50
PCB-1260	0.50	U	0.25	0.50

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	38	19 - 125
Tetrachloro-m-xylene	71	24 - 137

Lab Control Sample - Batch: 480-238627

Method: 8082A Preparation: 3510C

Lab Sample ID: LCS 480-238627/2-A
Client Matrix: Water
Dilution: 1.0
Analysis Date: 04/27/2015 1122
Prep Date: 04/25/2015 0938
Leach Date: N/A

Analysis Batch: 480-238818
Prep Batch: 480-238627
Leach Batch: N/A
Units: ug/L

Instrument ID: HP6890-7
Lab File ID: 7_369_135.D
Initial Weight/Volume: 250 mL
Final Weight/Volume: 2 mL
Injection Volume: 1 uL
Column ID: PRIMARY

Analyte	Spike Amount	Result	% Rec.	Limit	Qual
PCB-1016	4.00	3.99	100	62 - 130	
PCB-1260	4.00	2.88	72	56 - 123	

Surrogate	% Rec	Acceptance Limits
DCB Decachlorobiphenyl	31	19 - 125
Tetrachloro-m-xylene	78	24 - 137

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-238627**

**Method: 8082A
Preparation: 3510C**

MS Lab Sample ID:	480-79126-1	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-238627	Lab File ID:	7_369_138.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	264.7 mL
Analysis Date:	04/27/2015 1210			Final Weight/Volume:	2 mL
Prep Date:	04/25/2015 0938			Injection Volume:	1 uL
Leach Date:	N/A			Column ID:	PRIMARY

MSD Lab Sample ID:	480-79126-1	Analysis Batch:	480-238818	Instrument ID:	HP6890-7
Client Matrix:	Water	Prep Batch:	480-238627	Lab File ID:	7_369_139.D
Dilution:	1.0	Leach Batch:	N/A	Initial Weight/Volume:	238 mL
Analysis Date:	04/27/2015 1226			Final Weight/Volume:	2 mL
Prep Date:	04/25/2015 0938			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	103	100	28 - 165	8	50		
PCB-1260	73	68	20 - 141	3	50		
Surrogate	MS % Rec		MSD % Rec	Acceptance Limits			
DCB Decachlorobiphenyl	37		35	19 - 125			
Tetrachloro-m-xylene	82		77	24 - 137			

**Matrix Spike/
Matrix Spike Duplicate Recovery Report - Batch: 480-238627**

**Method: 8082A
Preparation: 3510C**

MS Lab Sample ID:	480-79126-1	Units:	ug/L	MSD Lab Sample ID:	480-79126-1
Client Matrix:	Water			Client Matrix:	Water
Dilution:	1.0			Dilution:	1.0
Analysis Date:	04/27/2015 1210			Analysis Date:	04/27/2015 1226
Prep Date:	04/25/2015 0938			Prep Date:	04/25/2015 0938
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	0.47	U	3.78	4.20	3.90	4.21
PCB-1260	0.47	U	3.78	4.20	2.77	2.86

DATA REPORTING QUALIFIERS

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Lab Section	Qualifier	Description
GC Semi VOA	U	Analyzed for but not detected.

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

QC Association Summary

Lab Sample ID	Client Sample ID	Report Basis	Client Matrix	Method	Prep Batch
GC Semi VOA					
Prep Batch: 480-238627					
LCS 480-238627/2-A	Lab Control Sample	T	Water	3510C	
MB 480-238627/1-A	Method Blank	T	Water	3510C	
480-79126-1	MW-1S	T	Water	3510C	
480-79126-1MS	Matrix Spike	T	Water	3510C	
480-79126-1MSD	Matrix Spike Duplicate	T	Water	3510C	
480-79126-2	MW-1D	T	Water	3510C	
480-79126-3	MW-2S	T	Water	3510C	
480-79126-4	MW-2D	T	Water	3510C	
480-79126-5	MW-3S	T	Water	3510C	
480-79126-6	MW-3D	T	Water	3510C	
480-79126-7	MW-4S	T	Water	3510C	
480-79126-8	MW-4D	T	Water	3510C	
480-79126-9	DUP-1	T	Water	3510C	
480-79126-10	NPPRS	T	Water	3510C	
480-79126-11	SPPRS	T	Water	3510C	
480-79126-12	LEACHATE	T	Water	3510C	
Analysis Batch:480-238818					
LCS 480-238627/2-A	Lab Control Sample	T	Water	8082A	480-238627
MB 480-238627/1-A	Method Blank	T	Water	8082A	480-238627
480-79126-1	MW-1S	T	Water	8082A	480-238627
480-79126-1MS	Matrix Spike	T	Water	8082A	480-238627
480-79126-1MSD	Matrix Spike Duplicate	T	Water	8082A	480-238627
480-79126-2	MW-1D	T	Water	8082A	480-238627
480-79126-3	MW-2S	T	Water	8082A	480-238627
480-79126-4	MW-2D	T	Water	8082A	480-238627
480-79126-5	MW-3S	T	Water	8082A	480-238627
480-79126-6	MW-3D	T	Water	8082A	480-238627
480-79126-7	MW-4S	T	Water	8082A	480-238627
480-79126-8	MW-4D	T	Water	8082A	480-238627
480-79126-9	DUP-1	T	Water	8082A	480-238627
480-79126-10	NPPRS	T	Water	8082A	480-238627
480-79126-11	SPPRS	T	Water	8082A	480-238627
480-79126-12	LEACHATE	T	Water	8082A	480-238627

Report Basis

T = Total

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Laboratory Chronicle

Lab ID: 480-79126-1

Client ID: MW-1S

Sample Date/Time: 04/22/2015 13:40

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-B-1-B		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-B-1-B		480-238818	480-238627	04/27/2015 15:20	1	TAL BUF	KS

Lab ID: 480-79126-1

Client ID: MW-1S

Sample Date/Time: 04/22/2015 13:40

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-1-A MS		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-1-A MS		480-238818	480-238627	04/27/2015 12:10	1	TAL BUF	KS

Lab ID: 480-79126-1

Client ID: MW-1S

Sample Date/Time: 04/22/2015 13:40

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-B-1-A MSD		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-B-1-A MSD		480-238818	480-238627	04/27/2015 12:26	1	TAL BUF	KS

Lab ID: 480-79126-2

Client ID: MW-1D

Sample Date/Time: 04/22/2015 13:40

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-B-2-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-B-2-A		480-238818	480-238627	04/27/2015 15:36	1	TAL BUF	KS

Lab ID: 480-79126-3

Client ID: MW-2S

Sample Date/Time: 04/22/2015 14:45

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-3-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-3-A		480-238818	480-238627	04/27/2015 15:52	1	TAL BUF	KS

Lab ID: 480-79126-4

Client ID: MW-2D

Sample Date/Time: 04/22/2015 15:10

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-B-4-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-B-4-A		480-238818	480-238627	04/27/2015 16:08	1	TAL BUF	KS

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Laboratory Chronicle

Lab ID: 480-79126-5

Client ID: MW-3S

Sample Date/Time: 04/23/2015 07:40

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-B-5-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-B-5-A		480-238818	480-238627	04/27/2015 16:23	1	TAL BUF	KS

Lab ID: 480-79126-6

Client ID: MW-3D

Sample Date/Time: 04/23/2015 07:45

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-6-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-6-A		480-238818	480-238627	04/27/2015 16:39	1	TAL BUF	KS

Lab ID: 480-79126-7

Client ID: MW-4S

Sample Date/Time: 04/23/2015 07:30

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-7-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-7-A		480-238818	480-238627	04/27/2015 17:27	1	TAL BUF	KS

Lab ID: 480-79126-8

Client ID: MW-4D

Sample Date/Time: 04/22/2015 11:30

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-8-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-8-A		480-238818	480-238627	04/27/2015 17:43	1	TAL BUF	KS

Lab ID: 480-79126-9

Client ID: DUP-1

Sample Date/Time: 04/22/2015 00:00

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-9-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-9-A		480-238818	480-238627	04/27/2015 17:59	1	TAL BUF	KS

Lab ID: 480-79126-10

Client ID: NPPRS

Sample Date/Time: 04/23/2015 08:15

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-10-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-10-A		480-238818	480-238627	04/27/2015 18:14	1	TAL BUF	KS

Quality Control Results

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Laboratory Chronicle

Lab ID: 480-79126-11

Client ID: SPPRS

Sample Date/Time: 04/23/2015 08:25

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-11-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-11-A		480-238818	480-238627	04/27/2015 18:30	1	TAL BUF	KS

Lab ID: 480-79126-12

Client ID: LEACHATE

Sample Date/Time: 04/23/2015 08:20

Received Date/Time: 04/24/2015 09:00

Method	Bottle ID	Run	Analysis Batch	Prep Batch	Date Prepared / Analyzed	Dil	Lab	Analyst
P:3510C	480-79126-A-12-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	480-79126-A-12-A		480-238818	480-238627	04/27/2015 18:46	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:3510C	MB 480-238627/1-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	MB 480-238627/1-A		480-238818	480-238627	04/27/2015 11:06	1	TAL BUF	KS

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:3510C	LCS 480-238627/2-A		480-238818	480-238627	04/25/2015 09:38	1	TAL BUF	RJS
A:8082A	LCS 480-238627/2-A		480-238818	480-238627	04/27/2015 11:22	1	TAL BUF	KS

Lab References:

TAL BUF = TestAmerica Buffalo

Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NYSDEC-Standby COLUMBIA MILLS

TestAmerica Job ID: 480-79126-1

Laboratory	Authority	Program	EPA Region	Certification ID
TestAmerica Buffalo	Arkansas DEQ	State Program	6	88-0686
TestAmerica Buffalo	California	State Program	9	1169CA
TestAmerica Buffalo	Connecticut	State Program	1	PH-0568
TestAmerica Buffalo	Florida	NELAP	4	E87672
TestAmerica Buffalo	Georgia	State Program	4	956
TestAmerica Buffalo	Georgia	State Program	4	N/A
TestAmerica Buffalo	Illinois	NELAP	5	200003
TestAmerica Buffalo	Iowa	State Program	7	374
TestAmerica Buffalo	Kansas	NELAP	7	E-10187
TestAmerica Buffalo	Kentucky (DW)	State Program	4	90029
TestAmerica Buffalo	Kentucky (UST)	State Program	4	30
TestAmerica Buffalo	Kentucky (WW)	State Program	4	90029
TestAmerica Buffalo	Louisiana	NELAP	6	02031
TestAmerica Buffalo	Maine	State Program	1	NY00044
TestAmerica Buffalo	Maryland	State Program	3	294
TestAmerica Buffalo	Massachusetts	State Program	1	M-NY044
TestAmerica Buffalo	Michigan	State Program	5	9937
TestAmerica Buffalo	Minnesota	NELAP	5	036-999-337
TestAmerica Buffalo	New Hampshire	NELAP	1	2337
TestAmerica Buffalo	New Hampshire	NELAP	1	2973
TestAmerica Buffalo	New Jersey	NELAP	2	NY455
TestAmerica Buffalo	New York	NELAP	2	10026
TestAmerica Buffalo	North Dakota	State Program	8	R-176
TestAmerica Buffalo	Oklahoma	State Program	6	9421
TestAmerica Buffalo	Oregon	NELAP	10	NY200003
TestAmerica Buffalo	Pennsylvania	NELAP	3	68-00281
TestAmerica Buffalo	Rhode Island	State Program	1	LAO00328
TestAmerica Buffalo	Tennessee	State Program	4	TN02970
TestAmerica Buffalo	Texas	NELAP	6	T104704412-11-2
TestAmerica Buffalo	USDA	Federal		P330-11-00386
TestAmerica Buffalo	Virginia	NELAP	3	460185
TestAmerica Buffalo	Washington	State Program	10	C784
TestAmerica Buffalo	West Virginia DEP	State Program	3	252
TestAmerica Buffalo	Wisconsin	State Program	5	998310390

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

Method 8082A

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

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Matrix: Water Level: Low
GC Column (2): ZB-35 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	TCX2 #	DCB2 #
MW-1S	480-79126-1	80	46
MW-1D	480-79126-2	85	41
MW-2S	480-79126-3	79	35
MW-2D	480-79126-4	84	30
MW-3S	480-79126-5	85	41
MW-3D	480-79126-6	82	35
MW-4S	480-79126-7	80	43
MW-4D	480-79126-8	76	36
DUP-1	480-79126-9	77	50
NPPRS	480-79126-10	82	50
SPPRS	480-79126-11	82	75
LEACHATE	480-79126-12	82	63
	MB 480-238627/1-A	71	38
	LCS 480-238627/2-A	78	31
MW-1S MS	480-79126-1 MS	82	37
MW-1S MSD	480-79126-1 MSD	77	35

TCX = Tetrachloro-m-xylene
DCB = DCB Decachlorobiphenyl

QC LIMITS
24-137
19-125

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 7_369_135.D
Lab ID: LCS 480-238627/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
PCB-1016	4.00	3.99	100	62-130	
PCB-1260	4.00	2.88	72	56-123	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 7_369_138.D
Lab ID: 480-79126-1 MS Client ID: MW-1S MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
PCB-1016	3.78	0.47 U	3.90	103	28-165	
PCB-1260	3.78	0.47 U	2.77	73	20-141	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 7_369_139.D
Lab ID: 480-79126-1 MSD Client ID: MW-1S MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
PCB-1016	4.20	4.21	100	8	50	28-165	
PCB-1260	4.20	2.86	68	3	50	20-141	

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Lab Sample ID: MB 480-238627/1-A

Matrix: Water Date Extracted: 04/25/2015 09:38

Lab File ID: (1) 7_369_134.D Lab File ID: (2) 7_369_134.D

Date Analyzed: (1) 04/27/2015 11:06 Date Analyzed: (2) 04/27/2015 11:06

Instrument ID: (1) HP6890-7 Instrument ID: (2) HP6890-7

GC Column: (1) ZB-5 ID: 0.53(mm) GC Column: (2) ZB-35 ID: 0.53(mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	DATE ANALYZED 1	DATE ANALYZED 2
	LCS 480-238627/2-A	04/27/2015 11:22	04/27/2015 11:22
MW-1S MS	480-79126-1 MS	04/27/2015 12:10	04/27/2015 12:10
MW-1S MSD	480-79126-1 MSD	04/27/2015 12:26	04/27/2015 12:26
MW-1S	480-79126-1	04/27/2015 15:20	04/27/2015 15:20
MW-1D	480-79126-2	04/27/2015 15:36	04/27/2015 15:36
MW-2S	480-79126-3	04/27/2015 15:52	04/27/2015 15:52
MW-2D	480-79126-4	04/27/2015 16:08	04/27/2015 16:08
MW-3S	480-79126-5	04/27/2015 16:23	04/27/2015 16:23
MW-3D	480-79126-6	04/27/2015 16:39	04/27/2015 16:39
MW-4S	480-79126-7	04/27/2015 17:27	04/27/2015 17:27
MW-4D	480-79126-8	04/27/2015 17:43	04/27/2015 17:43
DUP-1	480-79126-9	04/27/2015 17:59	04/27/2015 17:59
NPPRS	480-79126-10	04/27/2015 18:14	04/27/2015 18:14
SPPRS	480-79126-11	04/27/2015 18:30	04/27/2015 18:30
LEACHATE	480-79126-12	04/27/2015 18:46	04/27/2015 18:46

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-1S MS Lab Sample ID: 480-79126-1 MS
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 04/27/2015 12:10 Date Analyzed (2): 04/27/2015 12:10
 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	2.71	2.68	2.74	3.42	3.39	13.9
		2	2.80	2.77	2.83	3.34		
		3	2.86	2.83	2.89	3.47		
		4	3.24	3.21	3.27	3.34		
	2	1	2.42	2.39	2.45	3.74	3.90	
		2	2.53	2.50	2.56	4.03		
		3	2.73	2.70	2.76	3.95		
		4	3.00	2.97	3.03	3.87		
PCB-1260	1	1	4.67	4.64	4.70	2.51	2.53	9.0
		2	4.86	4.83	4.89	2.57		
		3	5.06	5.03	5.09	2.57		
		4	5.30	5.27	5.33	2.46		
	2	1	4.67	4.64	4.70	2.74	2.77	
		2	4.74	4.71	4.77	2.89		
		3	4.81	4.78	4.84	2.90		
		4	5.14	5.11	5.17	2.52		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-1S MSD Lab Sample ID: 480-79126-1 MSD
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 04/27/2015 12:26 Date Analyzed (2): 04/27/2015 12:26
 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	2.72	2.68	2.74	3.54	3.51	18.0
		2	2.80	2.77	2.83	3.45		
		3	2.86	2.83	2.89	3.59		
		4	3.24	3.21	3.27	3.46		
	2	1	2.42	2.39	2.45	4.14	4.21	
		2	2.53	2.50	2.56	4.28		
		3	2.73	2.70	2.76	4.25		
		4	3.00	2.97	3.03	4.16		
PCB-1260	1	1	4.67	4.64	4.70	2.59	2.27	22.7
		2	4.86	4.83	4.89	2.67		
		3	5.06	5.03	5.09	2.64		
		4	5.30	5.27	5.33	1.20		
	2	1	4.67	4.64	4.70	2.85	2.86	
		2	4.74	4.71	4.77	2.98		
		3	4.81	4.78	4.84	2.99		
		4	5.14	5.11	5.17	2.61		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-238627/2-A
 Instrument ID (1): HP6890-7 Instrument ID (2): HP6890-7
 Date Analyzed (1): 04/27/2015 11:22 Date Analyzed (2): 04/27/2015 11:22
 GC Column (1): ZB-5 ID: 0.53(mm) GC Column (2): ZB-35 ID: 0.53(mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
PCB-1016	1	1	2.71	2.68	2.74	3.51	3.49	13.2
		2	2.80	2.77	2.83	3.44		
		3	2.86	2.83	2.89	3.57		
		4	3.24	3.21	3.27	3.46		
	2	1	2.42	2.39	2.45	3.80	3.99	
		2	2.53	2.50	2.56	4.13		
		3	2.73	2.70	2.76	4.00		
		4	3.00	2.97	3.03	4.01		
PCB-1260	1	1	4.67	4.64	4.70	2.71	2.70	6.5
		2	4.86	4.83	4.89	2.76		
		3	5.06	5.03	5.09	2.70		
		4	5.30	5.27	5.33	2.62		
	2	1	4.67	4.64	4.70	2.89	2.88	
		2	4.74	4.71	4.77	3.03		
		3	4.81	4.78	4.84	3.00		
		4	5.14	5.11	5.17	2.60		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-1S Lab Sample ID: 480-79126-1
 Matrix: Water Lab File ID: 7_369_150.D
 Analysis Method: 8082A Date Collected: 04/22/2015 13:40
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 264.5(mL) Date Analyzed: 04/27/2015 15:20
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.47	U	0.47	0.17
11104-28-2	PCB-1221	0.47	U	0.47	0.17
11141-16-5	PCB-1232	0.47	U	0.47	0.17
53469-21-9	PCB-1242	0.47	U	0.47	0.17
12672-29-6	PCB-1248	0.47	U	0.47	0.17
11097-69-1	PCB-1254	0.47	U	0.47	0.24
11096-82-5	PCB-1260	0.47	U	0.47	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	46		19-125
877-09-8	Tetrachloro-m-xylene	80		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_150.D
 Lims ID: 480-79126-B-1-B Lab Sample ID: 480-79126-1
 Client ID: MW-1S
 Sample Type: Client
 Inject. Date: 27-Apr-2015 15:20:28 ALS Bottle#: 0 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 16:24:40 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:10:55

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.816	-0.001	723539	0.0160
2	1.534	1.535	-0.001	625690	0.0159

RPD = 0.39

\$ 12 DCB Decachlorobiphenyl

1	6.501	6.500	0.001	258298	0.008765
2	6.140	6.139	0.001	250605	0.009194

RPD = 4.77

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_150.D

Injection Date: 27-Apr-2015 15:20:28

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-B-1-B

Lab Sample ID: 480-79126-1

Worklist Smp#: 22

Client ID: MW-1S

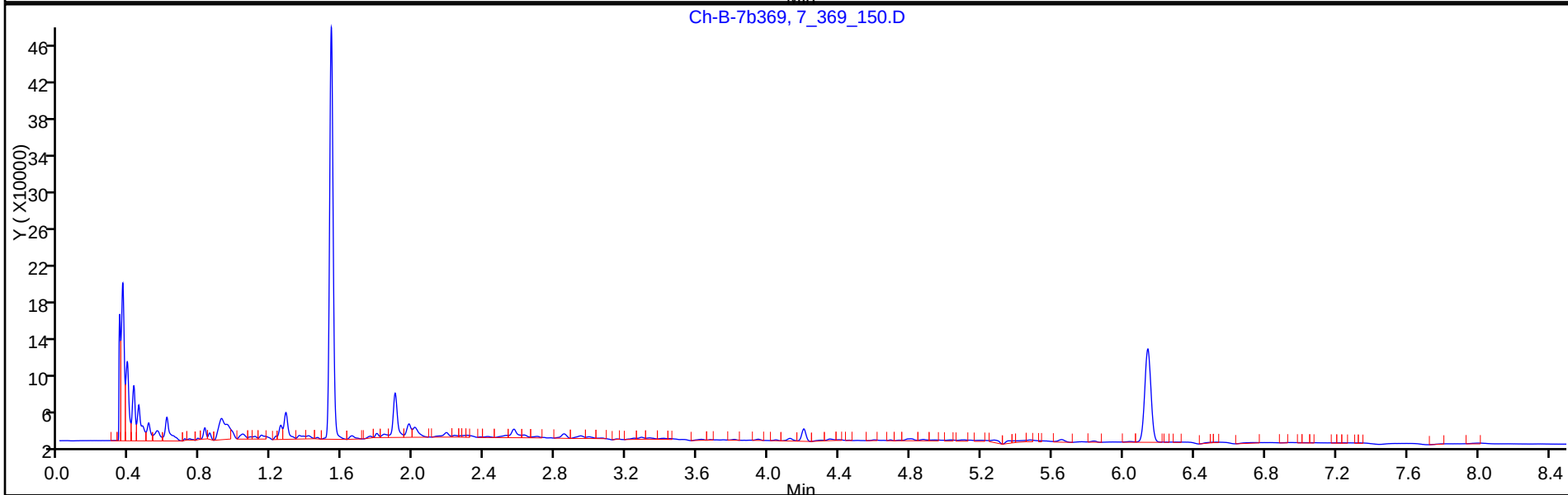
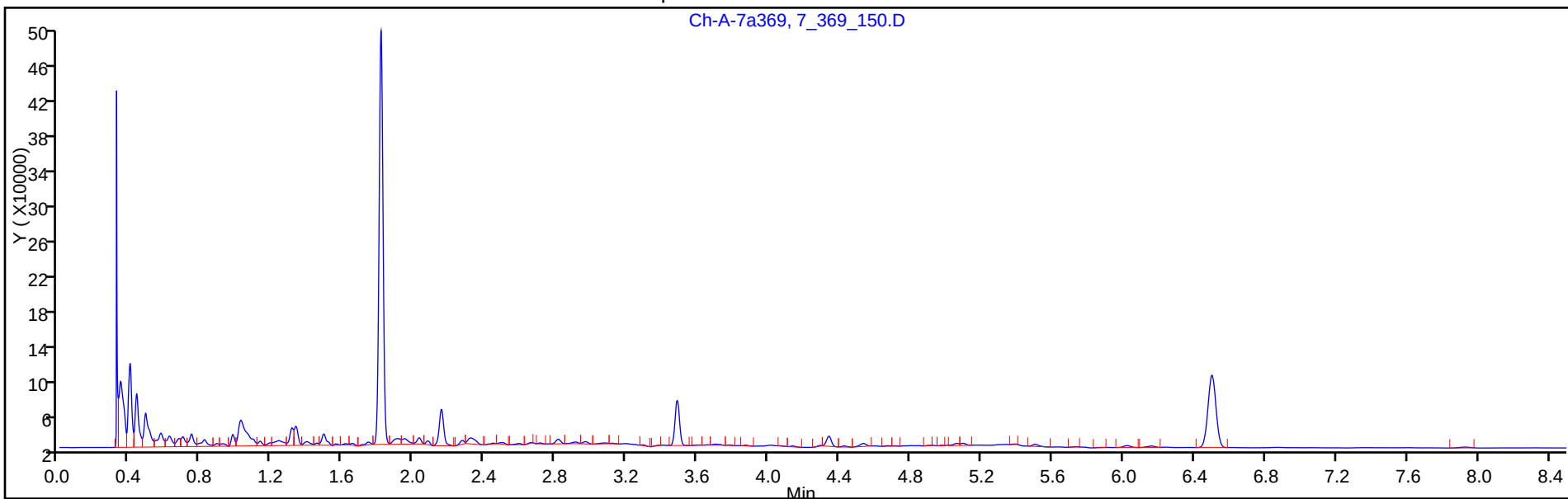
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-1D Lab Sample ID: 480-79126-2
 Matrix: Water Lab File ID: 7_369_151.D
 Analysis Method: 8082A Date Collected: 04/22/2015 13:40
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 261.1(mL) Date Analyzed: 04/27/2015 15:36
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.48	U	0.48	0.17
11104-28-2	PCB-1221	0.48	U	0.48	0.17
11141-16-5	PCB-1232	0.48	U	0.48	0.17
53469-21-9	PCB-1242	0.48	U	0.48	0.17
12672-29-6	PCB-1248	0.48	U	0.48	0.17
11097-69-1	PCB-1254	0.48	U	0.48	0.24
11096-82-5	PCB-1260	0.48	U	0.48	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	41		19-125
877-09-8	Tetrachloro-m-xylene	85		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_151.D
Lims ID: 480-79126-B-2-A Lab Sample ID: 480-79126-2
Client ID: MW-1D
Sample Type: Client
Inject. Date: 27-Apr-2015 15:36:19 ALS Bottle#: 0 Worklist Smp#: 23
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Apr-2015 16:25:16 Calib Date: 10-Apr-2015 12:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:10:51

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.816	-0.001	762005	0.0168
2	1.534	1.535	-0.001	664074	0.0169

RPD = 0.38

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	258279	0.008765
2	6.140	6.139	0.001	223201	0.008189

RPD = 6.80

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_151.D

Injection Date: 27-Apr-2015 15:36:19

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-B-2-A

Lab Sample ID: 480-79126-2

Worklist Smp#: 23

Client ID: MW-1D

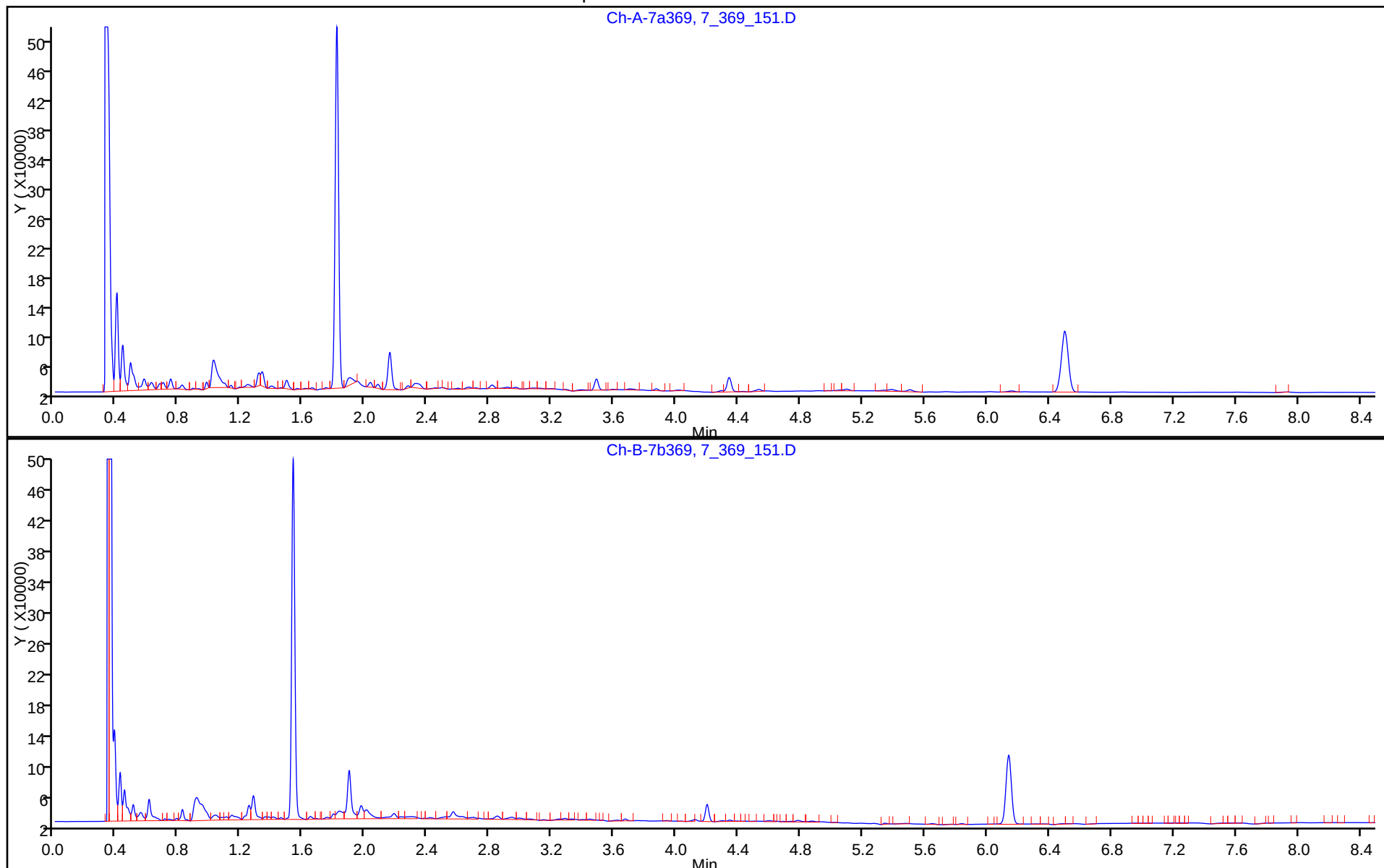
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-2S Lab Sample ID: 480-79126-3
 Matrix: Water Lab File ID: 7_369_152.D
 Analysis Method: 8082A Date Collected: 04/22/2015 14:45
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 263.1(mL) Date Analyzed: 04/27/2015 15:52
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.48	U	0.48	0.17
11104-28-2	PCB-1221	0.48	U	0.48	0.17
11141-16-5	PCB-1232	0.48	U	0.48	0.17
53469-21-9	PCB-1242	0.48	U	0.48	0.17
12672-29-6	PCB-1248	0.48	U	0.48	0.17
11097-69-1	PCB-1254	0.48	U	0.48	0.24
11096-82-5	PCB-1260	0.48	U	0.48	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	35		19-125
877-09-8	Tetrachloro-m-xylene	79		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_152.D
Lims ID: 480-79126-A-3-A Lab Sample ID: 480-79126-3
Client ID: MW-2S
Sample Type: Client
Inject. Date: 27-Apr-2015 15:52:08 ALS Bottle#: 0 Worklist Smp#: 24
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Apr-2015 16:25:44 Calib Date: 10-Apr-2015 12:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 16:25:44

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

\$ 3 Tetrachloro-m-xylene

1	1.816	1.816	0.000	718770	0.0159
2	1.534	1.535	-0.001	624059	0.0159

RPD = 0.01

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.500	0.002	204604	0.006943
2	6.139	6.139	0.000	191580	0.007028

RPD = 1.22

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 27-Apr-2015 16:25:45

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_152.D

Injection Date: 27-Apr-2015 15:52:08

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-3-A

Lab Sample ID: 480-79126-3

Worklist Smp#: 24

Client ID: MW-2S

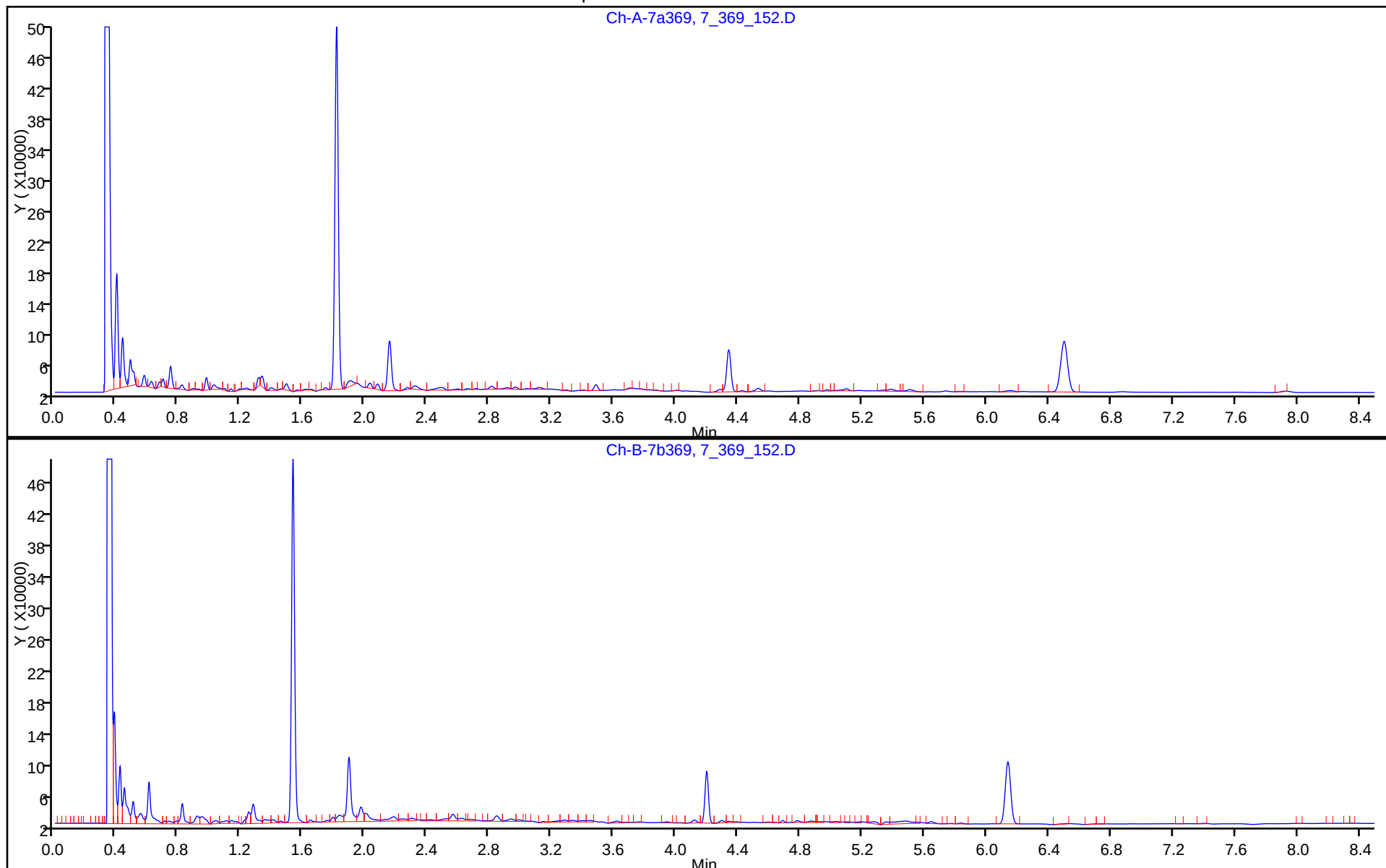
Injection Vol: 1.0 ul

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: <u>TestAmerica Buffalo</u>	Job No.: <u>480-79126-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2D</u>	Lab Sample ID: <u>480-79126-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>7_369_153.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>04/22/2015 15:10</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>04/25/2015 09:38</u>
Sample wt/vol: <u>259.4 (mL)</u>	Date Analyzed: <u>04/27/2015 16:08</u>
Con. Extract Vol.: <u>2 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>ZB-35</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>238818</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.48	U	0.48	0.17
11104-28-2	PCB-1221	0.48	U	0.48	0.17
11141-16-5	PCB-1232	0.48	U	0.48	0.17
53469-21-9	PCB-1242	0.48	U	0.48	0.17
12672-29-6	PCB-1248	0.48	U	0.48	0.17
11097-69-1	PCB-1254	0.48	U	0.48	0.24
11096-82-5	PCB-1260	0.48	U	0.48	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	30		19-125
877-09-8	Tetrachloro-m-xylene	84		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_153.D
Lims ID: 480-79126-B-4-A Lab Sample ID: 480-79126-4
Client ID: MW-2D
Sample Type: Client
Inject. Date: 27-Apr-2015 16:08:07 ALS Bottle#: 0 Worklist Smp#: 25
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Apr-2015 16:26:27 Calib Date: 10-Apr-2015 12:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:10:46

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.816	-0.001	755863	0.0167
2	1.534	1.535	-0.001	660175	0.0168

RPD = 0.60

\$ 12 DCB Decachlorobiphenyl

1	6.503	6.500	0.002	166049	0.005635
2	6.140	6.139	0.001	166200	0.006097

RPD = 7.89

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_153.D

Injection Date: 27-Apr-2015 16:08:07

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-B-4-A

Lab Sample ID: 480-79126-4

Worklist Smp#: 25

Client ID: MW-2D

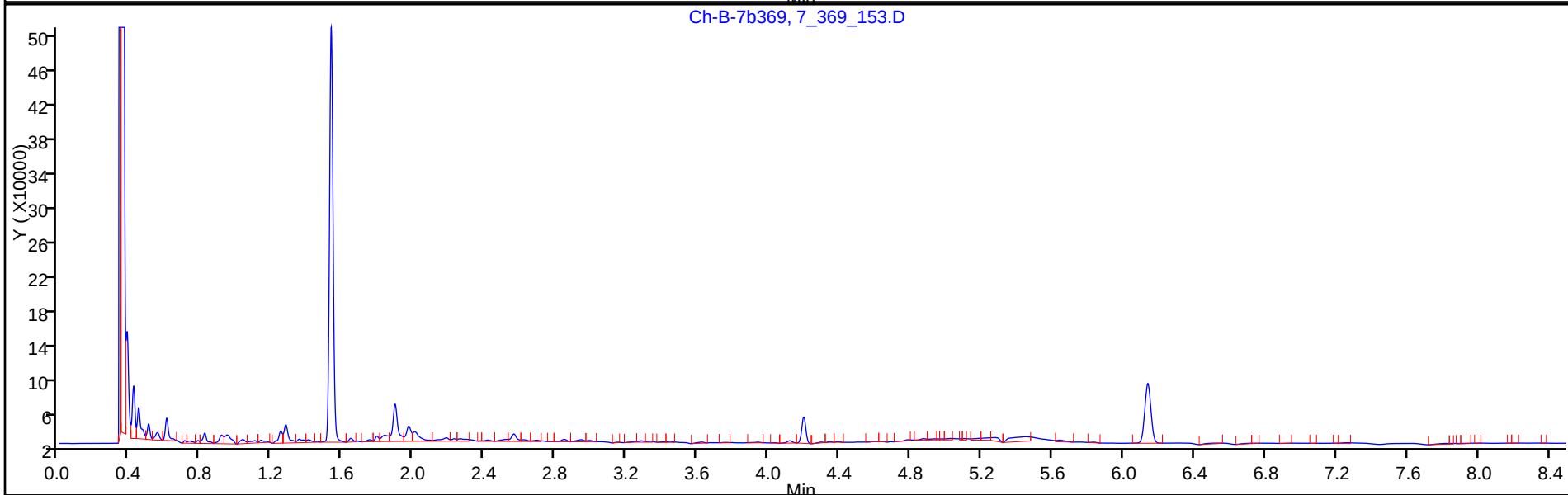
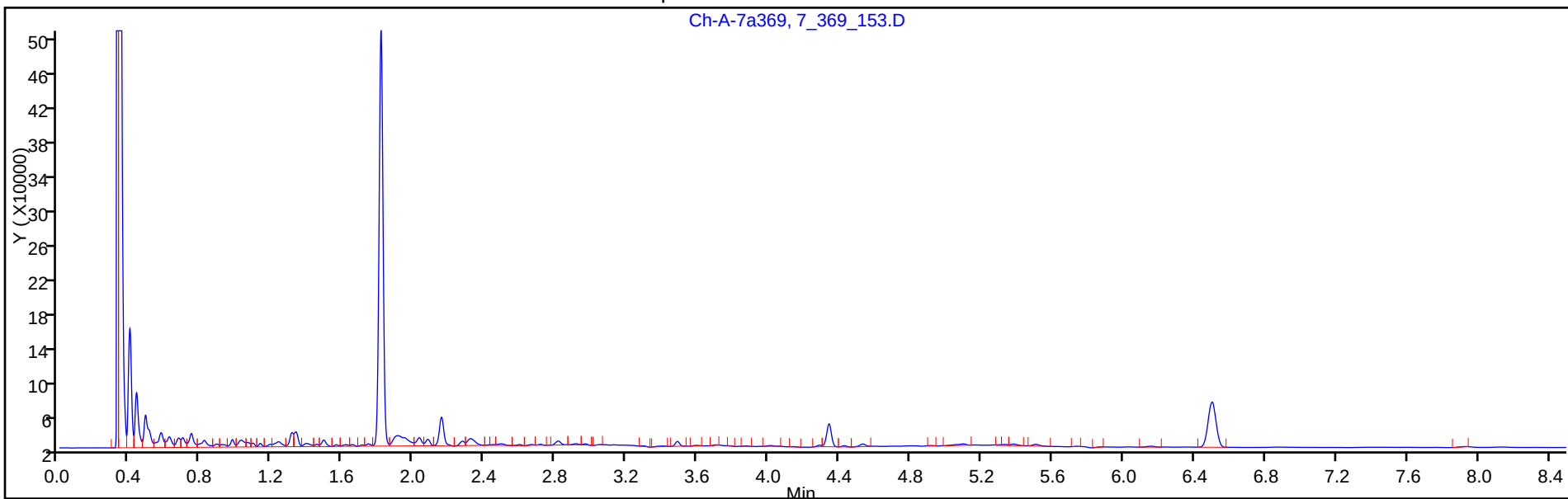
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-3S Lab Sample ID: 480-79126-5
 Matrix: Water Lab File ID: 7_369_154.D
 Analysis Method: 8082A Date Collected: 04/23/2015 07:40
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 259.7 (mL) Date Analyzed: 04/27/2015 16:23
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.48	U	0.48	0.17
11104-28-2	PCB-1221	0.48	U	0.48	0.17
11141-16-5	PCB-1232	0.48	U	0.48	0.17
53469-21-9	PCB-1242	0.48	U	0.48	0.17
12672-29-6	PCB-1248	0.48	U	0.48	0.17
11097-69-1	PCB-1254	0.48	U	0.48	0.24
11096-82-5	PCB-1260	0.48	U	0.48	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	41		19-125
877-09-8	Tetrachloro-m-xylene	85		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_154.D
Lims ID: 480-79126-B-5-A Lab Sample ID: 480-79126-5
Client ID: MW-3S
Sample Type: Client
Inject. Date: 27-Apr-2015 16:23:53 ALS Bottle#: 0 Worklist Smp#: 26
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Apr-2015 17:13:41 Calib Date: 10-Apr-2015 12:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:09:45

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

\$ 3 Tetrachloro-m-xylene

1	1.814	1.815	-0.001	759133	0.0168
2	1.534	1.534	0.000	669701	0.0170

RPD = 1.60

\$ 12 DCB Decachlorobiphenyl

1	6.501	6.503	-0.001	221169	0.007505
2	6.141	6.141	0.000	224385	0.008232

RPD = 9.24

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 27-Apr-2015 17:15:27

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_154.D

Injection Date: 27-Apr-2015 16:23:53

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-B-5-A

Lab Sample ID: 480-79126-5

Worklist Smp#: 26

Client ID: MW-3S

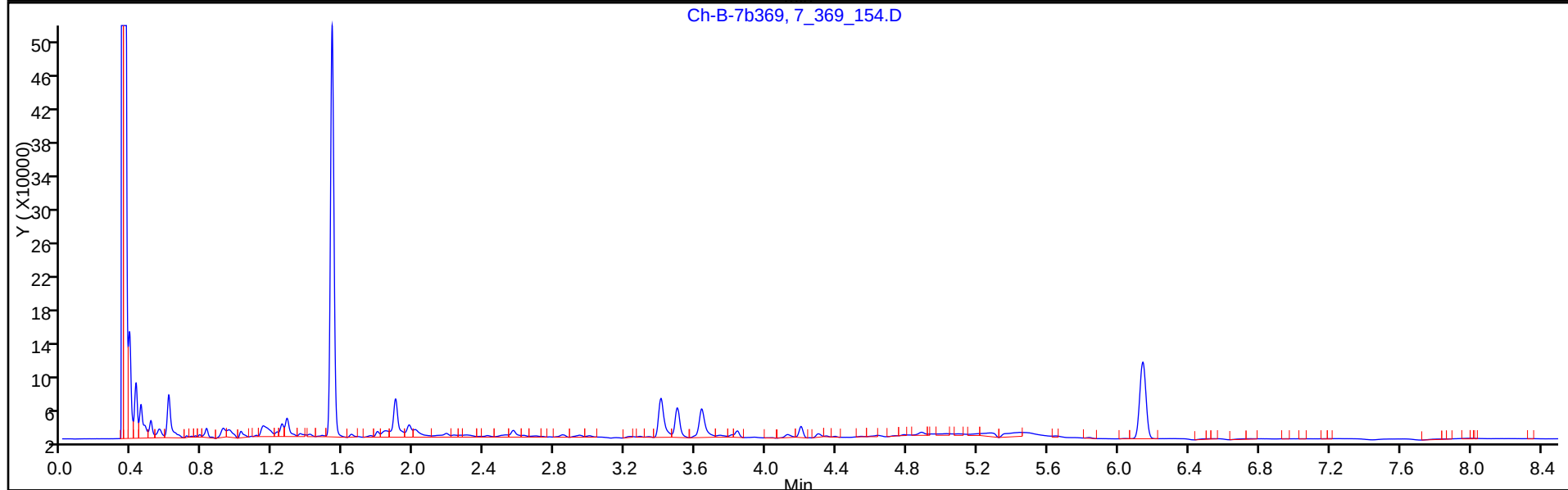
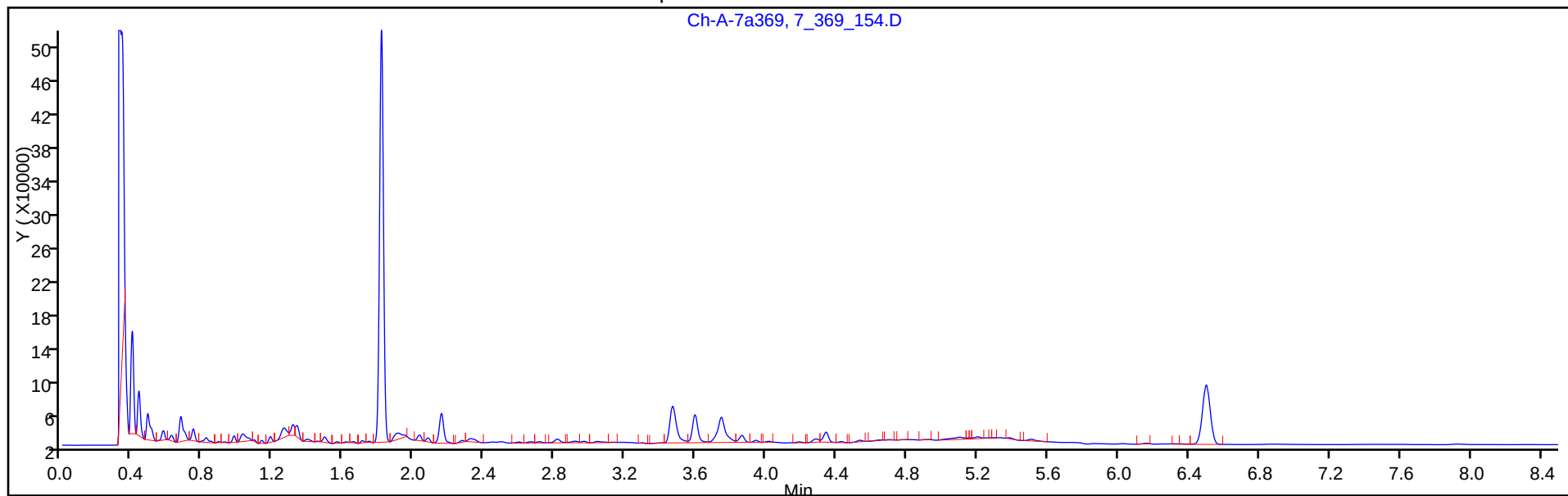
Injection Vol: 1.0 ul

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.: 480-79126-1

SDG No.: _____

Client Sample ID: MW-3D Lab Sample ID: 480-79126-6

Matrix: Water Lab File ID: 7_369_155.D

Analysis Method: 8082A Date Collected: 04/23/2015 07:45

Extraction Method: 3510C Date Extracted: 04/25/2015 09:38

Sample wt/vol: 171.1(mL) Date Analyzed: 04/27/2015 16:39

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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.73	U	0.73	0.26
11104-28-2	PCB-1221	0.73	U	0.73	0.26
11141-16-5	PCB-1232	0.73	U	0.73	0.26
53469-21-9	PCB-1242	0.73	U	0.73	0.26
12672-29-6	PCB-1248	0.73	U	0.73	0.26
11097-69-1	PCB-1254	0.73	U	0.73	0.37
11096-82-5	PCB-1260	0.73	U	0.73	0.37

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	35		19-125
877-09-8	Tetrachloro-m-xylene	82		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_155.D
Lims ID: 480-79126-A-6-A Lab Sample ID: 480-79126-6
Client ID: MW-3D
Sample Type: Client
Inject. Date: 27-Apr-2015 16:39:42 ALS Bottle#: 0 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: buftchrom Instrument ID: HP6890-7
Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Apr-2015 16:52:43 Calib Date: 10-Apr-2015 12:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:10:39

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

\$ 3 Tetrachloro-m-xylene

1	1.814	1.816	-0.002	717476	0.0159
2	1.535	1.535	0.000	643907	0.0164

RPD = 3.32

\$ 12 DCB Decachlorobiphenyl

1	6.501	6.500	0.001	190273	0.006457
2	6.141	6.139	0.002	191410	0.007022

RPD = 8.39

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_155.D

Injection Date: 27-Apr-2015 16:39:42

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-6-A

Lab Sample ID: 480-79126-6

Worklist Smp#: 27

Client ID: MW-3D

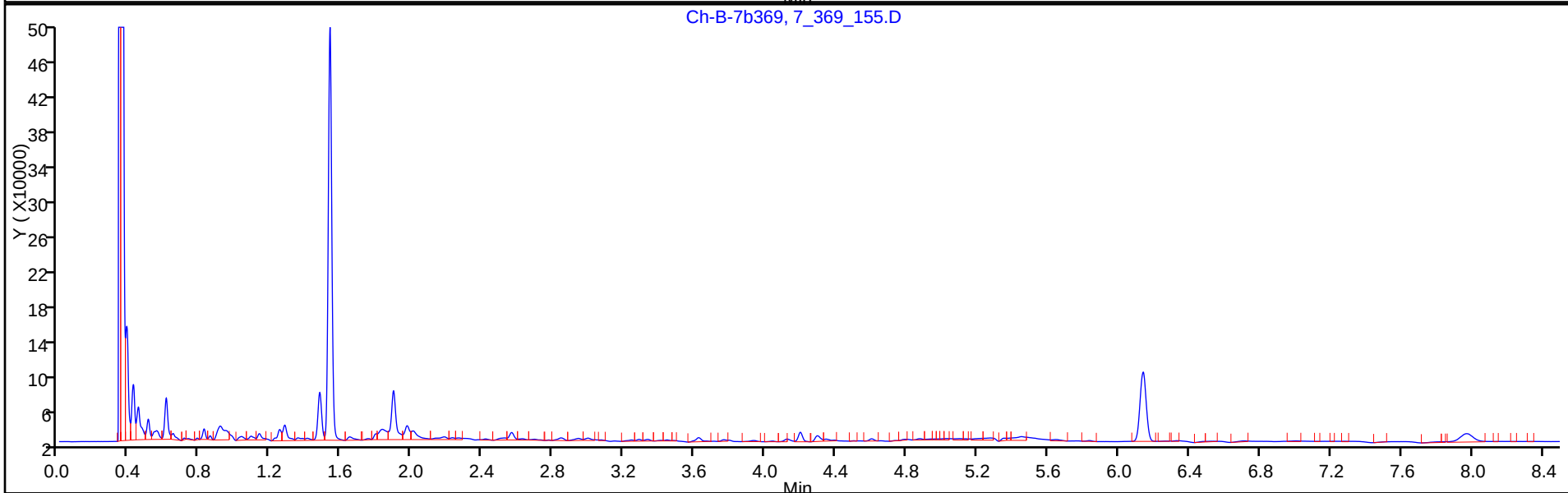
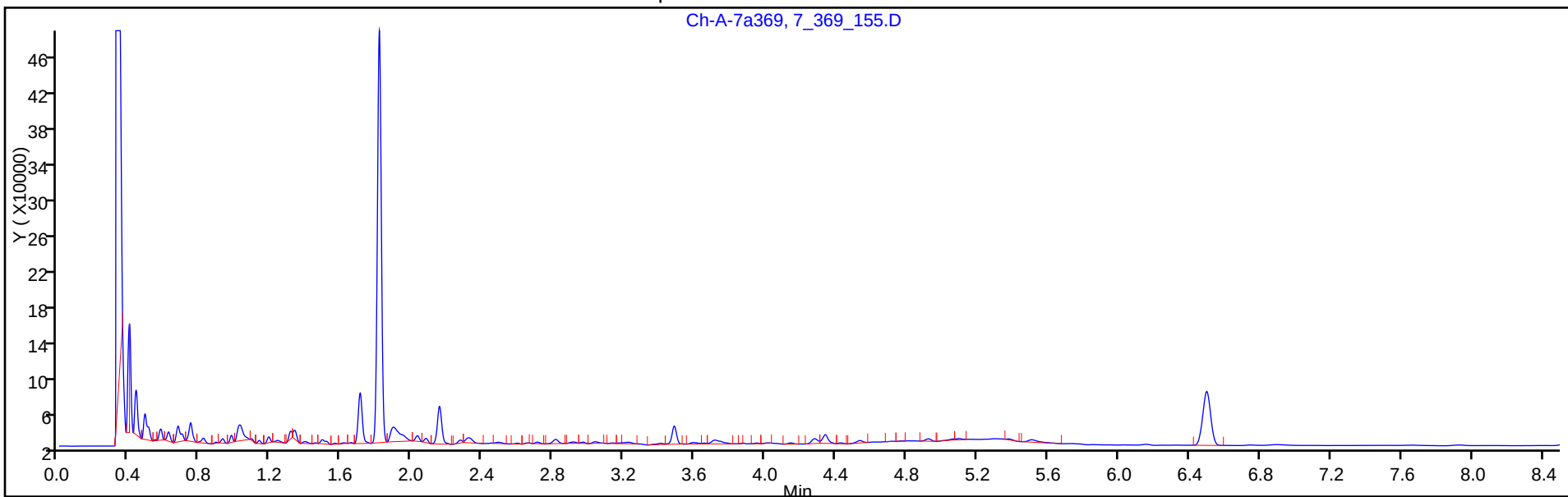
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-4S Lab Sample ID: 480-79126-7
 Matrix: Water Lab File ID: 7_369_158.D
 Analysis Method: 8082A Date Collected: 04/23/2015 07:30
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 255.6(mL) Date Analyzed: 04/27/2015 17:27
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.49	U	0.49	0.17
11104-28-2	PCB-1221	0.49	U	0.49	0.17
11141-16-5	PCB-1232	0.49	U	0.49	0.17
53469-21-9	PCB-1242	0.49	U	0.49	0.17
12672-29-6	PCB-1248	0.49	U	0.49	0.17
11097-69-1	PCB-1254	0.49	U	0.49	0.24
11096-82-5	PCB-1260	0.49	U	0.49	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	43		19-125
877-09-8	Tetrachloro-m-xylene	80		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_158.D
 Lims ID: 480-79126-A-7-A Lab Sample ID: 480-79126-7
 Client ID: MW-4S
 Sample Type: Client
 Inject. Date: 27-Apr-2015 17:27:23 ALS Bottle#: 0 Worklist Smp#: 30
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 13:45:15 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 13:45:15

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	738363	0.0163
2	1.534	1.535	-0.001	630482	0.0160

RPD = 1.66

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.500	0.002	231436	0.007854
2	6.139	6.141	-0.002	236672	0.008683

RPD = 10.03

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_158.D

Injection Date: 27-Apr-2015 17:27:23

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-7-A

Lab Sample ID: 480-79126-7

Worklist Smp#: 30

Client ID: MW-4S

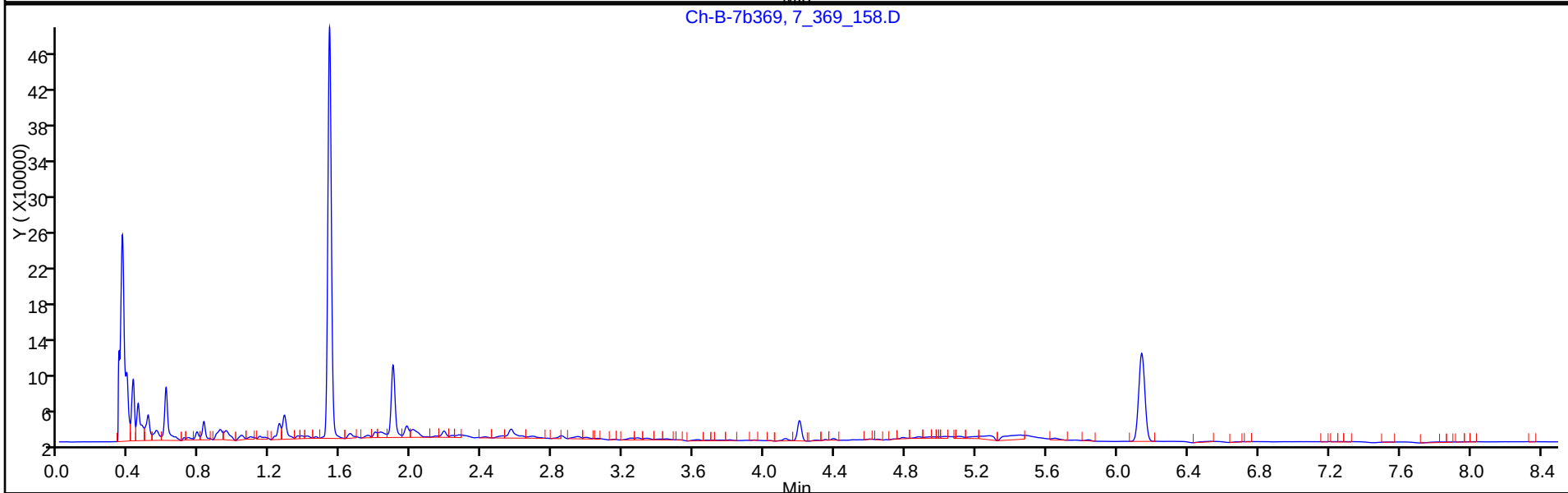
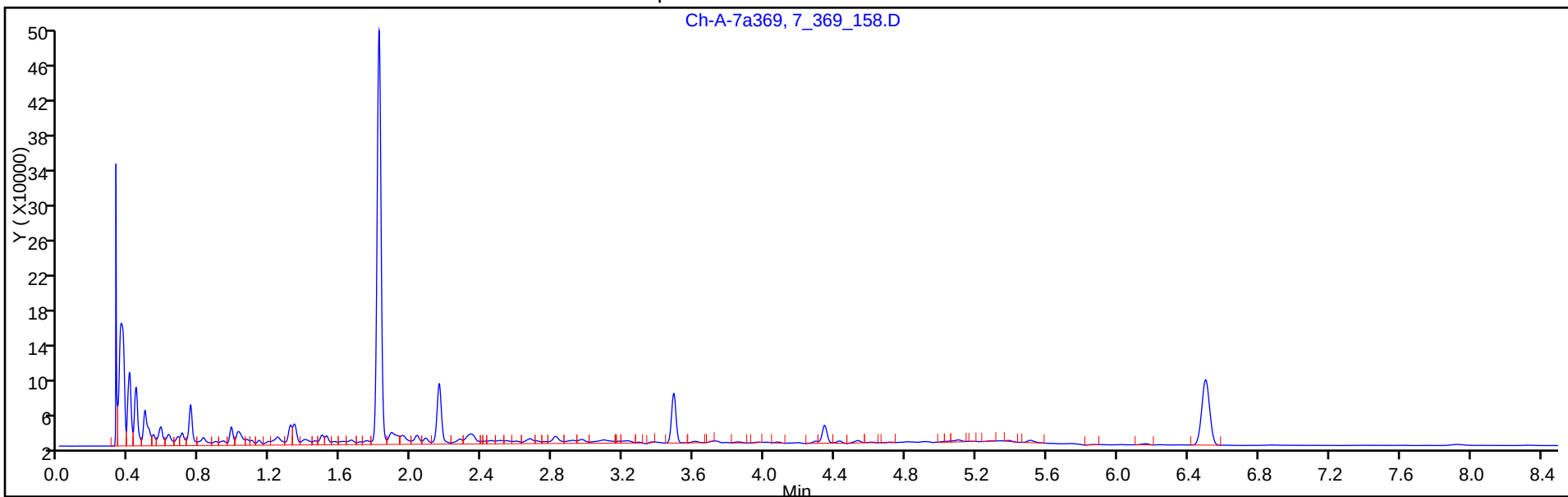
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-4D Lab Sample ID: 480-79126-8
 Matrix: Water Lab File ID: 7_369_159.D
 Analysis Method: 8082A Date Collected: 04/22/2015 11:30
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 265.8(mL) Date Analyzed: 04/27/2015 17:43
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.47	U	0.47	0.17
11104-28-2	PCB-1221	0.47	U	0.47	0.17
11141-16-5	PCB-1232	0.47	U	0.47	0.17
53469-21-9	PCB-1242	0.47	U	0.47	0.17
12672-29-6	PCB-1248	0.47	U	0.47	0.17
11097-69-1	PCB-1254	0.47	U	0.47	0.24
11096-82-5	PCB-1260	0.47	U	0.47	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	36		19-125
877-09-8	Tetrachloro-m-xylene	76		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_159.D
 Lims ID: 480-79126-A-8-A Lab Sample ID: 480-79126-8
 Client ID: MW-4D
 Sample Type: Client
 Inject. Date: 27-Apr-2015 17:43:13 ALS Bottle#: 0 Worklist Smp#: 31
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 13:46:02 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 13:46:02

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	677259	0.0150
2	1.534	1.535	-0.001	598592	0.0152

RPD = 1.79

\$ 12 DCB Decachlorobiphenyl

1	6.501	6.500	0.001	189429	0.006428
2	6.140	6.141	-0.001	194100	0.007121

RPD = 10.23

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_159.D

Injection Date: 27-Apr-2015 17:43:13

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-8-A

Lab Sample ID: 480-79126-8

Worklist Smp#: 31

Client ID: MW-4D

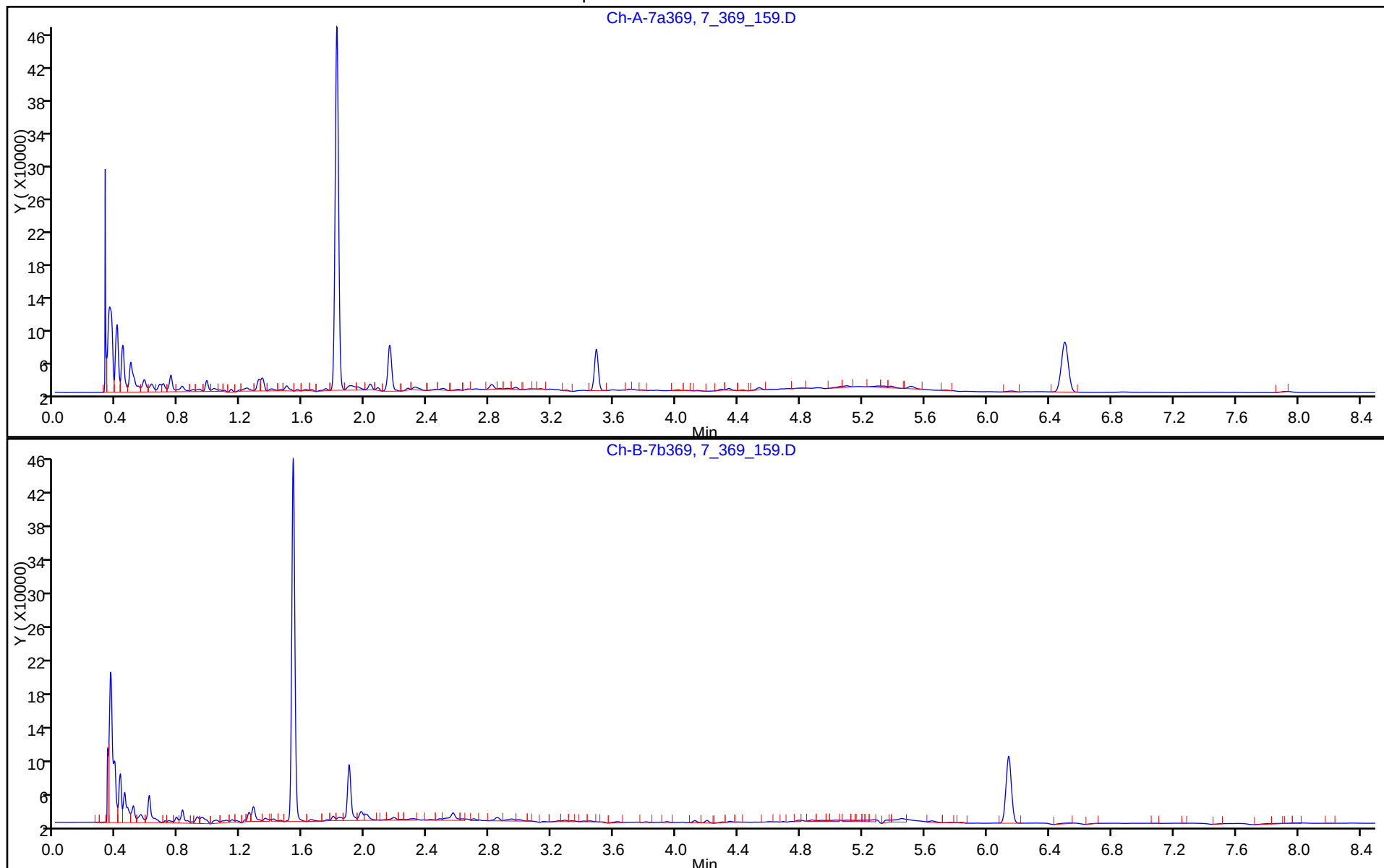
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Client Sample ID: DUP-1 Lab Sample ID: 480-79126-9
 Matrix: Water Lab File ID: 7_369_160.D
 Analysis Method: 8082A Date Collected: 04/22/2015 00:00
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 260.9(mL) Date Analyzed: 04/27/2015 17:59
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.48	U	0.48	0.17
11104-28-2	PCB-1221	0.48	U	0.48	0.17
11141-16-5	PCB-1232	0.48	U	0.48	0.17
53469-21-9	PCB-1242	0.48	U	0.48	0.17
12672-29-6	PCB-1248	0.48	U	0.48	0.17
11097-69-1	PCB-1254	0.48	U	0.48	0.24
11096-82-5	PCB-1260	0.48	U	0.48	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	50		19-125
877-09-8	Tetrachloro-m-xylene	77		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_160.D
 Lims ID: 480-79126-A-9-A Lab Sample ID: 480-79126-9
 Client ID: DUP-1
 Sample Type: Client
 Inject. Date: 27-Apr-2015 17:59:01 ALS Bottle#: 0 Worklist Smp#: 32
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 13:46:41 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 13:46:41

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	708617	0.0157
2	1.534	1.535	-0.001	606278	0.0154

RPD = 1.46

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	264729	0.008983
2	6.140	6.141	-0.001	273013	0.0100

RPD = 10.87

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_160.D

Injection Date: 27-Apr-2015 17:59:01

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-9-A

Lab Sample ID: 480-79126-9

Worklist Smp#: 32

Client ID: DUP-1

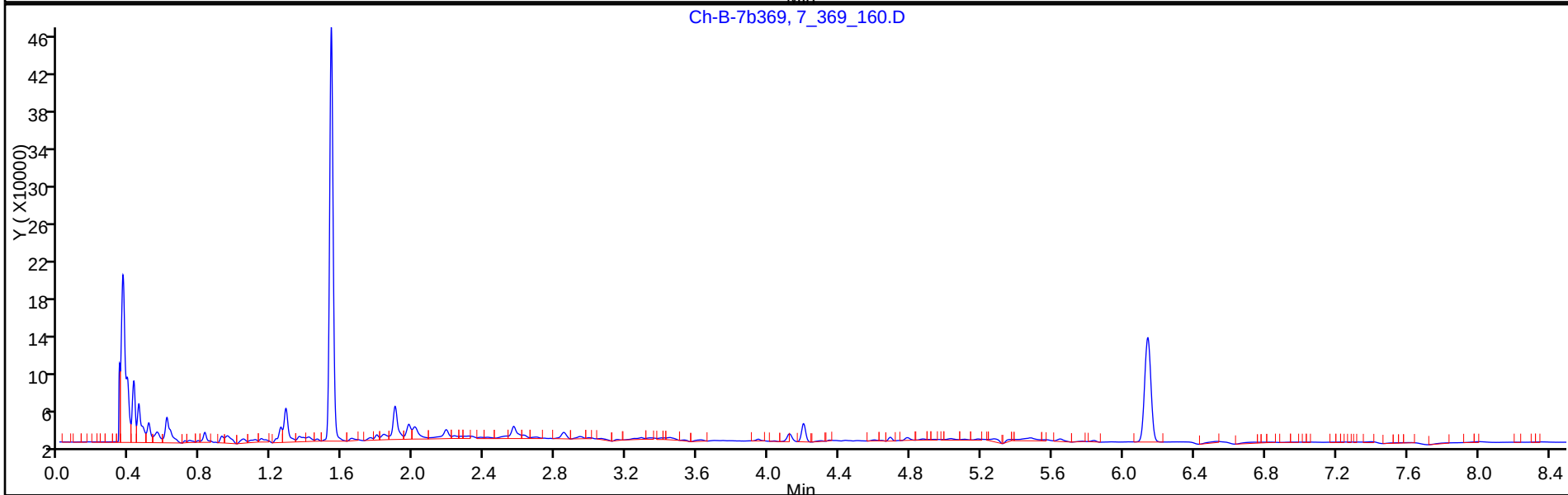
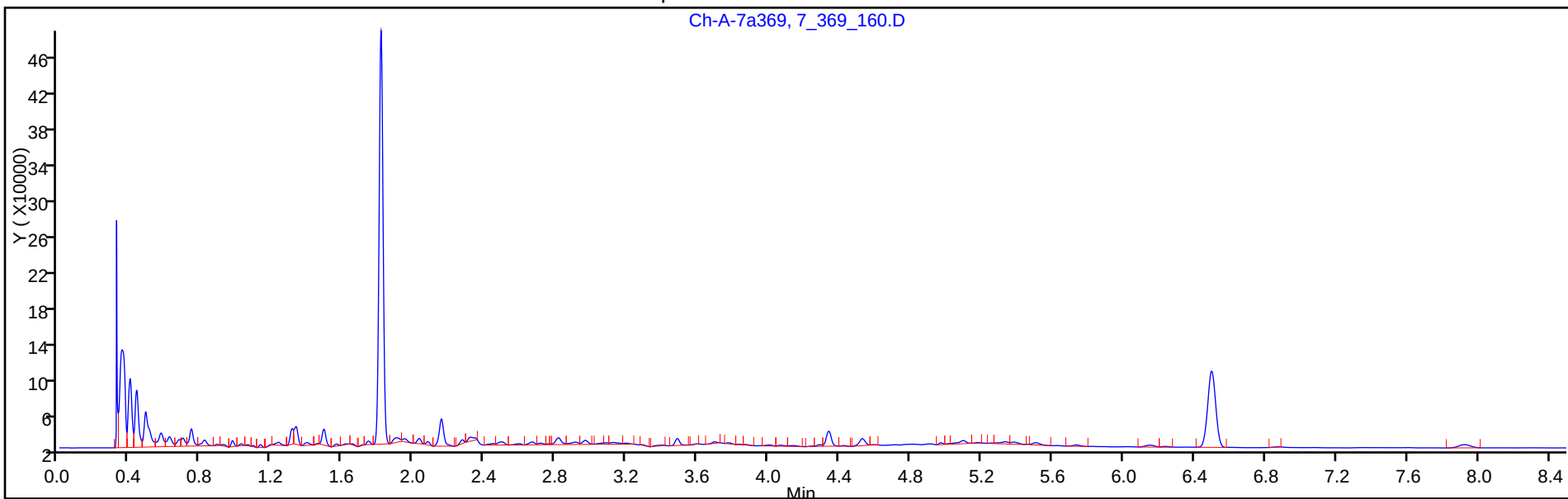
Injection Vol: 1.0 ul

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.: 480-79126-1

SDG No.: _____

Client Sample ID: NPPRS Lab Sample ID: 480-79126-10

Matrix: Water Lab File ID: 7_369_161.D

Analysis Method: 8082A Date Collected: 04/23/2015 08:15

Extraction Method: 3510C Date Extracted: 04/25/2015 09:38

Sample wt/vol: 250 (mL) Date Analyzed: 04/27/2015 18:14

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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.50	U	0.50	0.18
11104-28-2	PCB-1221	0.50	U	0.50	0.18
11141-16-5	PCB-1232	0.50	U	0.50	0.18
53469-21-9	PCB-1242	0.50	U	0.50	0.18
12672-29-6	PCB-1248	0.50	U	0.50	0.18
11097-69-1	PCB-1254	0.50	U	0.50	0.25
11096-82-5	PCB-1260	0.50	U	0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	50		19-125
877-09-8	Tetrachloro-m-xylene	82		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_161.D
 Lims ID: 480-79126-A-10-A Lab Sample ID: 480-79126-10
 Client ID: NPPRS
 Sample Type: Client
 Inject. Date: 27-Apr-2015 18:14:59 ALS Bottle#: 0 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 13:47:36 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 13:47:36

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	756613	0.0167
2	1.534	1.535	-0.001	645699	0.0164

RPD = 1.71

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.500	0.002	260996	0.008857
2	6.139	6.141	-0.002	270263	0.0099

RPD = 11.28

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_161.D

Injection Date: 27-Apr-2015 18:14:59

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-10-A

Lab Sample ID: 480-79126-10

Worklist Smp#: 33

Client ID: NPPRS

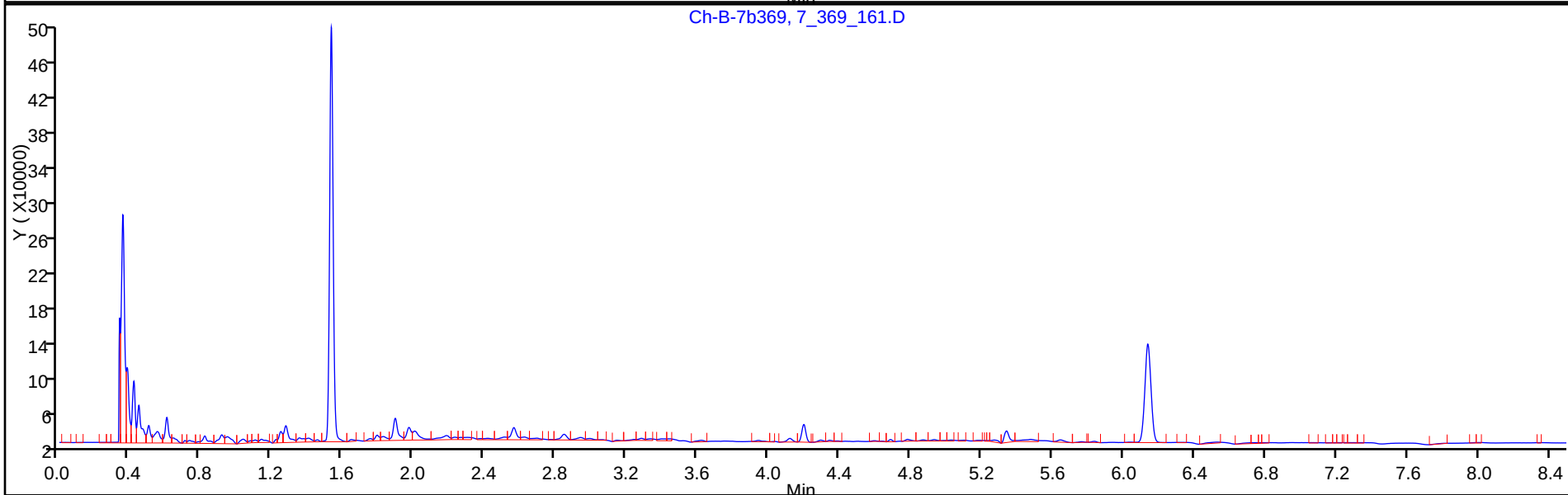
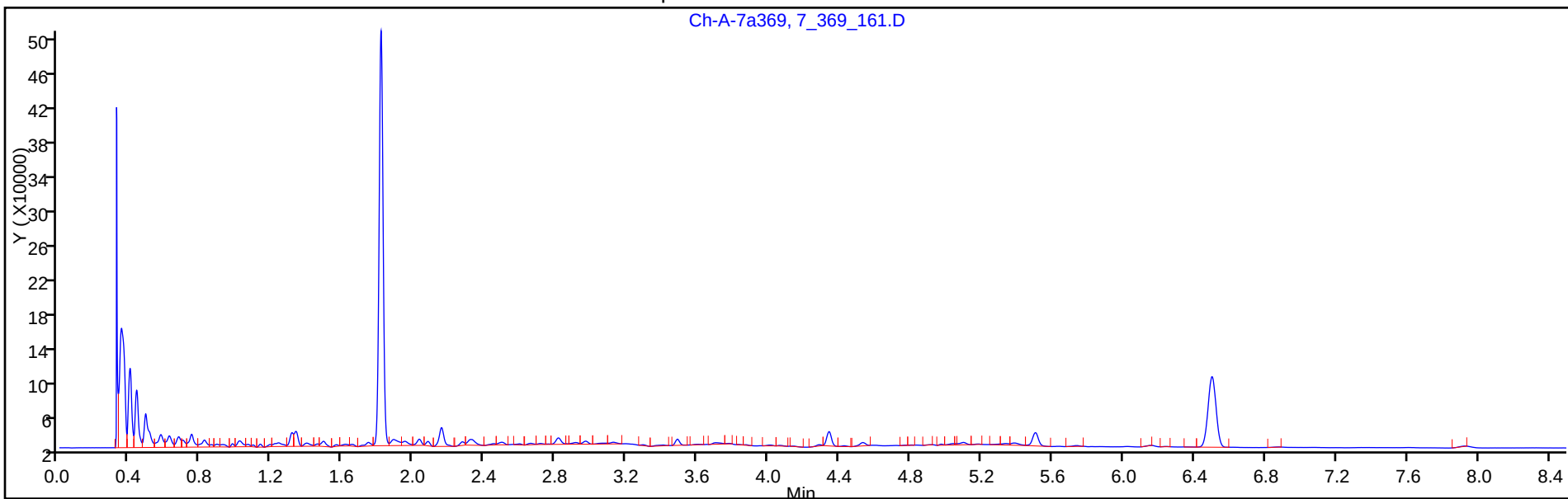
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Client Sample ID: SPPRS Lab Sample ID: 480-79126-11
 Matrix: Water Lab File ID: 7_369_162.D
 Analysis Method: 8082A Date Collected: 04/23/2015 08:25
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 250 (mL) Date Analyzed: 04/27/2015 18:30
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.50	U	0.50	0.18
11104-28-2	PCB-1221	0.50	U	0.50	0.18
11141-16-5	PCB-1232	0.50	U	0.50	0.18
53469-21-9	PCB-1242	0.50	U	0.50	0.18
12672-29-6	PCB-1248	0.50	U	0.50	0.18
11097-69-1	PCB-1254	0.50	U	0.50	0.25
11096-82-5	PCB-1260	0.50	U	0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	75		19-125
877-09-8	Tetrachloro-m-xylene	82		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_162.D
 Lims ID: 480-79126-A-11-A Lab Sample ID: 480-79126-11
 Client ID: SPPRS
 Sample Type: Client
 Inject. Date: 27-Apr-2015 18:30:48 ALS Bottle#: 0 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 13:48:26 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 13:48:26

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

\$ 3 Tetrachloro-m-xylene

1	1.814	1.815	-0.001	762728	0.0169
2	1.533	1.535	-0.002	645582	0.0164

RPD = 2.54

\$ 12 DCB Decachlorobiphenyl

1	6.499	6.500	-0.001	406677	0.0138
2	6.139	6.141	-0.002	411169	0.0151

RPD = 8.89

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_162.D

Injection Date: 27-Apr-2015 18:30:48

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-11-A

Lab Sample ID: 480-79126-11

Worklist Smp#: 34

Client ID: SPPRS

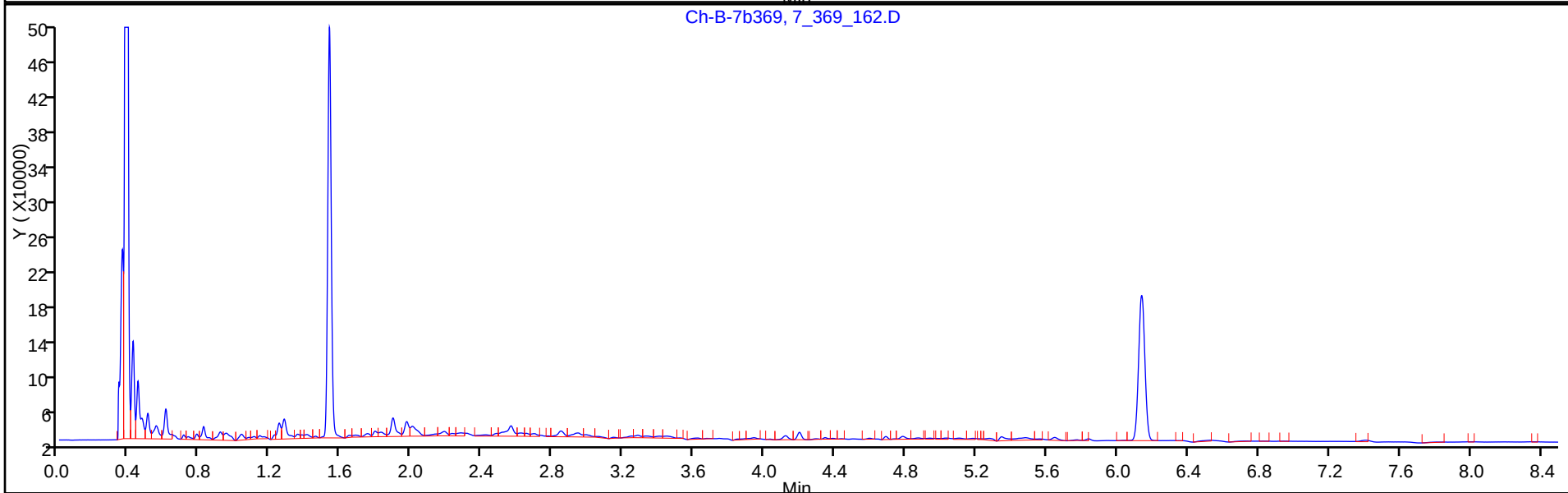
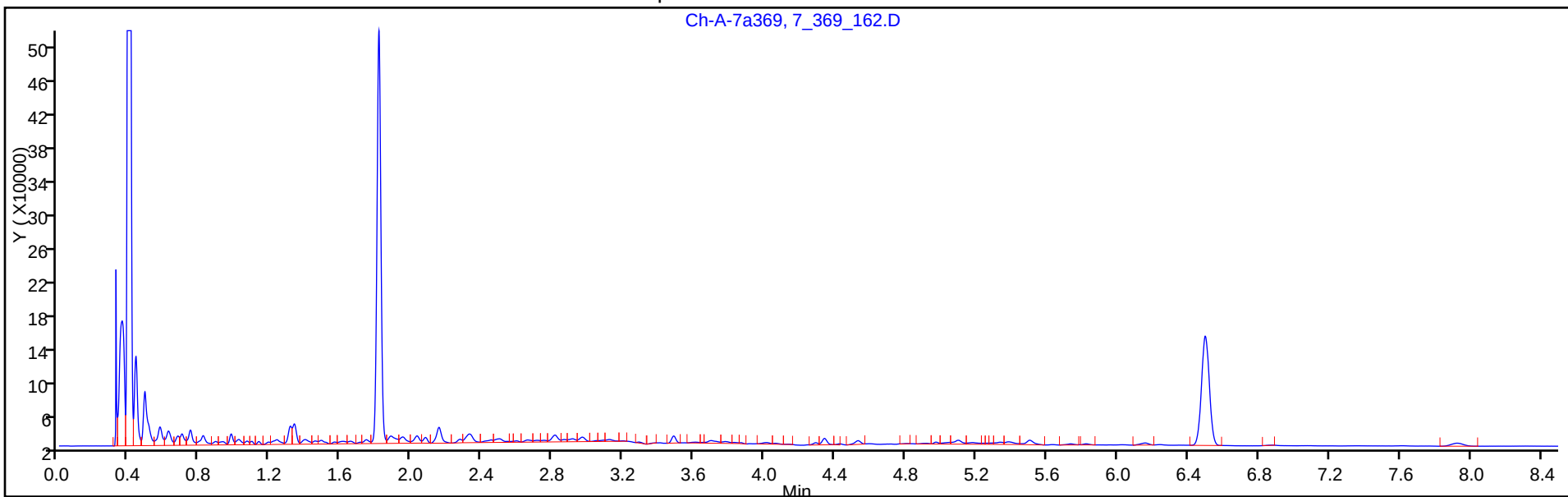
Injection Vol: 1.0 ul

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.: 480-79126-1

SDG No.: _____

Client Sample ID: LEACHATE Lab Sample ID: 480-79126-12

Matrix: Water Lab File ID: 7_369_163.D

Analysis Method: 8082A Date Collected: 04/23/2015 08:20

Extraction Method: 3510C Date Extracted: 04/25/2015 09:38

Sample wt/vol: 250 (mL) Date Analyzed: 04/27/2015 18:46

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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.50	U	0.50	0.18
11104-28-2	PCB-1221	0.50	U	0.50	0.18
11141-16-5	PCB-1232	0.50	U	0.50	0.18
53469-21-9	PCB-1242	0.50	U	0.50	0.18
12672-29-6	PCB-1248	0.50	U	0.50	0.18
11097-69-1	PCB-1254	0.50	U	0.50	0.25
11096-82-5	PCB-1260	0.50	U	0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	63		19-125
877-09-8	Tetrachloro-m-xylene	82		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_163.D
 Lims ID: 480-79126-A-12-A Lab Sample ID: 480-79126-12
 Client ID: LEACHATE
 Sample Type: Client
 Inject. Date: 27-Apr-2015 18:46:35 ALS Bottle#: 0 Worklist Smp#: 35
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 13:49:12 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 13:49:12

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

\$ 3 Tetrachloro-m-xylene

1	1.814	1.815	-0.001	760539	0.0168	
2	1.533	1.535	-0.002	646454	0.0165	
RPD = 2.11						

\$ 12 DCB Decachlorobiphenyl

1	6.499	6.500	-0.001	406411	0.0138	
2	6.140	6.141	-0.001	341497	0.0125	
RPD = 9.60						

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_163.D

Injection Date: 27-Apr-2015 18:46:35

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-12-A

Lab Sample ID: 480-79126-12

Worklist Smp#: 35

Client ID: LEACHATE

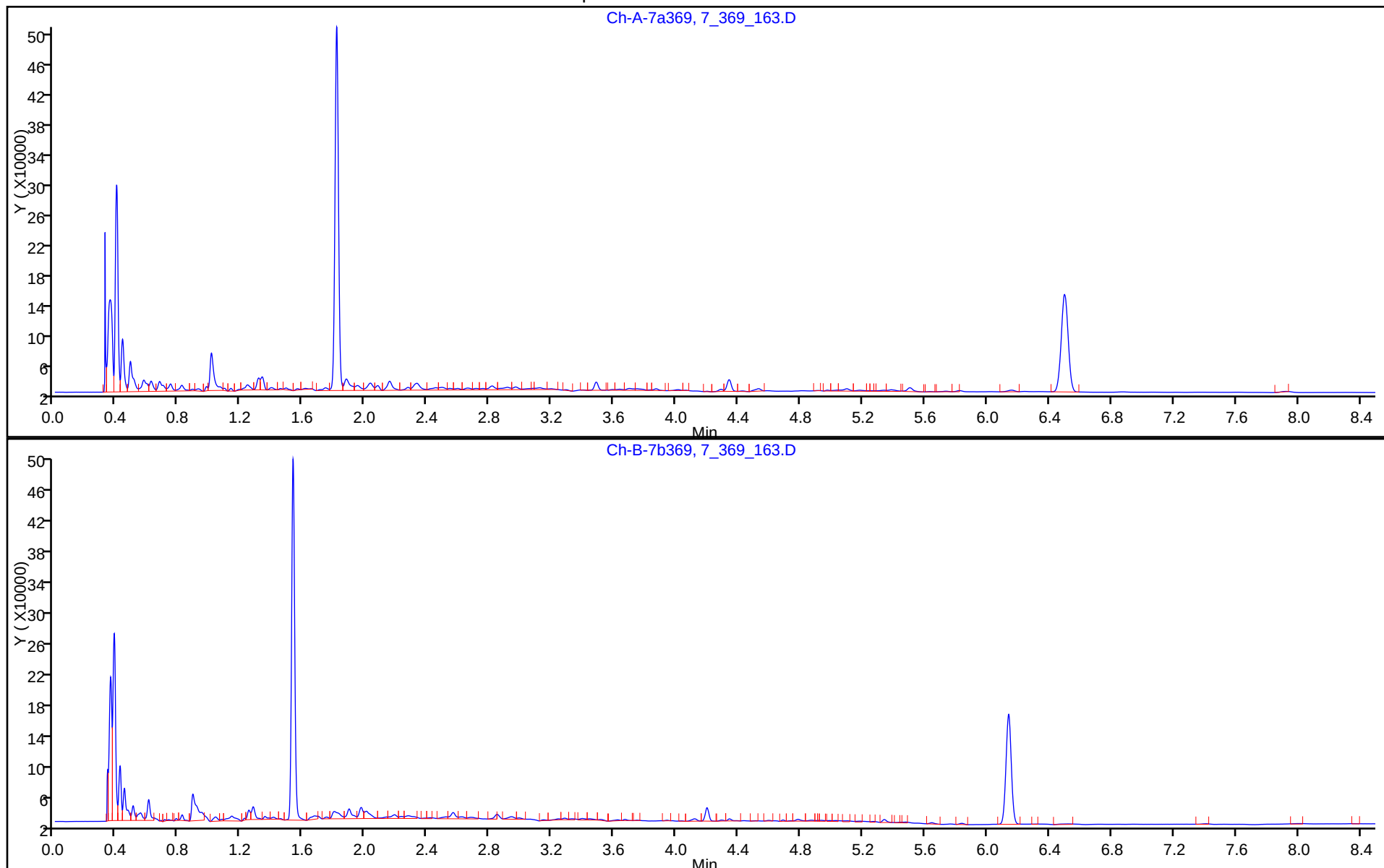
Injection Vol: 1.0 ul

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 15:28 Calibration End Date: 02/24/2015 17:03 Calibration ID: 22198

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/7	7_363_226.D
Level 2	STD2 480-228096/6	7_363_225.D
Level 3	STD3 480-228096/5	7_363_224.D
Level 4	STD4 480-228096/4	7_363_223.D
Level 5	STD5 480-228096/3	7_363_222.D
Level 6	STD6 480-228096/2	7_363_221.D
Level 7	STD7 480-228096/1	7_363_220.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.773	2.771	2.771	2.773	2.772	2.773	2.775				2.743 - 2.803	2.773
PCB-1016 Peak 2	2.856	2.855	2.855	2.855	2.855	2.855	2.857				2.826 - 2.886	2.855
PCB-1016 Peak 3	2.915	2.915	2.915	2.914	2.915	2.915	2.918				2.885 - 2.945	2.915
PCB-1016 Peak 4	3.304	3.305	3.305	3.305	3.304	3.304	3.308				3.274 - 3.334	3.305
PCB-1260 Peak 1	4.742	4.742	4.742	4.741	4.742	4.742	4.744				4.712 - 4.772	4.742
PCB-1260 Peak 2	4.928	4.929	4.929	4.928	4.928	4.929	4.933				4.898 - 4.958	4.929
PCB-1260 Peak 3	5.132	5.133	5.134	5.133	5.133	5.133	5.137				5.102 - 5.162	5.134
PCB-1260 Peak 4	5.368	5.370	5.370	5.368	5.369	5.371	5.373				5.338 - 5.398	5.370
Tetrachloro-m-xylene	1.865	1.865	1.865	1.865	1.865	1.865	1.867				1.835 - 1.895	1.865
DCB Decachlorobiphenyl		6.616	6.618	6.615	6.615	6.616	6.620				6.558 - 6.678	6.617

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 15:28 Calibration End Date: 02/24/2015 17:03 Calibration ID: 22198

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/7	7_363_226.D
Level 2	STD2 480-228096/6	7_363_225.D
Level 3	STD3 480-228096/5	7_363_224.D
Level 4	STD4 480-228096/4	7_363_223.D
Level 5	STD5 480-228096/3	7_363_222.D
Level 6	STD6 480-228096/2	7_363_221.D
Level 7	STD7 480-228096/1	7_363_220.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	3906650 2968598	3447800 2569581	3233690 2782751	3081710	Ave		3141539.93				14.0		20.0			
PCB-1016 Peak 2	1648900 1121972	1404700 974052	1285210 1044666	1191950	Ave		1238778.50				19.0		20.0			
PCB-1016 Peak 3	1084950 748202	948840 582455	870440 707093	805795	Ave		821110.714				20.0		20.0			
PCB-1016 Peak 4	1425750 981294	1226780 839408	1127990 931381	1045825	Ave		1082632.57				18.0		20.0			
PCB-1260 Peak 1	1919400 1311456	1632600 1252245	1478070 1279211	1371790	Ave		1463538.86				16.0		20.0			
PCB-1260 Peak 2	1775950 1235464	1541300 1185579	1387090 1203343	1290510	Ave		1374176.57				16.0		20.0			
PCB-1260 Peak 3	3889700 3008720	3466720 2922844	3211850 2937357	3066030	Ave		3214745.86				11.0		20.0			
PCB-1260 Peak 4	1981450 1400312	1731720 1350905	1561680 1365413	1461735	Ave		1550459.21				15.0		20.0			
Tetrachloro-m-xylene	68824000 51251360	61062400 42222960	56678800 47447680	53549000	Lin	16591.0353	46228886.3							0.9960		0.9900
DCB Decachlorobiphenyl		40285600 28193200	35543600 26203120	31668000	Lin	24158.9668	25233201.4							1.0000		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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 15:28 Calibration End Date: 02/24/2015 17:03 Calibration ID: 22198

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/7	7_363_226.D
Level 2	STD2 480-228096/6	7_363_225.D
Level 3	STD3 480-228096/5	7_363_224.D
Level 4	STD4 480-228096/4	7_363_223.D
Level 5	STD5 480-228096/3	7_363_222.D
Level 6	STD6 480-228096/2	7_363_221.D
Level 7	STD7 480-228096/1	7_363_220.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	78133 2569581	172390 5565501	323369	616342	1484299	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	32978 974052	70235 2089331	128521	238390	560986	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	21699 582455	47442 1414186	87044	161159	374101	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	28515 839408	61339 1862762	112799	209165	490647	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	38388 1252245	81630 2558422	147807	274358	655728	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	35519 1185579	77065 2406686	138709	258102	617732	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	77794 2922844	173336 5874714	321185	613206	1504360	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	39629 1350905	86586 2730825	156168	292347	700156	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Lin	34412 1055574	76328 2372384	141697	267745	640642	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Lin	50357 655078	50357 1281949	88859	158340	352415	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\20150224-39815.b\7_363_220.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 24-Feb-2015 15:28:32 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:37 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj

Date: 26-Feb-2015 15:33:14

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

\$ 3 Tetrachloro-m-xylene

1	1.867	1.865	0.002	2372384	0.0500	0.0510	
2	1.577	1.578	-0.001	1668581	0.0500	0.0503	

RPD = 1.33

6 PCB-1016

1	2.775	2.773	0.002	5565501	2.00	1.77	a
1	2.857	2.856	0.001	2089331	2.00	1.69	a
1	2.918	2.915	0.003	1414186	2.00	1.72	a
1	3.308	3.304	0.004	1862762	2.00	1.72	a

Average of Peak Amounts = 1.73

2	2.475	2.475	0.000	1138306	2.00	1.64	
2	2.579	2.579	0.000	4610136	2.00	1.76	
2	2.784	2.783	0.001	1103618	2.00	1.66	
2	3.060	3.060	0.000	2093274	2.00	1.73	a

Average of Peak Amounts = 1.70

RPD = 1.61

9 PCB-1260

1	4.744	4.742	0.002	2558422	2.00	1.75	
1	4.933	4.928	0.004	2406686	2.00	1.75	
1	5.137	5.132	0.005	5874714	2.00	1.83	
1	5.373	5.368	0.004	2730825	2.00	1.76	

Average of Peak Amounts = 1.77

2	4.735	4.733	0.003	2543463	2.00	1.92	
2	4.802	4.801	0.001	1858944	2.00	1.88	
2	4.874	4.873	0.002	6224882	2.00	2.01	
2	5.207	5.204	0.003	3690185	2.00	1.96	

Average of Peak Amounts = 1.94

RPD = 9.28

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_220.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.620	6.618	0.002	1281949	0.0500	0.0498
2	6.239	6.237	0.002	1248888	0.0500	0.0500

RPD = 0.25

Reagents:

AR1660 2.0ng_00006

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_220.D

Injection Date: 24-Feb-2015 15:28:32

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD7

Worklist Smp#: 1

Client ID:

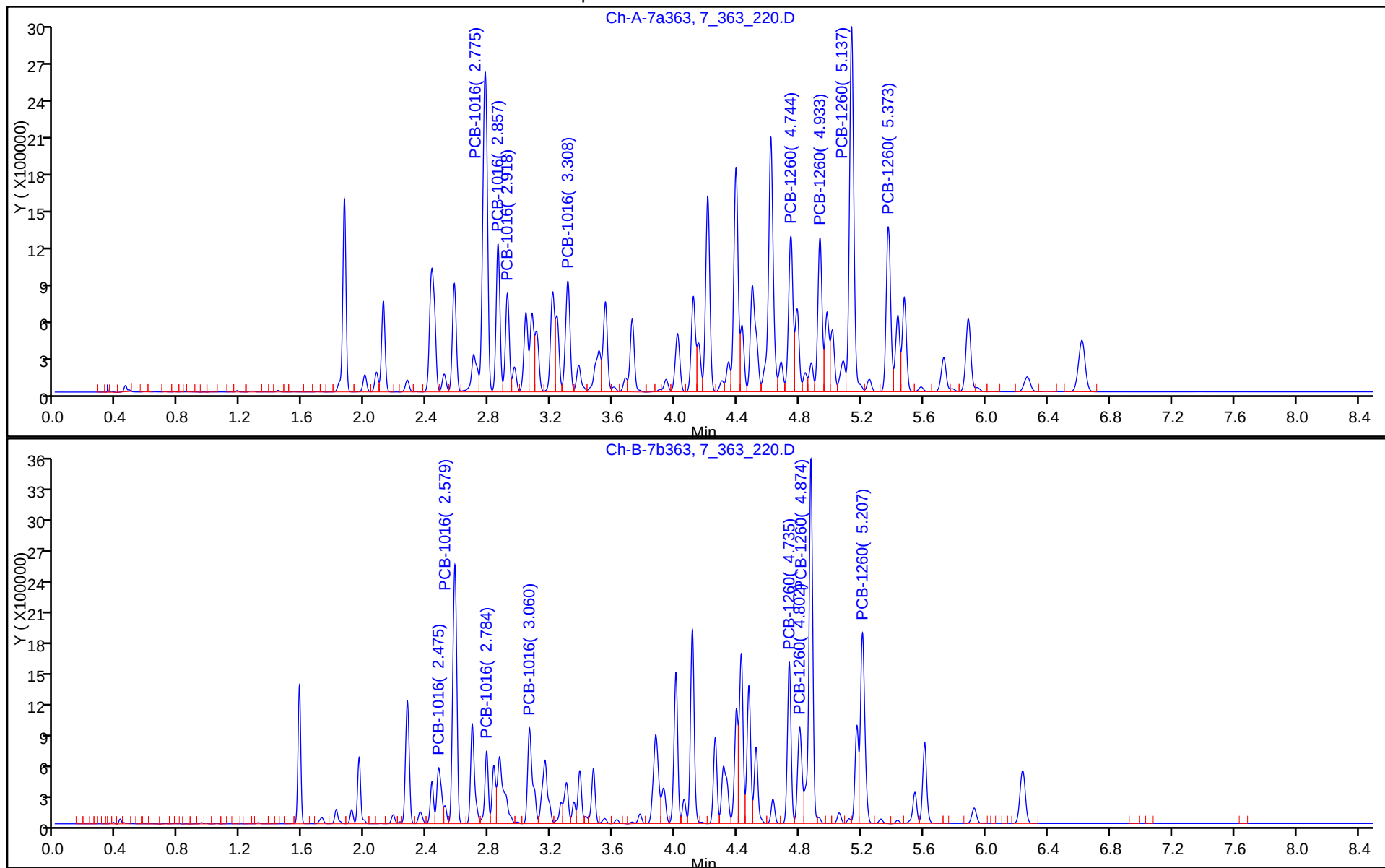
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_221.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 24-Feb-2015 15:44:23 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:34 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: sobolk Date: 24-Feb-2015 17:32:40

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	1055574	0.0250	0.0225	
2	1.578	1.578	0.000	799895	0.0250	0.0237	
						RPD = 5.31	

6 PCB-1016

1	2.773	2.773	-0.001	2569581	1.00	0.8179	
1	2.855	2.856	-0.001	974052	1.00	0.7863	
1	2.915	2.915	0.000	582455	1.00	0.7094	
1	3.304	3.304	0.000	839408	1.00	0.7753	
Average of Peak Amounts =						0.7722	
2	2.475	2.475	0.000	514333	1.00	0.7403	
2	2.579	2.579	0.000	2139548	1.00	0.8188	
2	2.785	2.783	0.002	476849	1.00	0.7163	
2	3.060	3.060	0.000	922267	1.00	0.7622	
Average of Peak Amounts =						0.7594	
						RPD = 1.67	

9 PCB-1260

1	4.742	4.742	0.000	1252245	1.00	0.8556	
1	4.929	4.928	0.001	1185579	1.00	0.8628	
1	5.133	5.132	0.001	2922844	1.00	0.9092	
1	5.371	5.368	0.003	1350905	1.00	0.8713	
Average of Peak Amounts =						0.8747	
2	4.734	4.733	0.002	1230237	1.00	0.9300	
2	4.802	4.801	0.001	907341	1.00	0.9200	
2	4.873	4.873	0.001	2990604	1.00	0.9643	
2	5.205	5.204	0.001	1780889	1.00	0.9476	
Average of Peak Amounts =						0.9405	
						RPD = 7.24	

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_221.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.616	6.618	-0.002	655078	0.0250	0.0250	
2	6.237	6.237	0.000	627604	0.0250	0.0249	

RPD = 0.55

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.50

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_221.D

Injection Date: 24-Feb-2015 15:44:23

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD6

Worklist Smp#: 2

Client ID:

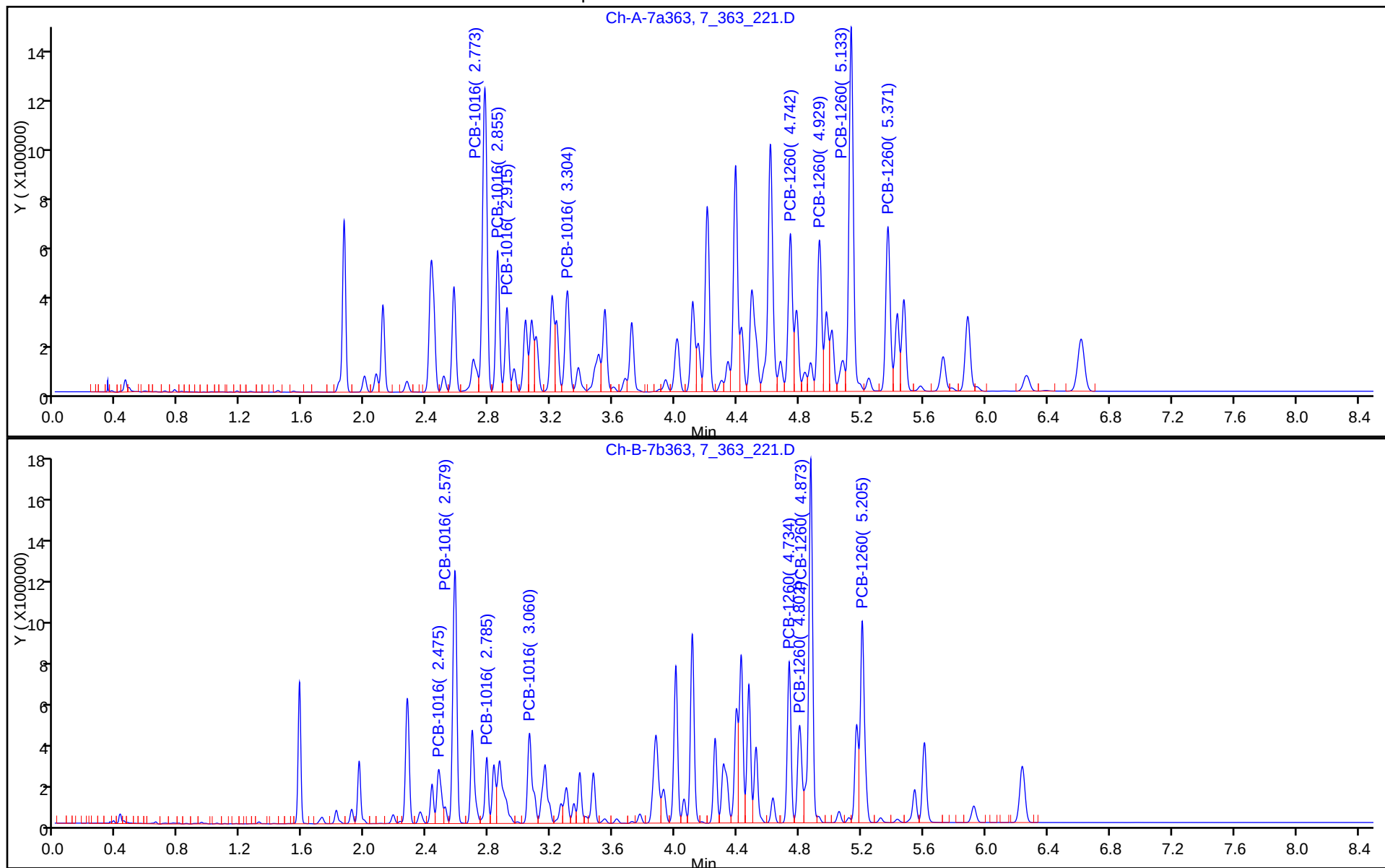
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_222.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 24-Feb-2015 16:00:23 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:32 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: sobolk

Date: 24-Feb-2015 17:28:27

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	640642	0.0125	0.0135
2	1.578	1.578	0.000	478298	0.0125	0.0139

RPD = 2.64

6 PCB-1016

1	2.772	2.773	-0.001	1484299	0.5000	0.4725
1	2.855	2.856	-0.001	560986	0.5000	0.4529
1	2.915	2.915	0.000	374101	0.5000	0.4556
1	3.304	3.304	0.000	490647	0.5000	0.4532

Average of Peak Amounts = 0.4585

2	2.475	2.475	0.000	317795	0.5000	0.4574
2	2.579	2.579	0.000	1236925	0.5000	0.4734
2	2.784	2.783	0.001	309177	0.5000	0.4644
2	3.060	3.060	0.000	558195	0.5000	0.4613

Average of Peak Amounts = 0.4641

RPD = 1.21

9 PCB-1260

1	4.742	4.742	0.000	655728	0.5000	0.4480
1	4.928	4.928	0.000	617732	0.5000	0.4495
1	5.133	5.132	0.000	1504360	0.5000	0.4680
1	5.369	5.368	0.001	700156	0.5000	0.4516

Average of Peak Amounts = 0.4543

2	4.734	4.733	0.002	632565	0.5000	0.4782
2	4.802	4.801	0.001	467435	0.5000	0.4739
2	4.873	4.873	0.001	1518286	0.5000	0.4895
2	5.206	5.204	0.002	908302	0.5000	0.4833

Average of Peak Amounts = 0.4812

RPD = 5.77

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_222.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.615	6.618	-0.003	352415	0.0125	0.0130	
2	6.238	6.237	0.001	329216	0.0125	0.0128	

RPD = 1.55

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_222.D

Injection Date: 24-Feb-2015 16:00:23

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD5

Worklist Smp#: 3

Client ID:

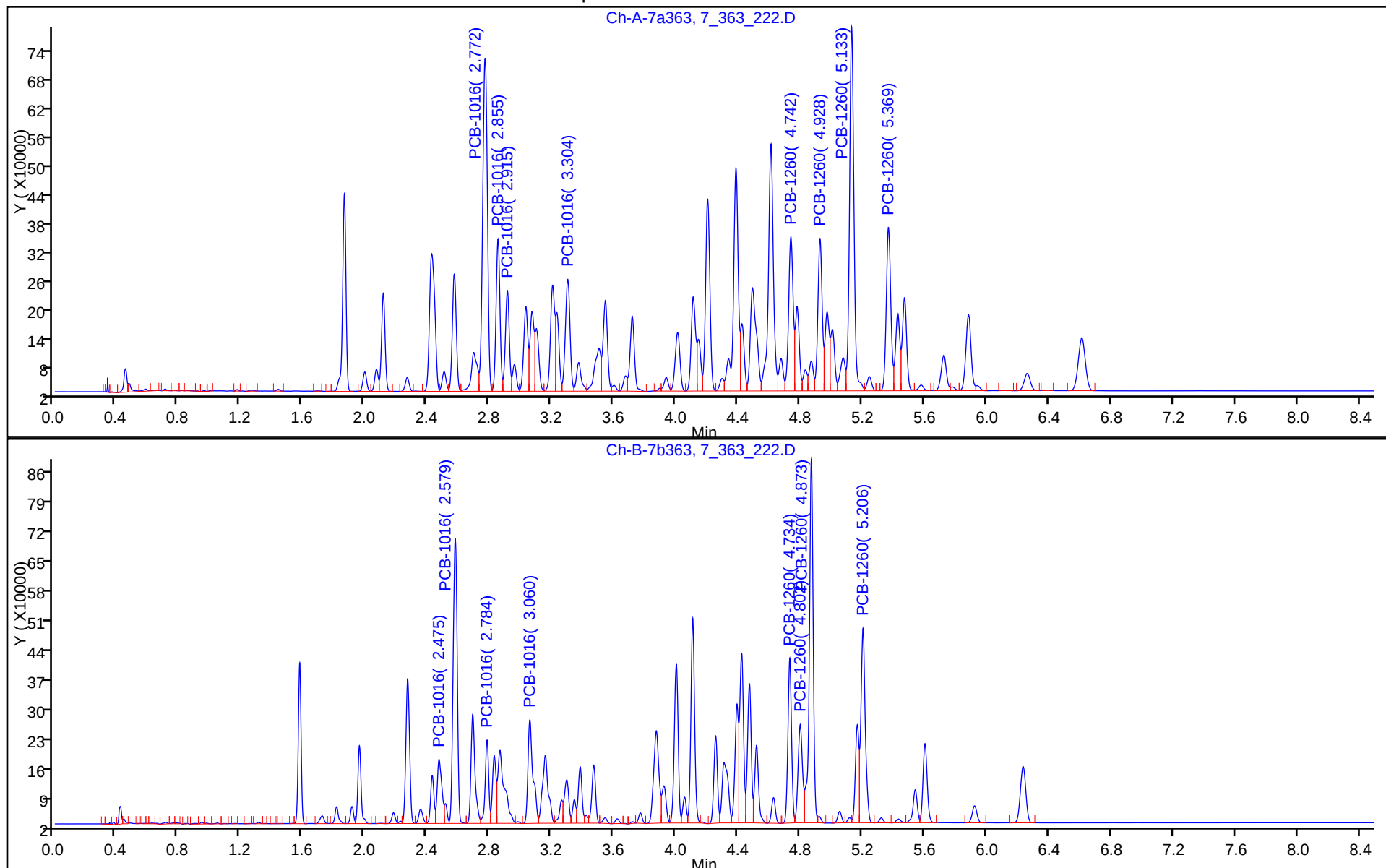
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_223.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 24-Feb-2015 16:16:12 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:30 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj

Date: 25-Feb-2015 10:29:37

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	267745	0.005000	0.005433	
2	1.578	1.578	0.000	199876	0.005000	0.005340	
RPD = 1.72							

6 PCB-1016

1	2.773	2.773	-0.001	616342	0.2000	0.1962	
1	2.855	2.856	-0.001	238390	0.2000	0.1924	
1	2.914	2.915	-0.001	161159	0.2000	0.1963	
1	3.305	3.304	0.001	209165	0.2000	0.1932	
Average of Peak Amounts =							0.1945
2	2.475	2.475	0.000	136786	0.2000	0.1969	
2	2.579	2.579	0.000	513378	0.2000	0.1965	
2	2.784	2.783	0.001	132256	0.2000	0.1987	
2	3.060	3.060	0.000	236596	0.2000	0.1955	
Average of Peak Amounts =							0.1969
RPD = 1.21							

9 PCB-1260

1	4.741	4.742	-0.001	274358	0.2000	0.1875	
1	4.928	4.928	0.000	258102	0.2000	0.1878	
1	5.133	5.132	0.000	613206	0.2000	0.1907	
1	5.368	5.368	0.000	292347	0.2000	0.1886	
Average of Peak Amounts =							0.1886
2	4.733	4.733	0.001	249442	0.2000	0.1886	
2	4.801	4.801	0.000	187243	0.2000	0.1898	
2	4.873	4.873	0.001	587333	0.2000	0.1894	
2	5.205	5.204	0.001	354186	0.2000	0.1885	
Average of Peak Amounts =							0.1891
RPD = 0.22							

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_223.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.615	6.618	-0.003	158340	0.005000	0.005318
2	6.236	6.237	-0.001	141184	0.005000	0.005211

RPD = 2.03

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.10

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_223.D

Injection Date: 24-Feb-2015 16:16:12

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD4

Worklist Smp#: 4

Client ID:

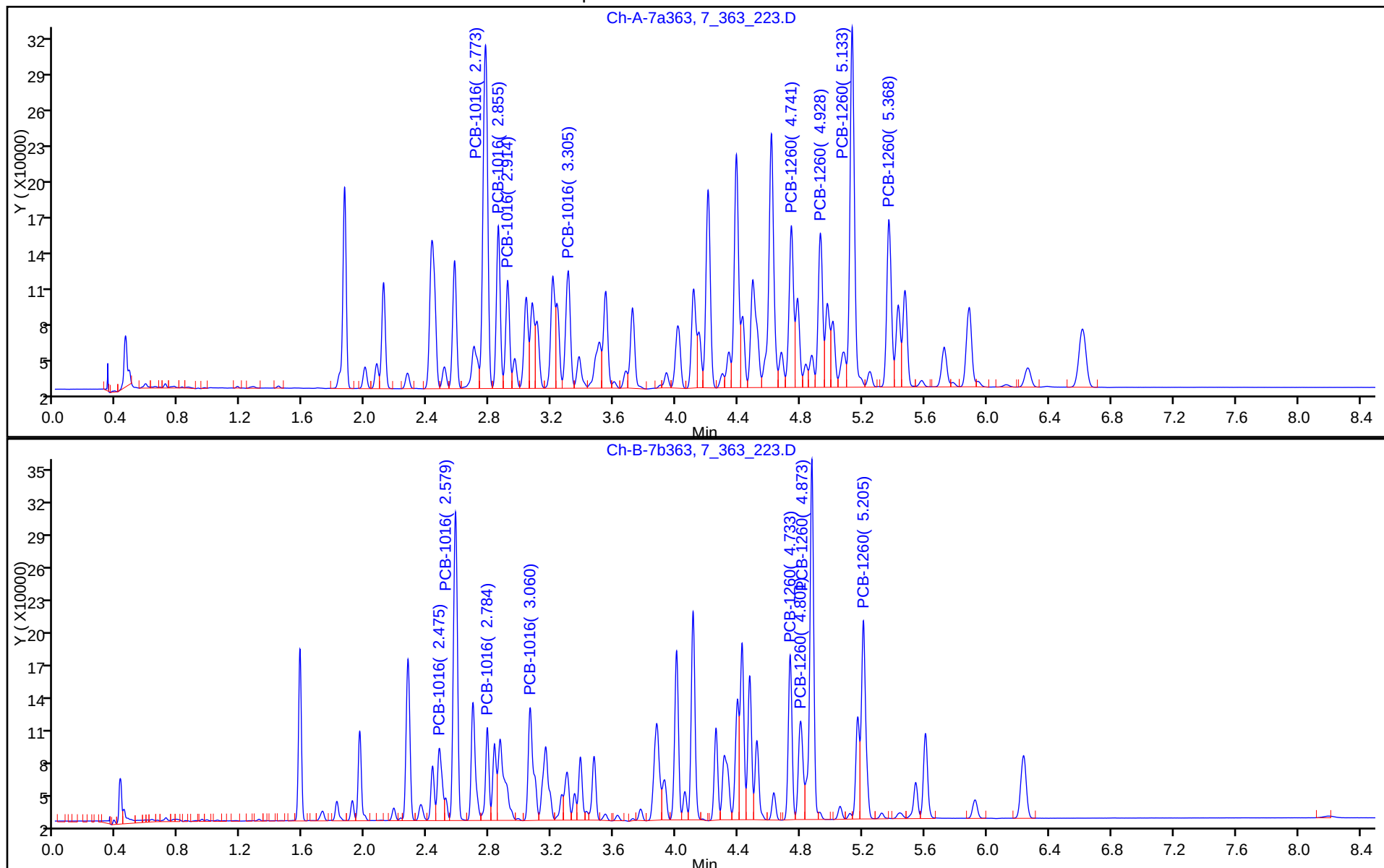
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_224.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 16:32:02 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:21 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj Date: 25-Feb-2015 10:30:07

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	141697	0.002500	0.002706	
2	1.578	1.578	0.000	107420	0.002500	0.002511	
RPD = 7.48							

6 PCB-1016

1	2.771	2.773	-0.002	323369	0.1000	0.1029	
1	2.855	2.856	-0.001	128521	0.1000	0.1037	
1	2.915	2.915	0.000	87044	0.1000	0.1060	
1	3.305	3.304	0.001	112799	0.1000	0.1042	
Average of Peak Amounts =							0.1042
2	2.476	2.475	0.001	74158	0.1000	0.1067	
2	2.580	2.579	0.001	270012	0.1000	0.1033	
2	2.784	2.783	0.001	71692	0.1000	0.1077	
2	3.060	3.060	0.000	127562	0.1000	0.1054	
Average of Peak Amounts =							0.1058
RPD = 1.50							

9 PCB-1260

1	4.742	4.742	0.000	147807	0.1000	0.1010	
1	4.929	4.928	0.001	138709	0.1000	0.1009	
1	5.134	5.132	0.002	321185	0.1000	0.0999	
1	5.370	5.368	0.002	156168	0.1000	0.1007	
Average of Peak Amounts =							0.1006
2	4.733	4.733	0.001	131548	0.1000	0.0994	
2	4.802	4.801	0.001	98368	0.1000	0.0997	
2	4.873	4.873	0.000	304178	0.1000	0.0981	M
2	5.204	5.204	0.000	182407	0.1000	0.0971	
Average of Peak Amounts =							0.0986
RPD = 2.07							

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_224.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.618	6.618	0.000	88859	0.002500	0.002564	
2	6.236	6.237	-0.001	74636	0.002500	0.002522	

RPD = 1.66

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.05

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_224.D

Injection Date: 24-Feb-2015 16:32:02

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 5

Client ID:

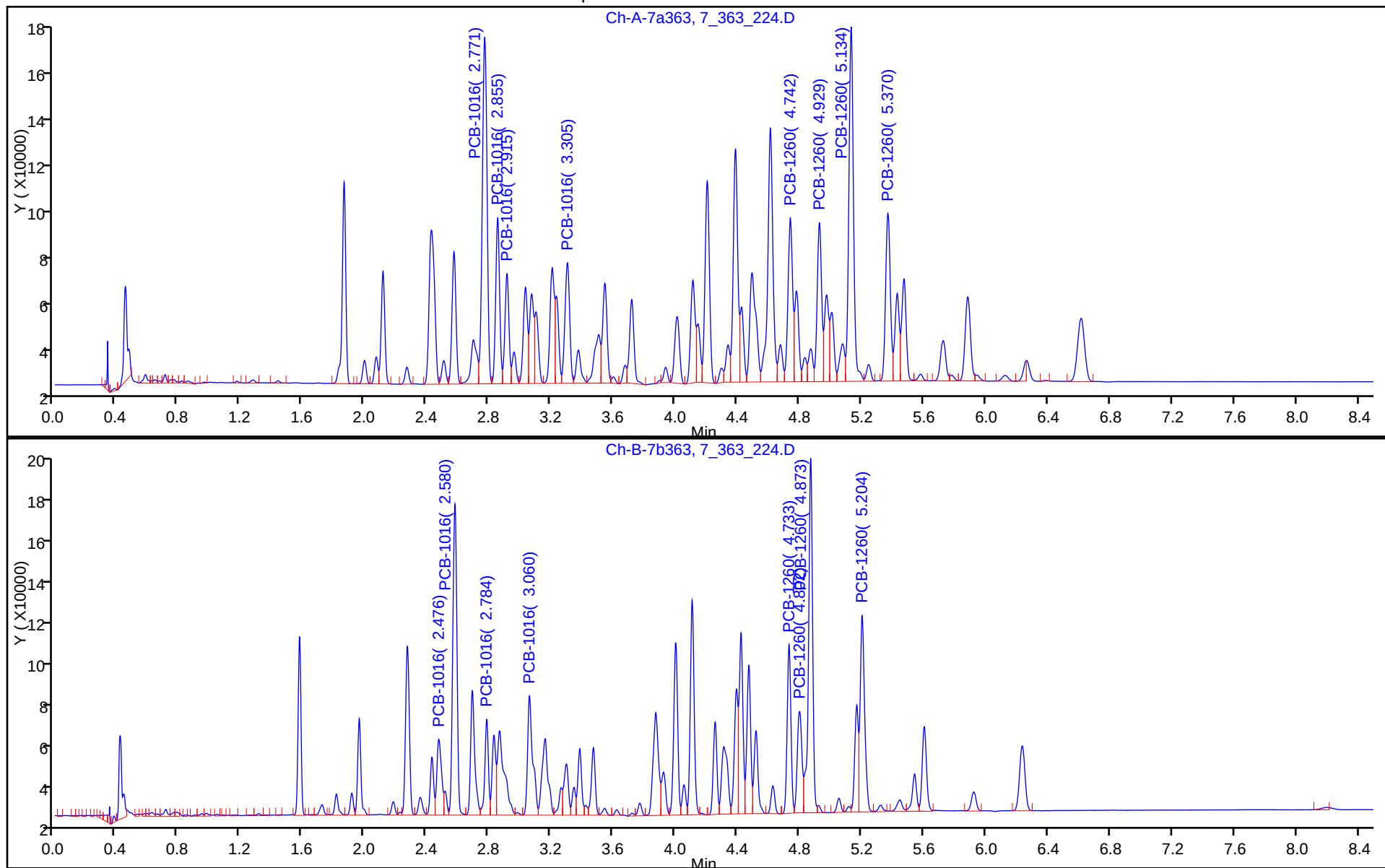
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 16:47:50 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:26 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj Date: 25-Feb-2015 10:31:46

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

\$ 3 Tetrachloro-m-xylene M
 1 1.865 1.865 0.000 76328 0.001250 0.001292 M
 2 1.578 1.578 0.000 58196 0.001250 0.001005
 RPD = 25.03

6 PCB-1016 M
 1 2.771 2.773 -0.002 172390 0.0500 0.0549
 1 2.855 2.856 -0.001 70235 0.0500 0.0567
 1 2.915 2.915 0.000 47442 0.0500 0.0578
 1 3.305 3.304 0.001 61339 0.0500 0.0567
 Average of Peak Amounts = 0.0565
 2 2.475 2.475 0.000 40334 0.0500 0.0581 M
 2 2.580 2.579 0.001 143616 0.0500 0.0550
 2 2.784 2.783 0.001 38103 0.0500 0.0572
 2 3.060 3.060 0.000 68151 0.0500 0.0563
 Average of Peak Amounts = 0.0566
 RPD = 0.25

9 PCB-1260 M
 1 4.742 4.742 0.000 81630 0.0500 0.0558 M
 1 4.929 4.928 0.001 77065 0.0500 0.0561 M
 1 5.133 5.132 0.000 173336 0.0500 0.0539 M
 1 5.370 5.368 0.002 86586 0.0500 0.0558 M
 Average of Peak Amounts = 0.0554
 2 4.733 4.733 0.000 69627 0.0500 0.0526
 2 4.801 4.801 0.000 52185 0.0500 0.0529
 2 4.873 4.873 0.001 157868 0.0500 0.0509 M
 2 5.205 5.204 0.001 97767 0.0500 0.0520
 Average of Peak Amounts = 0.0521
 RPD = 6.12

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.616	6.618	-0.002	50357	0.001250	0.001038	
2	6.237	6.237	0.000	40223	0.001250	0.001131	

RPD = 8.57

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.03

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D

Injection Date: 24-Feb-2015 16:47:50

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 6

Client ID:

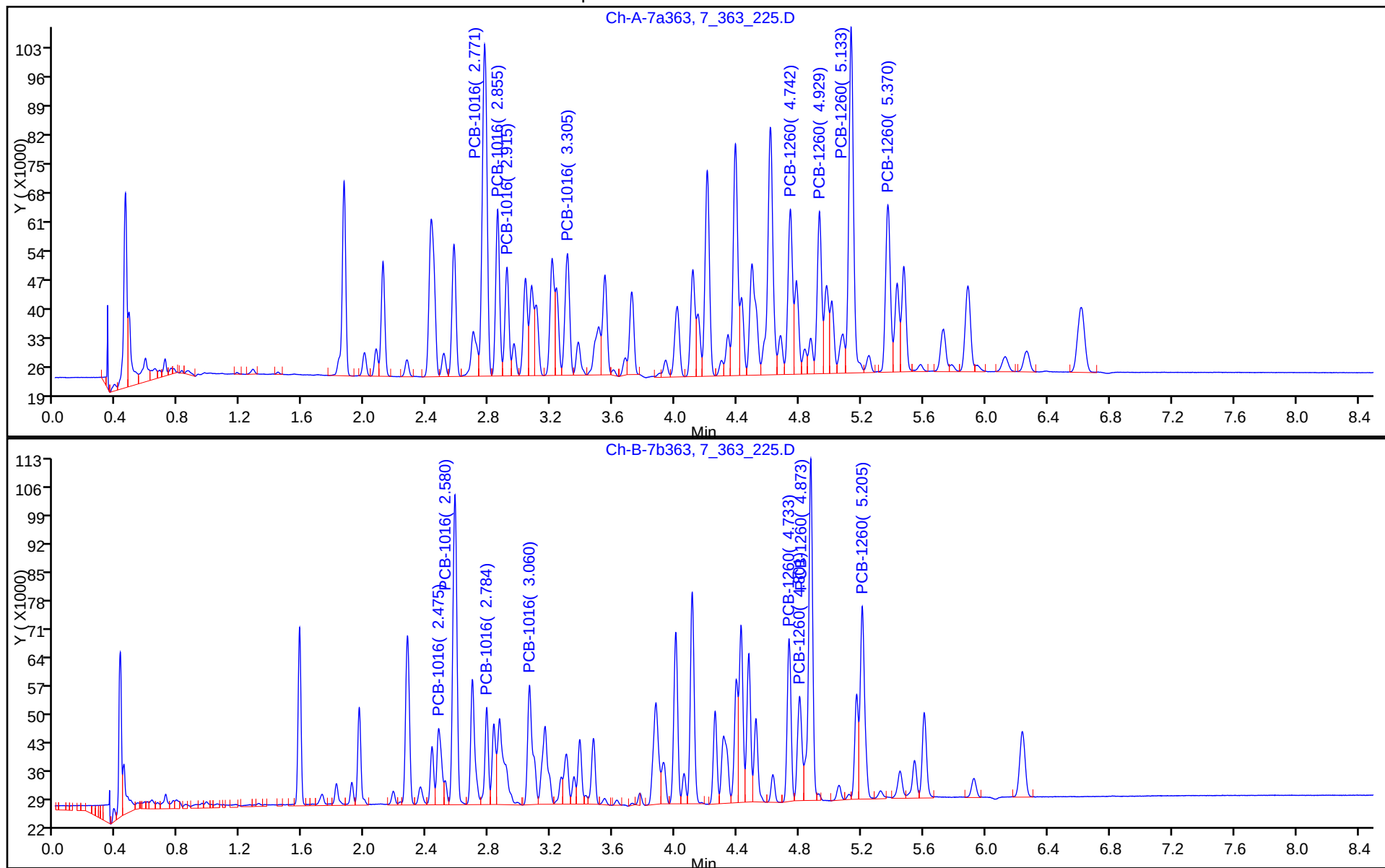
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



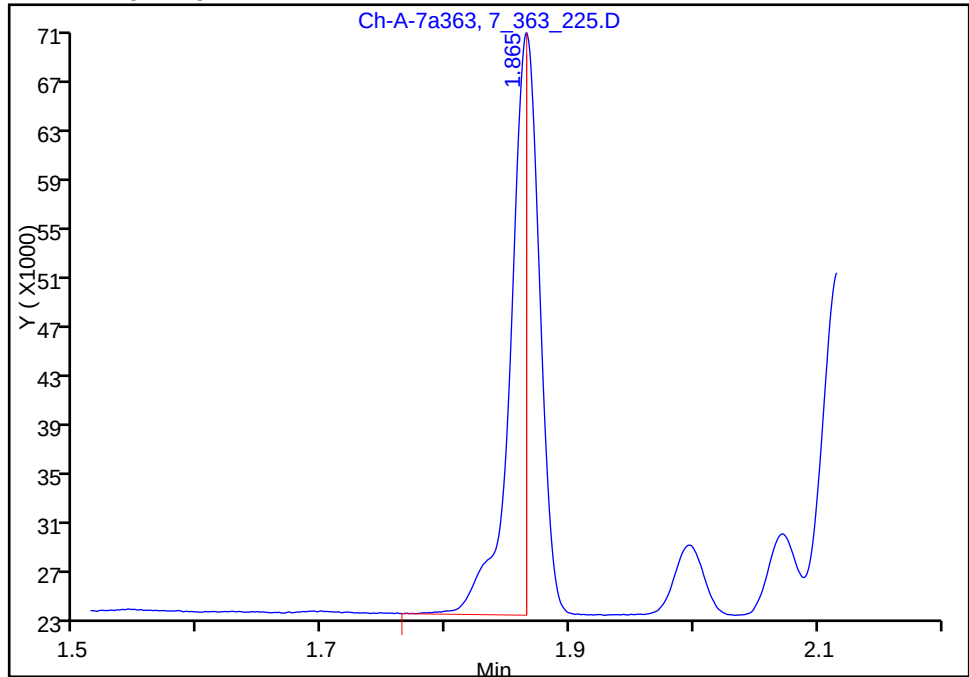
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D
Injection Date: 24-Feb-2015 16:47:50 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

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

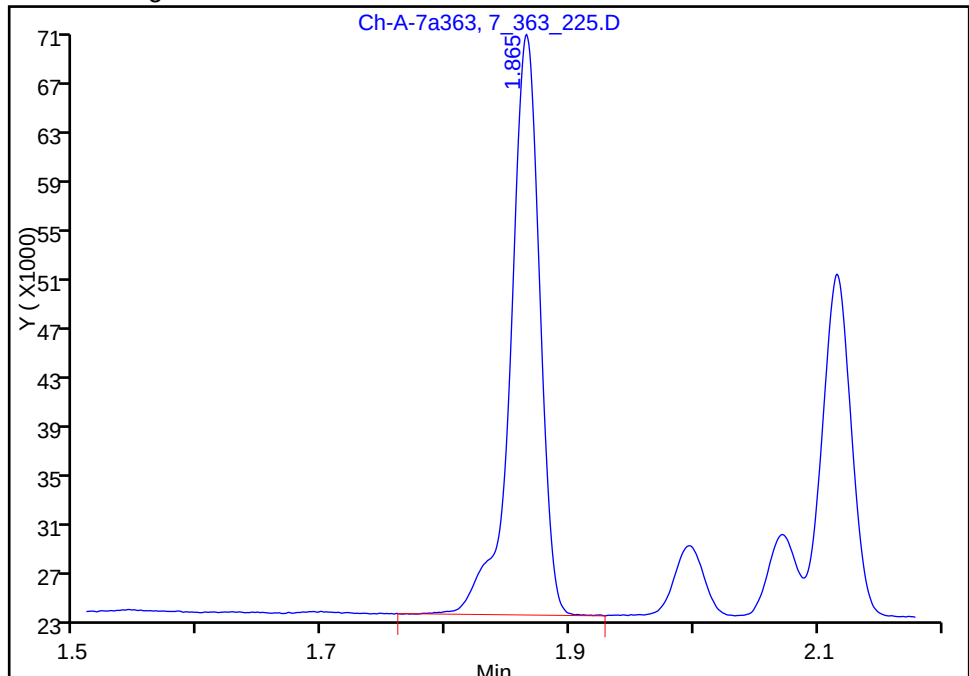
RT: 1.87
Area: 42088
Amount: 0.000833
Amount Units: ng/uL

Processing Integration Results



RT: 1.87
Area: 76328
Amount: 0.001292
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 02-Mar-2015 12:31:08
Audit Action: Marked Compound Undetected
Audit Reason:

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D

Injection Date: 24-Feb-2015 16:47:50

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

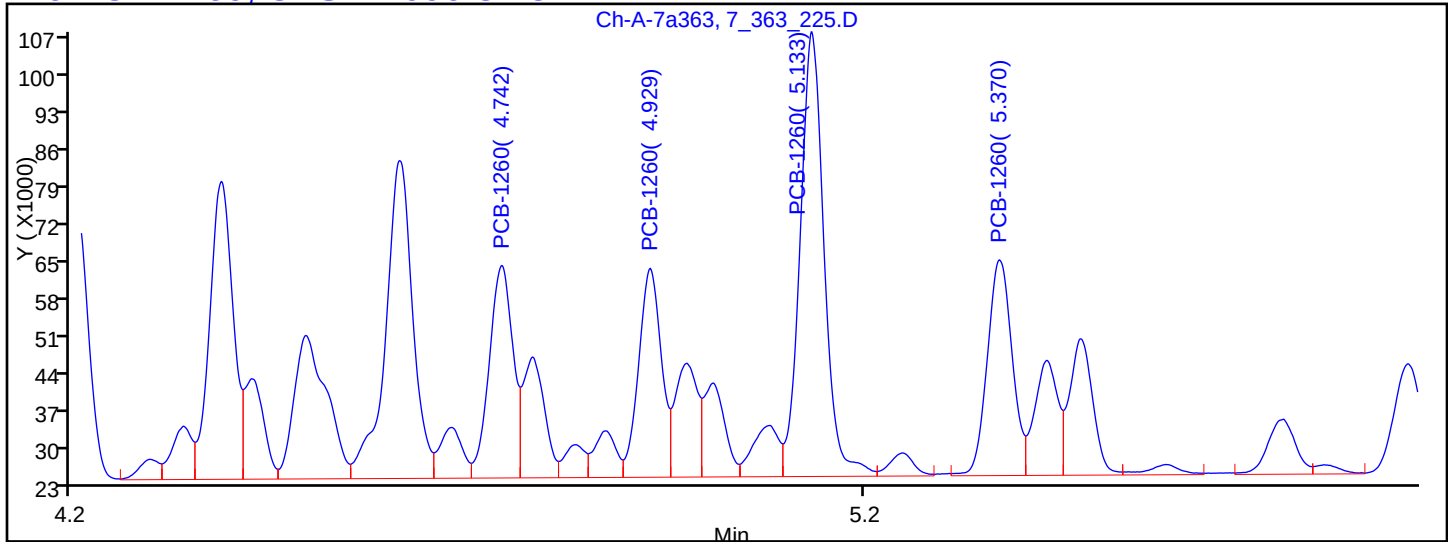
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

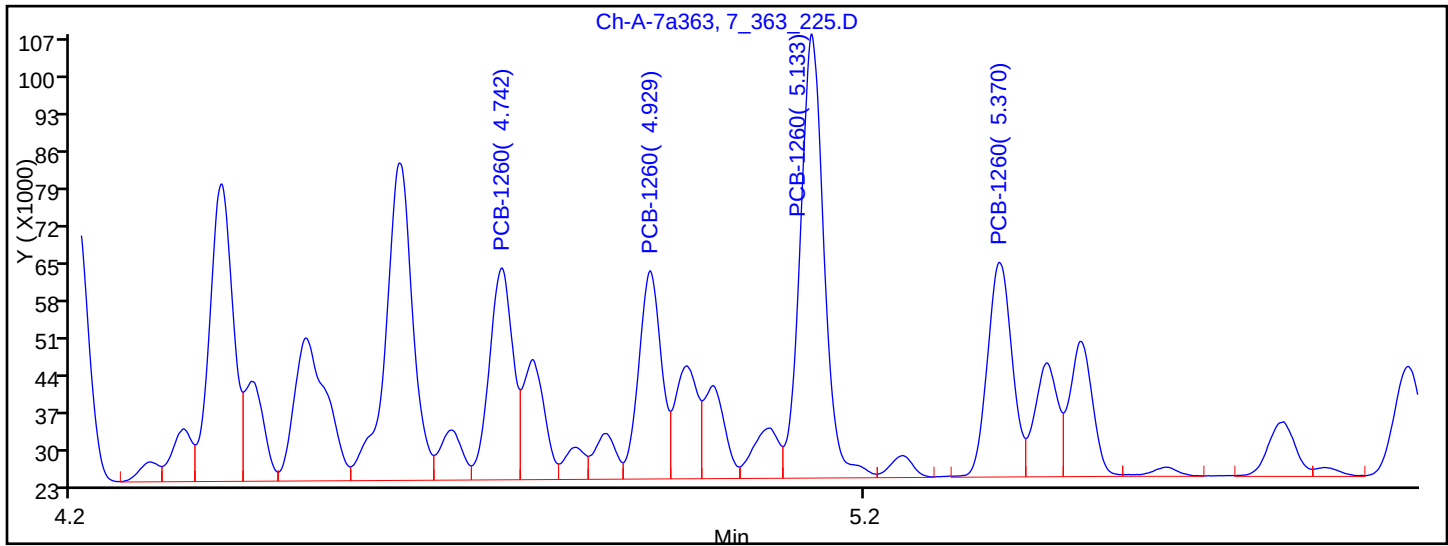
Column:

Detector Ch-A-7A136

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

Processing Integration Results

RT = 4.742	Response = 82168	M
RT = 4.929	Response = 77675	M
RT = 5.133	Response = 174752	M
RT = 5.370	Response = 87846	M



Manual Integration Results

RT = 4.742	Response = 81630	M
RT = 4.929	Response = 77065	M
RT = 5.133	Response = 173336	M
RT = 5.370	Response = 86586	M

Reviewer: sobolk, 26-Feb-2015 11:32:57

Audit Action: Assigned New Baseline

Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_226.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 17:03:51 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:24 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj Date: 25-Feb-2015 16:57:37

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	34412	0.000500	0.000385	
2	1.578	1.578	0.000	26877	0.000500	0.00004635	
							RPD = 157.07

6 PCB-1016

1	2.773	2.773	0.000	78133	0.0200	0.0249	
1	2.856	2.856	0.000	32978	0.0200	0.0266	
1	2.915	2.915	0.000	21699	0.0200	0.0264	
1	3.304	3.304	0.000	28515	0.0200	0.0263	
Average of Peak Amounts =							0.0261
2	2.475	2.475	0.000	18244	0.0200	0.0263	
2	2.579	2.579	0.000	64664	0.0200	0.0247	
2	2.783	2.783	0.000	17454	0.0200	0.0262	
2	3.060	3.060	0.000	31256	0.0200	0.0258	
Average of Peak Amounts =							0.0258
							RPD = 1.16

9 PCB-1260

1	4.742	4.742	0.000	38388	0.0200	0.0262	M
1	4.928	4.928	0.000	35519	0.0200	0.0258	M
1	5.132	5.132	0.000	77794	0.0200	0.0242	M
1	5.368	5.368	0.000	39629	0.0200	0.0256	
Average of Peak Amounts =							0.0255
2	4.733	4.733	0.000	30741	0.0200	0.0232	
2	4.801	4.801	0.000	23374	0.0200	0.0237	
2	4.873	4.873	0.000	68691	0.0200	0.0221	
2	5.204	5.204	0.000	43262	0.0200	0.0230	
Average of Peak Amounts =							0.0230
							RPD = 10.03

\$ 12 DCB Decachlorobiphenyl

1	6.618						

ND ND(<0)
Page 107 of 385

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_226.D

Injection Date: 24-Feb-2015 17:03:51

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 7

Client ID:

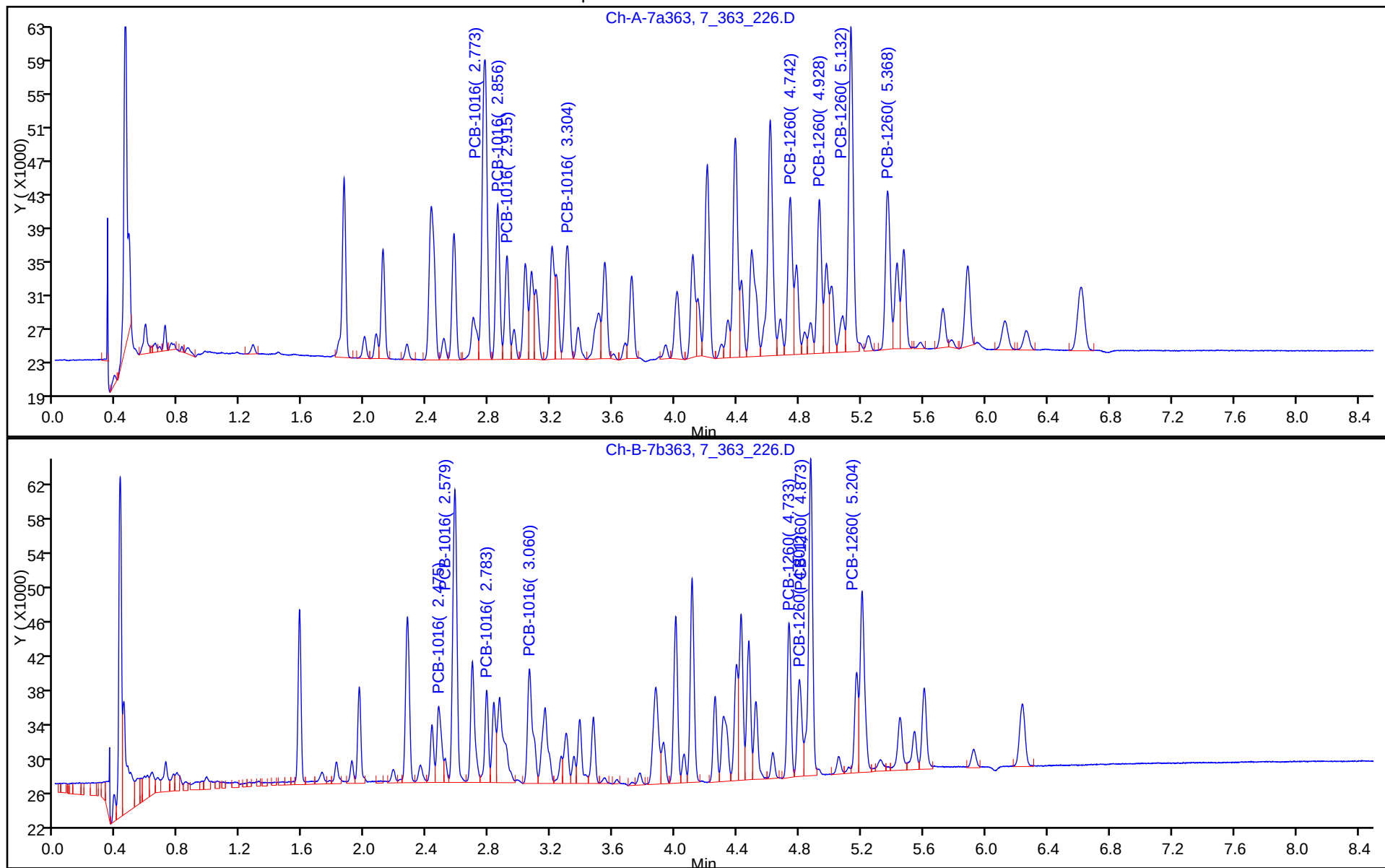
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_226.D

Injection Date: 24-Feb-2015 17:03:51

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

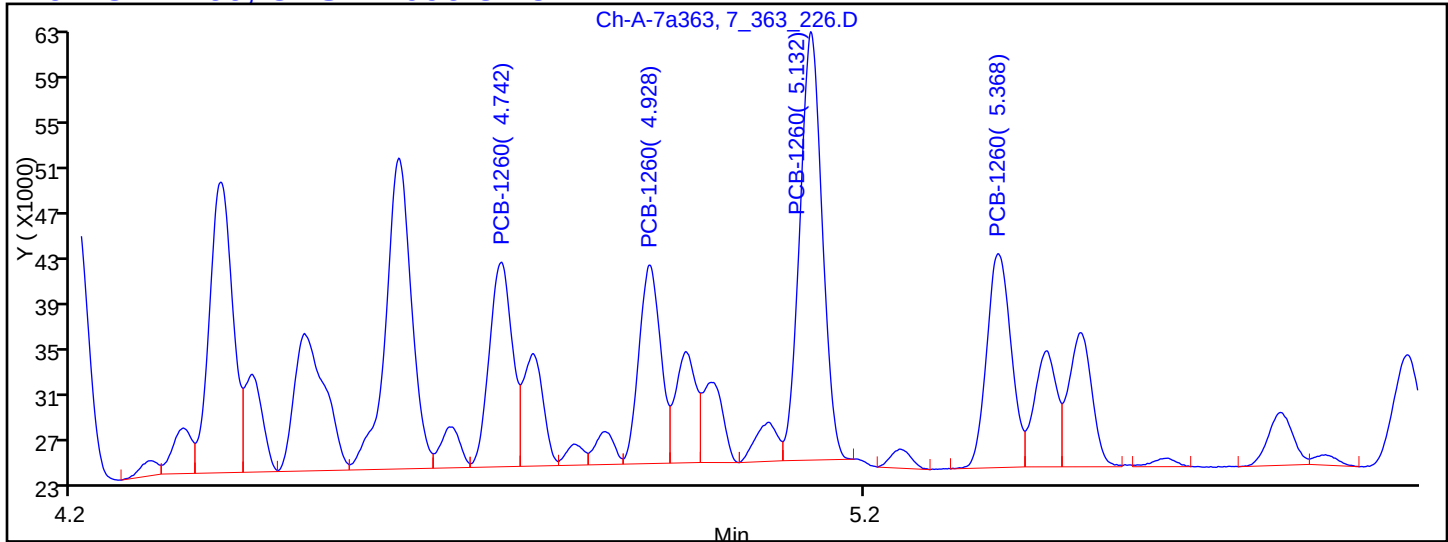
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

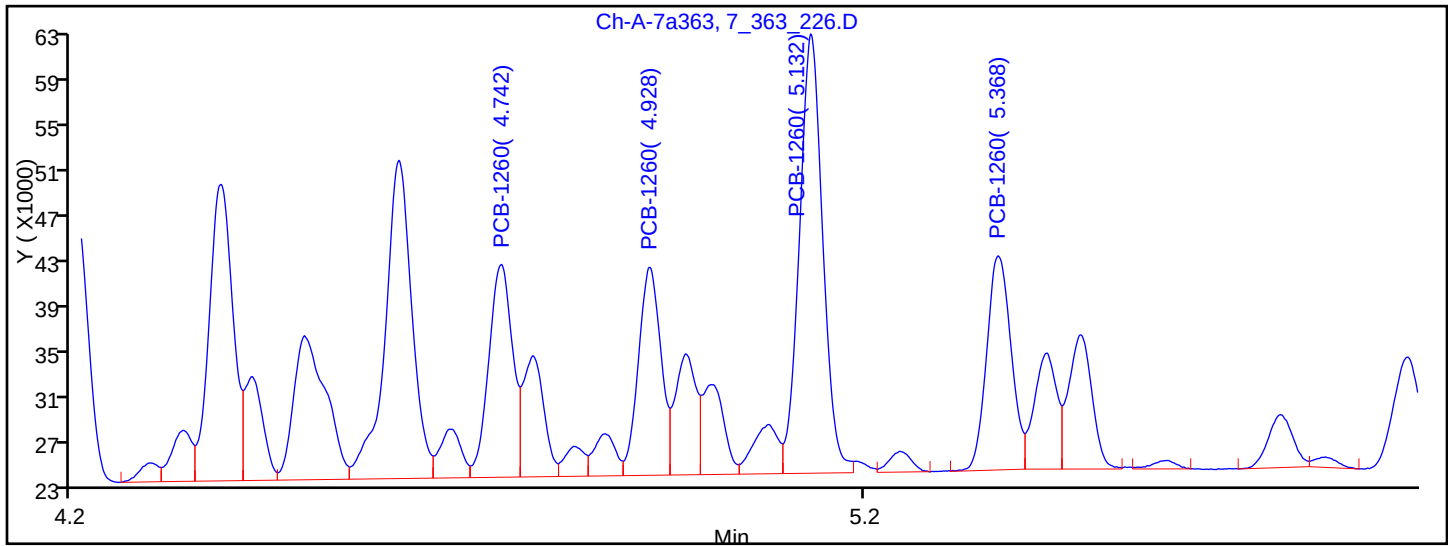
Column:

Detector Ch-A-7A136

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

Processing Integration Results

RT = 4.742	Response = 35714	M
RT = 4.928	Response = 32627	M
RT = 5.132	Response = 72765	M
RT = 5.368	Response = 39629	



Manual Integration Results

RT = 4.742	Response = 38388	M
RT = 4.928	Response = 35519	M
RT = 5.132	Response = 77794	M
RT = 5.368	Response = 39629	

Reviewer: larsonj, 25-Feb-2015 16:57:37

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 15:28 Calibration End Date: 02/24/2015 17:03 Calibration ID: 22199

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/7	7_363_226.D
Level 2	STD2 480-228096/6	7_363_225.D
Level 3	STD3 480-228096/5	7_363_224.D
Level 4	STD4 480-228096/4	7_363_223.D
Level 5	STD5 480-228096/3	7_363_222.D
Level 6	STD6 480-228096/2	7_363_221.D
Level 7	STD7 480-228096/1	7_363_220.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7				RT WINDOW	AVG RT
PCB-1016 Peak 1	2.475	2.475	2.476	2.475	2.475	2.475	2.475				2.445 - 2.505	2.475
PCB-1016 Peak 2	2.579	2.580	2.580	2.579	2.579	2.579	2.579				2.549 - 2.609	2.579
PCB-1016 Peak 3	2.783	2.784	2.784	2.784	2.784	2.785	2.784				2.753 - 2.813	2.784
PCB-1016 Peak 4	3.060	3.060	3.060	3.060	3.060	3.060	3.060				3.030 - 3.090	3.060
PCB-1260 Peak 1	4.733	4.733	4.733	4.733	4.734	4.734	4.735				4.703 - 4.763	4.734
PCB-1260 Peak 2	4.801	4.801	4.802	4.801	4.802	4.802	4.802				4.771 - 4.831	4.802
PCB-1260 Peak 3	4.873	4.873	4.873	4.873	4.873	4.873	4.874				4.843 - 4.903	4.873
PCB-1260 Peak 4	5.204	5.205	5.204	5.205	5.206	5.205	5.207				5.174 - 5.234	5.205
Tetrachloro-m-xylene	1.578	1.578	1.578	1.578	1.578	1.578	1.577				1.548 - 1.608	1.578
DCB Decachlorobiphenyl		6.237	6.236	6.236	6.238	6.237	6.239				6.177 - 6.297	6.237

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 15:28 Calibration End Date: 02/24/2015 17:03 Calibration ID: 22199

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/7	7_363_226.D
Level 2	STD2 480-228096/6	7_363_225.D
Level 3	STD3 480-228096/5	7_363_224.D
Level 4	STD4 480-228096/4	7_363_223.D
Level 5	STD5 480-228096/3	7_363_222.D
Level 6	STD6 480-228096/2	7_363_221.D
Level 7	STD7 480-228096/1	7_363_220.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	912200 635590	806680 514333	741580 569153	683930	Ave		694780.857				20.0		20.0			
PCB-1016 Peak 2	3233200 2473850	2872320 2139548	2700120 2305068	2566890	Ave		2612999.43				14.0		20.0			
PCB-1016 Peak 3	872700 618354	762060 476849	716920 551809	661280	Ave		665710.286				20.0		20.0			
PCB-1016 Peak 4	1562800 1116390	1363020 922267	1275620 1046637	1182980	Ave		1209959.14				18.0		20.0			
PCB-1260 Peak 1	1537050 1265130	1392540 1230237	1315480 1271732	1247210	Ave		1322768.36				8.2		20.0			
PCB-1260 Peak 2	1168700 934870	1043700 907341	983680 929472	936215	Ave		986282.571				9.4		20.0			
PCB-1260 Peak 3	3434550 3036572	3157360 2990604	3041780 3112441	2936665	Ave		3101424.57				5.3		20.0			
PCB-1260 Peak 4	2163100 1816604	1955340 1780889	1824070 1845093	1770930	Ave		1879432.21				7.4		20.0			
Tetrachloro-m-xylene	53754000 38263840	46556800 31995800	42968000 33371620	39975200	Lin	25362.2942	32678107.9							0.9980		0.9900
DCB Decachlorobiphenyl	32178400 26337280	29854400 25104160	28236800 24977760	28236800	Lin	12229.7793	24746703.3							1.0000		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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 15:28 Calibration End Date: 02/24/2015 17:03 Calibration ID: 22199

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/7	7_363_226.D
Level 2	STD2 480-228096/6	7_363_225.D
Level 3	STD3 480-228096/5	7_363_224.D
Level 4	STD4 480-228096/4	7_363_223.D
Level 5	STD5 480-228096/3	7_363_222.D
Level 6	STD6 480-228096/2	7_363_221.D
Level 7	STD7 480-228096/1	7_363_220.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	18244 514333	40334 1138306	74158	136786	317795	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 2	Ave	64664 2139548	143616 4610136	270012	513378	1236925	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 3	Ave	17454 476849	38103 1103618	71692	132256	309177	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1016 Peak 4	Ave	31256 922267	68151 2093274	127562	236596	558195	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 1	Ave	30741 1230237	69627 2543463	131548	249442	632565	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 2	Ave	23374 907341	52185 1858944	98368	187243	467435	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 3	Ave	68691 2990604	157868 6224882	304178	587333	1518286	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
PCB-1260 Peak 4	Ave	43262 1780889	97767 3690185	182407	354186	908302	0.0200 1.00	0.0500 2.00	0.100	0.200	0.500
Tetrachloro-m-xylene	Lin	26877 799895	58196 1668581	107420	199876	478298	0.000500 0.0250	0.00125 0.0500	0.00250	0.00500	0.0125
DCB Decachlorobiphenyl	Lin	40223 627604	1248888	74636	141184	329216	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\20150224-39815.b\7_363_220.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 24-Feb-2015 15:28:32 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:37 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj

Date: 26-Feb-2015 15:33:14

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

\$ 3 Tetrachloro-m-xylene

1	1.867	1.865	0.002	2372384	0.0500	0.0510	
2	1.577	1.578	-0.001	1668581	0.0500	0.0503	

RPD = 1.33

6 PCB-1016

1	2.775	2.773	0.002	5565501	2.00	1.77	a
1	2.857	2.856	0.001	2089331	2.00	1.69	a
1	2.918	2.915	0.003	1414186	2.00	1.72	a
1	3.308	3.304	0.004	1862762	2.00	1.72	a
Average of Peak Amounts =						1.73	
2	2.475	2.475	0.000	1138306	2.00	1.64	
2	2.579	2.579	0.000	4610136	2.00	1.76	
2	2.784	2.783	0.001	1103618	2.00	1.66	
2	3.060	3.060	0.000	2093274	2.00	1.73	a

Average of Peak Amounts = 1.70

RPD = 1.61

9 PCB-1260

1	4.744	4.742	0.002	2558422	2.00	1.75	
1	4.933	4.928	0.004	2406686	2.00	1.75	
1	5.137	5.132	0.005	5874714	2.00	1.83	
1	5.373	5.368	0.004	2730825	2.00	1.76	
Average of Peak Amounts =						1.77	
2	4.735	4.733	0.003	2543463	2.00	1.92	
2	4.802	4.801	0.001	1858944	2.00	1.88	
2	4.874	4.873	0.002	6224882	2.00	2.01	
2	5.207	5.204	0.003	3690185	2.00	1.96	

Average of Peak Amounts = 1.94

RPD = 9.28

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_220.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.620	6.618	0.002	1281949	0.0500	0.0498
2	6.239	6.237	0.002	1248888	0.0500	0.0500

RPD = 0.25

Reagents:

AR1660 2.0ng_00006

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_220.D

Injection Date: 24-Feb-2015 15:28:32

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD7

Worklist Smp#: 1

Client ID:

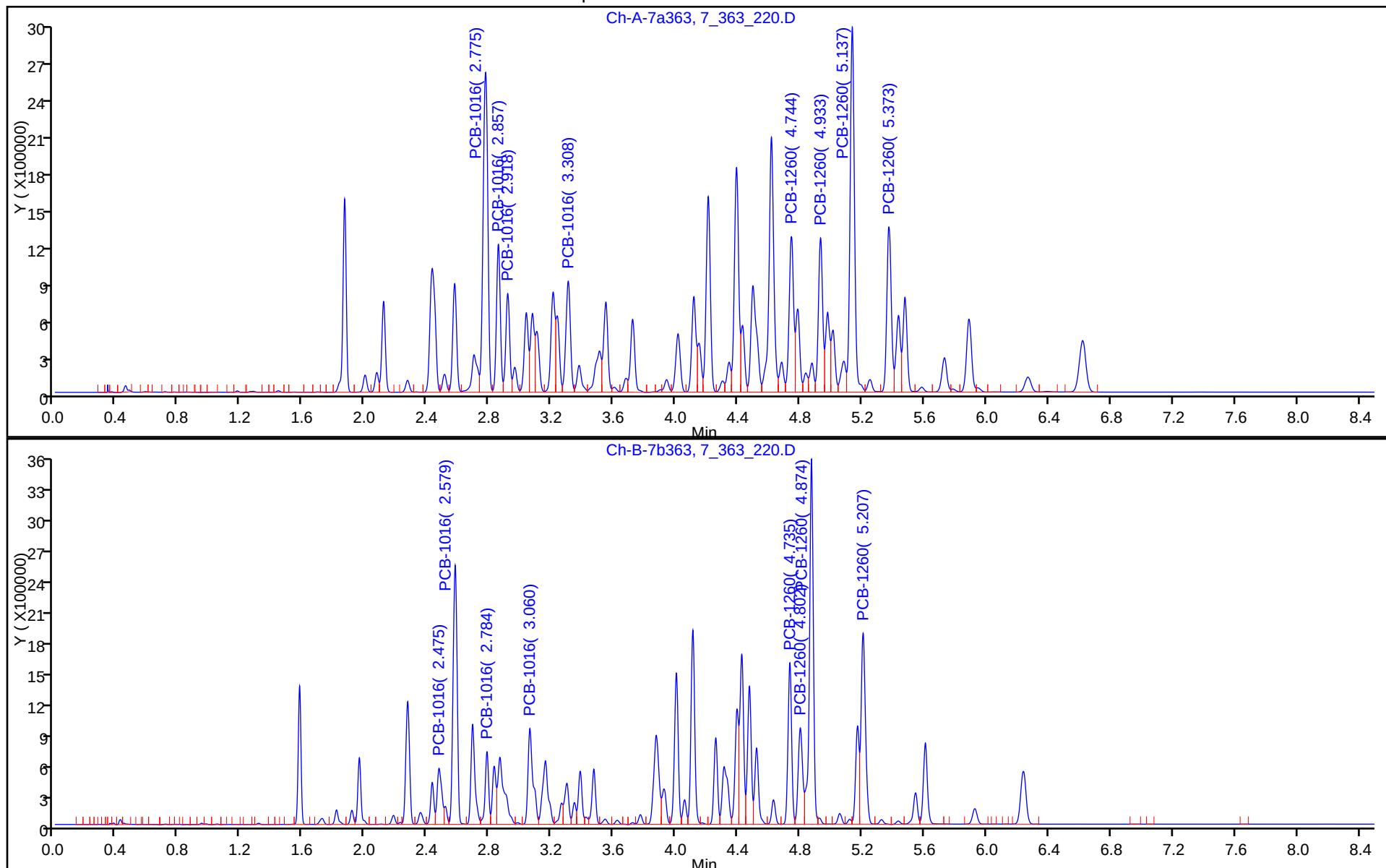
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_221.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 24-Feb-2015 15:44:23 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:34 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: sobolk

Date: 24-Feb-2015 17:32:40

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	1055574	0.0250	0.0225
2	1.578	1.578	0.000	799895	0.0250	0.0237

RPD = 5.31

6 PCB-1016

1	2.773	2.773	-0.001	2569581	1.00	0.8179
1	2.855	2.856	-0.001	974052	1.00	0.7863
1	2.915	2.915	0.000	582455	1.00	0.7094
1	3.304	3.304	0.000	839408	1.00	0.7753

Average of Peak Amounts = 0.7722

2	2.475	2.475	0.000	514333	1.00	0.7403
2	2.579	2.579	0.000	2139548	1.00	0.8188
2	2.785	2.783	0.002	476849	1.00	0.7163
2	3.060	3.060	0.000	922267	1.00	0.7622

Average of Peak Amounts = 0.7594

RPD = 1.67

9 PCB-1260

1	4.742	4.742	0.000	1252245	1.00	0.8556
1	4.929	4.928	0.001	1185579	1.00	0.8628
1	5.133	5.132	0.001	2922844	1.00	0.9092
1	5.371	5.368	0.003	1350905	1.00	0.8713

Average of Peak Amounts = 0.8747

2	4.734	4.733	0.002	1230237	1.00	0.9300
2	4.802	4.801	0.001	907341	1.00	0.9200
2	4.873	4.873	0.001	2990604	1.00	0.9643
2	5.205	5.204	0.001	1780889	1.00	0.9476

Average of Peak Amounts = 0.9405

RPD = 7.24

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_221.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.616	6.618	-0.002	655078	0.0250	0.0250	
2	6.237	6.237	0.000	627604	0.0250	0.0249	

RPD = 0.55

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.50

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_221.D

Injection Date: 24-Feb-2015 15:44:23

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD6

Worklist Smp#: 2

Client ID:

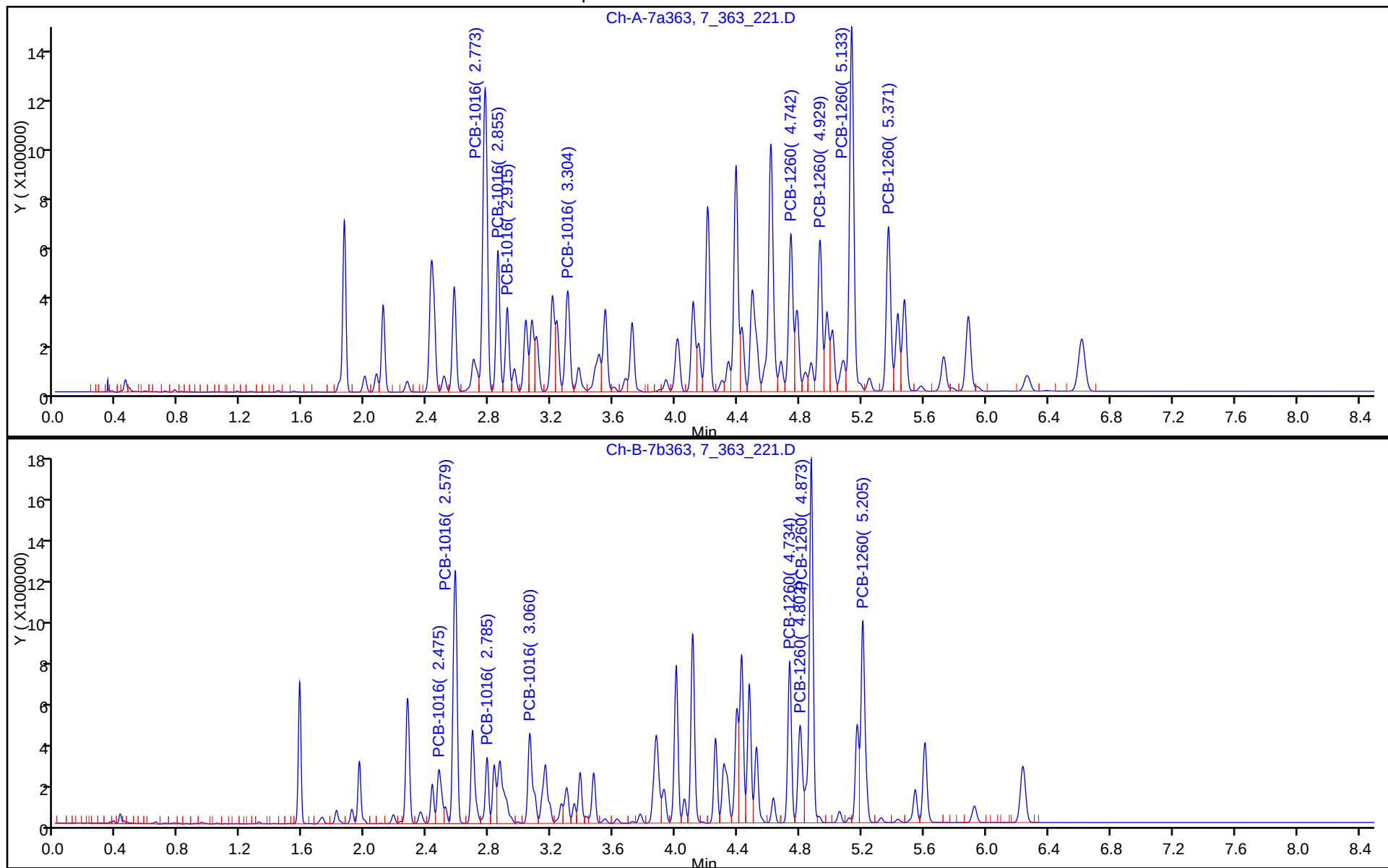
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_222.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 24-Feb-2015 16:00:23 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:32 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: sobolk

Date: 24-Feb-2015 17:28:27

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	640642	0.0125	0.0135
2	1.578	1.578	0.000	478298	0.0125	0.0139

RPD = 2.64

6 PCB-1016

1	2.772	2.773	-0.001	1484299	0.5000	0.4725
1	2.855	2.856	-0.001	560986	0.5000	0.4529
1	2.915	2.915	0.000	374101	0.5000	0.4556
1	3.304	3.304	0.000	490647	0.5000	0.4532

Average of Peak Amounts = 0.4585

2	2.475	2.475	0.000	317795	0.5000	0.4574
2	2.579	2.579	0.000	1236925	0.5000	0.4734
2	2.784	2.783	0.001	309177	0.5000	0.4644
2	3.060	3.060	0.000	558195	0.5000	0.4613

Average of Peak Amounts = 0.4641

RPD = 1.21

9 PCB-1260

1	4.742	4.742	0.000	655728	0.5000	0.4480
1	4.928	4.928	0.000	617732	0.5000	0.4495
1	5.133	5.132	0.000	1504360	0.5000	0.4680
1	5.369	5.368	0.001	700156	0.5000	0.4516

Average of Peak Amounts = 0.4543

2	4.734	4.733	0.002	632565	0.5000	0.4782
2	4.802	4.801	0.001	467435	0.5000	0.4739
2	4.873	4.873	0.001	1518286	0.5000	0.4895
2	5.206	5.204	0.002	908302	0.5000	0.4833

Average of Peak Amounts = 0.4812

RPD = 5.77

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_222.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.615	6.618	-0.003	352415	0.0125	0.0130	
2	6.238	6.237	0.001	329216	0.0125	0.0128	

RPD = 1.55

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_222.D

Injection Date: 24-Feb-2015 16:00:23

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD5

Worklist Smp#: 3

Client ID:

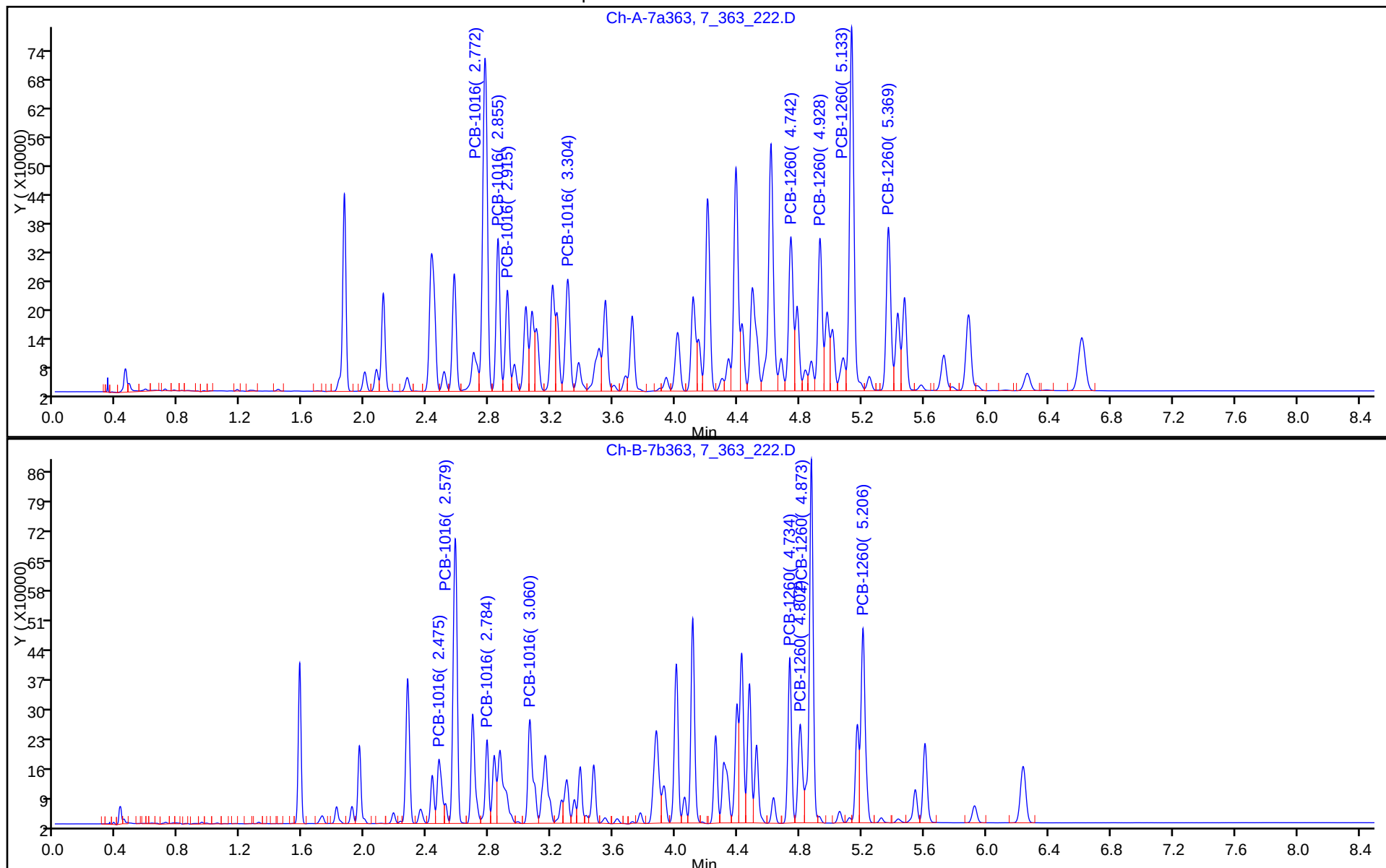
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_223.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 24-Feb-2015 16:16:12 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:30 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj

Date: 25-Feb-2015 10:29:37

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	267745	0.005000	0.005433	
2	1.578	1.578	0.000	199876	0.005000	0.005340	
RPD = 1.72							

6 PCB-1016

1	2.773	2.773	-0.001	616342	0.2000	0.1962	
1	2.855	2.856	-0.001	238390	0.2000	0.1924	
1	2.914	2.915	-0.001	161159	0.2000	0.1963	
1	3.305	3.304	0.001	209165	0.2000	0.1932	
Average of Peak Amounts =							0.1945
2	2.475	2.475	0.000	136786	0.2000	0.1969	
2	2.579	2.579	0.000	513378	0.2000	0.1965	
2	2.784	2.783	0.001	132256	0.2000	0.1987	
2	3.060	3.060	0.000	236596	0.2000	0.1955	
Average of Peak Amounts =							0.1969
RPD = 1.21							

9 PCB-1260

1	4.741	4.742	-0.001	274358	0.2000	0.1875	
1	4.928	4.928	0.000	258102	0.2000	0.1878	
1	5.133	5.132	0.000	613206	0.2000	0.1907	
1	5.368	5.368	0.000	292347	0.2000	0.1886	
Average of Peak Amounts =							0.1886
2	4.733	4.733	0.001	249442	0.2000	0.1886	
2	4.801	4.801	0.000	187243	0.2000	0.1898	
2	4.873	4.873	0.001	587333	0.2000	0.1894	
2	5.205	5.204	0.001	354186	0.2000	0.1885	
Average of Peak Amounts =							0.1891
RPD = 0.22							

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_223.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.615	6.618	-0.003	158340	0.005000	0.005318
2	6.236	6.237	-0.001	141184	0.005000	0.005211

RPD = 2.03

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.10

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_223.D

Injection Date: 24-Feb-2015 16:16:12

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD4

Worklist Smp#: 4

Client ID:

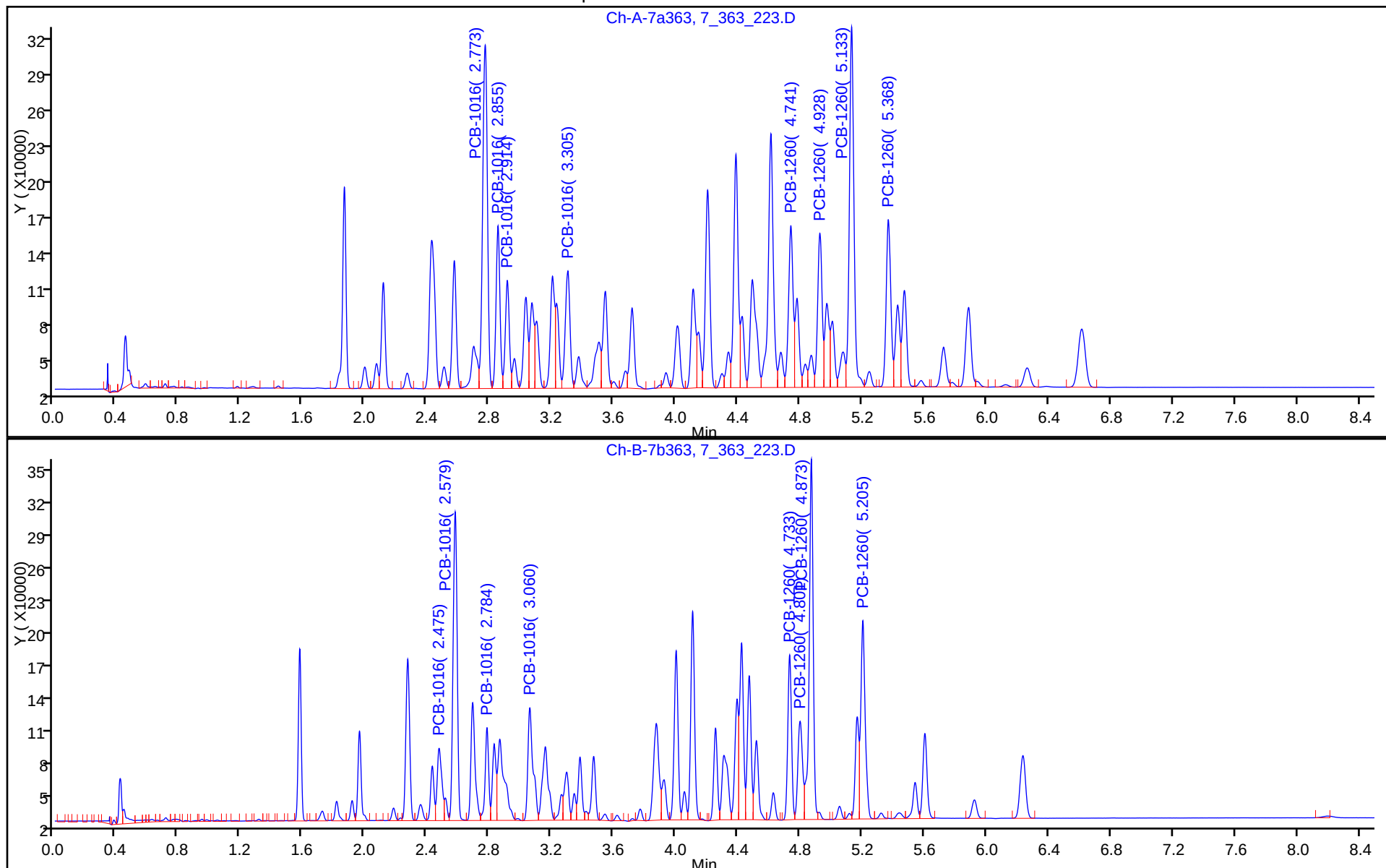
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_224.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 16:32:02 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:21 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj Date: 25-Feb-2015 10:30:07

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	141697	0.002500	0.002706	
2	1.578	1.578	0.000	107420	0.002500	0.002511	
RPD = 7.48							

6 PCB-1016

1	2.771	2.773	-0.002	323369	0.1000	0.1029	
1	2.855	2.856	-0.001	128521	0.1000	0.1037	
1	2.915	2.915	0.000	87044	0.1000	0.1060	
1	3.305	3.304	0.001	112799	0.1000	0.1042	
Average of Peak Amounts =							0.1042
2	2.476	2.475	0.001	74158	0.1000	0.1067	
2	2.580	2.579	0.001	270012	0.1000	0.1033	
2	2.784	2.783	0.001	71692	0.1000	0.1077	
2	3.060	3.060	0.000	127562	0.1000	0.1054	
Average of Peak Amounts =							0.1058
RPD = 1.50							

9 PCB-1260

1	4.742	4.742	0.000	147807	0.1000	0.1010	
1	4.929	4.928	0.001	138709	0.1000	0.1009	
1	5.134	5.132	0.002	321185	0.1000	0.0999	
1	5.370	5.368	0.002	156168	0.1000	0.1007	
Average of Peak Amounts =							0.1006
2	4.733	4.733	0.001	131548	0.1000	0.0994	
2	4.802	4.801	0.001	98368	0.1000	0.0997	
2	4.873	4.873	0.000	304178	0.1000	0.0981	M
2	5.204	5.204	0.000	182407	0.1000	0.0971	
Average of Peak Amounts =							0.0986
RPD = 2.07							

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_224.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.618	6.618	0.000	88859	0.002500	0.002564	
2	6.236	6.237	-0.001	74636	0.002500	0.002522	

RPD = 1.66

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.05

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_224.D

Injection Date: 24-Feb-2015 16:32:02

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 5

Client ID:

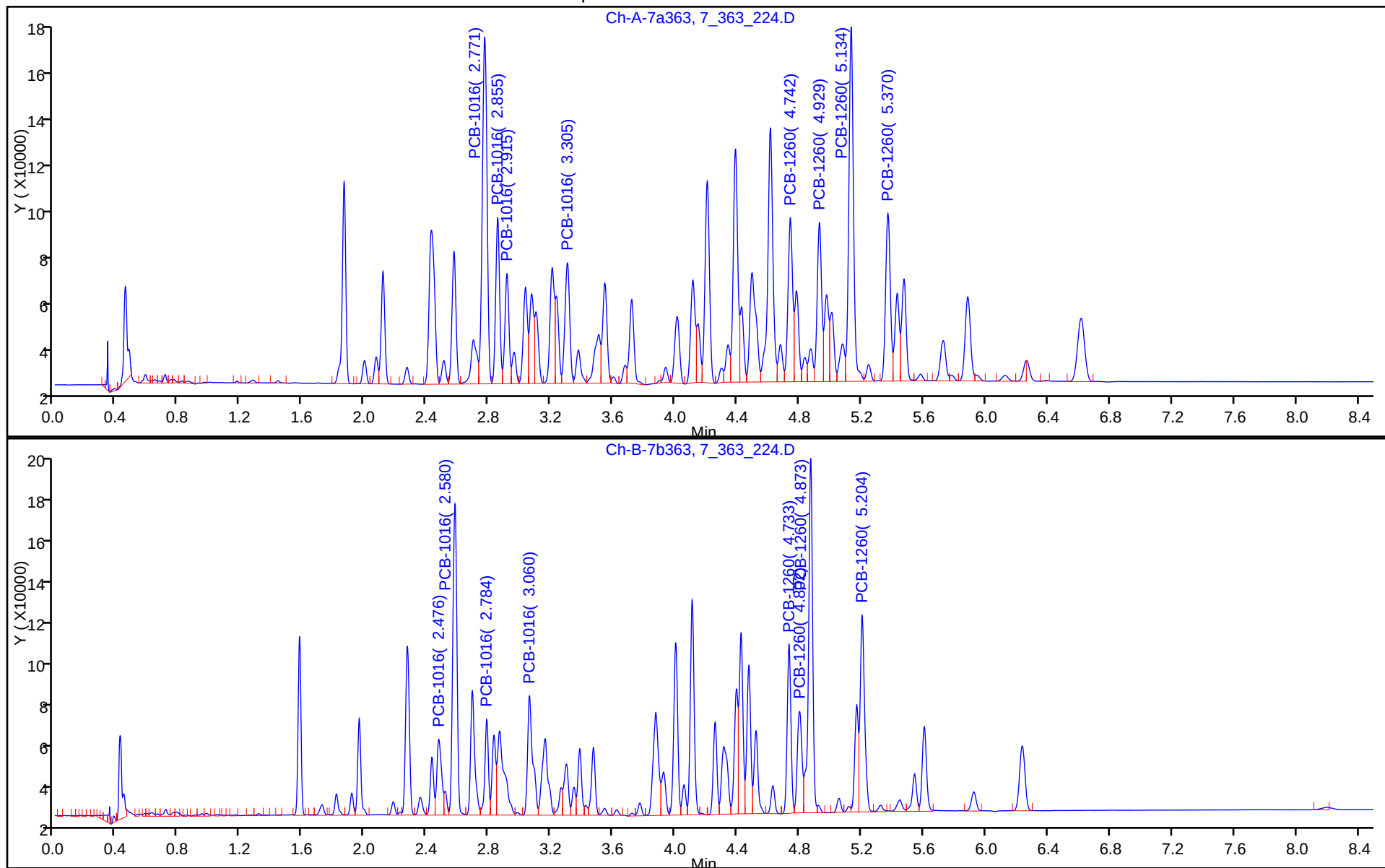
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_224.D

Injection Date: 24-Feb-2015 16:32:02

Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

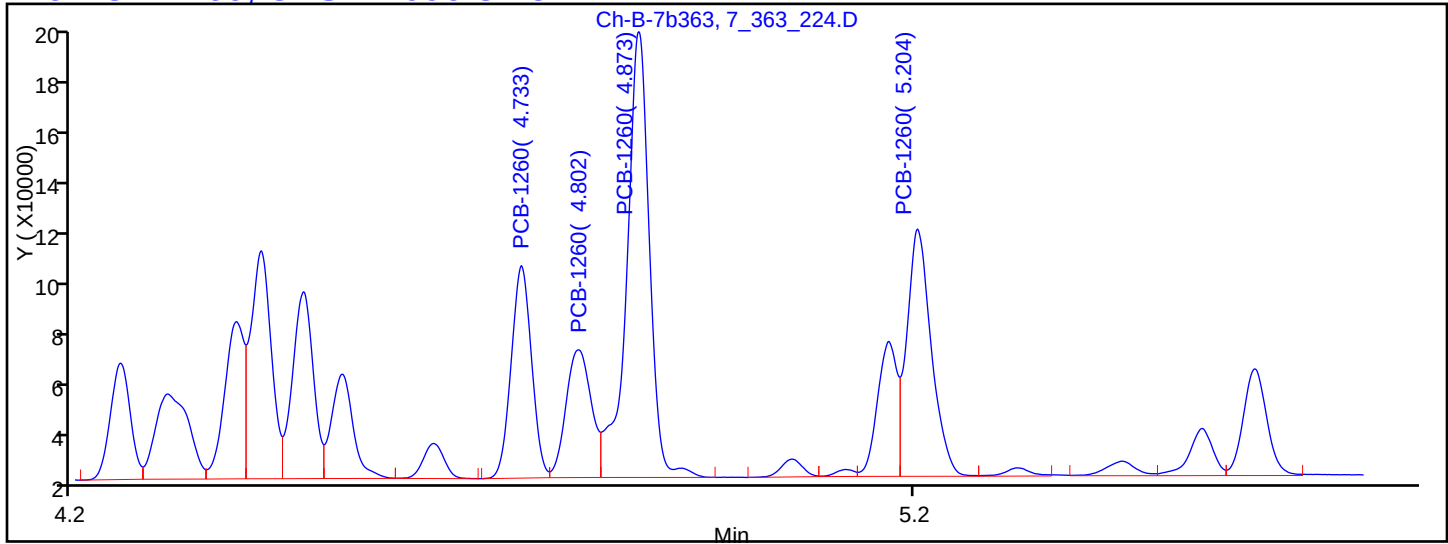
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

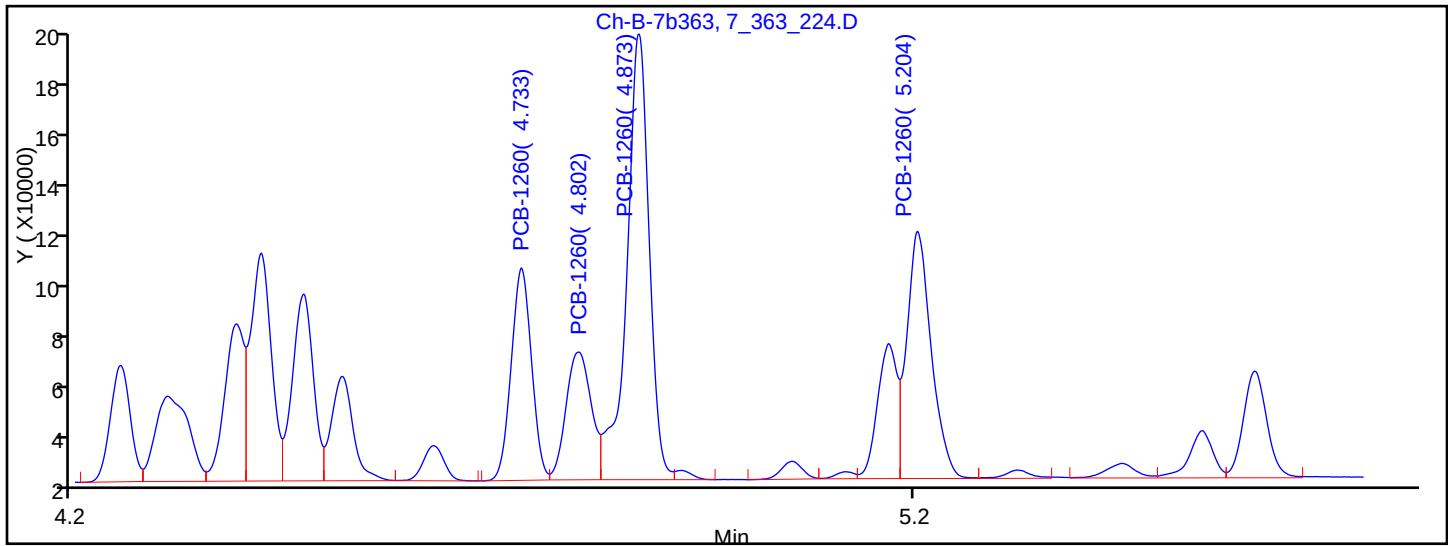
9 PCB-1260, CAS: 11096-82-5



Processing Integration Results

RT = 4.733	Response = 131548
RT = 4.802	Response = 98368
RT = 4.873	Response = 308738
RT = 5.204	Response = 182407

M



Manual Integration Results

RT = 4.733	Response = 131548
RT = 4.802	Response = 98368
RT = 4.873	Response = 304178
RT = 5.204	Response = 182407

M

Reviewer: larsonj, 25-Feb-2015 16:12:06

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 16:47:50 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:26 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj Date: 25-Feb-2015 10:31:46

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

\$ 3 Tetrachloro-m-xylene M
 1 1.865 1.865 0.000 76328 0.001250 0.001292 M
 2 1.578 1.578 0.000 58196 0.001250 0.001005
 RPD = 25.03

6 PCB-1016 M
 1 2.771 2.773 -0.002 172390 0.0500 0.0549
 1 2.855 2.856 -0.001 70235 0.0500 0.0567
 1 2.915 2.915 0.000 47442 0.0500 0.0578
 1 3.305 3.304 0.001 61339 0.0500 0.0567
 Average of Peak Amounts = 0.0565
 2 2.475 2.475 0.000 40334 0.0500 0.0581 M
 2 2.580 2.579 0.001 143616 0.0500 0.0550
 2 2.784 2.783 0.001 38103 0.0500 0.0572
 2 3.060 3.060 0.000 68151 0.0500 0.0563
 Average of Peak Amounts = 0.0566
 RPD = 0.25

9 PCB-1260 M
 1 4.742 4.742 0.000 81630 0.0500 0.0558 M
 1 4.929 4.928 0.001 77065 0.0500 0.0561 M
 1 5.133 5.132 0.000 173336 0.0500 0.0539 M
 1 5.370 5.368 0.002 86586 0.0500 0.0558 M
 Average of Peak Amounts = 0.0554
 2 4.733 4.733 0.000 69627 0.0500 0.0526
 2 4.801 4.801 0.000 52185 0.0500 0.0529
 2 4.873 4.873 0.001 157868 0.0500 0.0509 M
 2 5.205 5.204 0.001 97767 0.0500 0.0520
 Average of Peak Amounts = 0.0521
 RPD = 6.12

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.616	6.618	-0.002	50357	0.001250	0.001038	
2	6.237	6.237	0.000	40223	0.001250	0.001131	

RPD = 8.57

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 2.0ng_00006

Amount Added: 0.03

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D

Injection Date: 24-Feb-2015 16:47:50

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 6

Client ID:

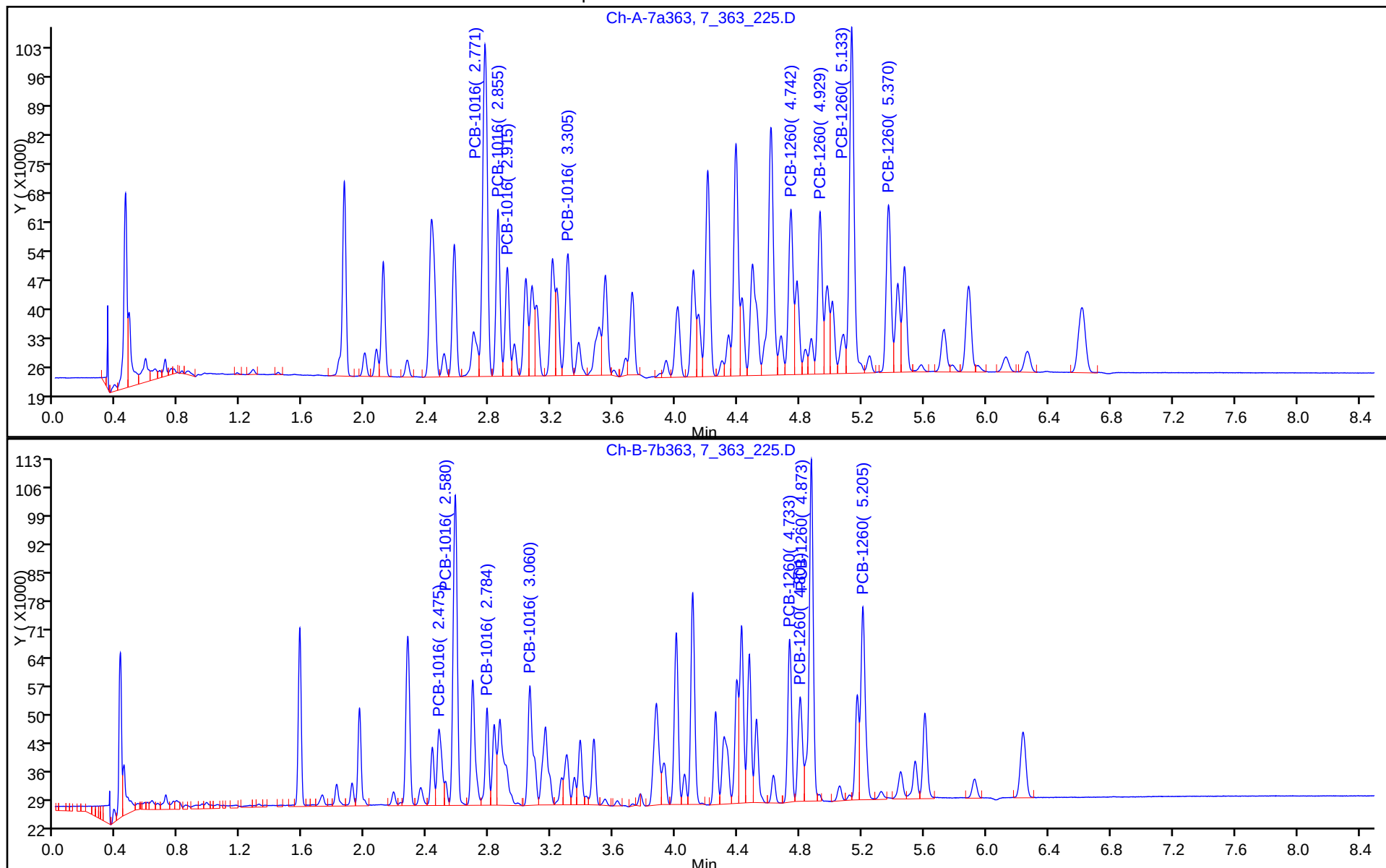
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D

Injection Date: 24-Feb-2015 16:47:50

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

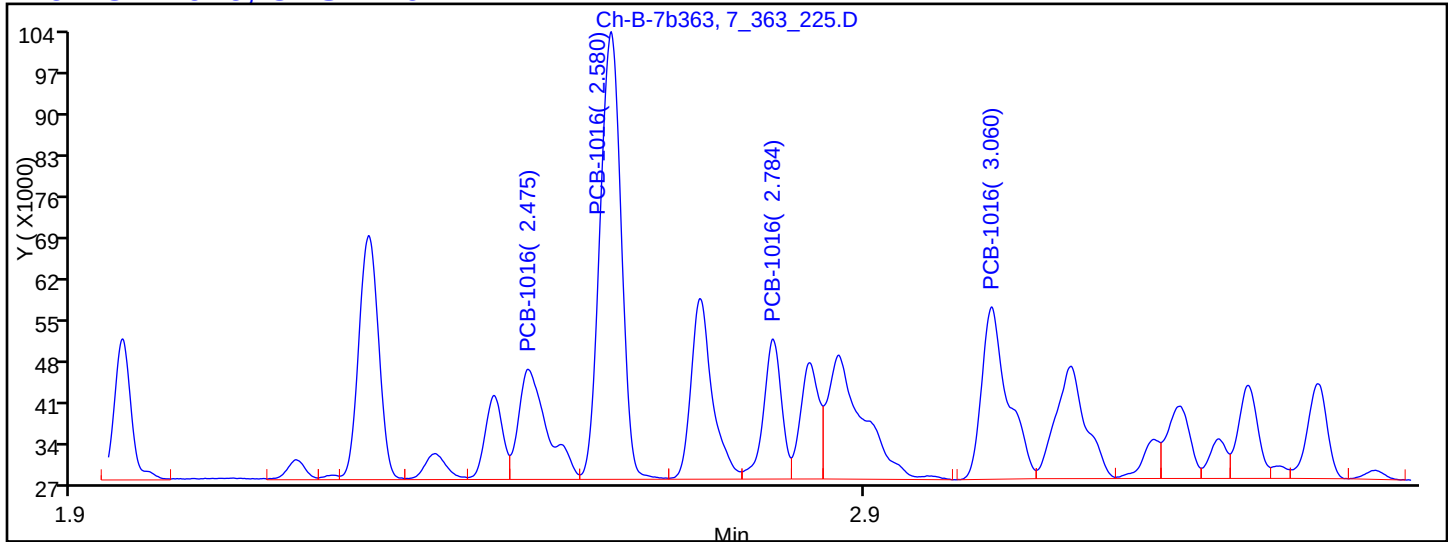
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

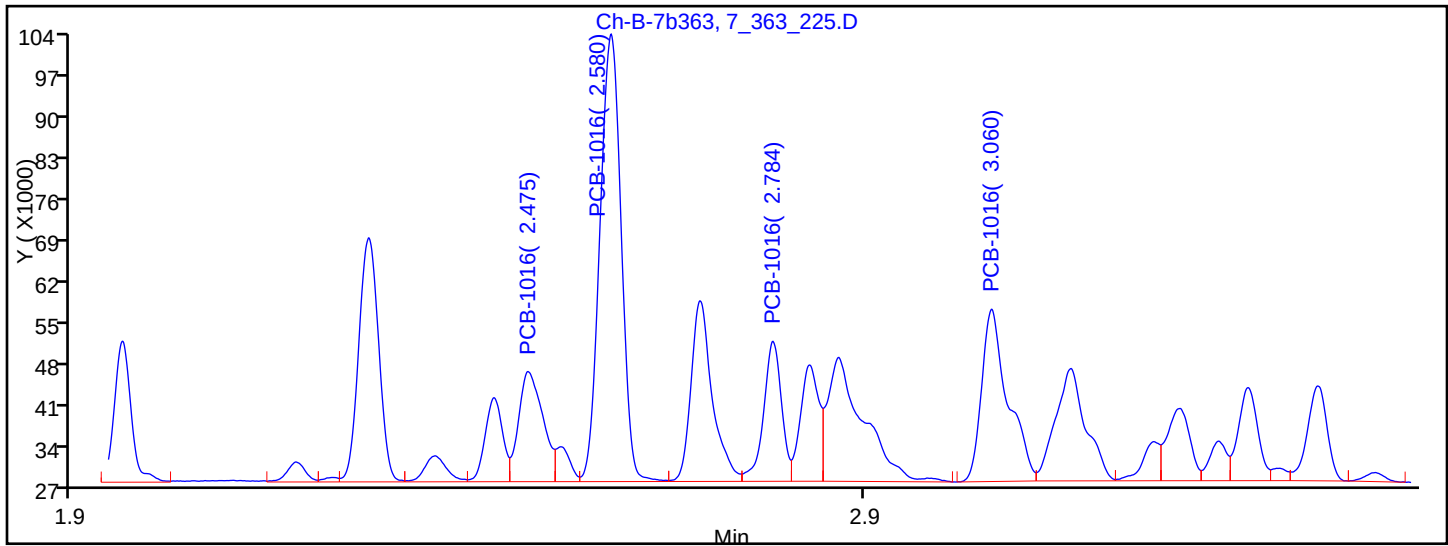
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.475	Response = 47653	M
RT = 2.580	Response = 143616	
RT = 2.784	Response = 38103	
RT = 3.060	Response = 68151	



Manual Integration Results

RT = 2.475	Response = 40334	M
RT = 2.580	Response = 143616	
RT = 2.784	Response = 38103	
RT = 3.060	Response = 68151	

Reviewer: larsonj, 25-Feb-2015 16:11:17

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_225.D

Injection Date: 24-Feb-2015 16:47:50

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 6

Injection Vol: 1.0 ul

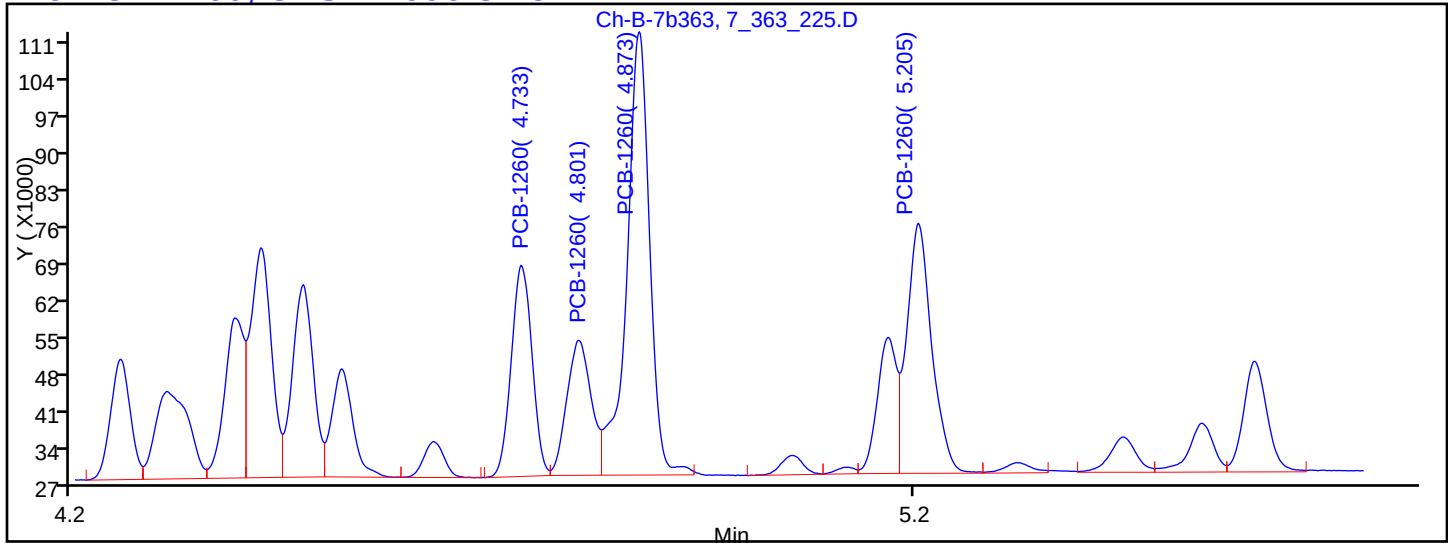
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

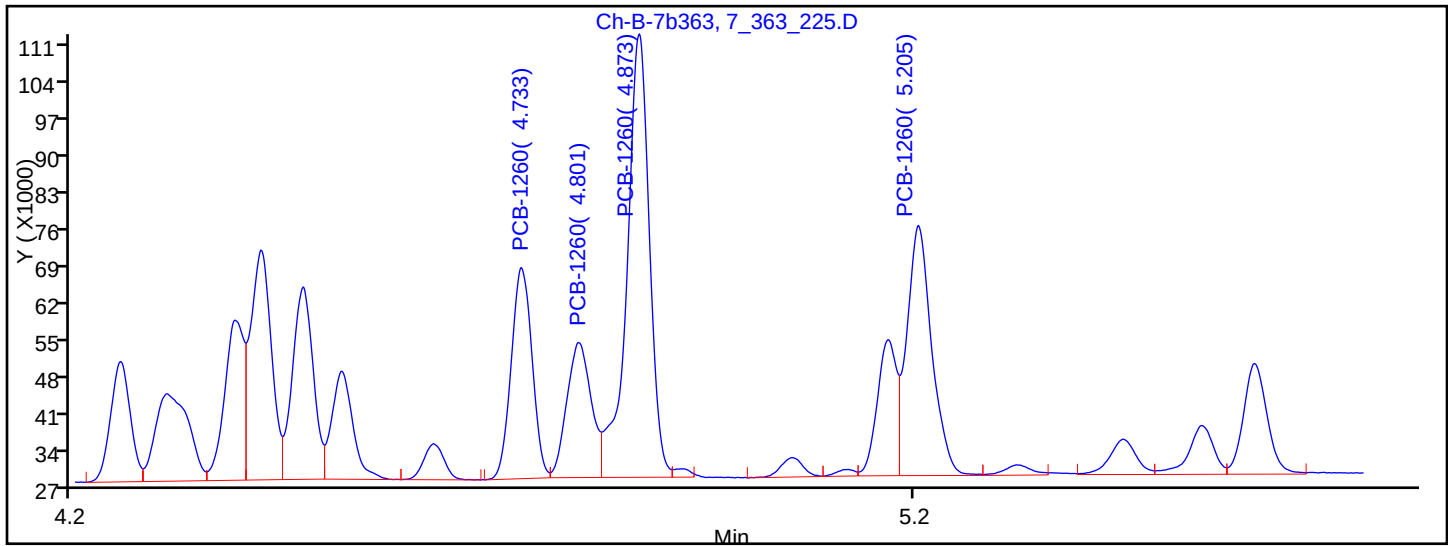
Detector Ch-B-7b136

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

Processing Integration Results

RT = 4.733	Response = 69627
RT = 4.801	Response = 52185
RT = 4.873	Response = 159979
RT = 5.205	Response = 97767

M



Manual Integration Results

RT = 4.733	Response = 69627
RT = 4.801	Response = 52185
RT = 4.873	Response = 157868
RT = 5.205	Response = 97767

M

Reviewer: larsonj, 25-Feb-2015 16:11:34

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_226.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 17:03:51 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 02-Mar-2015 12:31:24 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK031

First Level Reviewer: larsonj Date: 25-Feb-2015 16:57:37

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

\$ 3 Tetrachloro-m-xylene

1	1.865	1.865	0.000	34412	0.000500	0.000385	
2	1.578	1.578	0.000	26877	0.000500	0.00004635	
RPD = 157.07							

6 PCB-1016

1	2.773	2.773	0.000	78133	0.0200	0.0249	
1	2.856	2.856	0.000	32978	0.0200	0.0266	
1	2.915	2.915	0.000	21699	0.0200	0.0264	
1	3.304	3.304	0.000	28515	0.0200	0.0263	
Average of Peak Amounts =							0.0261
2	2.475	2.475	0.000	18244	0.0200	0.0263	
2	2.579	2.579	0.000	64664	0.0200	0.0247	
2	2.783	2.783	0.000	17454	0.0200	0.0262	
2	3.060	3.060	0.000	31256	0.0200	0.0258	
Average of Peak Amounts =							0.0258
RPD = 1.16							

9 PCB-1260

1	4.742	4.742	0.000	38388	0.0200	0.0262	M
1	4.928	4.928	0.000	35519	0.0200	0.0258	M
1	5.132	5.132	0.000	77794	0.0200	0.0242	M
1	5.368	5.368	0.000	39629	0.0200	0.0256	
Average of Peak Amounts =							0.0255
2	4.733	4.733	0.000	30741	0.0200	0.0232	
2	4.801	4.801	0.000	23374	0.0200	0.0237	
2	4.873	4.873	0.000	68691	0.0200	0.0221	
2	5.204	5.204	0.000	43262	0.0200	0.0230	
Average of Peak Amounts =							0.0230
RPD = 10.03							

\$ 12 DCB Decachlorobiphenyl

1	6.618						

ND ND(<0)
Page 135 of 385

[QC Flag Legend](#)

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

[Reagents:](#)

AR1660 2.0ng_00006

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_226.D

Injection Date: 24-Feb-2015 17:03:51

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 7

Client ID:

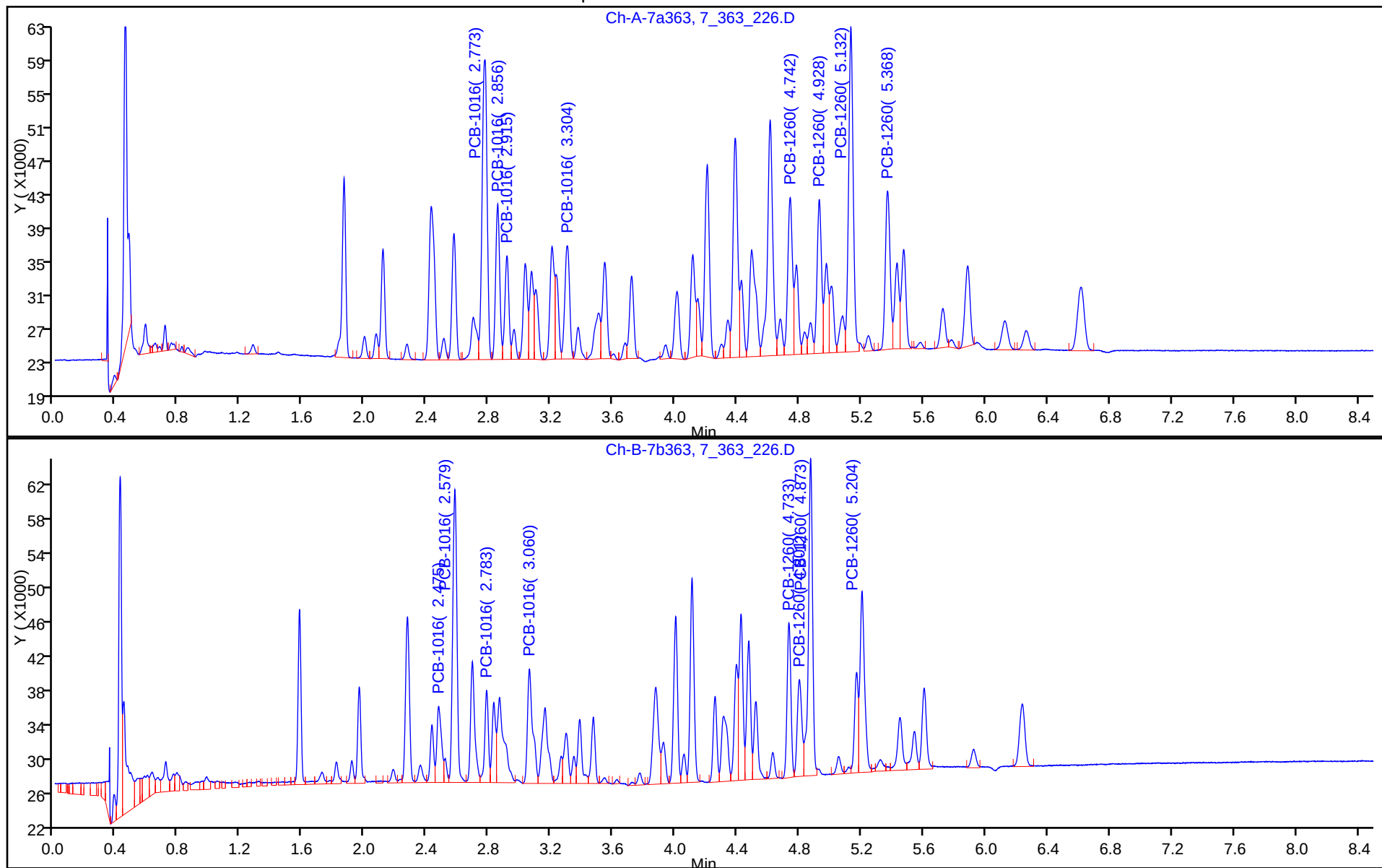
Injection Vol: 1.0 ul

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 17:35 Calibration End Date: 02/24/2015 18:07 Calibration ID: 22227

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/11	7_363_230.D
Level 2	STD2 480-228096/10	7_363_229.D
Level 3	STD3 480-228096/9	7_363_228.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1221 Peak 1	+++++	1.442	+++++								1.410 - 1.470	1.442
PCB-1221 Peak 2	+++++	1.999	+++++								1.968 - 2.028	1.999
PCB-1221 Peak 3	+++++	2.073	+++++								2.042 - 2.102	2.073
PCB-1221 Peak 4	+++++	2.118	+++++								2.088 - 2.148	2.118
PCB-1254 Peak 1	+++++	3.721	+++++								3.690 - 3.750	3.721
PCB-1254 Peak 2	+++++	3.938	+++++								3.908 - 3.968	3.938
PCB-1254 Peak 3	+++++	4.017	+++++								3.987 - 4.047	4.017
PCB-1254 Peak 4	+++++	4.214	+++++								4.183 - 4.243	4.214

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 17:35 Calibration End Date: 02/24/2015 18:07 Calibration ID: 22227

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/11	7_363_230.D
Level 2	STD2 480-228096/10	7_363_229.D
Level 3	STD3 480-228096/9	7_363_228.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	+++++	264752	+++++		Ave		264752.000						20.0			
PCB-1221 Peak 2	+++++	405138	+++++		Ave		405138.000						20.0			
PCB-1221 Peak 3	+++++	254942	+++++		Ave		254942.000						20.0			
PCB-1221 Peak 4	+++++	920612	+++++		Ave		920612.000						20.0			
PCB-1254 Peak 1	+++++	1928630	+++++		Ave		1928630.00						20.0			
PCB-1254 Peak 2	+++++	1254320	+++++		Ave		1254320.00						20.0			
PCB-1254 Peak 3	+++++	2232782	+++++		Ave		2232782.00						20.0			
PCB-1254 Peak 4	+++++	2245720	+++++		Ave		2245720.00						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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 17:35 Calibration End Date: 02/24/2015 18:07 Calibration ID: 22227

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/11	7_363_230.D
Level 2	STD2 480-228096/10	7_363_229.D
Level 3	STD3 480-228096/9	7_363_228.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	+++++	132376	+++++			+++++	0.500	+++++		
PCB-1221 Peak 2	Ave	+++++	202569	+++++			+++++	0.500	+++++		
PCB-1221 Peak 3	Ave	+++++	127471	+++++			+++++	0.500	+++++		
PCB-1221 Peak 4	Ave	+++++	460306	+++++			+++++	0.500	+++++		
PCB-1254 Peak 1	Ave	+++++	964315	+++++			+++++	0.500	+++++		
PCB-1254 Peak 2	Ave	+++++	627160	+++++			+++++	0.500	+++++		
PCB-1254 Peak 3	Ave	+++++	1116391	+++++			+++++	0.500	+++++		
PCB-1254 Peak 4	Ave	+++++	1122860	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_228.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 17:35:31 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:56 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

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

Process Host: XAWRK004

First Level Reviewer: sobolk Date: 25-Feb-2015 12:34:21

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

2 PCB-1221

1	1.441	1.440	0.001	469624	2.00	1.77	
1	1.999	1.998	0.001	713525	2.00	1.76	
1	2.073	2.072	0.000	448925	2.00	1.76	
1	2.118	2.118	0.000	1669856	2.00	1.81	

Average of Peak Amounts = 1.78

2	1.817	1.815	0.002	602639	2.00	1.80	
2	1.964	1.963	0.002	1147300	2.00	1.73	
2	2.228	2.227	0.001	132050	2.00	1.74	
2	2.281	2.280	0.001	380883	2.00	1.78	

Average of Peak Amounts = 1.76

RPD = 0.75

8 PCB-1254

1	3.722	3.720	0.002	3785065	2.00	1.96	
1	3.938	3.938	0.000	2483720	2.00	1.98	
1	4.018	4.017	0.001	4470000	2.00	2.00	
1	4.215	4.213	0.003	4492529	2.00	2.00	

Average of Peak Amounts = 1.99

2	3.472	3.472	0.000	2594974	2.00	1.95	
2	3.773	3.771	0.001	1890560	2.00	1.99	
2	3.858	3.856	0.002	4103021	2.00	1.99	
2	3.992	3.989	0.003	3549588	2.00	1.85	

Average of Peak Amounts = 1.95

RPD = 2.02

Reagents:

1221-1254 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_228.D

Injection Date: 24-Feb-2015 17:35:31

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 9

Client ID:

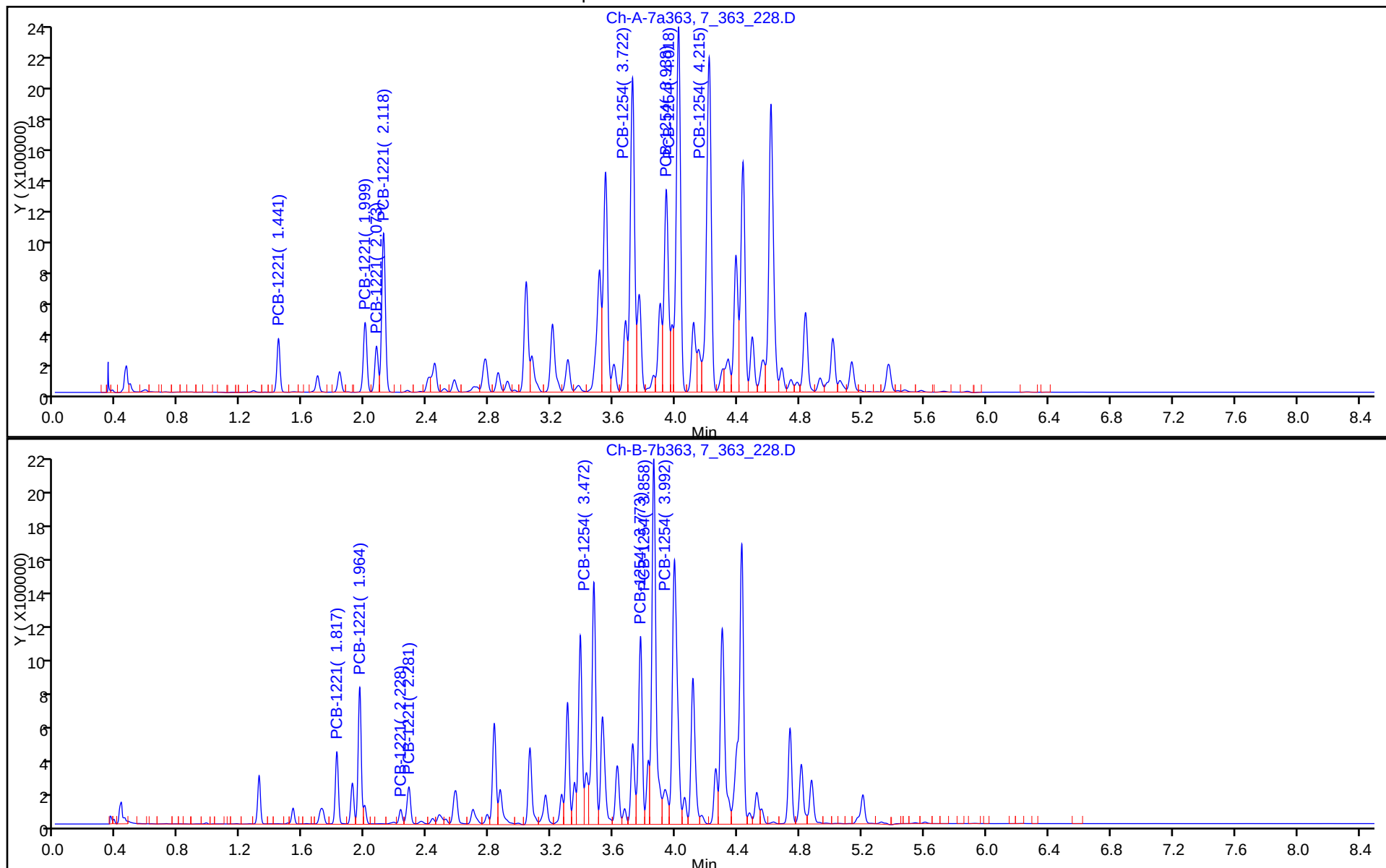
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_229.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 17:51:25 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:58 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

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

Process Host: XAWRK004

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

2 PCB-1221

1	1.442	1.440	0.002	132376	0.5000	0.5000	
1	1.999	1.998	0.001	202569	0.5000	0.5000	
1	2.073	2.072	0.001	127471	0.5000	0.5000	
1	2.118	2.118	0.000	460306	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.817	1.815	0.002	167530	0.5000	0.5000	
2	1.963	1.963	0.001	331761	0.5000	0.5000	
2	2.228	2.227	0.001	37852	0.5000	0.5000	
2	2.281	2.280	0.001	106697	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

8 PCB-1254

1	3.721	3.720	0.001	964315	0.5000	0.5000	
1	3.938	3.938	0.000	627160	0.5000	0.5000	
1	4.017	4.017	0.000	1116391	0.5000	0.5000	
1	4.214	4.213	0.002	1122860	0.5000	0.5000	
Average of Peak Amounts =						0.5000	
2	3.473	3.472	0.000	666205	0.5000	0.5000	
2	3.772	3.771	0.001	473863	0.5000	0.5000	
2	3.858	3.856	0.002	1028717	0.5000	0.5000	
2	3.991	3.989	0.002	959372	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\20150224-39815.b\7_363_229.D

Injection Date: 24-Feb-2015 17:51:25

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 10

Client ID:

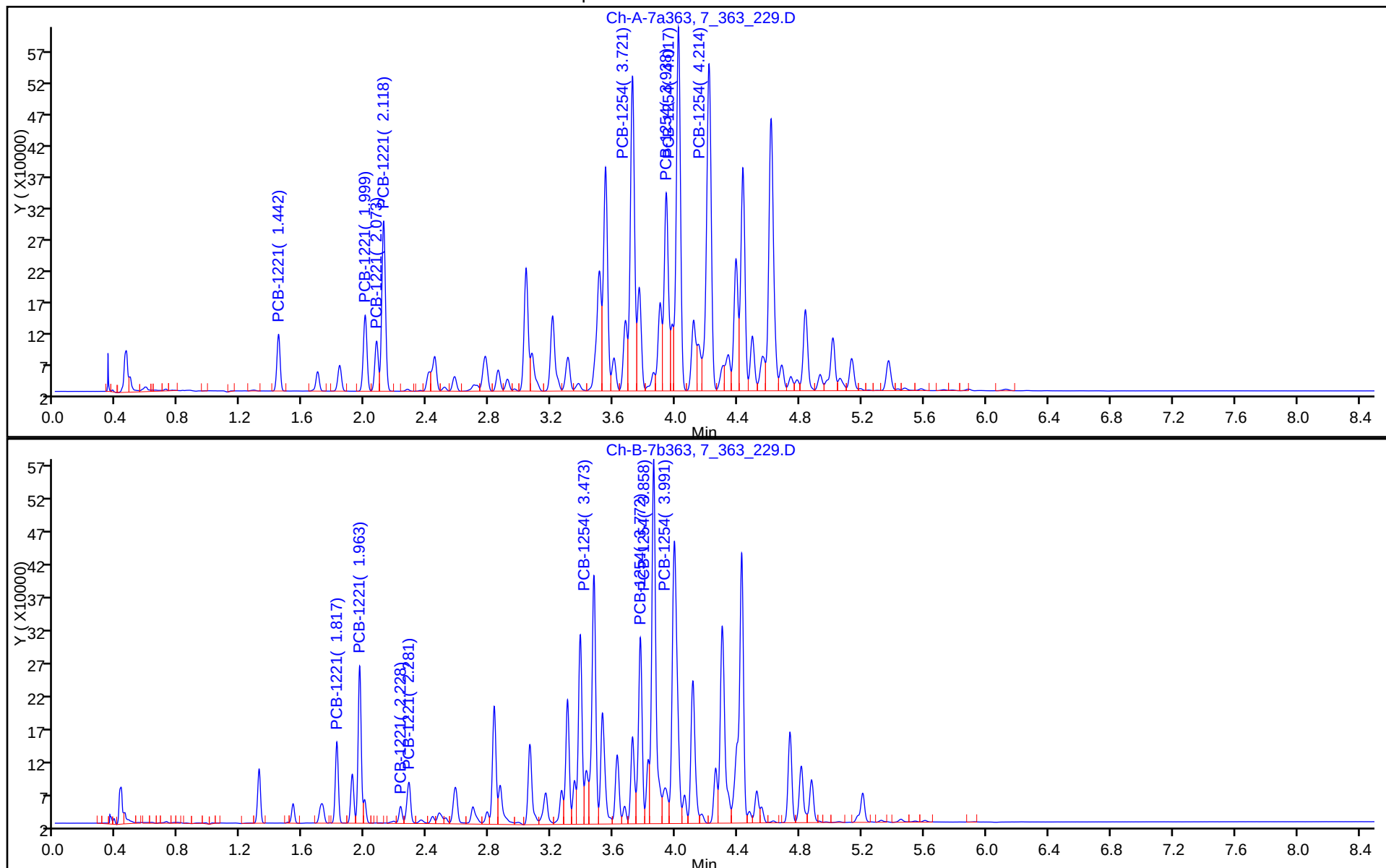
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_230.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 18:07:24 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:34:02 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:53:42

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

2 PCB-1221

1	1.440	1.440	0.000	9186	0.0200	0.0347	
1	1.998	1.998	0.000	12158	0.0200	0.0300	
1	2.072	2.072	0.000	7605	0.0200	0.0298	
1	2.118	2.118	0.000	27424	0.0200	0.0298	

Average of Peak Amounts = 0.0311

2	1.815	1.815	0.000	9322	0.0200	0.0278	
2	1.963	1.963	0.000	21021	0.0200	0.0317	
2	2.227	2.227	0.000	1586	0.0200	0.0210	
2	2.280	2.280	0.000	5616	0.0200	0.0263	

Average of Peak Amounts = 0.0267

RPD = 15.19

8 PCB-1254

1	3.720	3.720	0.000	54192	0.0200	0.0281	
1	3.938	3.938	0.000	34578	0.0200	0.0276	
1	4.017	4.017	0.000	60925	0.0200	0.0273	
1	4.213	4.213	0.000	61197	0.0200	0.0273	

Average of Peak Amounts = 0.0276

2	3.472	3.472	0.000	33685	0.0200	0.0253	
2	3.771	3.771	0.000	22420	0.0200	0.0237	
2	3.856	3.856	0.000	48532	0.0200	0.0236	
2	3.989	3.989	0.000	47741	0.0200	0.0249	

Average of Peak Amounts = 0.0244

RPD = 12.33

Reagents:

1221-1254 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_230.D

Injection Date: 24-Feb-2015 18:07:24

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 11

Client ID:

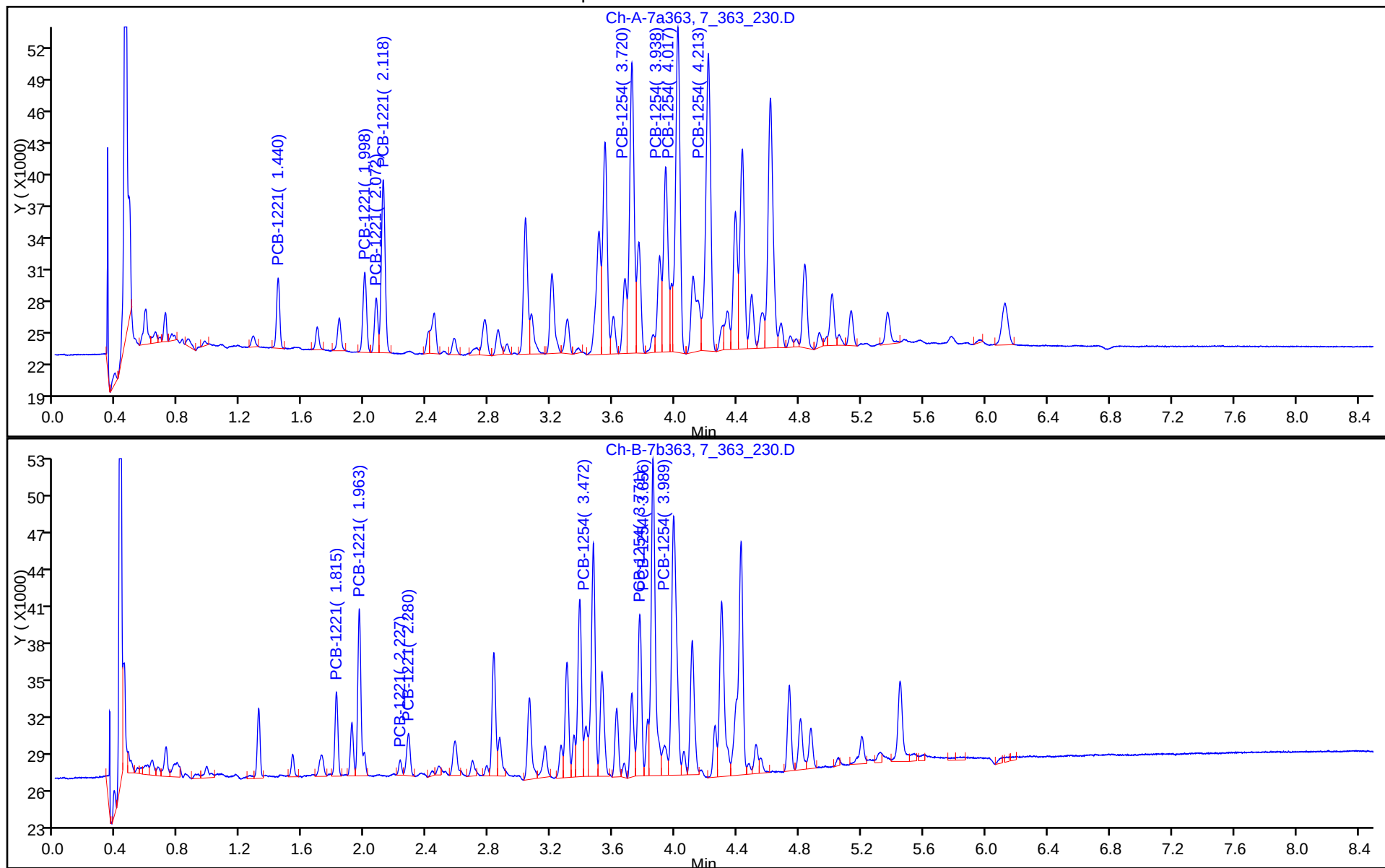
Injection Vol: 1.0 ul

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 17:35 Calibration End Date: 02/24/2015 18:07 Calibration ID: 22228

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/11	7_363_230.D
Level 2	STD2 480-228096/10	7_363_229.D
Level 3	STD3 480-228096/9	7_363_228.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1221 Peak 1	+++++	1.817	+++++								1.785 - 1.845	1.817
PCB-1221 Peak 2	+++++	1.963	+++++								1.933 - 1.993	1.963
PCB-1221 Peak 3	+++++	2.228	+++++								2.197 - 2.257	2.228
PCB-1221 Peak 4	+++++	2.281	+++++								2.250 - 2.310	2.281
PCB-1254 Peak 1	+++++	3.473	+++++								3.442 - 3.502	3.473
PCB-1254 Peak 2	+++++	3.772	+++++								3.741 - 3.801	3.772
PCB-1254 Peak 3	+++++	3.858	+++++								3.826 - 3.886	3.858
PCB-1254 Peak 4	+++++	3.991	+++++								3.959 - 4.019	3.991

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 17:35 Calibration End Date: 02/24/2015 18:07 Calibration ID: 22228

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/11	7_363_230.D
Level 2	STD2 480-228096/10	7_363_229.D
Level 3	STD3 480-228096/9	7_363_228.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	+++++	335060	+++++		Ave		335060.000						20.0			
PCB-1221 Peak 2	+++++	663522	+++++		Ave		663522.000						20.0			
PCB-1221 Peak 3	+++++	75704	+++++		Ave		75704.0000						20.0			
PCB-1221 Peak 4	+++++	213394	+++++		Ave		213394.000						20.0			
PCB-1254 Peak 1	+++++	1332410	+++++		Ave		1332410.00						20.0			
PCB-1254 Peak 2	+++++	947726	+++++		Ave		947726.000						20.0			
PCB-1254 Peak 3	+++++	2057434	+++++		Ave		2057434.00						20.0			
PCB-1254 Peak 4	+++++	1918744	+++++		Ave		1918744.00						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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 17:35 Calibration End Date: 02/24/2015 18:07 Calibration ID: 22228

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/11	7_363_230.D
Level 2	STD2 480-228096/10	7_363_229.D
Level 3	STD3 480-228096/9	7_363_228.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	+++++	167530	+++++			+++++	0.500	+++++		
PCB-1221 Peak 2	Ave	+++++	331761	+++++			+++++	0.500	+++++		
PCB-1221 Peak 3	Ave	+++++	37852	+++++			+++++	0.500	+++++		
PCB-1221 Peak 4	Ave	+++++	106697	+++++			+++++	0.500	+++++		
PCB-1254 Peak 1	Ave	+++++	666205	+++++			+++++	0.500	+++++		
PCB-1254 Peak 2	Ave	+++++	473863	+++++			+++++	0.500	+++++		
PCB-1254 Peak 3	Ave	+++++	1028717	+++++			+++++	0.500	+++++		
PCB-1254 Peak 4	Ave	+++++	959372	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_228.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 17:35:31 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:56 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: sobolk

Date: 25-Feb-2015 12:34:21

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

2 PCB-1221

1	1.441	1.440	0.001	469624	2.00	1.77
1	1.999	1.998	0.001	713525	2.00	1.76
1	2.073	2.072	0.000	448925	2.00	1.76
1	2.118	2.118	0.000	1669856	2.00	1.81

Average of Peak Amounts = 1.78

2	1.817	1.815	0.002	602639	2.00	1.80
2	1.964	1.963	0.002	1147300	2.00	1.73
2	2.228	2.227	0.001	132050	2.00	1.74
2	2.281	2.280	0.001	380883	2.00	1.78

Average of Peak Amounts = 1.76

RPD = 0.75

8 PCB-1254

1	3.722	3.720	0.002	3785065	2.00	1.96
1	3.938	3.938	0.000	2483720	2.00	1.98
1	4.018	4.017	0.001	4470000	2.00	2.00
1	4.215	4.213	0.003	4492529	2.00	2.00

Average of Peak Amounts = 1.99

2	3.472	3.472	0.000	2594974	2.00	1.95
2	3.773	3.771	0.001	1890560	2.00	1.99
2	3.858	3.856	0.002	4103021	2.00	1.99
2	3.992	3.989	0.003	3549588	2.00	1.85

Average of Peak Amounts = 1.95

RPD = 2.02

Reagents:

1221-1254 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_228.D

Injection Date: 24-Feb-2015 17:35:31

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 9

Client ID:

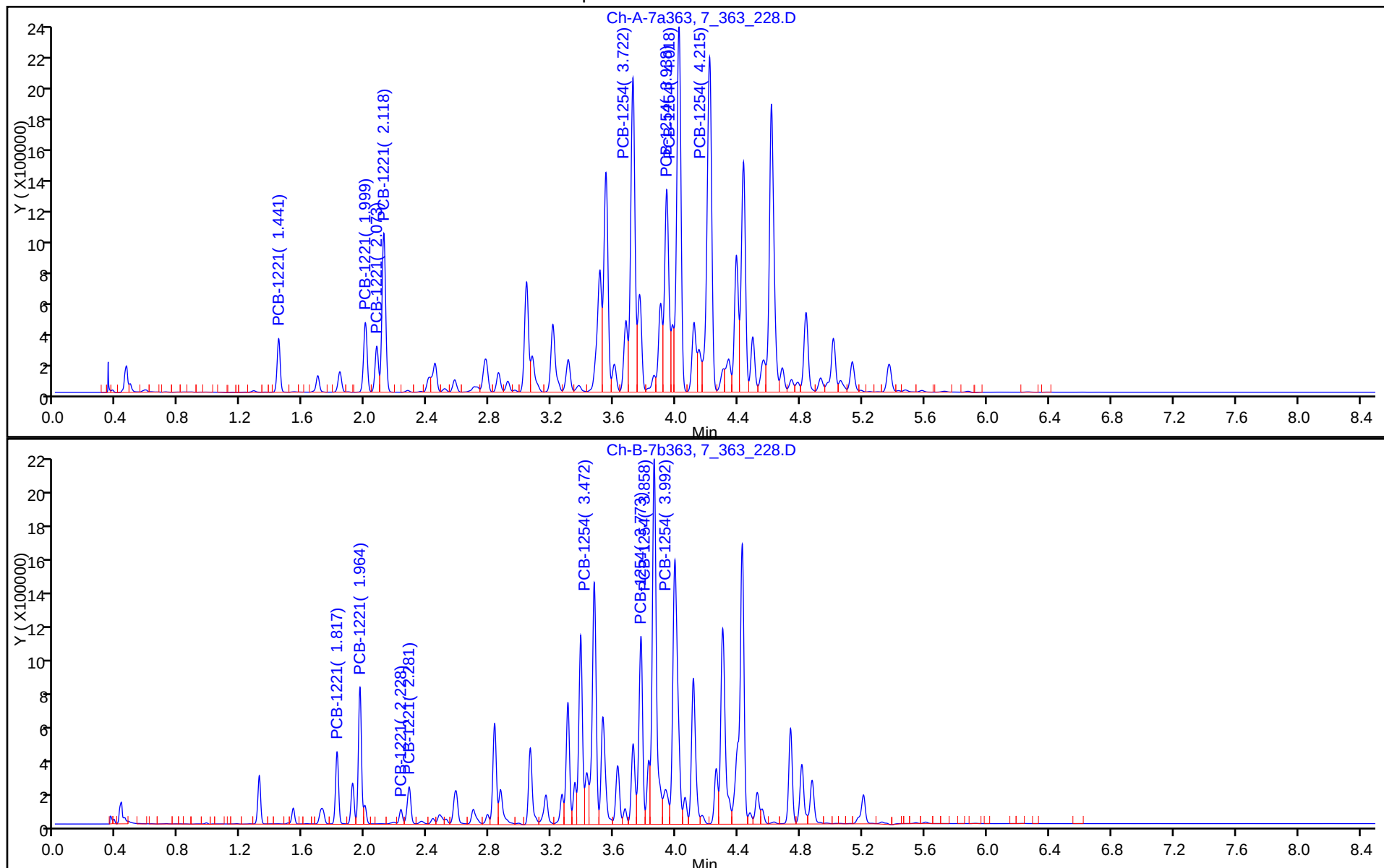
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_229.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 17:51:25 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:58 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

Column 1 : Det: Ch-A-7A136

Column 2 : Det: Ch-B-7b136

Process Host: XAWRK004

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

2 PCB-1221

1	1.442	1.440	0.002	132376	0.5000	0.5000	
1	1.999	1.998	0.001	202569	0.5000	0.5000	
1	2.073	2.072	0.001	127471	0.5000	0.5000	
1	2.118	2.118	0.000	460306	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	1.817	1.815	0.002	167530	0.5000	0.5000	
2	1.963	1.963	0.001	331761	0.5000	0.5000	
2	2.228	2.227	0.001	37852	0.5000	0.5000	
2	2.281	2.280	0.001	106697	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

8 PCB-1254

1	3.721	3.720	0.001	964315	0.5000	0.5000	
1	3.938	3.938	0.000	627160	0.5000	0.5000	
1	4.017	4.017	0.000	1116391	0.5000	0.5000	
1	4.214	4.213	0.002	1122860	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.473	3.472	0.000	666205	0.5000	0.5000	
2	3.772	3.771	0.001	473863	0.5000	0.5000	
2	3.858	3.856	0.002	1028717	0.5000	0.5000	
2	3.991	3.989	0.002	959372	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\20150224-39815.b\7_363_229.D

Injection Date: 24-Feb-2015 17:51:25

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 10

Client ID:

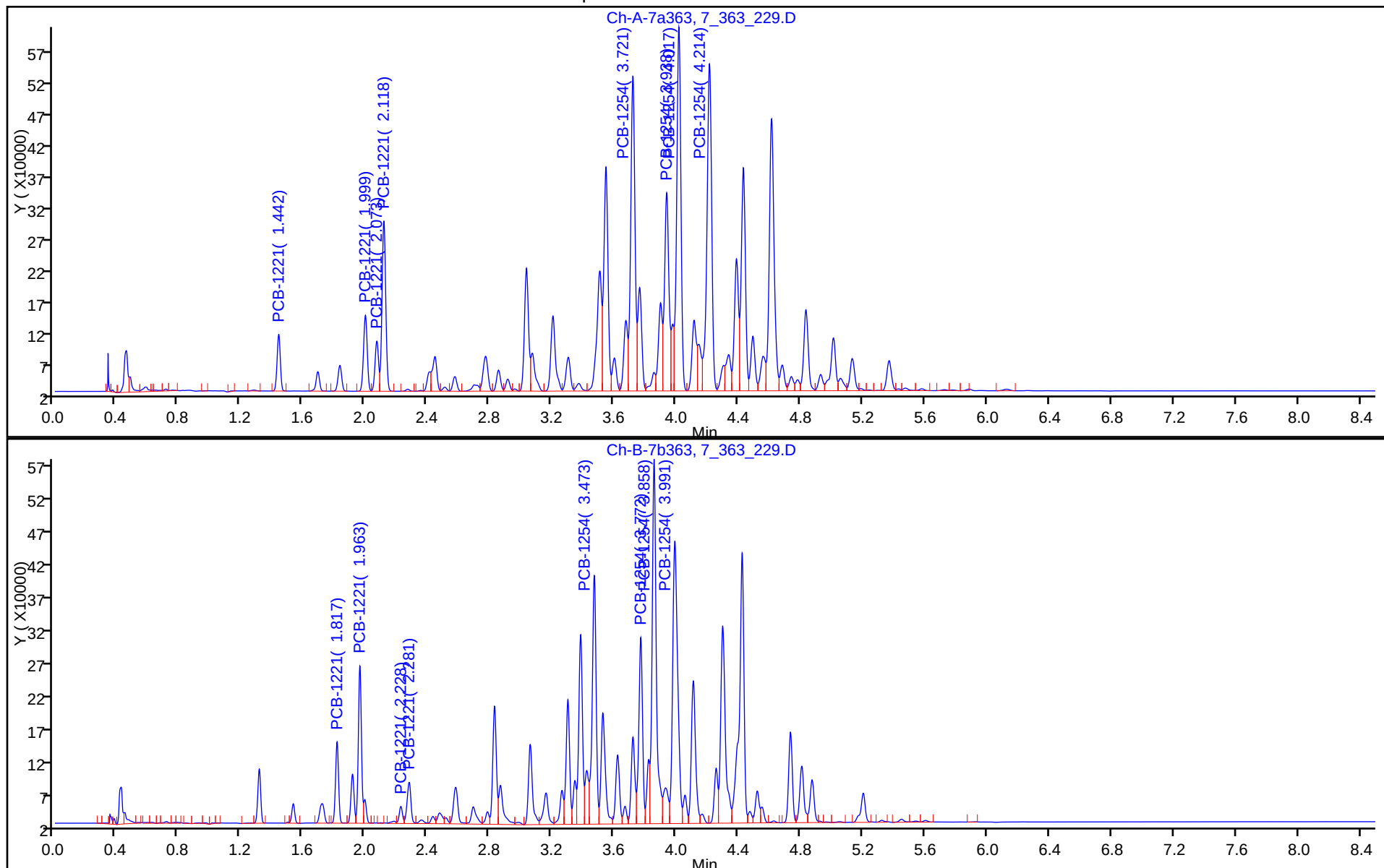
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_230.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 18:07:24 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:34:02 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:53:42

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

2 PCB-1221

1	1.440	1.440	0.000	9186	0.0200	0.0347	
1	1.998	1.998	0.000	12158	0.0200	0.0300	
1	2.072	2.072	0.000	7605	0.0200	0.0298	
1	2.118	2.118	0.000	27424	0.0200	0.0298	

Average of Peak Amounts = 0.0311

2	1.815	1.815	0.000	9322	0.0200	0.0278	
2	1.963	1.963	0.000	21021	0.0200	0.0317	
2	2.227	2.227	0.000	1586	0.0200	0.0210	
2	2.280	2.280	0.000	5616	0.0200	0.0263	

Average of Peak Amounts = 0.0267

RPD = 15.19

8 PCB-1254

1	3.720	3.720	0.000	54192	0.0200	0.0281	
1	3.938	3.938	0.000	34578	0.0200	0.0276	
1	4.017	4.017	0.000	60925	0.0200	0.0273	
1	4.213	4.213	0.000	61197	0.0200	0.0273	

Average of Peak Amounts = 0.0276

2	3.472	3.472	0.000	33685	0.0200	0.0253	
2	3.771	3.771	0.000	22420	0.0200	0.0237	
2	3.856	3.856	0.000	48532	0.0200	0.0236	
2	3.989	3.989	0.000	47741	0.0200	0.0249	

Average of Peak Amounts = 0.0244

RPD = 12.33

Reagents:

1221-1254 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_230.D

Injection Date: 24-Feb-2015 18:07:24

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 11

Client ID:

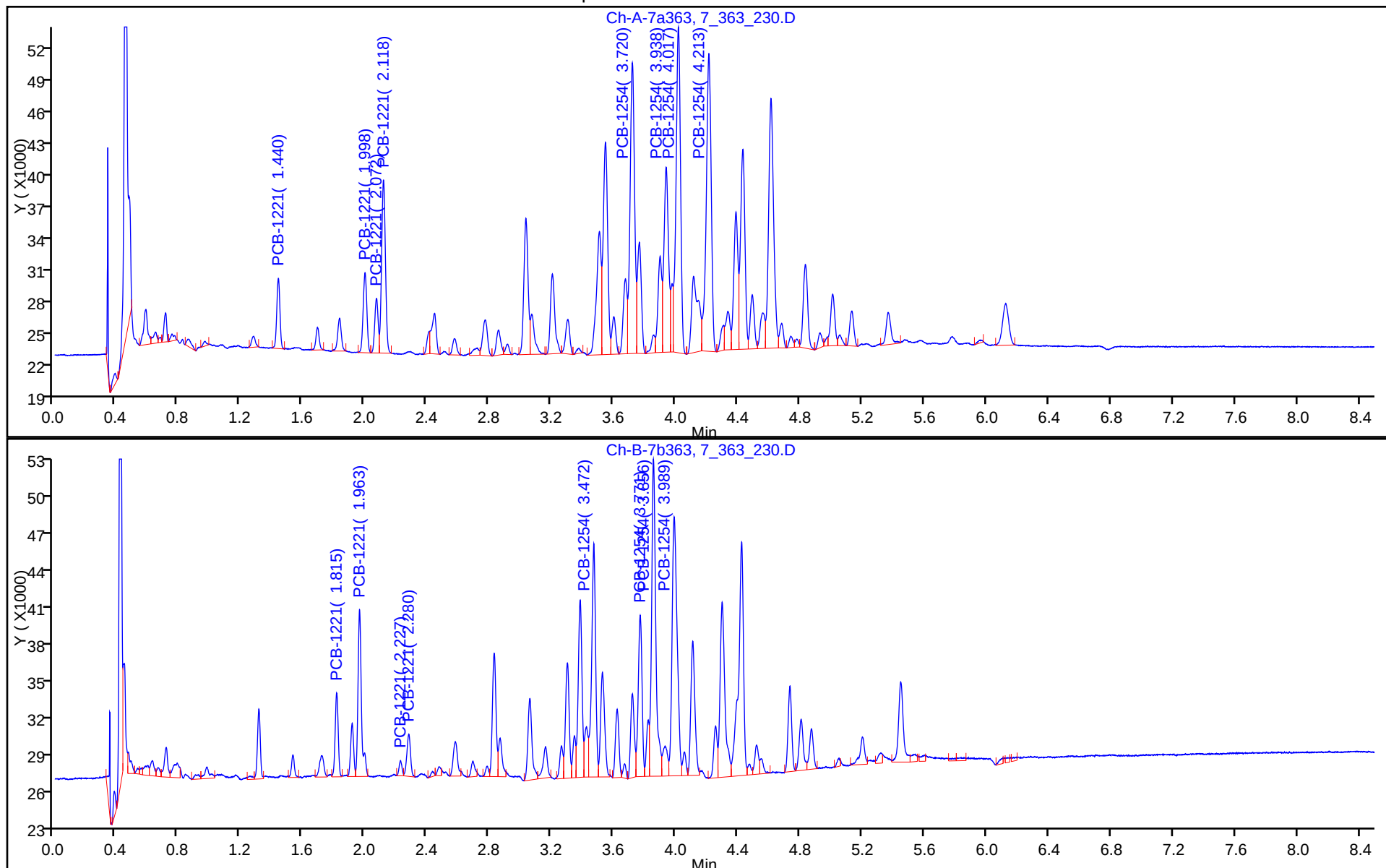
Injection Vol: 1.0 ul

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 18:38 Calibration End Date: 02/24/2015 19:10 Calibration ID: 22233

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/15	7_363_234.D
Level 2	STD2 480-228096/14	7_363_233.D
Level 3	STD3 480-228096/13	7_363_232.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1232 Peak 1	+++++	2.117	+++++								2.087 - 2.147	2.117
PCB-1232 Peak 2	+++++	2.574	+++++								2.544 - 2.604	2.574
PCB-1232 Peak 3	+++++	2.773	+++++								2.743 - 2.803	2.773
PCB-1232 Peak 4	+++++	2.856	+++++								2.825 - 2.885	2.856
PCB-1262 Peak 1	+++++	4.742	+++++								4.711 - 4.771	4.742
PCB-1262 Peak 2	+++++	5.134	+++++								5.103 - 5.163	5.134
PCB-1262 Peak 3	+++++	5.431	+++++								5.400 - 5.460	5.431
PCB-1262 Peak 4	+++++	5.472	+++++								5.443 - 5.503	5.472

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 18:38 Calibration End Date: 02/24/2015 19:10 Calibration ID: 22233

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/15	7_363_234.D
Level 2	STD2 480-228096/14	7_363_233.D
Level 3	STD3 480-228096/13	7_363_232.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	+++++	770864	+++++		Ave		770864.000						20.0			
PCB-1232 Peak 2	+++++	405472	+++++		Ave		405472.000						20.0			
PCB-1232 Peak 3	+++++	1340958	+++++		Ave		1340958.00						20.0			
PCB-1232 Peak 4	+++++	516660	+++++		Ave		516660.000						20.0			
PCB-1262 Peak 1	+++++	1892676	+++++		Ave		1892676.00						20.0			
PCB-1262 Peak 2	+++++	3343618	+++++		Ave		3343618.00						20.0			
PCB-1262 Peak 3	+++++	1245886	+++++		Ave		1245886.00						20.0			
PCB-1262 Peak 4	+++++	1280284	+++++		Ave		1280284.00						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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 18:38 Calibration End Date: 02/24/2015 19:10 Calibration ID: 22233

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/15	7_363_234.D
Level 2	STD2 480-228096/14	7_363_233.D
Level 3	STD3 480-228096/13	7_363_232.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	+++++	385432	+++++			+++++	0.500	+++++		
PCB-1232 Peak 2	Ave	+++++	202736	+++++			+++++	0.500	+++++		
PCB-1232 Peak 3	Ave	+++++	670479	+++++			+++++	0.500	+++++		
PCB-1232 Peak 4	Ave	+++++	258330	+++++			+++++	0.500	+++++		
PCB-1262 Peak 1	Ave	+++++	946338	+++++			+++++	0.500	+++++		
PCB-1262 Peak 2	Ave	+++++	1671809	+++++			+++++	0.500	+++++		
PCB-1262 Peak 3	Ave	+++++	622943	+++++			+++++	0.500	+++++		
PCB-1262 Peak 4	Ave	+++++	640142	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_232.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 18:38:51 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:48 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:49:23

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

5 PCB-1232

							M
1	2.116	2.117	-0.001	1328174	2.00	1.72	M
1	2.573	2.574	-0.001	659699	2.00	1.63	
1	2.773	2.773	0.001	2425155	2.00	1.81	M
1	2.856	2.855	0.001	910095	2.00	1.76	M

Average of Peak Amounts =

1.73

2	1.963	1.963	0.000	938811	2.00	1.61	M
2	2.275	2.275	0.000	994014	2.00	1.66	
2	2.582	2.581	0.001	2029095	2.00	1.77	
2	2.693	2.693	0.000	782858	2.00	1.69	

Average of Peak Amounts =

1.68

RPD = 2.72

10 PCB-1262

							M
1	4.742	4.741	0.001	3516199	2.00	1.86	M
1	5.134	5.133	0.001	6154654	2.00	1.84	M
1	5.431	5.430	0.001	2315233	2.00	1.86	M
1	5.473	5.473	0.001	2425729	2.00	1.89	M

Average of Peak Amounts =

1.86

2	4.474	4.473	0.001	3059456	2.00	1.89	
2	4.734	4.733	0.001	2806508	2.00	1.92	
2	4.873	4.873	0.000	6254924	2.00	1.94	M
2	5.168	5.168	0.000	2472679	2.00	1.90	

Average of Peak Amounts =

1.91

RPD = 2.60

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_232.D

Injection Date: 24-Feb-2015 18:38:51

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 13

Client ID:

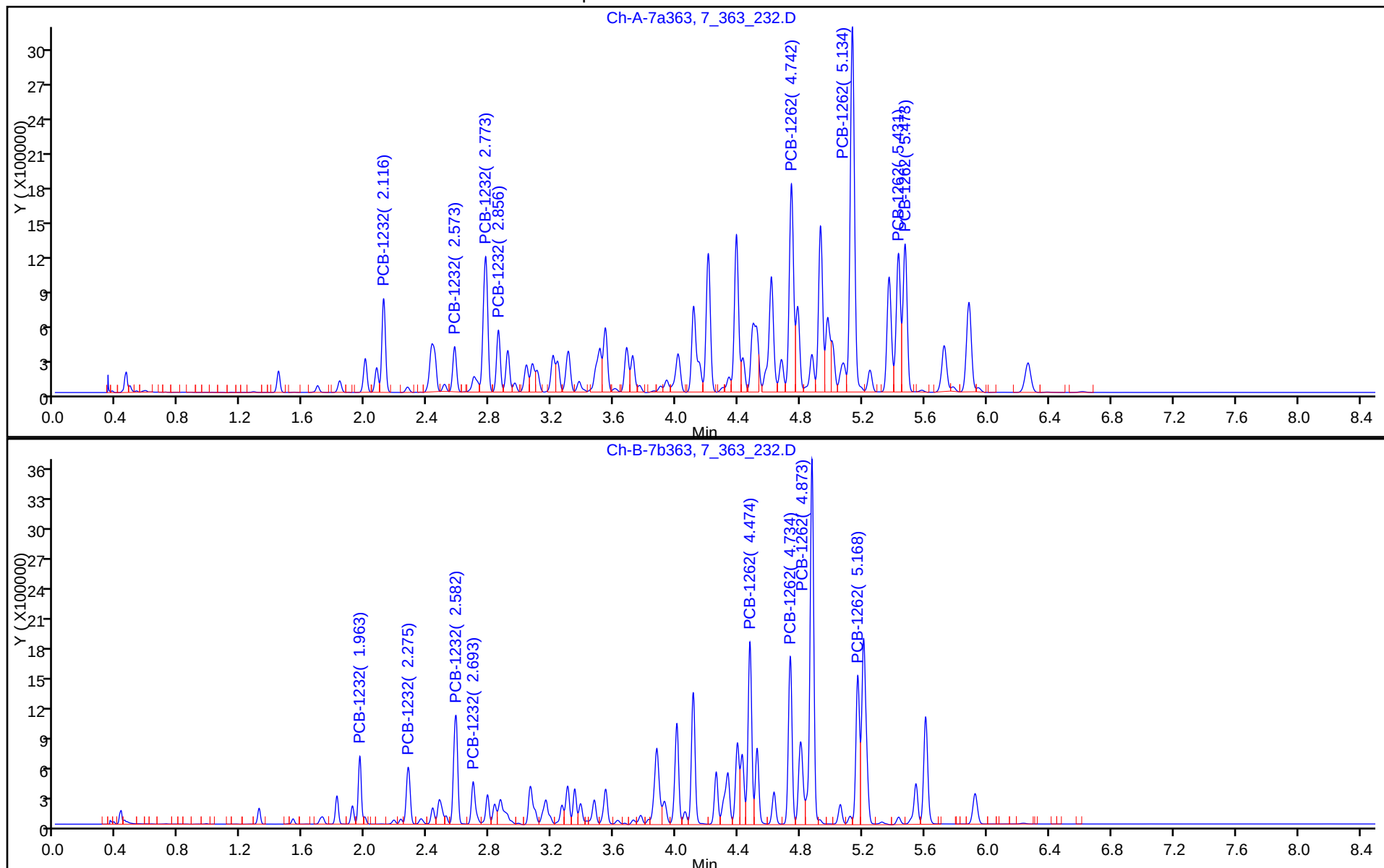
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_232.D

Injection Date: 24-Feb-2015 18:38:51

Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 13

Injection Vol: 1.0 ul

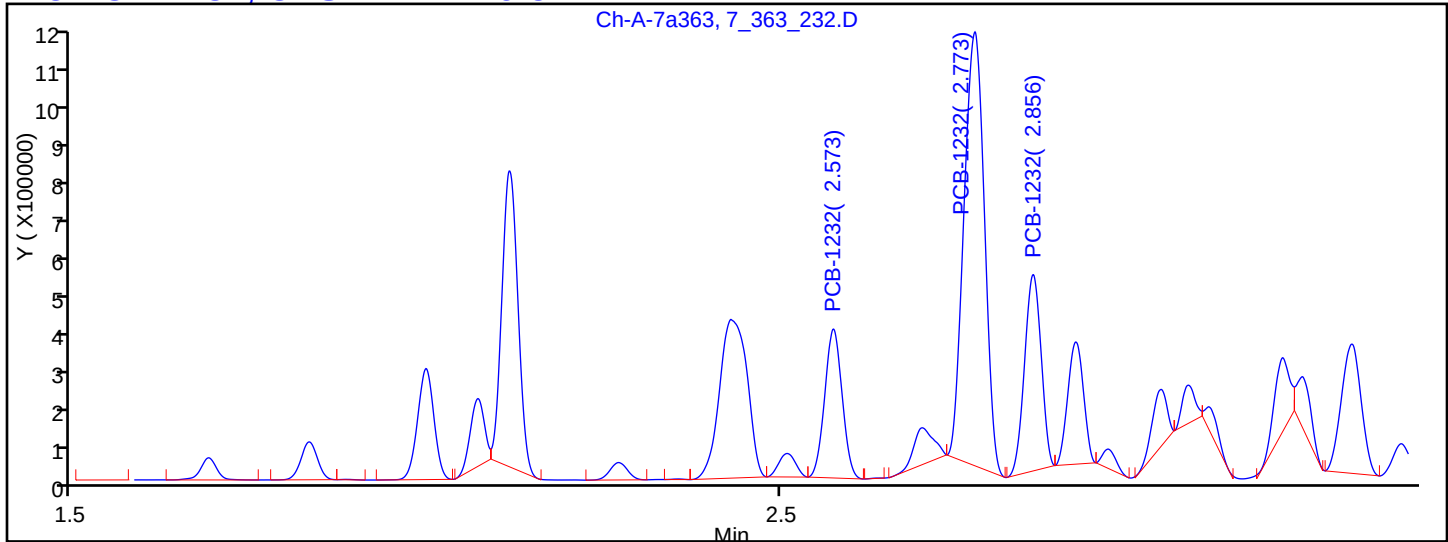
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

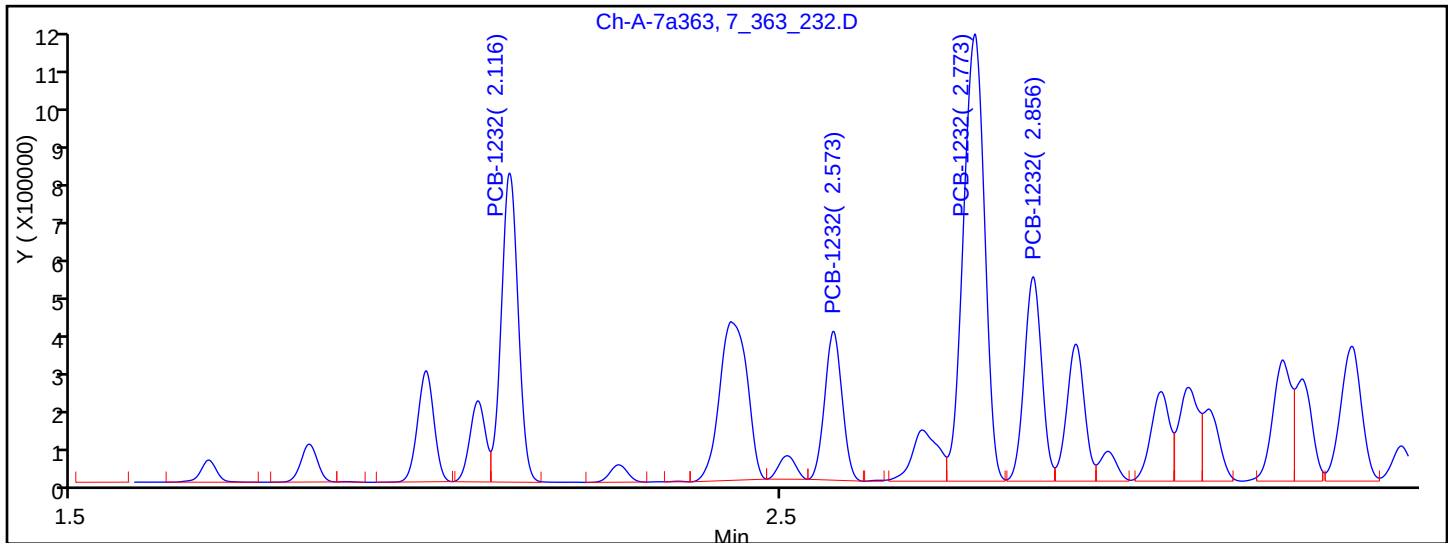
Column:

Detector Ch-A-7A136

5 PCB-1232, CAS: 11141-16-5

Processing Integration Results

RT = 2.428	Response = 1117060	M
RT = 2.573	Response = 659699	
RT = 2.773	Response = 2261963	M
RT = 2.856	Response = 832744	M



Manual Integration Results

RT = 2.116	Response = 1328174	M
RT = 2.573	Response = 659699	
RT = 2.773	Response = 2425155	M
RT = 2.856	Response = 910095	M

Reviewer: larsonj, 25-Feb-2015 14:49:23

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_232.D

Injection Date: 24-Feb-2015 18:38:51

Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

Operator ID: buftchrom

ALS Bottle#:

0

Worklist Smp#:

13

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: HP7-PCBS

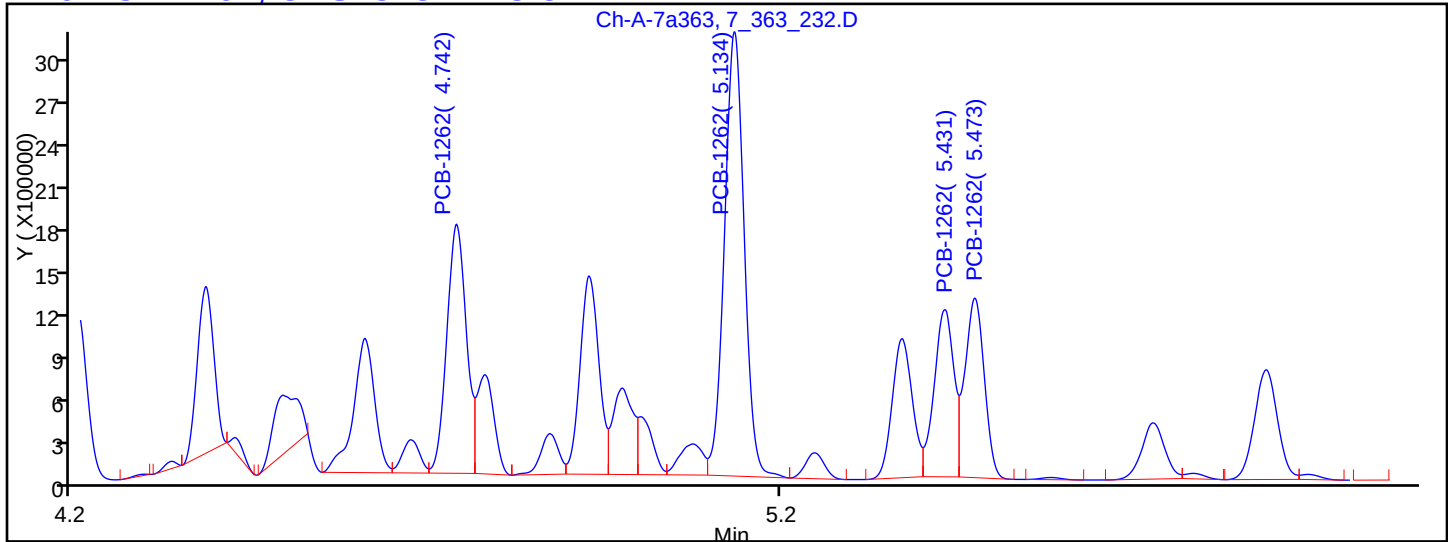
Limit Group:

GC - 8082A PCB ICAL

Column:

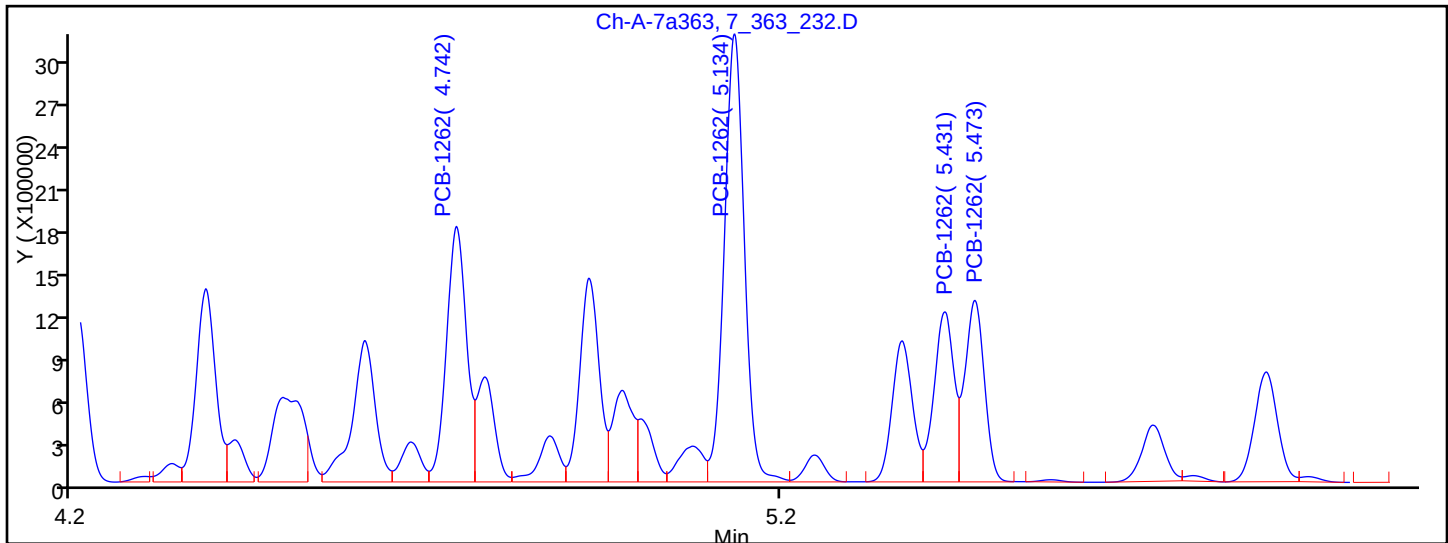
Detector

Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

RT = 4.742	Response = 3341756	M
RT = 5.134	Response = 6004531	M
RT = 5.431	Response = 2254682	M
RT = 5.473	Response = 2378610	M



Manual Integration Results

RT = 4.742	Response = 3516199	M
RT = 5.134	Response = 6154654	M
RT = 5.431	Response = 2315233	M
RT = 5.473	Response = 2425729	M

Reviewer: larsonj, 25-Feb-2015 14:49:23

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_233.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 18:54:38 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:51 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:47:49

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

5 PCB-1232

1	2.117	2.117	0.000	385432	0.5000	0.5000	a
1	2.574	2.574	0.000	202736	0.5000	0.5000	
1	2.773	2.773	0.001	670479	0.5000	0.5000	M
1	2.856	2.855	0.001	258330	0.5000	0.5000	M

Average of Peak Amounts = 0.5000

2	1.963	1.963	0.000	292015	0.5000	0.5000	
2	2.276	2.275	0.001	299592	0.5000	0.5000	
2	2.581	2.581	0.000	572148	0.5000	0.5000	
2	2.693	2.693	0.000	230995	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

10 PCB-1262

1	4.742	4.741	0.001	946338	0.5000	0.5000	M
1	5.134	5.133	0.001	1671809	0.5000	0.5000	M
1	5.431	5.430	0.001	622943	0.5000	0.5000	M
1	5.472	5.473	0.000	640142	0.5000	0.5000	M

Average of Peak Amounts = 0.5000

2	4.473	4.473	0.000	808021	0.5000	0.5000	
2	4.733	4.733	0.000	731869	0.5000	0.5000	
2	4.873	4.873	0.000	1614546	0.5000	0.5000	M
2	5.168	5.168	0.000	650715	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00003

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_233.D

Injection Date: 24-Feb-2015 18:54:38

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 14

Client ID:

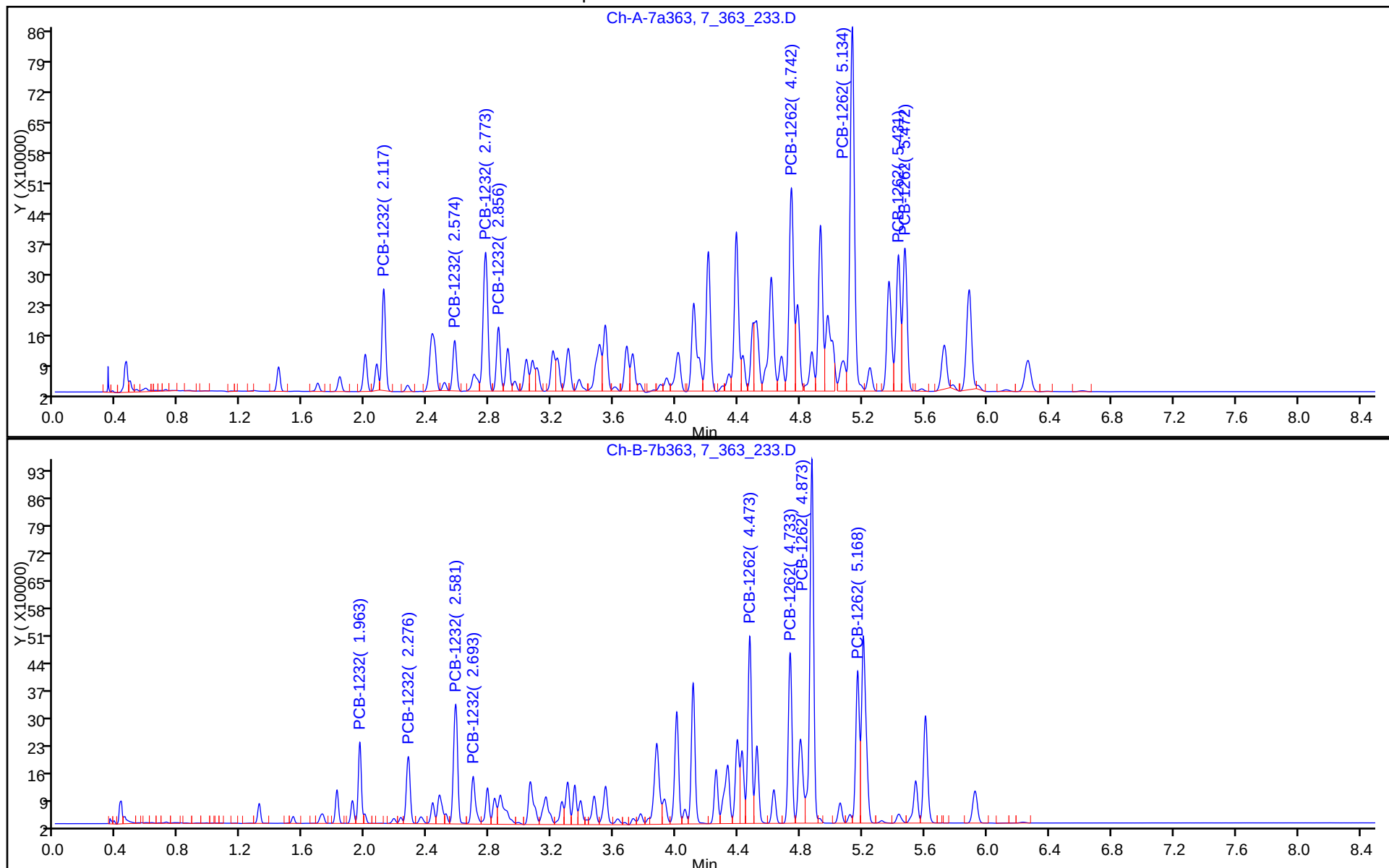
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_233.D

Injection Date: 24-Feb-2015 18:54:38

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 14

Injection Vol: 1.0 ul

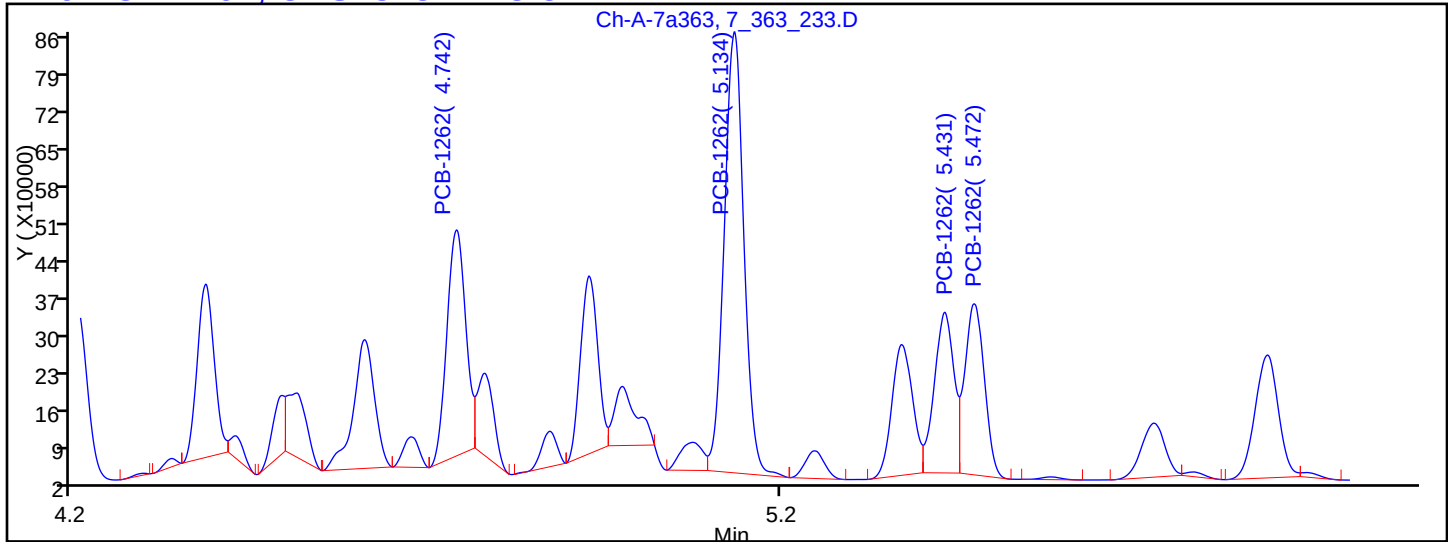
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

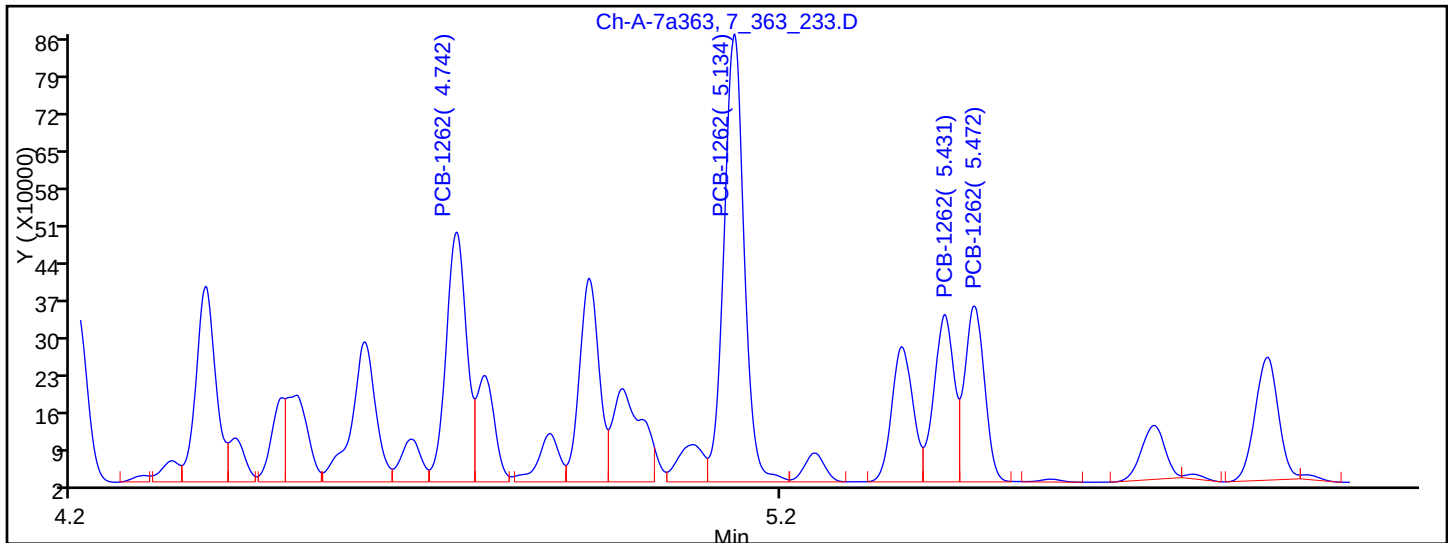
Column:

Detector Ch-A-7A136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

RT = 4.742	Response = 788741	M
RT = 5.134	Response = 1599869	M
RT = 5.431	Response = 583889	M
RT = 5.472	Response = 612322	M



Manual Integration Results

RT = 4.742	Response = 946338	M
RT = 5.134	Response = 1671809	M
RT = 5.431	Response = 622943	M
RT = 5.472	Response = 640142	M

Reviewer: larsonj, 25-Feb-2015 14:47:49

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_234.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 19:10:38 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:53 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj Date: 25-Feb-2015 14:48:31

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

5 PCB-1232

1	2.117	2.117	0.000	22614	0.0200	0.0293	a
1	2.574	2.574	0.000	12064	0.0200	0.0298	
1	2.773	2.773	0.000	34386	0.0200	0.0256	
1	2.855	2.855	0.000	15522	0.0200	0.0300	

Average of Peak Amounts = 0.0287

2	1.963	1.963	0.000	16020	0.0200	0.0274	M
2	2.275	2.275	0.000	15502	0.0200	0.0259	
2	2.581	2.581	0.000	28417	0.0200	0.0248	M
2	2.693	2.693	0.000	10701	0.0200	0.0232	

Average of Peak Amounts = 0.0253

RPD = 12.47

10 PCB-1262

M

1	4.741	4.741	0.000	49349	0.0200	0.0261	
1	5.133	5.133	0.000	80735	0.0200	0.0241	
1	5.430	5.430	0.000	34665	0.0200	0.0278	
1	5.473	5.473	0.000	34860	0.0200	0.0272	

Average of Peak Amounts = 0.0263

2	4.473	4.473	0.000	37466	0.0200	0.0232	
2	4.733	4.733	0.000	33382	0.0200	0.0228	
2	4.873	4.873	0.000	68749	0.0200	0.0213	M
2	5.168	5.168	0.000	29268	0.0200	0.0225	

Average of Peak Amounts = 0.0224

RPD = 15.90

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_234.D

Injection Date: 24-Feb-2015 19:10:38

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 15

Client ID:

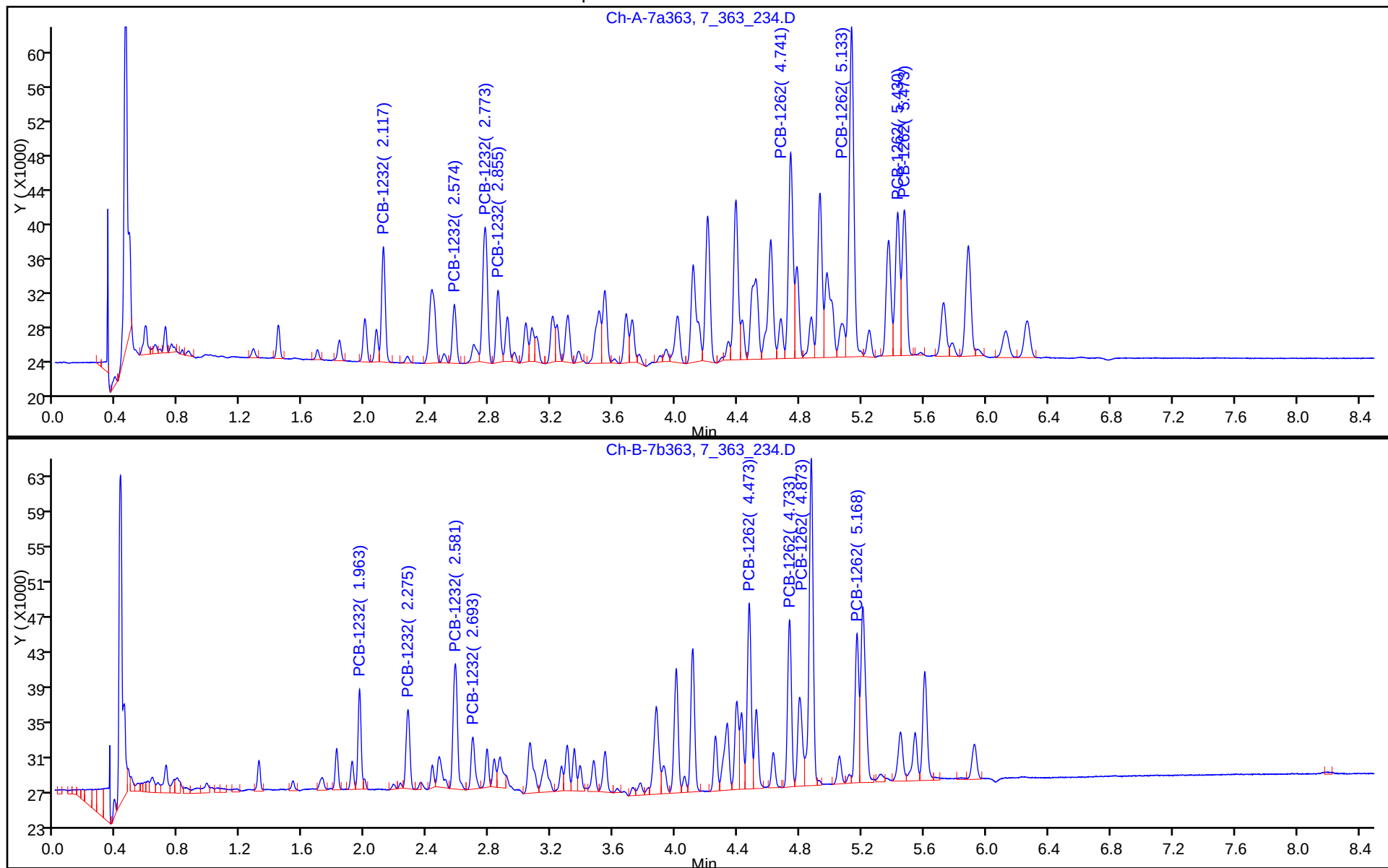
Injection Vol: 1.0 ul

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 18:38 Calibration End Date: 02/24/2015 19:10 Calibration ID: 22234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/15	7_363_234.D
Level 2	STD2 480-228096/14	7_363_233.D
Level 3	STD3 480-228096/13	7_363_232.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1232 Peak 1	+++++	1.963	+++++								1.933 - 1.993	1.963
PCB-1232 Peak 2	+++++	2.276	+++++								2.245 - 2.305	2.276
PCB-1232 Peak 3	+++++	2.581	+++++								2.551 - 2.611	2.581
PCB-1232 Peak 4	+++++	2.693	+++++								2.663 - 2.723	2.693
PCB-1262 Peak 1	+++++	4.473	+++++								4.443 - 4.503	4.473
PCB-1262 Peak 2	+++++	4.733	+++++								4.703 - 4.763	4.733
PCB-1262 Peak 3	+++++	4.873	+++++								4.843 - 4.903	4.873
PCB-1262 Peak 4	+++++	5.168	+++++								5.138 - 5.198	5.168

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 18:38 Calibration End Date: 02/24/2015 19:10 Calibration ID: 22234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/15	7_363_234.D
Level 2	STD2 480-228096/14	7_363_233.D
Level 3	STD3 480-228096/13	7_363_232.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	+++++	584030	+++++		Ave		584030.000						20.0			
PCB-1232 Peak 2	+++++	599184	+++++		Ave		599184.000						20.0			
PCB-1232 Peak 3	+++++	1144296	+++++		Ave		1144296.00						20.0			
PCB-1232 Peak 4	+++++	461990	+++++		Ave		461990.000						20.0			
PCB-1262 Peak 1	+++++	1616042	+++++		Ave		1616042.00						20.0			
PCB-1262 Peak 2	+++++	1463738	+++++		Ave		1463738.00						20.0			
PCB-1262 Peak 3	+++++	3229092	+++++		Ave		3229092.00						20.0			
PCB-1262 Peak 4	+++++	1301430	+++++		Ave		1301430.00						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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 18:38 Calibration End Date: 02/24/2015 19:10 Calibration ID: 22234

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/15	7_363_234.D
Level 2	STD2 480-228096/14	7_363_233.D
Level 3	STD3 480-228096/13	7_363_232.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	+++++	292015	+++++			+++++	0.500	+++++		
PCB-1232 Peak 2	Ave	+++++	299592	+++++			+++++	0.500	+++++		
PCB-1232 Peak 3	Ave	+++++	572148	+++++			+++++	0.500	+++++		
PCB-1232 Peak 4	Ave	+++++	230995	+++++			+++++	0.500	+++++		
PCB-1262 Peak 1	Ave	+++++	808021	+++++			+++++	0.500	+++++		
PCB-1262 Peak 2	Ave	+++++	731869	+++++			+++++	0.500	+++++		
PCB-1262 Peak 3	Ave	+++++	1614546	+++++			+++++	0.500	+++++		
PCB-1262 Peak 4	Ave	+++++	650715	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_232.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 18:38:51 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:48 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:49:23

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

5 PCB-1232

1	2.116	2.117	-0.001	1328174	2.00	1.72	M
1	2.573	2.574	-0.001	659699	2.00	1.63	
1	2.773	2.773	0.001	2425155	2.00	1.81	M
1	2.856	2.855	0.001	910095	2.00	1.76	M

Average of Peak Amounts =

1.73

2	1.963	1.963	0.000	938811	2.00	1.61	M
2	2.275	2.275	0.000	994014	2.00	1.66	
2	2.582	2.581	0.001	2029095	2.00	1.77	
2	2.693	2.693	0.000	782858	2.00	1.69	

Average of Peak Amounts =

1.68

RPD = 2.72

10 PCB-1262

1	4.742	4.741	0.001	3516199	2.00	1.86	M
1	5.134	5.133	0.001	6154654	2.00	1.84	M
1	5.431	5.430	0.001	2315233	2.00	1.86	M
1	5.473	5.473	0.001	2425729	2.00	1.89	M

Average of Peak Amounts =

1.86

2	4.474	4.473	0.001	3059456	2.00	1.89	
2	4.734	4.733	0.001	2806508	2.00	1.92	
2	4.873	4.873	0.000	6254924	2.00	1.94	M
2	5.168	5.168	0.000	2472679	2.00	1.90	

Average of Peak Amounts =

1.91

RPD = 2.60

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_232.D

Injection Date: 24-Feb-2015 18:38:51

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 13

Client ID:

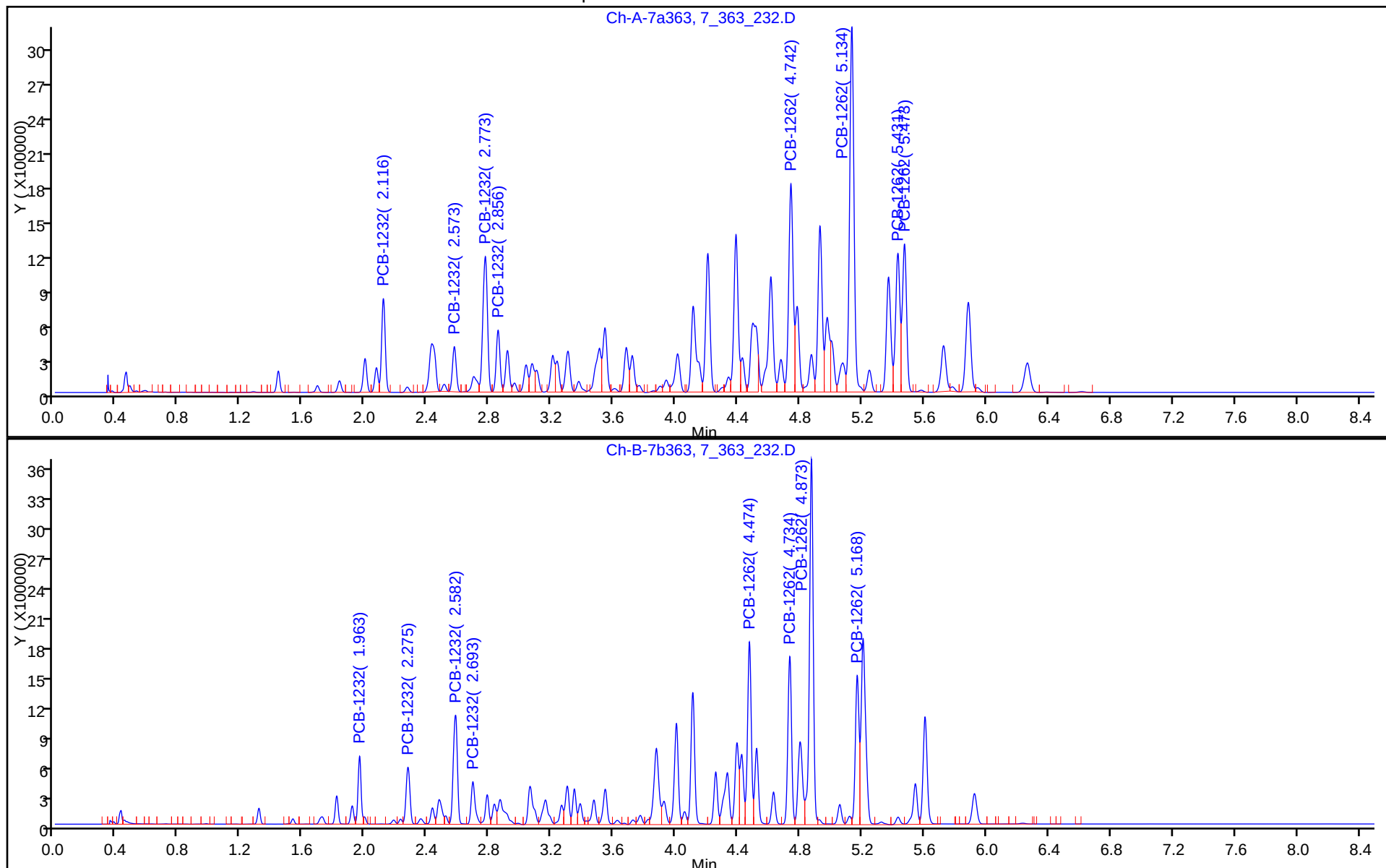
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_232.D

Injection Date: 24-Feb-2015 18:38:51

Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

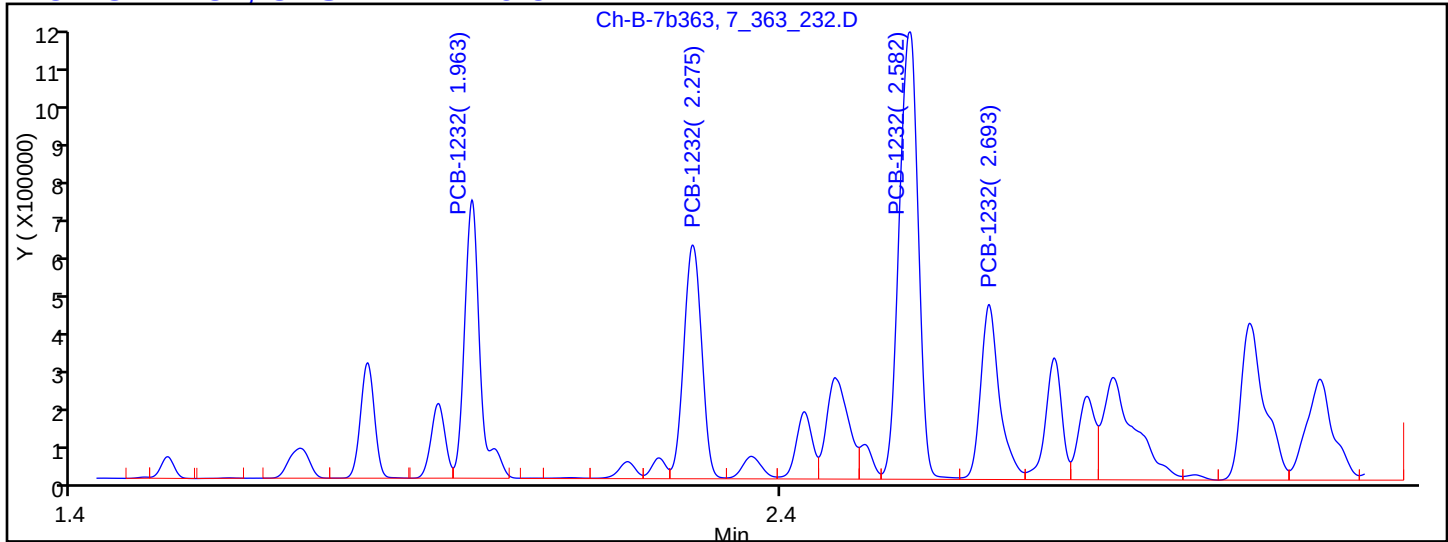
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

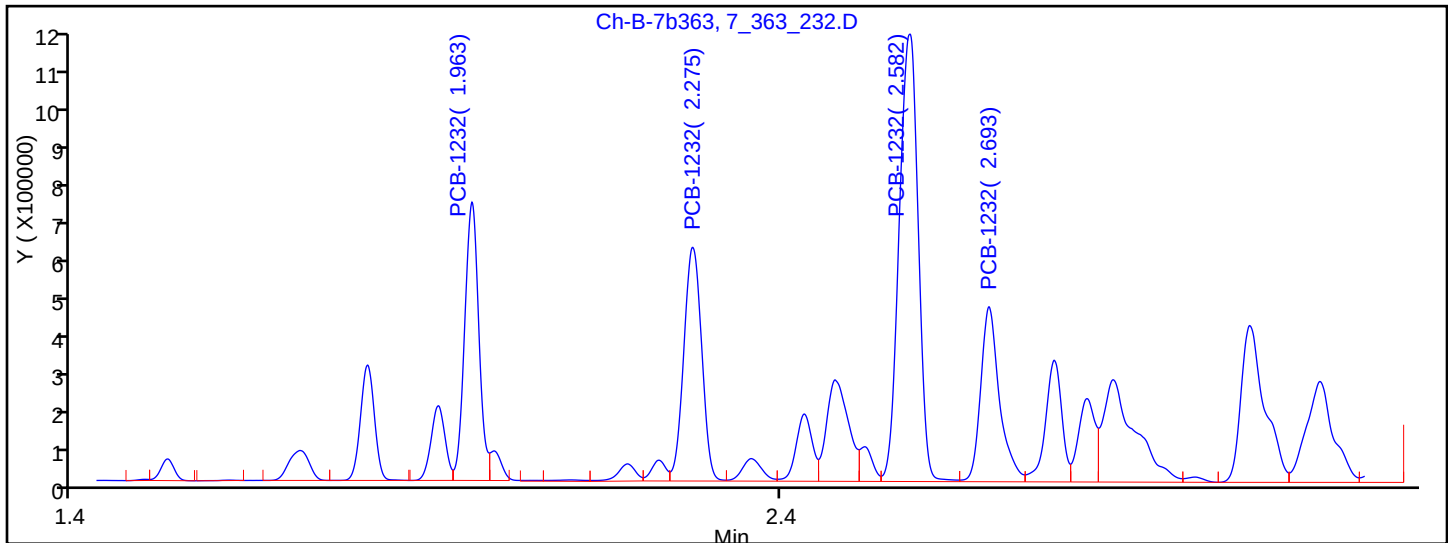
Detector Ch-B-7b136

5 PCB-1232, CAS: 11141-16-5



Processing Integration Results

RT = 1.963	Response = 1015587	M
RT = 2.275	Response = 994014	
RT = 2.582	Response = 2029095	
RT = 2.693	Response = 782858	



Manual Integration Results

RT = 1.963	Response = 938811	M
RT = 2.275	Response = 994014	
RT = 2.582	Response = 2029095	
RT = 2.693	Response = 782858	

Reviewer: larsonj, 25-Feb-2015 14:55:20

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_232.D

Injection Date: 24-Feb-2015 18:38:51

Instrument ID: HP6890-7

Lims ID: STD3

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 13

Injection Vol: 1.0 ul

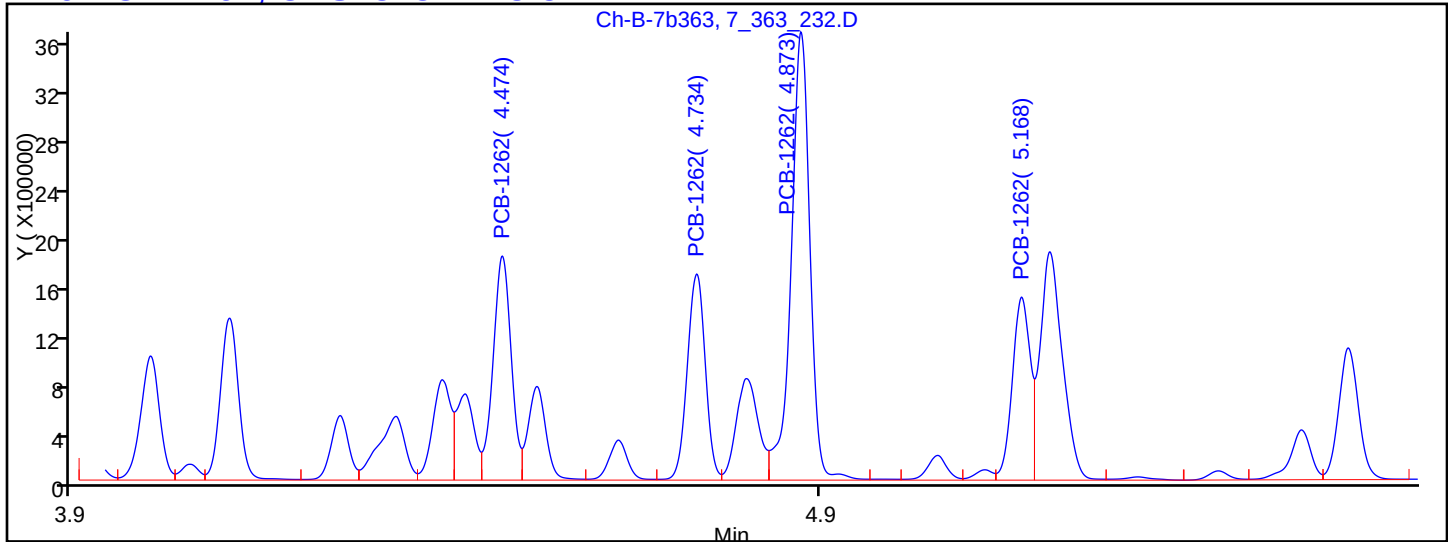
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

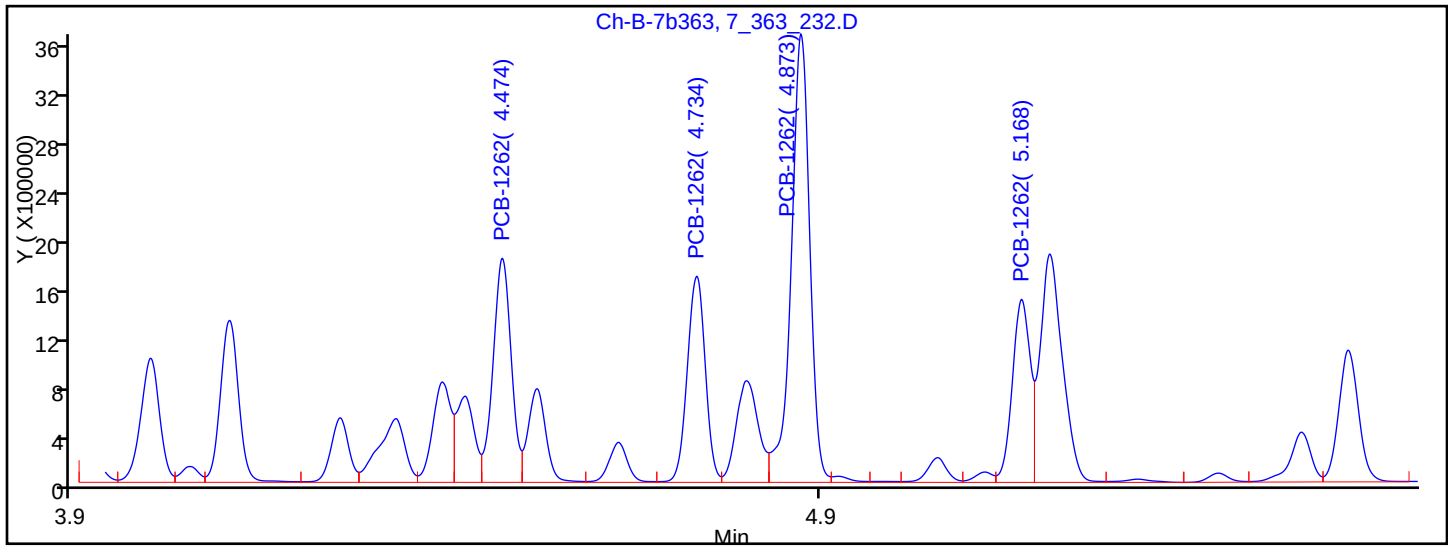
RT = 4.474 Response = 3059456

RT = 4.734 Response = 2806508

RT = 4.873 Response = 6336528

RT = 5.168 Response = 2472679

M



Manual Integration Results

RT = 4.474 Response = 3059456

RT = 4.734 Response = 2806508

RT = 4.873 Response = 6254924

RT = 5.168 Response = 2472679

M

Reviewer: larsonj, 25-Feb-2015 14:49:23

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_233.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 18:54:38 ALS Bottle#: 0 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub27
 Method: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:51 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:47:49

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

5 PCB-1232

1	2.117	2.117	0.000	385432	0.5000	0.5000	a
1	2.574	2.574	0.000	202736	0.5000	0.5000	
1	2.773	2.773	0.001	670479	0.5000	0.5000	M
1	2.856	2.855	0.001	258330	0.5000	0.5000	M

Average of Peak Amounts = 0.5000

2	1.963	1.963	0.000	292015	0.5000	0.5000	
2	2.276	2.275	0.001	299592	0.5000	0.5000	
2	2.581	2.581	0.000	572148	0.5000	0.5000	
2	2.693	2.693	0.000	230995	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

10 PCB-1262

1	4.742	4.741	0.001	946338	0.5000	0.5000	M
1	5.134	5.133	0.001	1671809	0.5000	0.5000	M
1	5.431	5.430	0.001	622943	0.5000	0.5000	M
1	5.472	5.473	0.000	640142	0.5000	0.5000	M

Average of Peak Amounts = 0.5000

2	4.473	4.473	0.000	808021	0.5000	0.5000	
2	4.733	4.733	0.000	731869	0.5000	0.5000	
2	4.873	4.873	0.000	1614546	0.5000	0.5000	M
2	5.168	5.168	0.000	650715	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00003

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_233.D

Injection Date: 24-Feb-2015 18:54:38

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 14

Client ID:

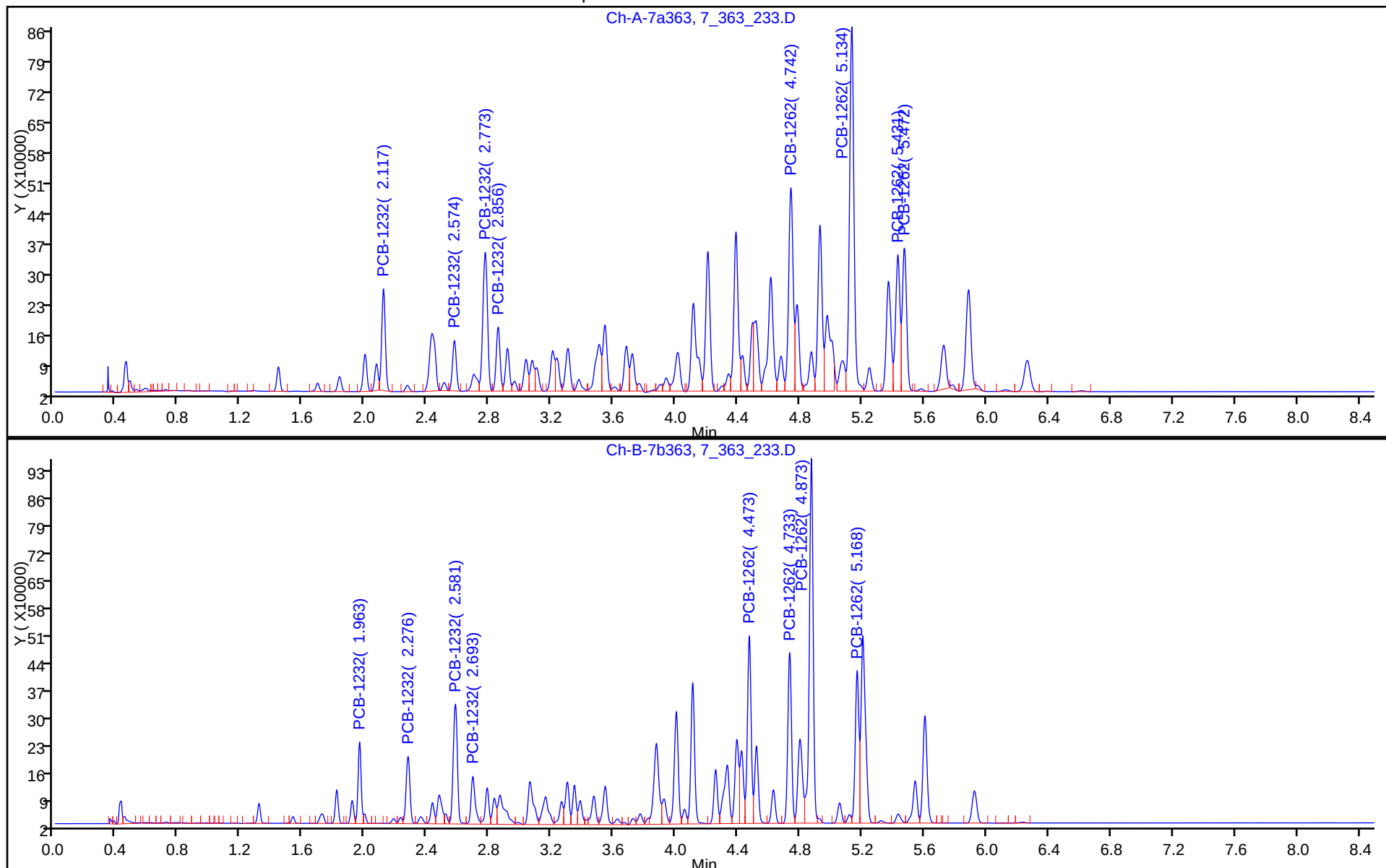
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_233.D

Injection Date: 24-Feb-2015 18:54:38

Instrument ID: HP6890-7

Lims ID: STD2

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 14

Injection Vol: 1.0 ul

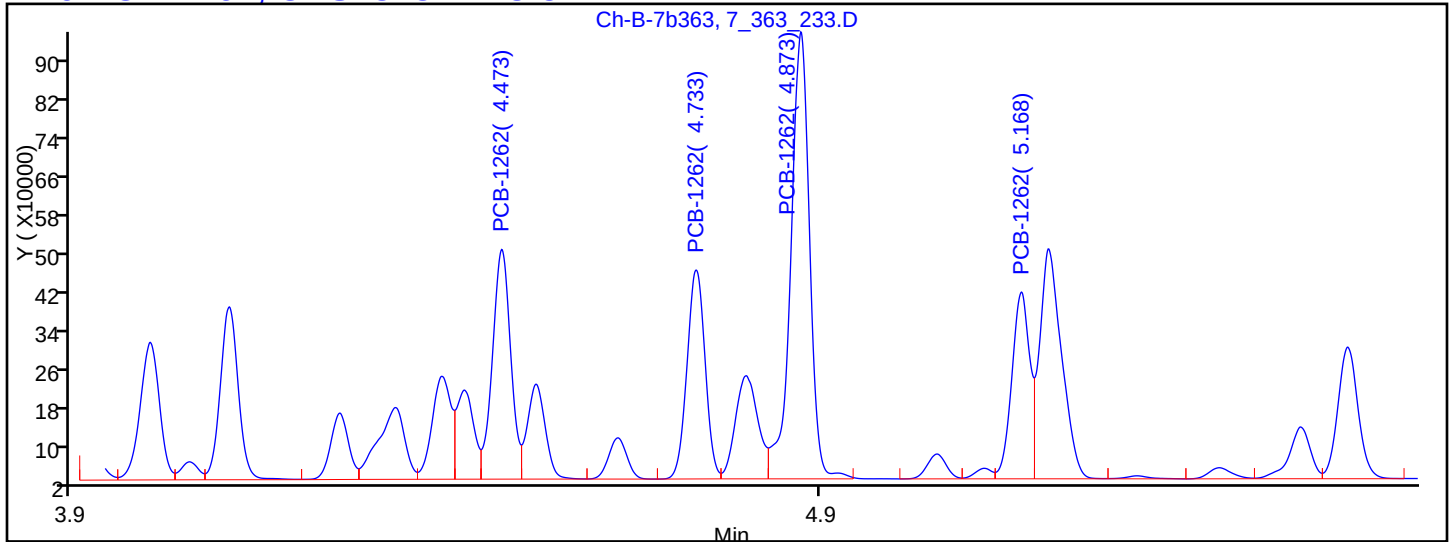
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

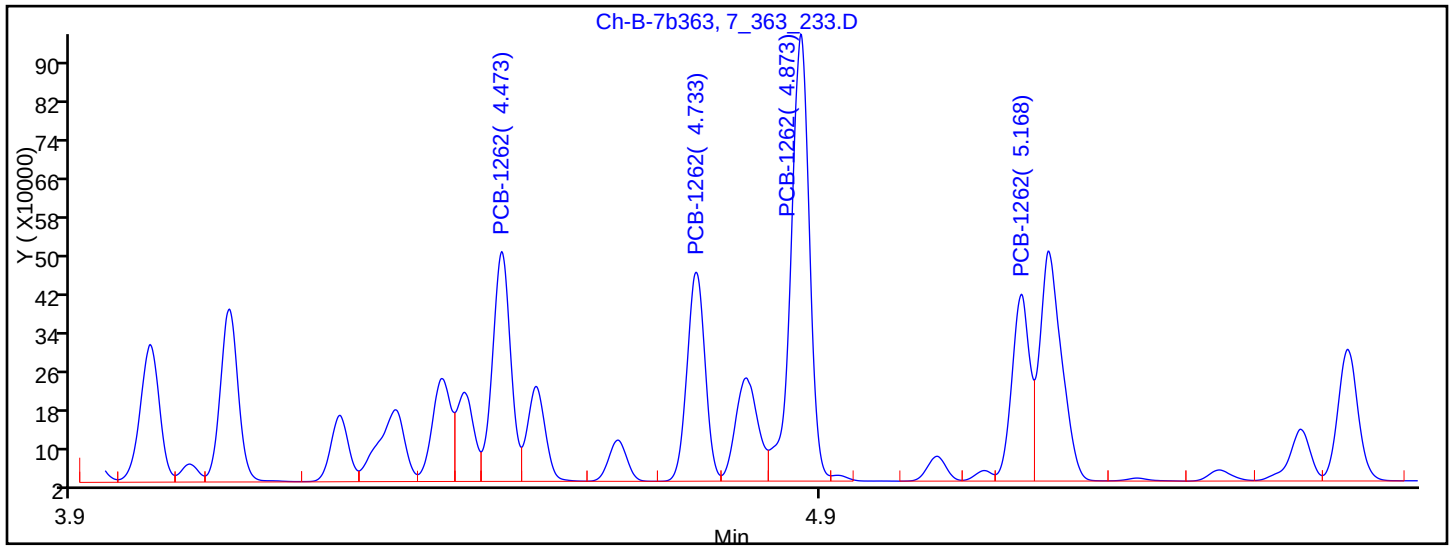
Detector Ch-B-7b136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

RT = 4.473	Response = 808021
RT = 4.733	Response = 731869
RT = 4.873	Response = 1631137
RT = 5.168	Response = 650715

M



Manual Integration Results

RT = 4.473	Response = 808021
RT = 4.733	Response = 731869
RT = 4.873	Response = 1614546
RT = 5.168	Response = 650715

M

Reviewer: larsonj, 25-Feb-2015 14:48:41

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_234.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 19:10:38 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:53 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:48:31

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

5 PCB-1232

1	2.117	2.117	0.000	22614	0.0200	0.0293	a
1	2.574	2.574	0.000	12064	0.0200	0.0298	
1	2.773	2.773	0.000	34386	0.0200	0.0256	
1	2.855	2.855	0.000	15522	0.0200	0.0300	

Average of Peak Amounts = 0.0287

2	1.963	1.963	0.000	16020	0.0200	0.0274	M
2	2.275	2.275	0.000	15502	0.0200	0.0259	
2	2.581	2.581	0.000	28417	0.0200	0.0248	M
2	2.693	2.693	0.000	10701	0.0200	0.0232	

Average of Peak Amounts = 0.0253

RPD = 12.47

10 PCB-1262

1	4.741	4.741	0.000	49349	0.0200	0.0261	
1	5.133	5.133	0.000	80735	0.0200	0.0241	
1	5.430	5.430	0.000	34665	0.0200	0.0278	
1	5.473	5.473	0.000	34860	0.0200	0.0272	

Average of Peak Amounts = 0.0263

2	4.473	4.473	0.000	37466	0.0200	0.0232	
2	4.733	4.733	0.000	33382	0.0200	0.0228	
2	4.873	4.873	0.000	68749	0.0200	0.0213	M
2	5.168	5.168	0.000	29268	0.0200	0.0225	

Average of Peak Amounts = 0.0224

RPD = 15.90

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

1232-1262 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_234.D

Injection Date: 24-Feb-2015 19:10:38

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 15

Client ID:

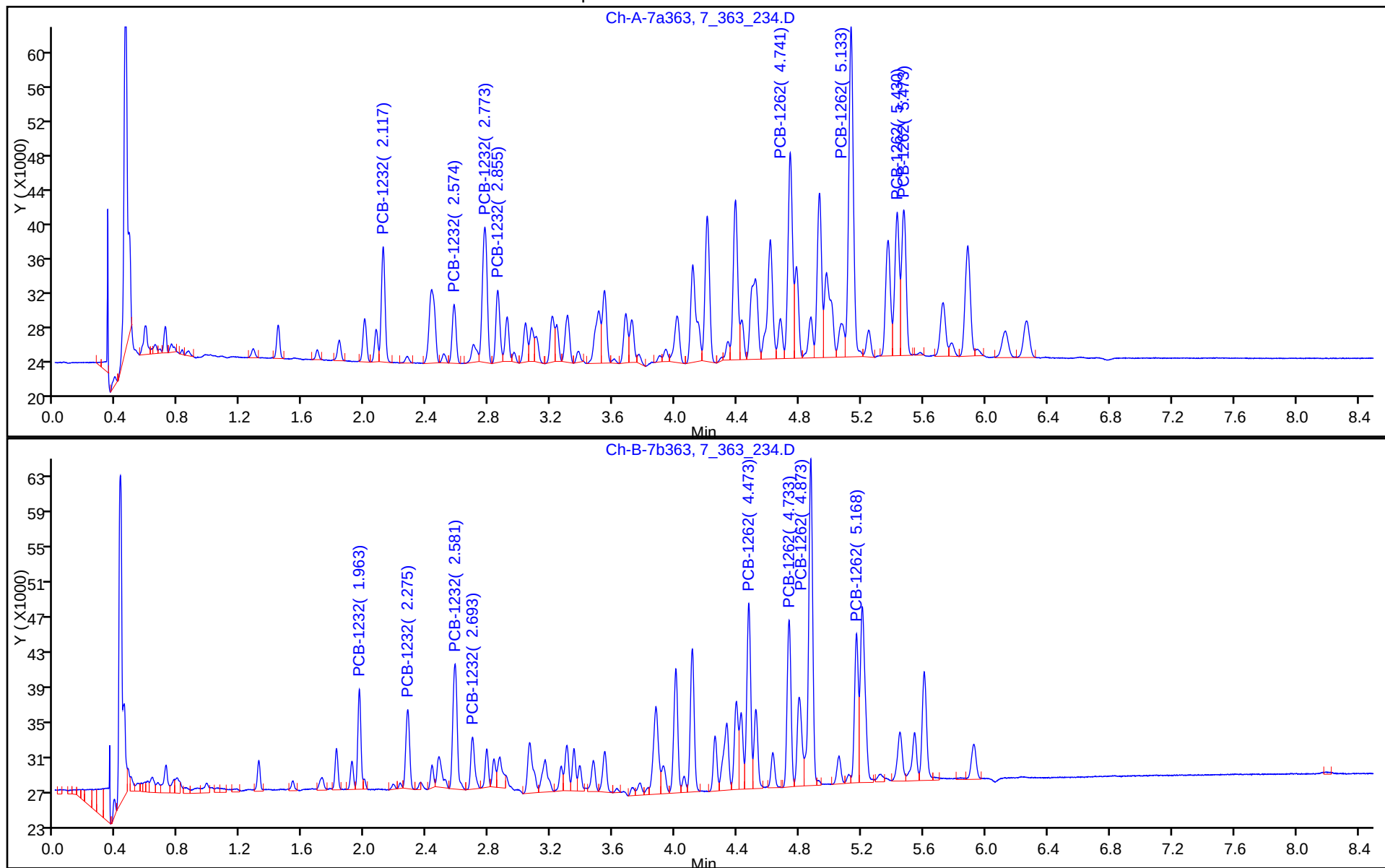
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_234.D

Injection Date: 24-Feb-2015 19:10:38

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 15

Injection Vol: 1.0 ul

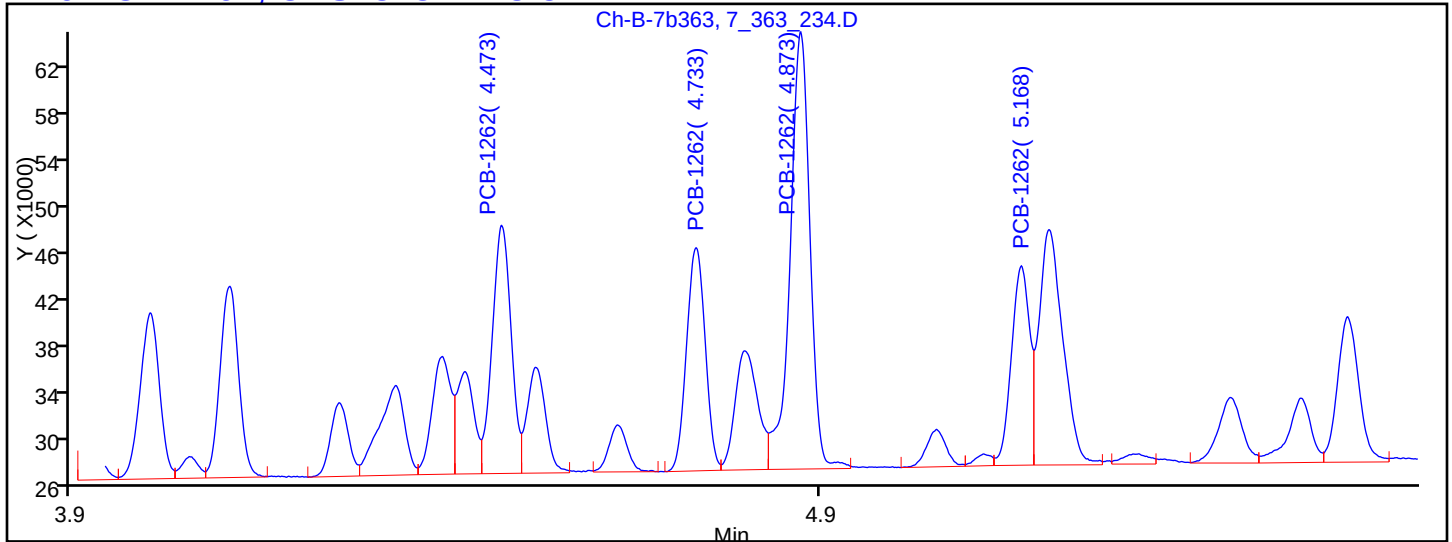
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

Detector Ch-B-7b136

10 PCB-1262, CAS: 37324-23-5

Processing Integration Results

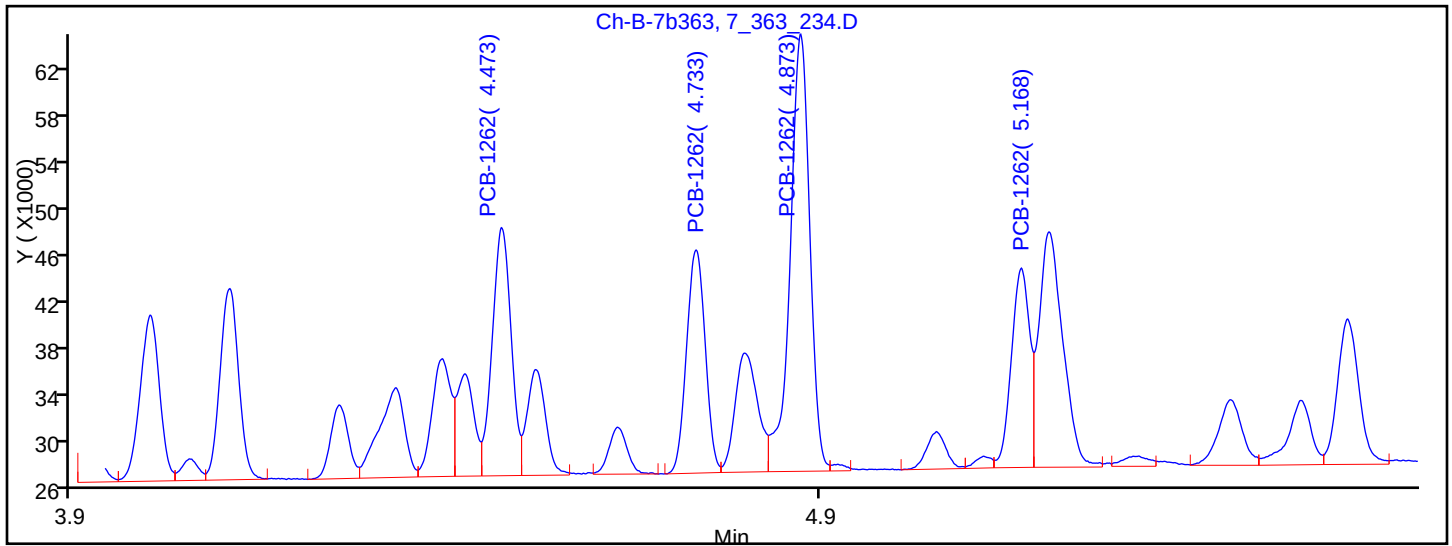
RT = 4.473 Response = 37466

RT = 4.733 Response = 33382

RT = 4.873 Response = 69488

RT = 5.168 Response = 29268

M



Manual Integration Results

RT = 4.473 Response = 37466

RT = 4.733 Response = 33382

RT = 4.873 Response = 68749

RT = 5.168 Response = 29268

M

Reviewer: larsonj, 25-Feb-2015 14:48:31

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 19:42 Calibration End Date: 02/24/2015 20:14 Calibration ID: 22239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/19	7_363_238.D
Level 2	STD2 480-228096/18	7_363_237.D
Level 3	STD3 480-228096/17	7_363_236.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1242 Peak 1	+++++	2.773	+++++								2.742 - 2.802	2.773
PCB-1242 Peak 2	+++++	3.208	+++++								3.177 - 3.237	3.208
PCB-1242 Peak 3	+++++	3.304	+++++								3.274 - 3.334	3.304
PCB-1242 Peak 4	+++++	3.507	+++++								3.477 - 3.537	3.507
PCB-1268 Peak 1	+++++	5.431	+++++								5.400 - 5.460	5.431
PCB-1268 Peak 2	+++++	5.471	+++++								5.442 - 5.502	5.471
PCB-1268 Peak 3	+++++	5.712	+++++								5.682 - 5.742	5.712
PCB-1268 Peak 4	+++++	6.263	+++++								6.234 - 6.294	6.263

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 19:42 Calibration End Date: 02/24/2015 20:14 Calibration ID: 22239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/19	7_363_238.D
Level 2	STD2 480-228096/18	7_363_237.D
Level 3	STD3 480-228096/17	7_363_236.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	+++++	2436306	+++++		Ave		2436306.00						20.0			
PCB-1242 Peak 2	+++++	700212	+++++		Ave		700212.000						20.0			
PCB-1242 Peak 3	+++++	833232	+++++		Ave		833232.000						20.0			
PCB-1242 Peak 4	+++++	1173480	+++++		Ave		1173480.00						20.0			
PCB-1268 Peak 1	+++++	3665734	+++++		Ave		3665734.00						20.0			
PCB-1268 Peak 2	+++++	3203430	+++++		Ave		3203430.00						20.0			
PCB-1268 Peak 3	+++++	2770856	+++++		Ave		2770856.00						20.0			
PCB-1268 Peak 4	+++++	8759296	+++++		Ave		8759296.00						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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 19:42 Calibration End Date: 02/24/2015 20:14 Calibration ID: 22239

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/19	7_363_238.D
Level 2	STD2 480-228096/18	7_363_237.D
Level 3	STD3 480-228096/17	7_363_236.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	+++++	1218153	+++++			+++++	0.500	+++++		
PCB-1242 Peak 2	Ave	+++++	350106	+++++			+++++	0.500	+++++		
PCB-1242 Peak 3	Ave	+++++	416616	+++++			+++++	0.500	+++++		
PCB-1242 Peak 4	Ave	+++++	586740	+++++			+++++	0.500	+++++		
PCB-1268 Peak 1	Ave	+++++	1832867	+++++			+++++	0.500	+++++		
PCB-1268 Peak 2	Ave	+++++	1601715	+++++			+++++	0.500	+++++		
PCB-1268 Peak 3	Ave	+++++	1385428	+++++			+++++	0.500	+++++		
PCB-1268 Peak 4	Ave	+++++	4379648	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_236.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 19:42:20 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:40 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: sobolk

Date: 25-Feb-2015 12:35:14

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

4 PCB-1242

1	2.773	2.772	0.000	4372374	2.00	1.79	
1	3.208	3.207	0.001	1192628	2.00	1.70	
1	3.305	3.304	0.001	1501752	2.00	1.80	
1	3.507	3.507	0.000	2104874	2.00	1.79	

Average of Peak Amounts = 1.77

2	2.579	2.578	0.001	3549764	2.00	1.73	
2	2.692	2.692	0.000	1337532	2.00	1.68	
2	3.060	3.060	0.000	1705217	2.00	1.74	
2	3.347	3.346	0.001	1134014	2.00	1.81	

Average of Peak Amounts = 1.74

RPD = 1.86

11 PCB-1268

1	5.432	5.430	0.002	6953888	2.00	1.90	
1	5.472	5.472	0.000	6180265	2.00	1.93	
1	5.713	5.712	0.000	5310513	2.00	1.92	a
1	6.264	6.264	0.000	16567502	2.00	1.89	a

Average of Peak Amounts = 1.91

2	5.167	5.166	0.001	6584410	2.00	1.96	
2	5.205	5.205	0.000	6008190	2.00	1.95	
2	5.431	5.431	0.000	4866635	2.00	1.88	
2	5.924	5.924	0.000	16796468	2.00	1.97	

Average of Peak Amounts = 1.94

RPD = 1.59

Reagents:

1242-1268 2.0_00004

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_236.D

Injection Date: 24-Feb-2015 19:42:20

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 17

Client ID:

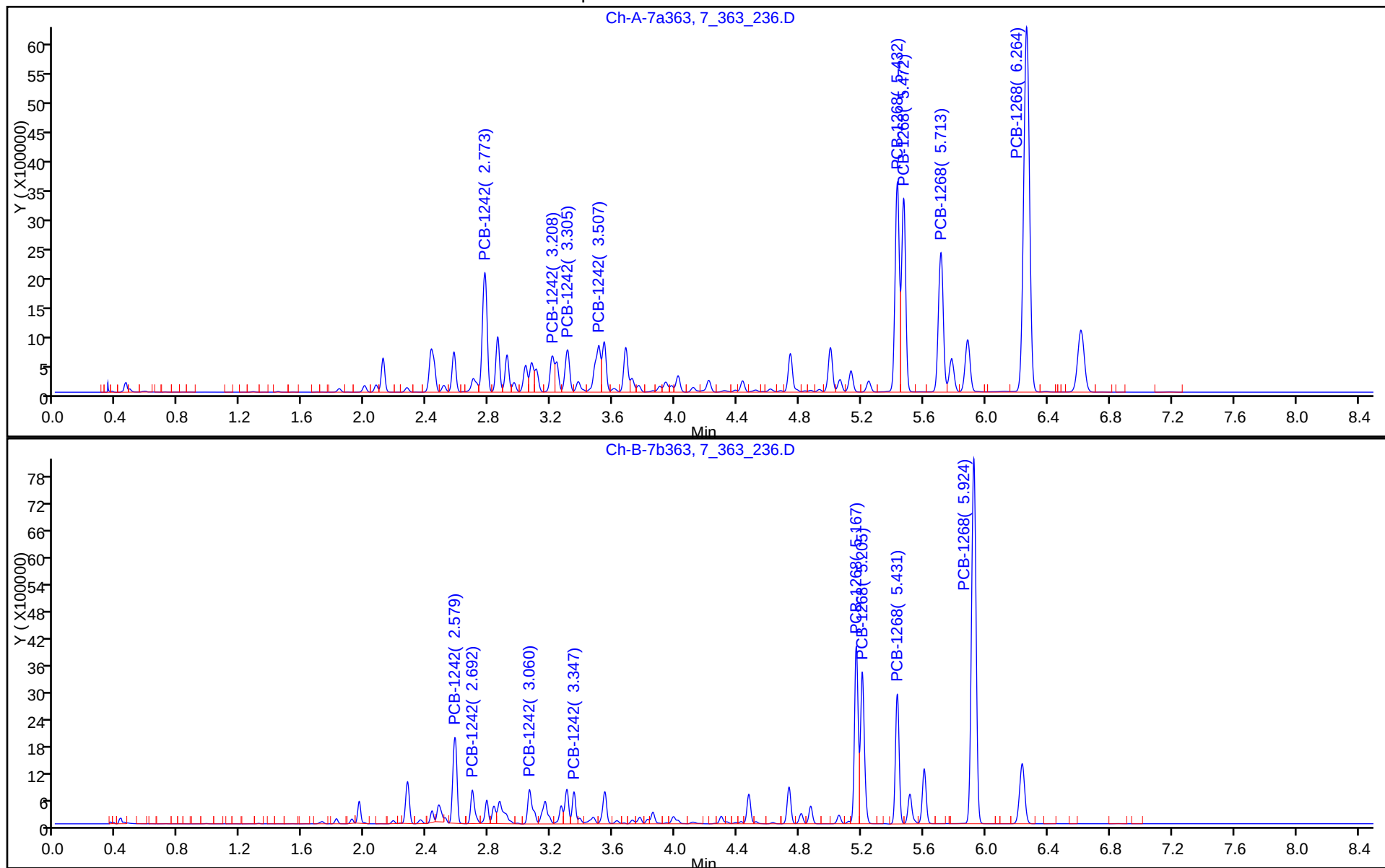
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_237.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 19:58:10 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:43 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

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

Process Host: XAWRK004

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

4 PCB-1242

1	2.773	2.772	0.000	1218153	0.5000	0.5000	
1	3.208	3.207	0.001	350106	0.5000	0.5000	
1	3.304	3.304	0.000	416616	0.5000	0.5000	
1	3.507	3.507	0.000	586740	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	2.579	2.578	0.001	1024575	0.5000	0.5000	
2	2.692	2.692	0.000	398315	0.5000	0.5000	
2	3.060	3.060	0.000	488789	0.5000	0.5000	
2	3.346	3.346	0.000	313733	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

11 PCB-1268

1	5.431	5.430	0.001	1832867	0.5000	0.5000	
1	5.471	5.472	-0.001	1601715	0.5000	0.5000	
1	5.712	5.712	0.000	1385428	0.5000	0.5000	
1	6.263	6.264	-0.001	4379648	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	5.167	5.166	0.001	1676773	0.5000	0.5000	
2	5.205	5.205	0.000	1543474	0.5000	0.5000	
2	5.430	5.431	-0.001	1295470	0.5000	0.5000	
2	5.923	5.924	-0.001	4266174	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1242-1268 2.0_00004

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_237.D

Injection Date: 24-Feb-2015 19:58:10

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 18

Client ID:

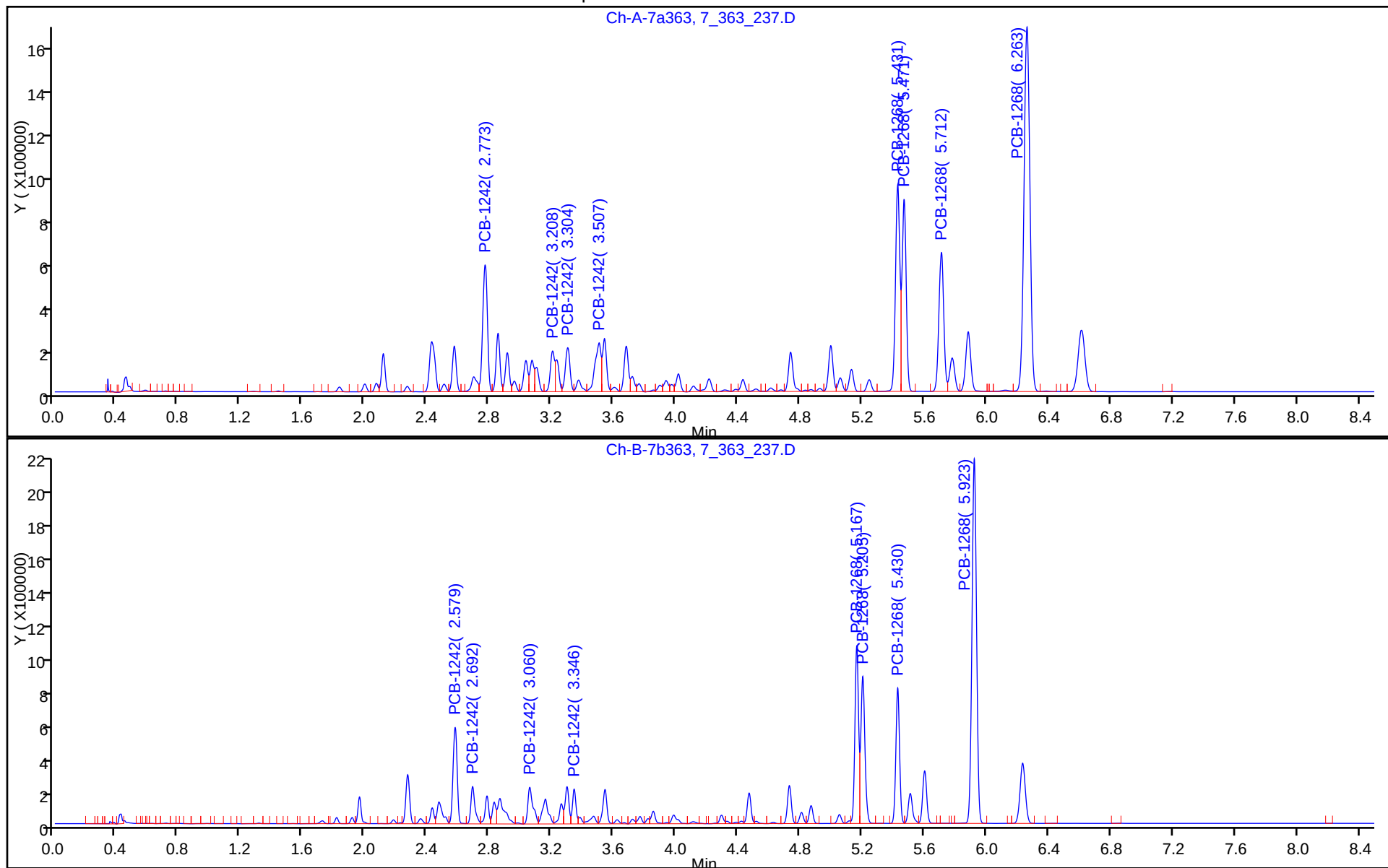
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_238.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 20:14:10 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:46 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

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

Process Host: XAWRK004

First Level Reviewer: larsonj Date: 25-Feb-2015 14:45:46

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

4 PCB-1242

							M
1	2.772	2.772	0.000	64435	0.0200	0.0264	
1	3.207	3.207	0.000	20729	0.0200	0.0296	
1	3.304	3.304	0.000	23877	0.0200	0.0287	
1	3.507	3.507	0.000	33374	0.0200	0.0284	
Average of Peak Amounts =						0.0283	
2	2.578	2.578	0.000	53175	0.0200	0.0259	M
2	2.692	2.692	0.000	21239	0.0200	0.0267	M
2	3.060	3.060	0.000	27779	0.0200	0.0284	
2	3.346	3.346	0.000	16908	0.0200	0.0269	
Average of Peak Amounts =						0.0270	
						RPD = 4.68	

11 PCB-1268

1	5.430	5.430	0.000	94735	0.0200	0.0258	
1	5.472	5.472	0.000	82461	0.0200	0.0257	
1	5.712	5.712	0.000	74865	0.0200	0.0270	
1	6.264	6.264	0.000	213158	0.0200	0.0243	
Average of Peak Amounts =						0.0257	
2	5.166	5.166	0.000	78807	0.0200	0.0235	
2	5.205	5.205	0.000	70876	0.0200	0.0230	
2	5.431	5.431	0.000	68696	0.0200	0.0265	
2	5.924	5.924	0.000	186630	0.0200	0.0219	
Average of Peak Amounts =						0.0237	
						RPD = 8.18	

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\20150224-39815.b\7_363_238.D

Injection Date: 24-Feb-2015 20:14:10

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 19

Client ID:

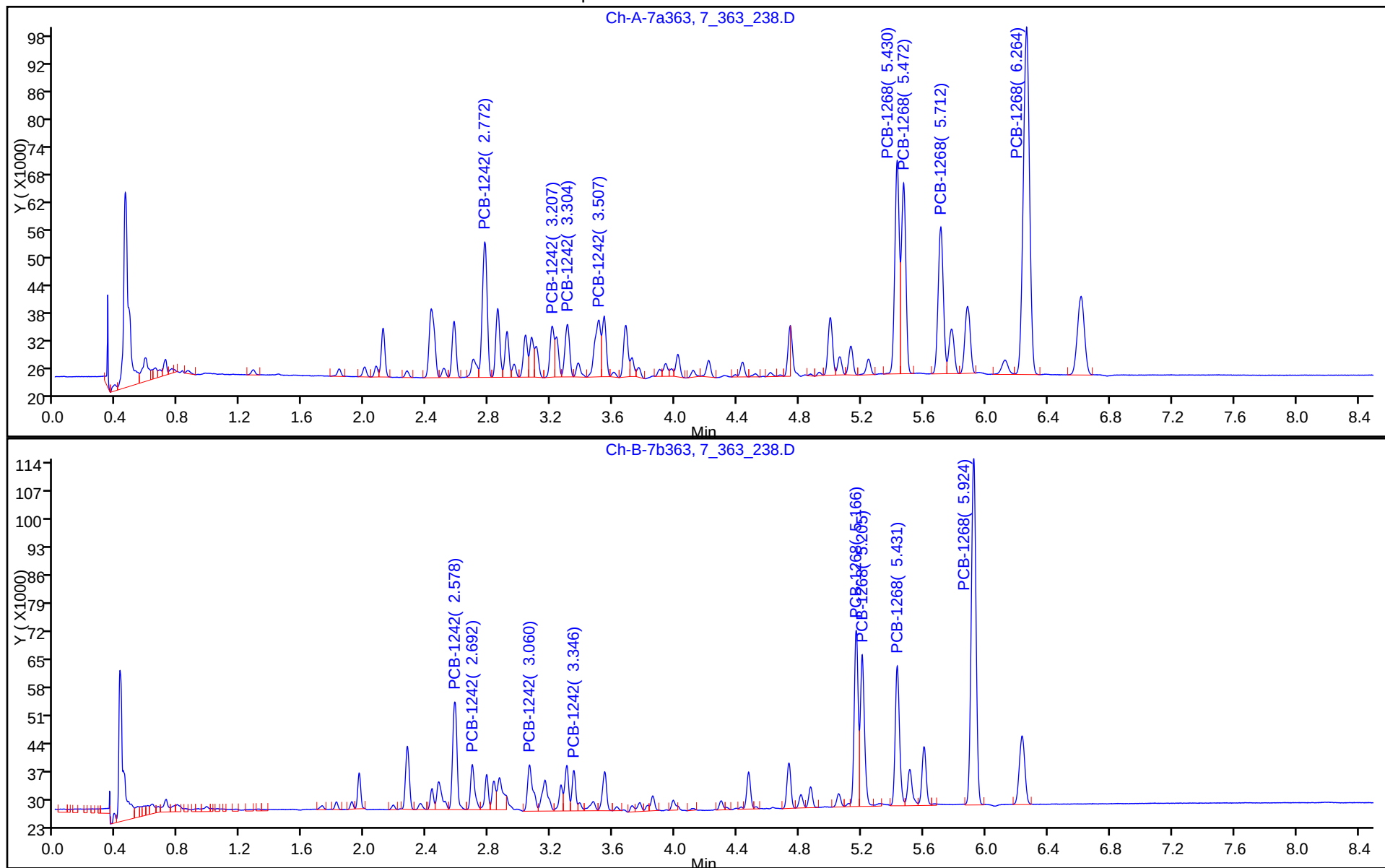
Injection Vol: 1.0 ul

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 19:42 Calibration End Date: 02/24/2015 20:14 Calibration ID: 22240

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/19	7_363_238.D
Level 2	STD2 480-228096/18	7_363_237.D
Level 3	STD3 480-228096/17	7_363_236.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1242 Peak 1	+++++	2.579	+++++								2.548 - 2.608	2.579
PCB-1242 Peak 2	+++++	2.692	+++++								2.662 - 2.722	2.692
PCB-1242 Peak 3	+++++	3.060	+++++								3.030 - 3.090	3.060
PCB-1242 Peak 4	+++++	3.346	+++++								3.316 - 3.376	3.346
PCB-1268 Peak 1	+++++	5.167	+++++								5.136 - 5.196	5.167
PCB-1268 Peak 2	+++++	5.205	+++++								5.175 - 5.235	5.205
PCB-1268 Peak 3	+++++	5.430	+++++								5.401 - 5.461	5.430
PCB-1268 Peak 4	+++++	5.923	+++++								5.894 - 5.954	5.923

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 19:42 Calibration End Date: 02/24/2015 20:14 Calibration ID: 22240

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/19	7_363_238.D
Level 2	STD2 480-228096/18	7_363_237.D
Level 3	STD3 480-228096/17	7_363_236.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	+++++	2049150	+++++		Ave		2049150.00						20.0			
PCB-1242 Peak 2	+++++	796630	+++++		Ave		796630.000						20.0			
PCB-1242 Peak 3	+++++	977578	+++++		Ave		977578.000						20.0			
PCB-1242 Peak 4	+++++	627466	+++++		Ave		627466.000						20.0			
PCB-1268 Peak 1	+++++	3353546	+++++		Ave		3353546.00						20.0			
PCB-1268 Peak 2	+++++	3086948	+++++		Ave		3086948.00						20.0			
PCB-1268 Peak 3	+++++	2590940	+++++		Ave		2590940.00						20.0			
PCB-1268 Peak 4	+++++	8532348	+++++		Ave		8532348.00						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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 19:42 Calibration End Date: 02/24/2015 20:14 Calibration ID: 22240

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/19	7_363_238.D
Level 2	STD2 480-228096/18	7_363_237.D
Level 3	STD3 480-228096/17	7_363_236.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	+++++	1024575	+++++			+++++	0.500	+++++		
PCB-1242 Peak 2	Ave	+++++	398315	+++++			+++++	0.500	+++++		
PCB-1242 Peak 3	Ave	+++++	488789	+++++			+++++	0.500	+++++		
PCB-1242 Peak 4	Ave	+++++	313733	+++++			+++++	0.500	+++++		
PCB-1268 Peak 1	Ave	+++++	1676773	+++++			+++++	0.500	+++++		
PCB-1268 Peak 2	Ave	+++++	1543474	+++++			+++++	0.500	+++++		
PCB-1268 Peak 3	Ave	+++++	1295470	+++++			+++++	0.500	+++++		
PCB-1268 Peak 4	Ave	+++++	4266174	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_236.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 19:42:20 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:40 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: sobolk

Date: 25-Feb-2015 12:35:14

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

4 PCB-1242

1	2.773	2.772	0.000	4372374	2.00	1.79	
1	3.208	3.207	0.001	1192628	2.00	1.70	
1	3.305	3.304	0.001	1501752	2.00	1.80	
1	3.507	3.507	0.000	2104874	2.00	1.79	

Average of Peak Amounts = 1.77

2	2.579	2.578	0.001	3549764	2.00	1.73	
2	2.692	2.692	0.000	1337532	2.00	1.68	
2	3.060	3.060	0.000	1705217	2.00	1.74	
2	3.347	3.346	0.001	1134014	2.00	1.81	

Average of Peak Amounts = 1.74

RPD = 1.86

11 PCB-1268

1	5.432	5.430	0.002	6953888	2.00	1.90	
1	5.472	5.472	0.000	6180265	2.00	1.93	
1	5.713	5.712	0.000	5310513	2.00	1.92	a
1	6.264	6.264	0.000	16567502	2.00	1.89	a

Average of Peak Amounts = 1.91

2	5.167	5.166	0.001	6584410	2.00	1.96	
2	5.205	5.205	0.000	6008190	2.00	1.95	
2	5.431	5.431	0.000	4866635	2.00	1.88	
2	5.924	5.924	0.000	16796468	2.00	1.97	

Average of Peak Amounts = 1.94

RPD = 1.59

Reagents:

1242-1268 2.0_00004

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_236.D

Injection Date: 24-Feb-2015 19:42:20

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 17

Client ID:

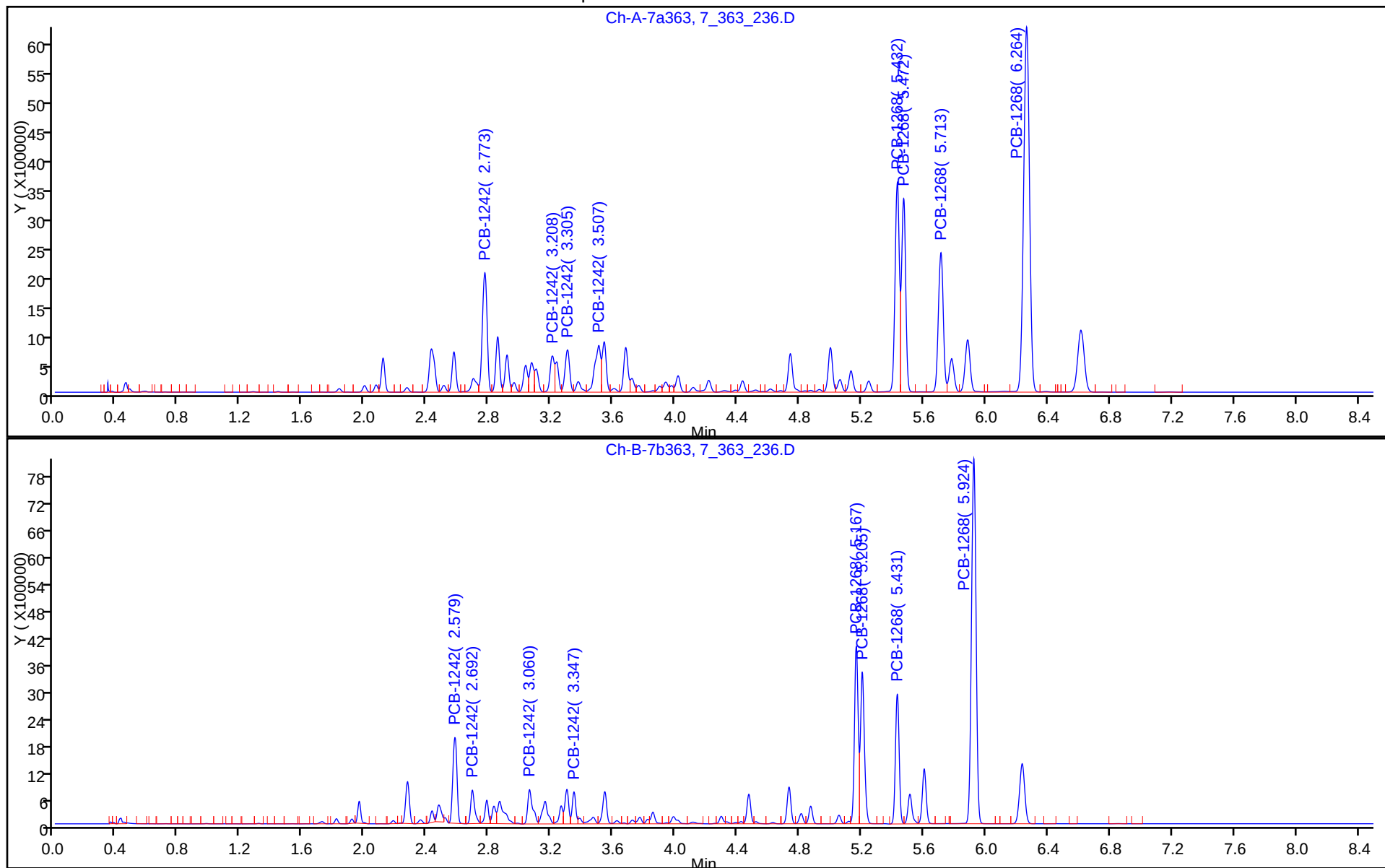
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_237.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 19:58:10 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:43 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

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

Process Host: XAWRK004

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

4 PCB-1242

1	2.773	2.772	0.000	1218153	0.5000	0.5000	
1	3.208	3.207	0.001	350106	0.5000	0.5000	
1	3.304	3.304	0.000	416616	0.5000	0.5000	
1	3.507	3.507	0.000	586740	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	2.579	2.578	0.001	1024575	0.5000	0.5000	
2	2.692	2.692	0.000	398315	0.5000	0.5000	
2	3.060	3.060	0.000	488789	0.5000	0.5000	
2	3.346	3.346	0.000	313733	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

11 PCB-1268

1	5.431	5.430	0.001	1832867	0.5000	0.5000	
1	5.471	5.472	-0.001	1601715	0.5000	0.5000	
1	5.712	5.712	0.000	1385428	0.5000	0.5000	
1	6.263	6.264	-0.001	4379648	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	5.167	5.166	0.001	1676773	0.5000	0.5000	
2	5.205	5.205	0.000	1543474	0.5000	0.5000	
2	5.430	5.431	-0.001	1295470	0.5000	0.5000	
2	5.923	5.924	-0.001	4266174	0.5000	0.5000	

Average of Peak Amounts = 0.5000

RPD = 0.00

Reagents:

1242-1268 2.0_00004

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_237.D

Injection Date: 24-Feb-2015 19:58:10

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 18

Client ID:

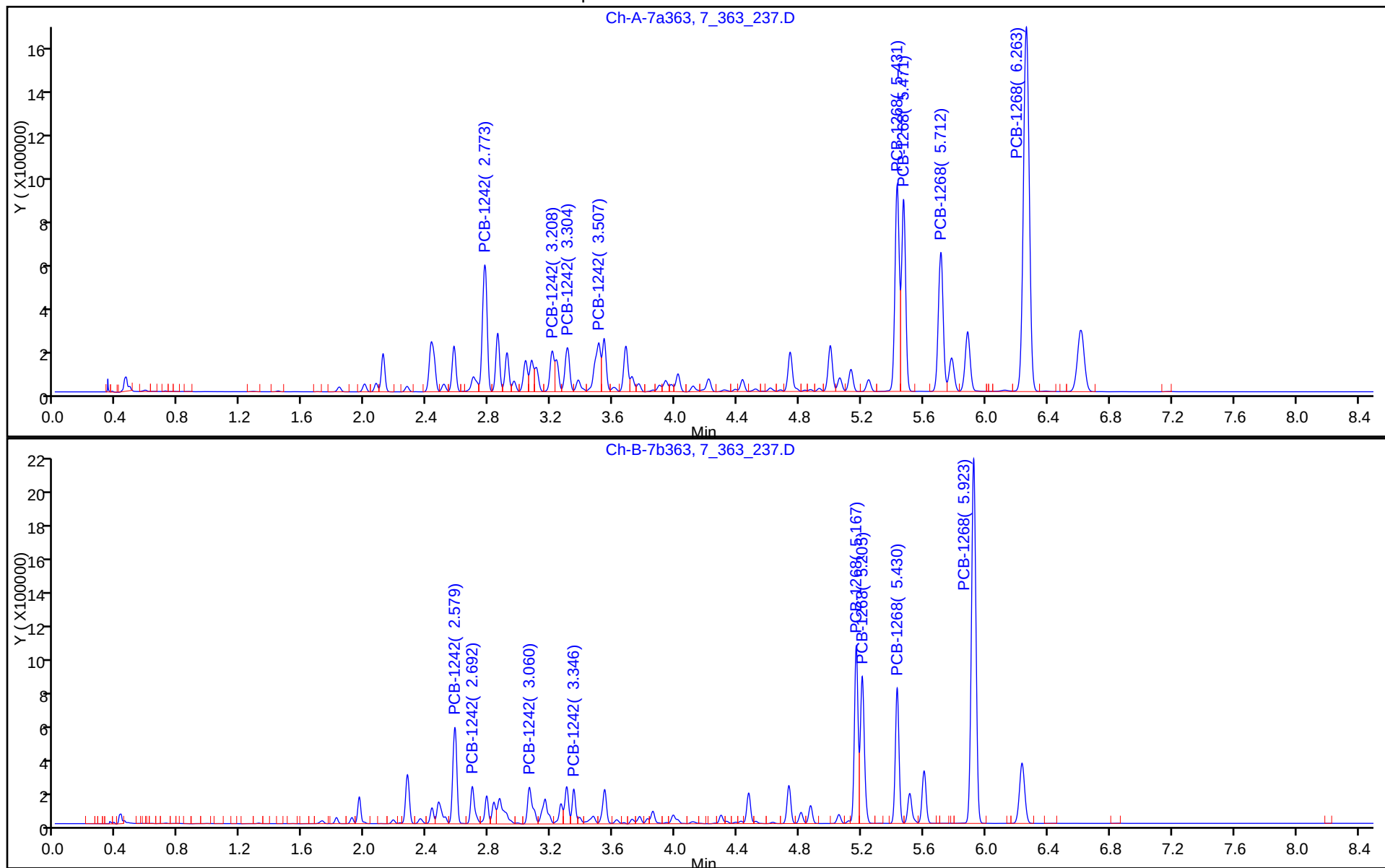
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_238.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 20:14:10 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:46 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:45:46

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

4 PCB-1242

M

1	2.772	2.772	0.000	64435	0.0200	0.0264	
1	3.207	3.207	0.000	20729	0.0200	0.0296	
1	3.304	3.304	0.000	23877	0.0200	0.0287	
1	3.507	3.507	0.000	33374	0.0200	0.0284	

Average of Peak Amounts = 0.0283

2	2.578	2.578	0.000	53175	0.0200	0.0259	M
2	2.692	2.692	0.000	21239	0.0200	0.0267	M
2	3.060	3.060	0.000	27779	0.0200	0.0284	
2	3.346	3.346	0.000	16908	0.0200	0.0269	

Average of Peak Amounts = 0.0270

RPD = 4.68

11 PCB-1268

1	5.430	5.430	0.000	94735	0.0200	0.0258	
1	5.472	5.472	0.000	82461	0.0200	0.0257	
1	5.712	5.712	0.000	74865	0.0200	0.0270	
1	6.264	6.264	0.000	213158	0.0200	0.0243	

Average of Peak Amounts = 0.0257

2	5.166	5.166	0.000	78807	0.0200	0.0235	
2	5.205	5.205	0.000	70876	0.0200	0.0230	
2	5.431	5.431	0.000	68696	0.0200	0.0265	
2	5.924	5.924	0.000	186630	0.0200	0.0219	

Average of Peak Amounts = 0.0237

RPD = 8.18

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\20150224-39815.b\7_363_238.D

Injection Date: 24-Feb-2015 20:14:10

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 19

Client ID:

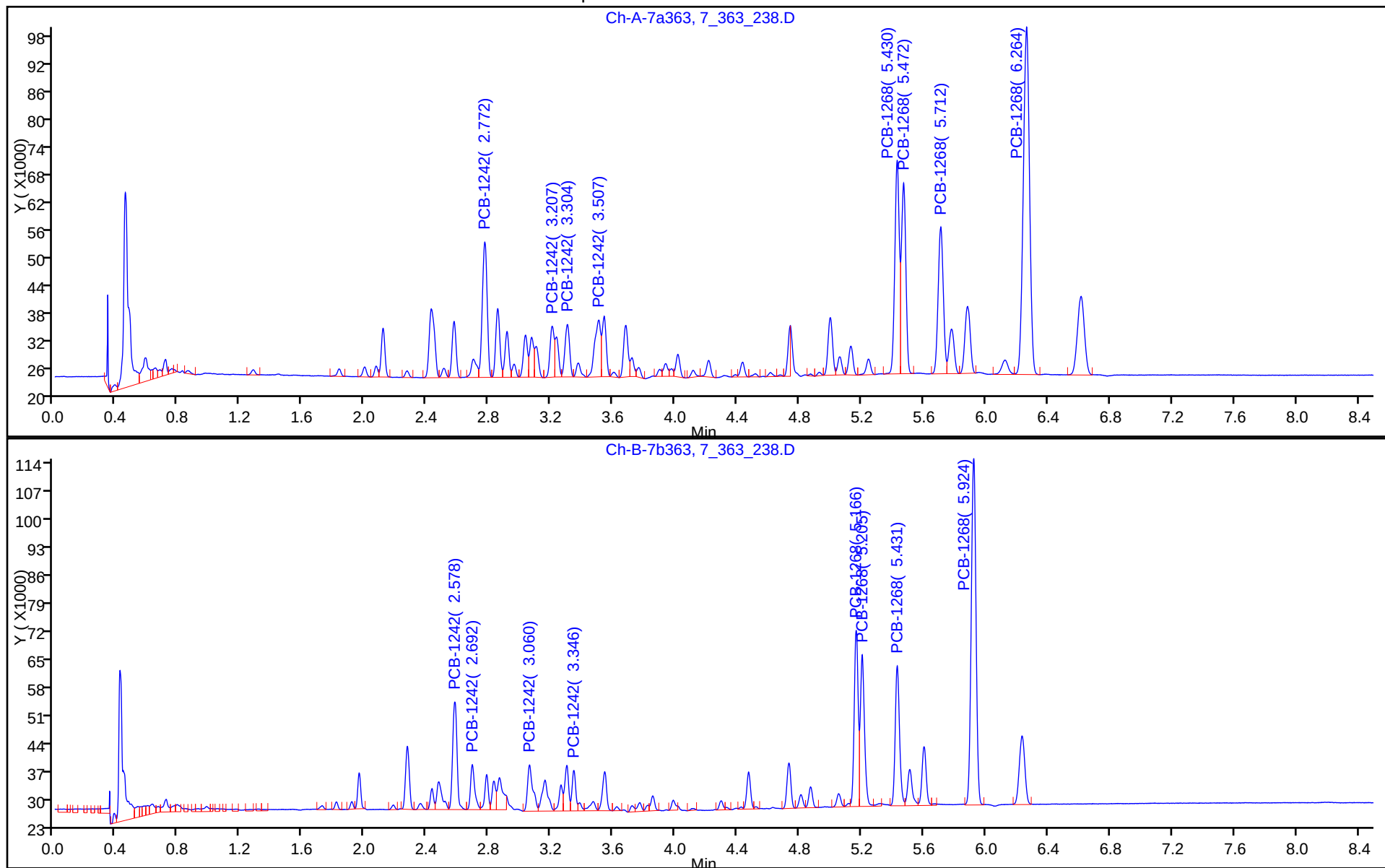
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_238.D

Injection Date: 24-Feb-2015 20:14:10

Instrument ID: HP6890-7

Lims ID: STD1

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 19

Injection Vol: 1.0 ul

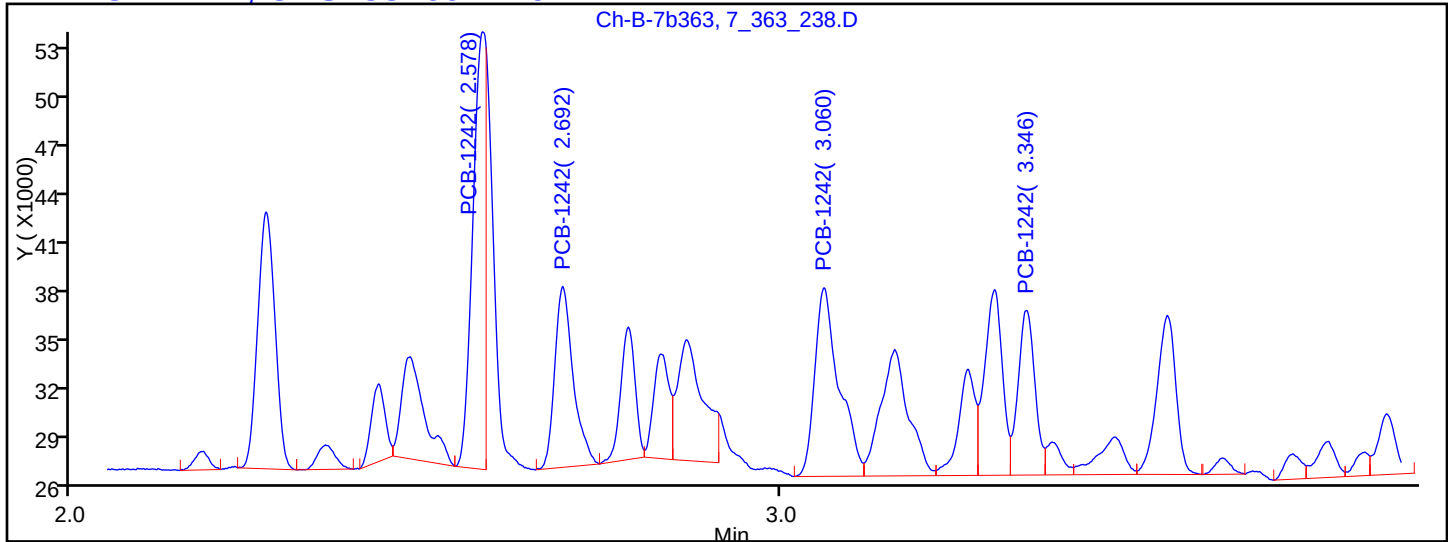
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

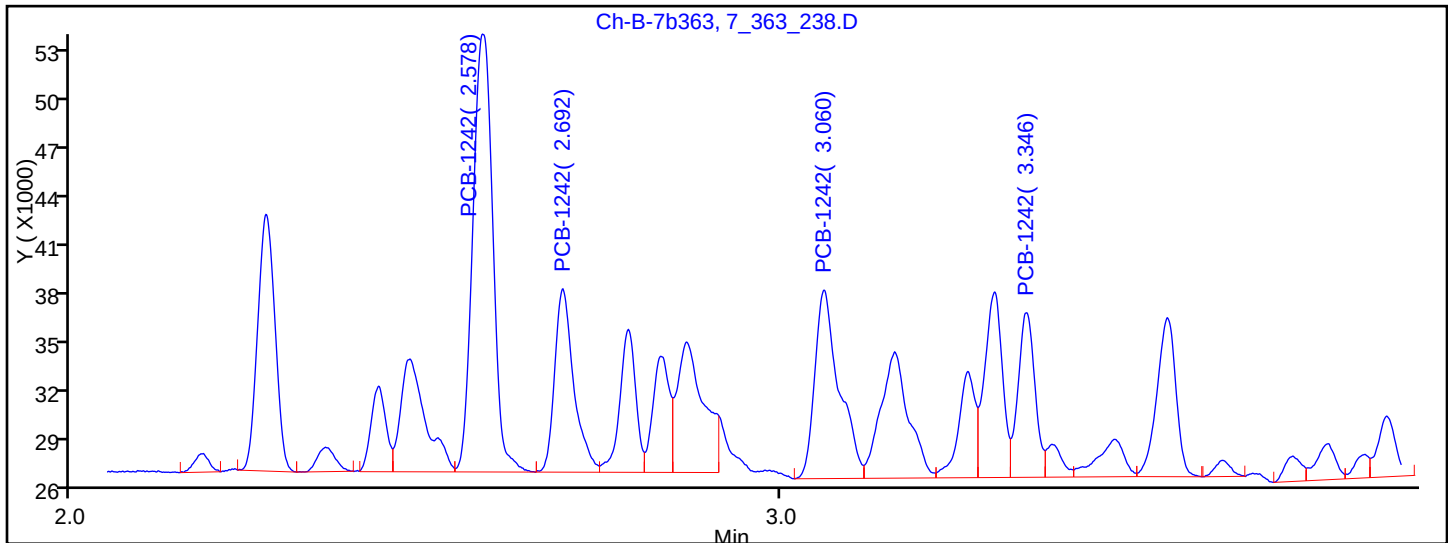
Column:

Detector Ch-B-7b136

4 PCB-1242, CAS: 53469-21-9

Processing Integration Results

RT = 2.578	Response = 33326	M
RT = 2.692	Response = 20233	M
RT = 3.060	Response = 27779	
RT = 3.346	Response = 16908	



Manual Integration Results

RT = 2.578	Response = 53175	M
RT = 2.692	Response = 21239	M
RT = 3.060	Response = 27779	
RT = 3.346	Response = 16908	

Reviewer: larsonj, 25-Feb-2015 14:56:30

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 20:45 Calibration End Date: 02/24/2015 21:17 Calibration ID: 22245

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/23	7_363_242.D
Level 2	STD2 480-228096/22	7_363_241.D
Level 3	STD3 480-228096/21	7_363_240.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1248 Peak 1	+++++	3.303	+++++								3.274 - 3.334	3.303
PCB-1248 Peak 2	+++++	3.506	+++++								3.476 - 3.536	3.506
PCB-1248 Peak 3	+++++	3.542	+++++								3.513 - 3.573	3.542
PCB-1248 Peak 4	+++++	3.682	+++++								3.651 - 3.711	3.682

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 20:45 Calibration End Date: 02/24/2015 21:17 Calibration ID: 22245

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/23	7_363_242.D
Level 2	STD2 480-228096/22	7_363_241.D
Level 3	STD3 480-228096/21	7_363_240.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	+++++	1178526	+++++		Ave		1178526.00						20.0			
PCB-1248 Peak 2	+++++	1890990	+++++		Ave		1890990.00						20.0			
PCB-1248 Peak 3	+++++	1407518	+++++		Ave		1407518.00						20.0			
PCB-1248 Peak 4	+++++	1151516	+++++		Ave		1151516.00						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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 20:45 Calibration End Date: 02/24/2015 21:17 Calibration ID: 22245

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/23	7_363_242.D
Level 2	STD2 480-228096/22	7_363_241.D
Level 3	STD3 480-228096/21	7_363_240.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	+++++	589263	+++++			+++++	0.500	+++++		
PCB-1248 Peak 2	Ave	+++++	945495	+++++			+++++	0.500	+++++		
PCB-1248 Peak 3	Ave	+++++	703759	+++++			+++++	0.500	+++++		
PCB-1248 Peak 4	Ave	+++++	575758	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_240.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 20:45:47 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:34 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:57:38

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

7 PCB-1248

1	3.303	3.304	-0.001	2238878	2.00	1.90	
1	3.506	3.506	0.000	3573268	2.00	1.89	
1	3.542	3.543	0.000	2751051	2.00	1.95	
1	3.681	3.681	0.000	2246539	2.00	1.95	

Average of Peak Amounts = 1.92

2	3.058	3.059	-0.001	2357130	2.00	2.31	
2	3.158	3.160	-0.002	1897714	2.00	1.86	
2	3.300	3.300	0.000	2277556	2.00	1.91	
2	3.346	3.346	0.000	1778732	2.00	1.94	

Average of Peak Amounts = 2.01

RPD = 4.23

Reagents:

1248 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_240.D

Injection Date: 24-Feb-2015 20:45:47

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 21

Client ID:

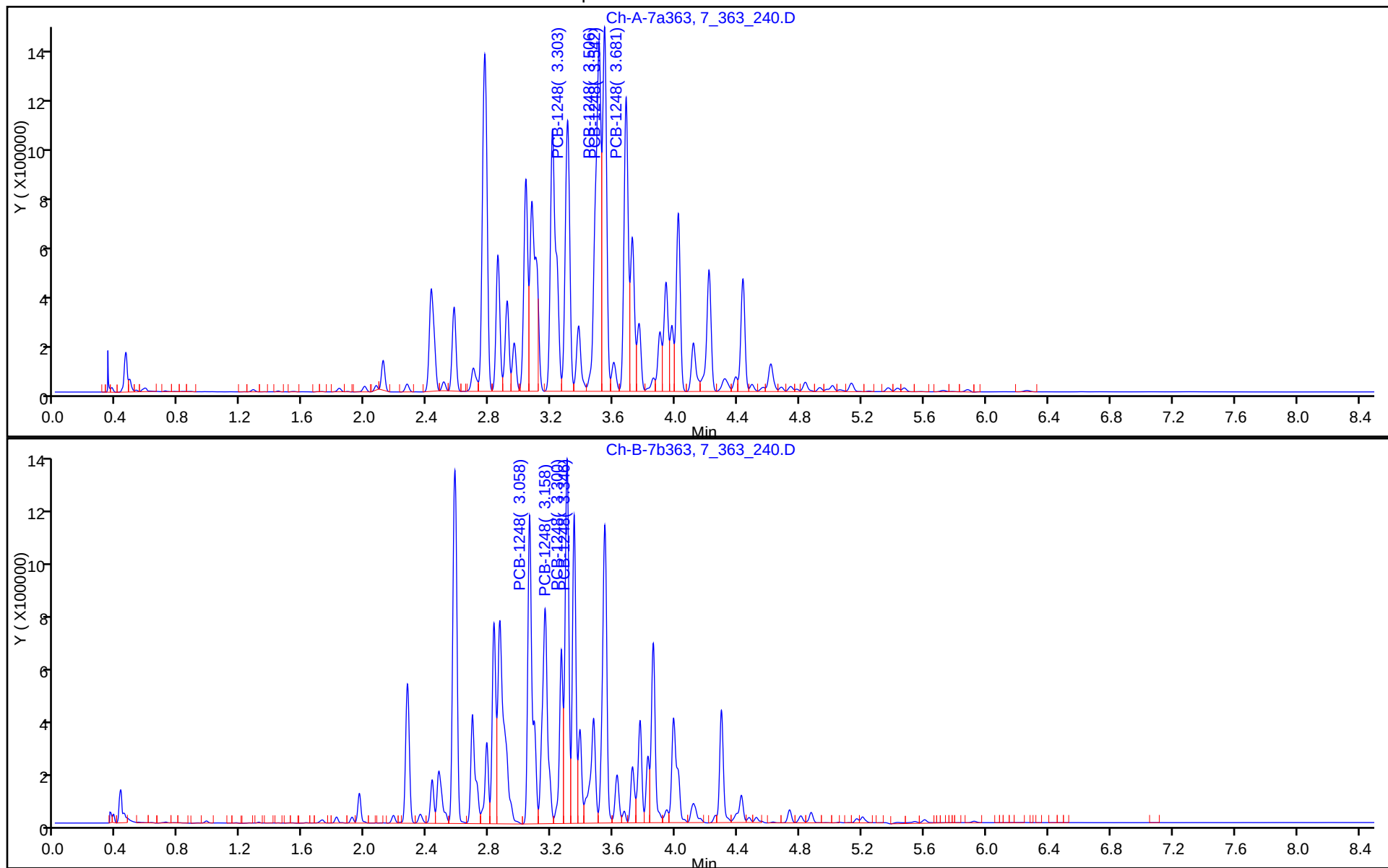
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_241.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 21:01:40 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:36 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

Column 1 : Det: Ch-A-7A136

Column 2 : Det: Ch-B-7b136

Process Host: XAWRK004

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

7 PCB-1248

1	3.303	3.304	-0.001	589263	0.5000	0.5000	
1	3.506	3.506	0.000	945495	0.5000	0.5000	
1	3.542	3.543	0.000	703759	0.5000	0.5000	
1	3.682	3.681	0.001	575758	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.059	3.059	0.000	510321	0.5000	0.5000	
2	3.160	3.160	0.000	509745	0.5000	0.5000	
2	3.301	3.300	0.001	594915	0.5000	0.5000	
2	3.346	3.346	0.000	457846	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\20150224-39815.b\7_363_241.D

Injection Date: 24-Feb-2015 21:01:40

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 22

Client ID:

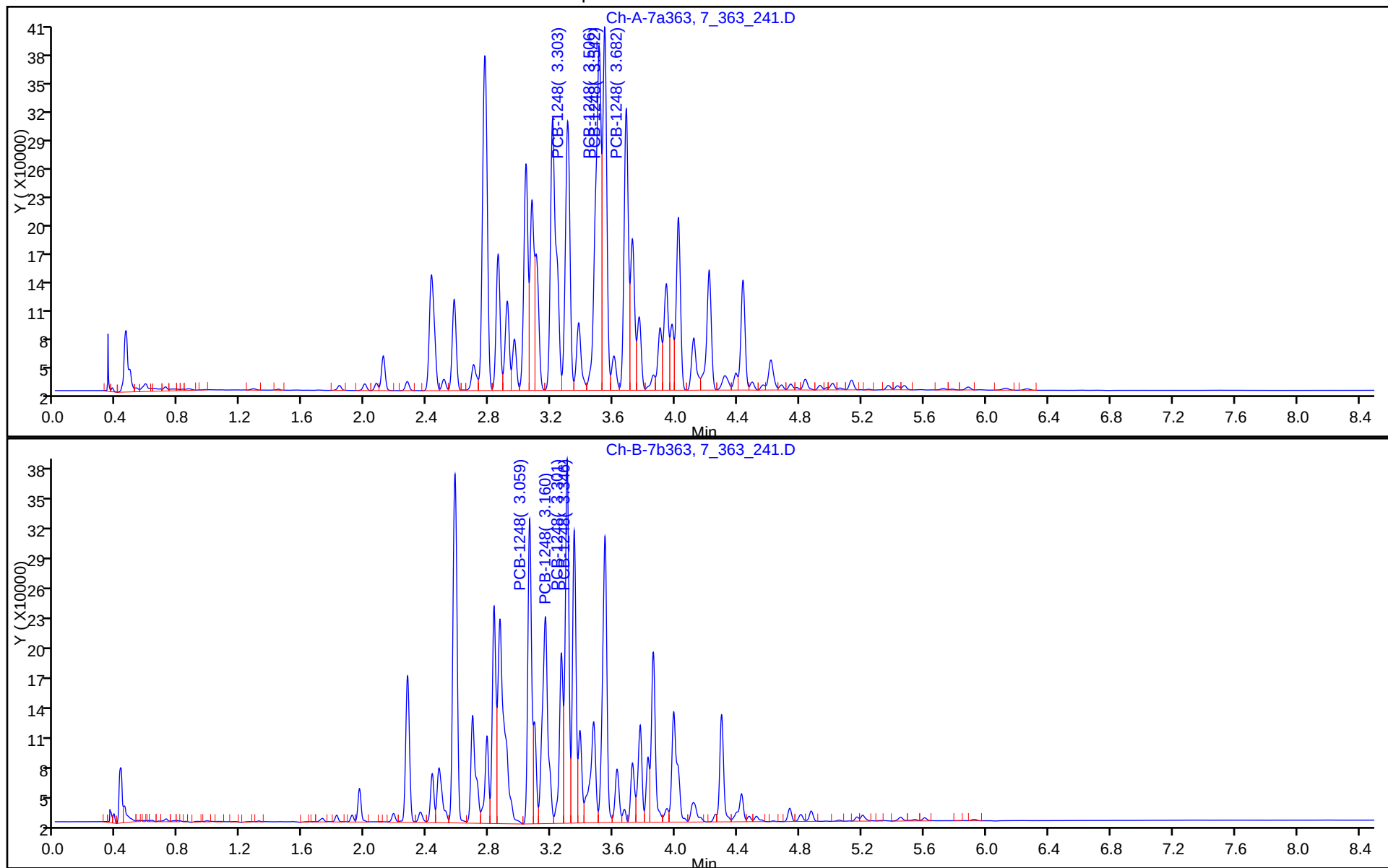
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_242.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 21:17:39 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:38 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

Column 1 : Det: Ch-A-7A136

Column 2 : Det: Ch-B-7b136

Process Host: XAWRK004

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

7 PCB-1248

1	3.304	3.304	0.000	32424	0.0200	0.0275	
1	3.506	3.506	0.000	48903	0.0200	0.0259	
1	3.543	3.543	0.000	37894	0.0200	0.0269	
1	3.681	3.681	0.000	30536	0.0200	0.0265	

Average of Peak Amounts = 0.0267

2	3.059	3.059	0.000	26735	0.0200	0.0262	
2	3.160	3.160	0.000	26797	0.0200	0.0263	
2	3.300	3.300	0.000	29783	0.0200	0.0250	
2	3.346	3.346	0.000	22641	0.0200	0.0247	

Average of Peak Amounts = 0.0256

RPD = 4.38

Reagents:

1248 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

Injection Date: 24-Feb-2015 21:17:39

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 23

Client ID:

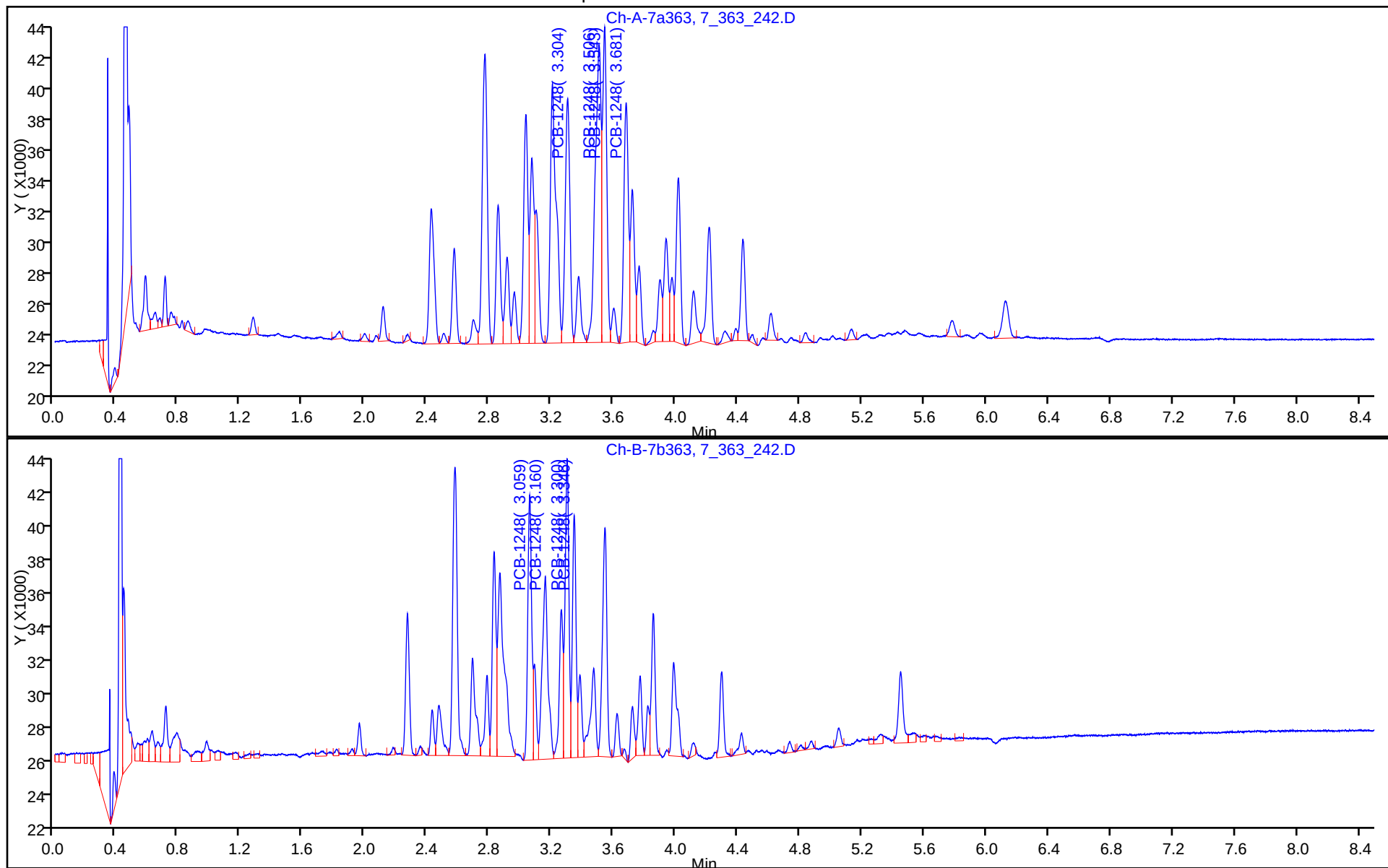
Injection Vol: 1.0 ul

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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 20:45 Calibration End Date: 02/24/2015 21:17 Calibration ID: 22246

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/23	7_363_242.D
Level 2	STD2 480-228096/22	7_363_241.D
Level 3	STD3 480-228096/21	7_363_240.D

ANALYTE	LVL 1	LVL 2	LVL 3								RT WINDOW	AVG RT
PCB-1248 Peak 1	+++++	3.059	+++++								3.029 - 3.089	3.059
PCB-1248 Peak 2	+++++	3.160	+++++								3.130 - 3.190	3.160
PCB-1248 Peak 3	+++++	3.301	+++++								3.270 - 3.330	3.301
PCB-1248 Peak 4	+++++	3.346	+++++								3.316 - 3.376	3.346

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 20:45 Calibration End Date: 02/24/2015 21:17 Calibration ID: 22246

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/23	7_363_242.D
Level 2	STD2 480-228096/22	7_363_241.D
Level 3	STD3 480-228096/21	7_363_240.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	+++++	1020642	+++++		Ave		1020642.00						20.0			
PCB-1248 Peak 2	+++++	1019490	+++++		Ave		1019490.00						20.0			
PCB-1248 Peak 3	+++++	1189830	+++++		Ave		1189830.00						20.0			
PCB-1248 Peak 4	+++++	915692	+++++		Ave		915692.000						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.: 480-79126-1 Analy Batch No.: 228096

SDG No.: _____

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

Calibration Start Date: 02/24/2015 20:45 Calibration End Date: 02/24/2015 21:17 Calibration ID: 22246

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD1 480-228096/23	7_363_242.D
Level 2	STD2 480-228096/22	7_363_241.D
Level 3	STD3 480-228096/21	7_363_240.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	+++++	510321	+++++			+++++	0.500	+++++		
PCB-1248 Peak 2	Ave	+++++	509745	+++++			+++++	0.500	+++++		
PCB-1248 Peak 3	Ave	+++++	594915	+++++			+++++	0.500	+++++		
PCB-1248 Peak 4	Ave	+++++	457846	+++++			+++++	0.500	+++++		

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_240.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 24-Feb-2015 20:45:47 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:34 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK004

First Level Reviewer: larsonj

Date: 25-Feb-2015 14:57:38

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

7 PCB-1248

1	3.303	3.304	-0.001	2238878	2.00	1.90
1	3.506	3.506	0.000	3573268	2.00	1.89
1	3.542	3.543	0.000	2751051	2.00	1.95
1	3.681	3.681	0.000	2246539	2.00	1.95

Average of Peak Amounts = 1.92

2	3.058	3.059	-0.001	2357130	2.00	2.31
2	3.158	3.160	-0.002	1897714	2.00	1.86
2	3.300	3.300	0.000	2277556	2.00	1.91
2	3.346	3.346	0.000	1778732	2.00	1.94

Average of Peak Amounts = 2.01

RPD = 4.23

Reagents:

1248 2.0_00003

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_240.D

Injection Date: 24-Feb-2015 20:45:47

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 21

Client ID:

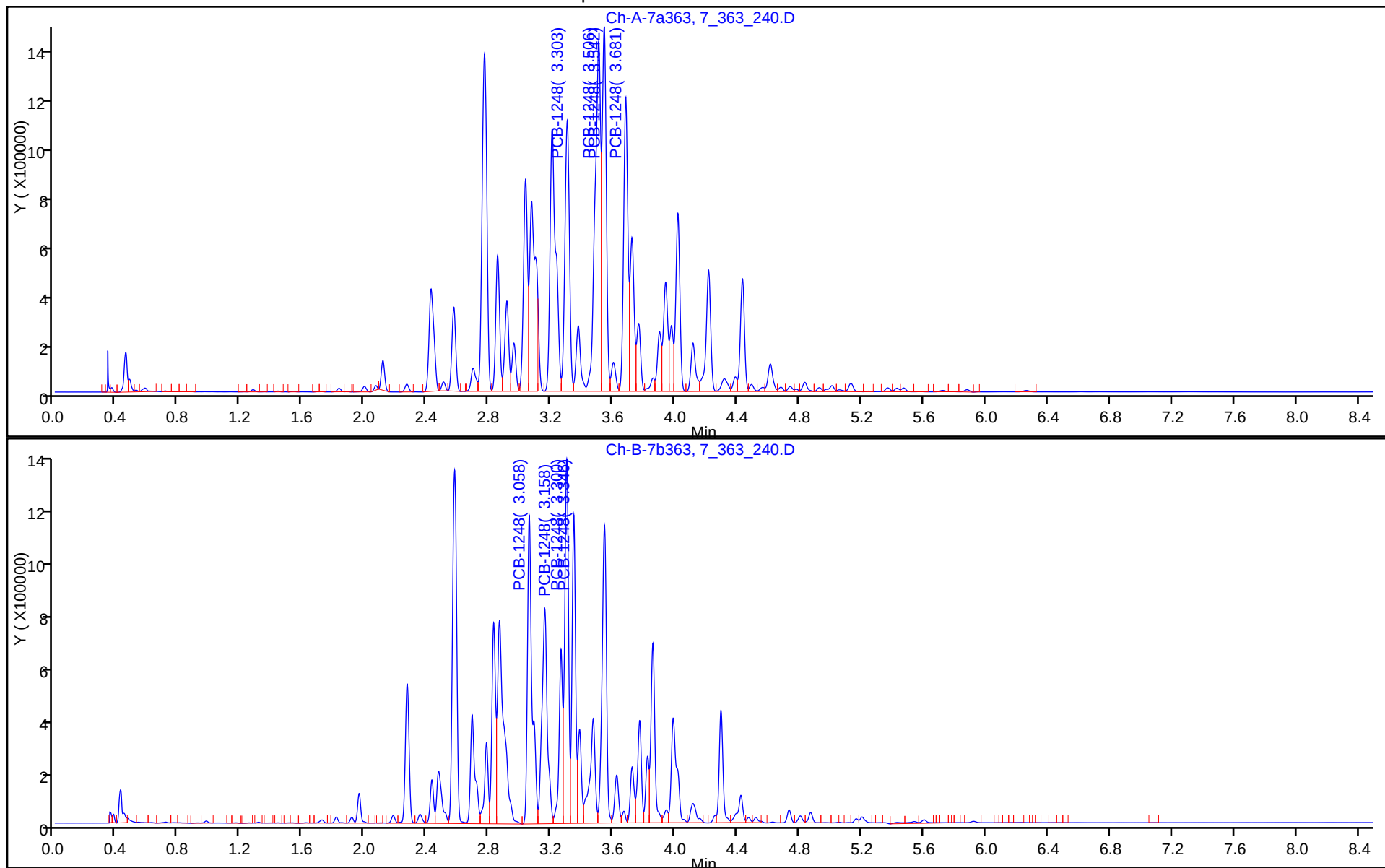
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_241.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 24-Feb-2015 21:01:40 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:36 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

Column 1 : Det: Ch-A-7A136

Column 2 : Det: Ch-B-7b136

Process Host: XAWRK004

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

7 PCB-1248

1	3.303	3.304	-0.001	589263	0.5000	0.5000	
1	3.506	3.506	0.000	945495	0.5000	0.5000	
1	3.542	3.543	0.000	703759	0.5000	0.5000	
1	3.682	3.681	0.001	575758	0.5000	0.5000	

Average of Peak Amounts = 0.5000

2	3.059	3.059	0.000	510321	0.5000	0.5000	
2	3.160	3.160	0.000	509745	0.5000	0.5000	
2	3.301	3.300	0.001	594915	0.5000	0.5000	
2	3.346	3.346	0.000	457846	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\20150224-39815.b\7_363_241.D

Injection Date: 24-Feb-2015 21:01:40

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 22

Client ID:

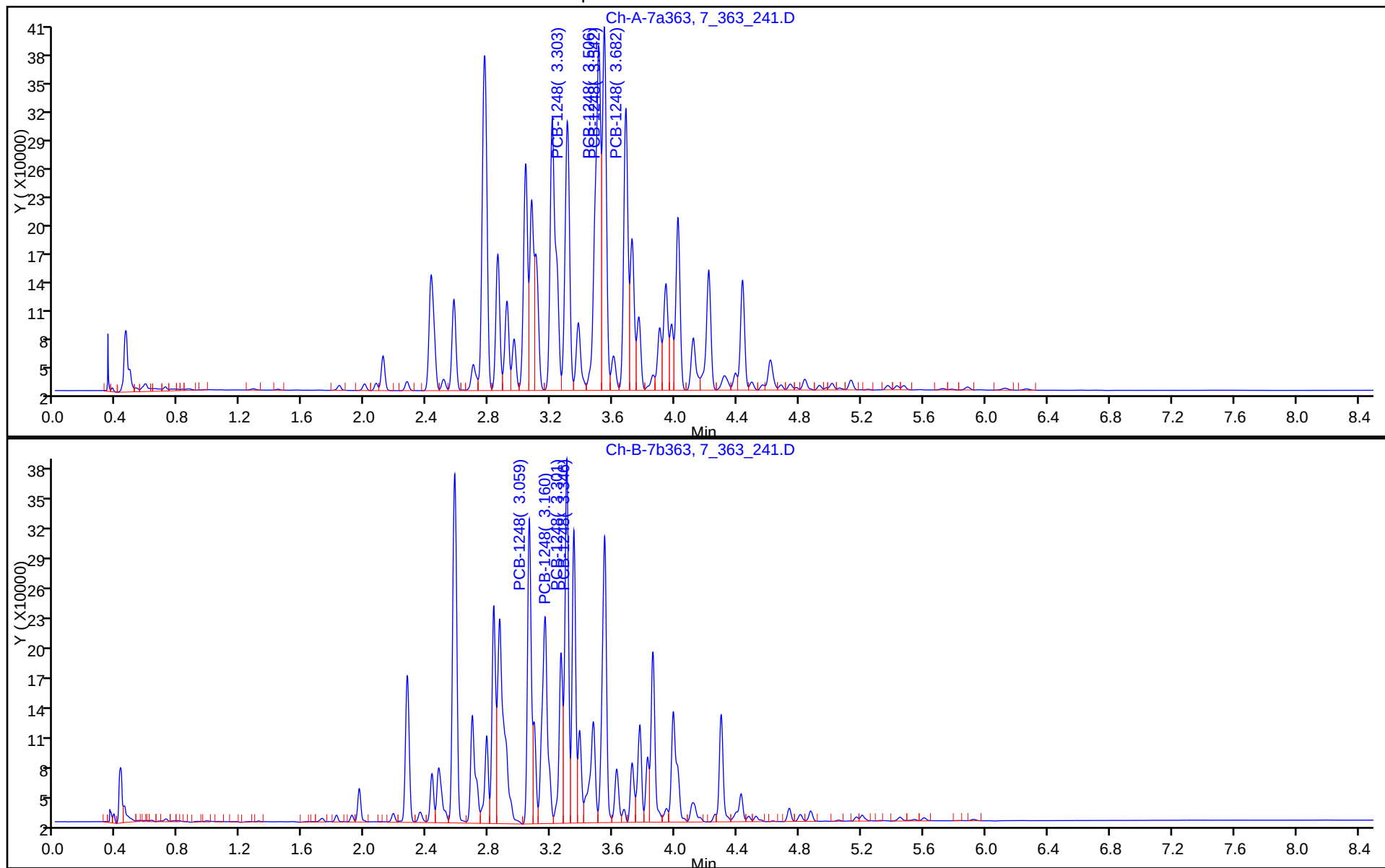
Injection Vol: 1.0 ul

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\20150224-39815.b\7_363_242.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 24-Feb-2015 21:17:39 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\20150224-39815.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 26-Feb-2015 15:33:38 Calib Date: 24-Feb-2015 21:17:39
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

Column 1 : Det: Ch-A-7A136

Column 2 : Det: Ch-B-7b136

Process Host: XAWRK004

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

7 PCB-1248

1	3.304	3.304	0.000	32424	0.0200	0.0275
1	3.506	3.506	0.000	48903	0.0200	0.0259
1	3.543	3.543	0.000	37894	0.0200	0.0269
1	3.681	3.681	0.000	30536	0.0200	0.0265

Average of Peak Amounts = 0.0267

2	3.059	3.059	0.000	26735	0.0200	0.0262
2	3.160	3.160	0.000	26797	0.0200	0.0263
2	3.300	3.300	0.000	29783	0.0200	0.0250
2	3.346	3.346	0.000	22641	0.0200	0.0247

Average of Peak Amounts = 0.0256

RPD = 4.38

Reagents:

1248 2.0_00003

Amount Added: 0.01

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150224-39815.b\7_363_242.D

Injection Date: 24-Feb-2015 21:17:39

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD1

Worklist Smp#: 23

Client ID:

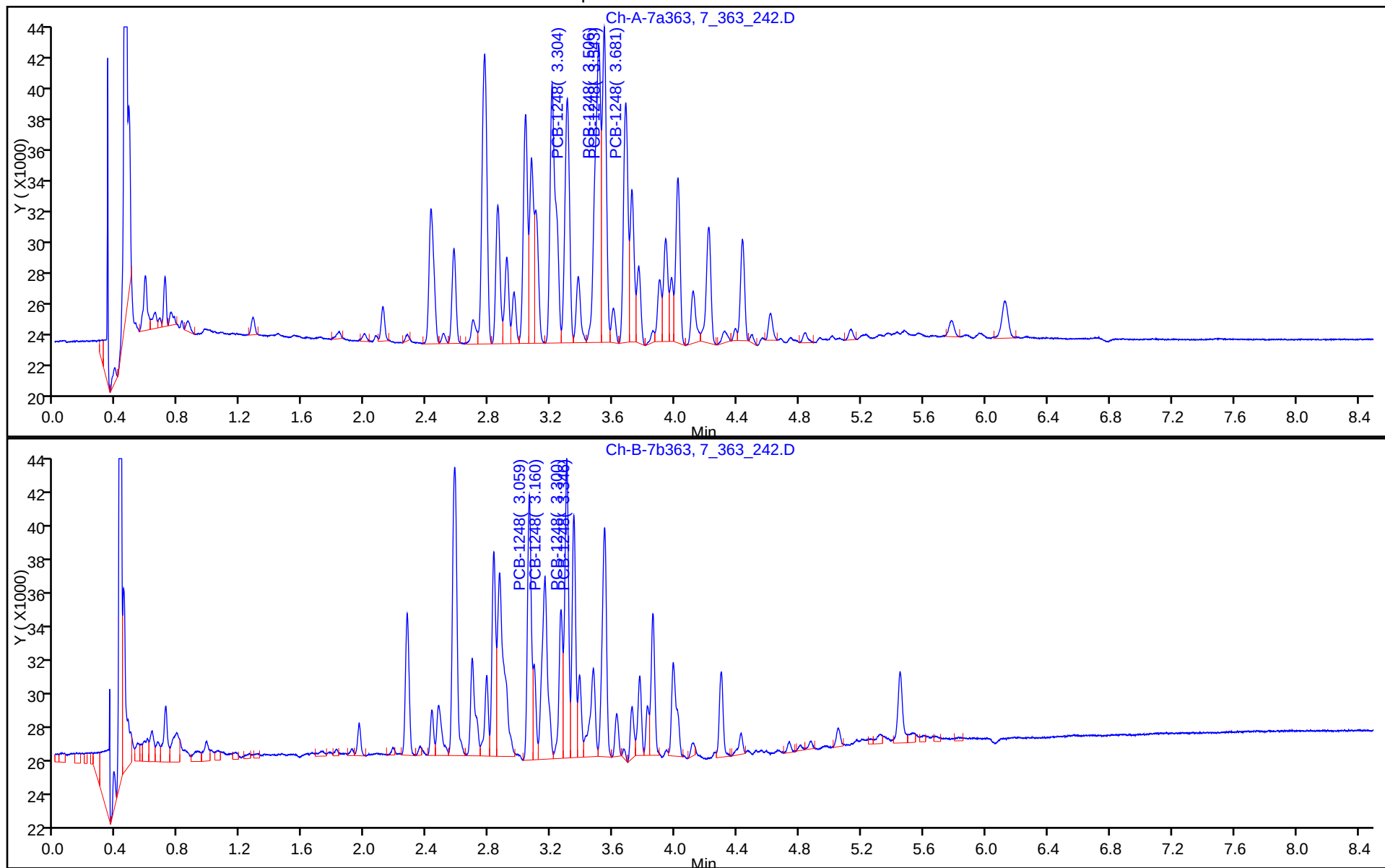
Injection Vol: 1.0 ul

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.: 480-79126-1 Analy Batch No.: 235369

SDG No.: _____

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

Calibration Start Date: 04/10/2015 10:47 Calibration End Date: 04/10/2015 12:22 Calibration ID: 22869

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 480-235369/6	7_367_220.D
Level 2	STD3 480-235369/5	7_367_219.D
Level 3	STD4 480-235369/4	7_367_218.D
Level 4	STD5 480-235369/3	7_367_217.D
Level 5	STD6 480-235369/2	7_367_216.D
Level 6	STD7 480-235369/1	7_367_215.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Tetrachloro-m-xylene	1.813	1.813	1.813	1.813	1.813	1.817					1.782 - 1.842	1.814
DCB Decachlorobiphenyl	6.504	6.501	6.501	6.502	6.503	6.507					6.441 - 6.561	6.503

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 235369

SDG No.: _____

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

Calibration Start Date: 04/10/2015 10:47 Calibration End Date: 04/10/2015 12:22 Calibration ID: 22869

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 480-235369/6	7_367_220.D
Level 2	STD3 480-235369/5	7_367_219.D
Level 3	STD4 480-235369/4	7_367_218.D
Level 4	STD5 480-235369/3	7_367_217.D
Level 5	STD6 480-235369/2	7_367_216.D
Level 6	STD7 480-235369/1	7_367_215.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 4		B	M1	M2								
Tetrachloro-m-xylene	51323200 42076360	48249600 40373760	45956200	43572240	Ave		45258560.0				9.0		20.0			
DCB Decachlorobiphenyl	37930400 24775280	33596800 23871920	29983200	26653680	Ave		29468546.7				18.6		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.: 480-79126-1 Analy Batch No.: 235369

SDG No.: _____

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

Calibration Start Date: 04/10/2015 10:47 Calibration End Date: 04/10/2015 12:22 Calibration ID: 22869

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 480-235369/6	7_367_220.D
Level 2	STD3 480-235369/5	7_367_219.D
Level 3	STD4 480-235369/4	7_367_218.D
Level 4	STD5 480-235369/3	7_367_217.D
Level 5	STD6 480-235369/2	7_367_216.D
Level 6	STD7 480-235369/1	7_367_215.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Tetrachloro-m-xylene	Ave	64154 2018688	120624	229781	544653	1051909	0.00125 0.0500	0.00250	0.00500	0.0125	0.0250
DCB Decachlorobiphenyl	Ave	47413 1193596	83992	149916	333171	619382	0.00125 0.0500	0.00250	0.00500	0.0125	0.0250

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_215.D
 Lims ID: STD7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 10-Apr-2015 10:47:12 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:31 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 11:03:07

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

\$ 3 Tetrachloro-m-xylene

1	1.817	1.812	0.005	2018688	0.0500	0.0446	
2	1.532	1.532	0.000	1651637	0.0500	0.0420	
RPD = 5.93							

\$ 12 DCB Decachlorobiphenyl

1	6.507	6.501	0.006	1193596	0.0500	0.0405	
2	6.142	6.140	0.002	1217903	0.0500	0.0447	
RPD = 9.81							

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_215.D

Injection Date: 10-Apr-2015 10:47:12

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD7

Worklist Smp#: 1

Client ID:

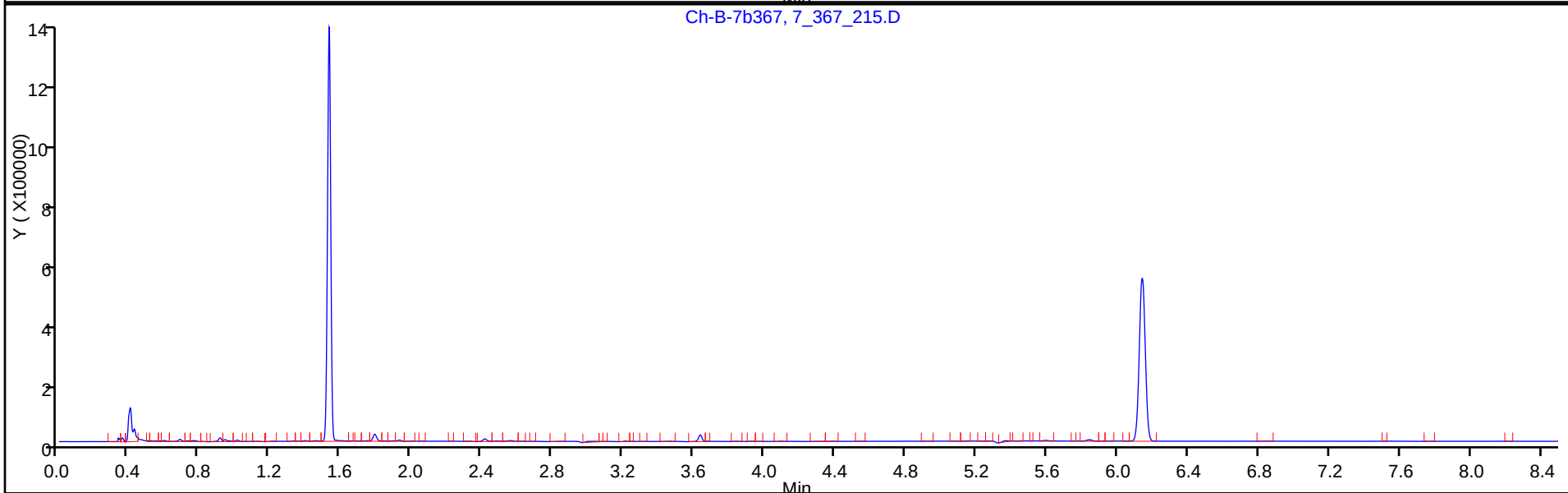
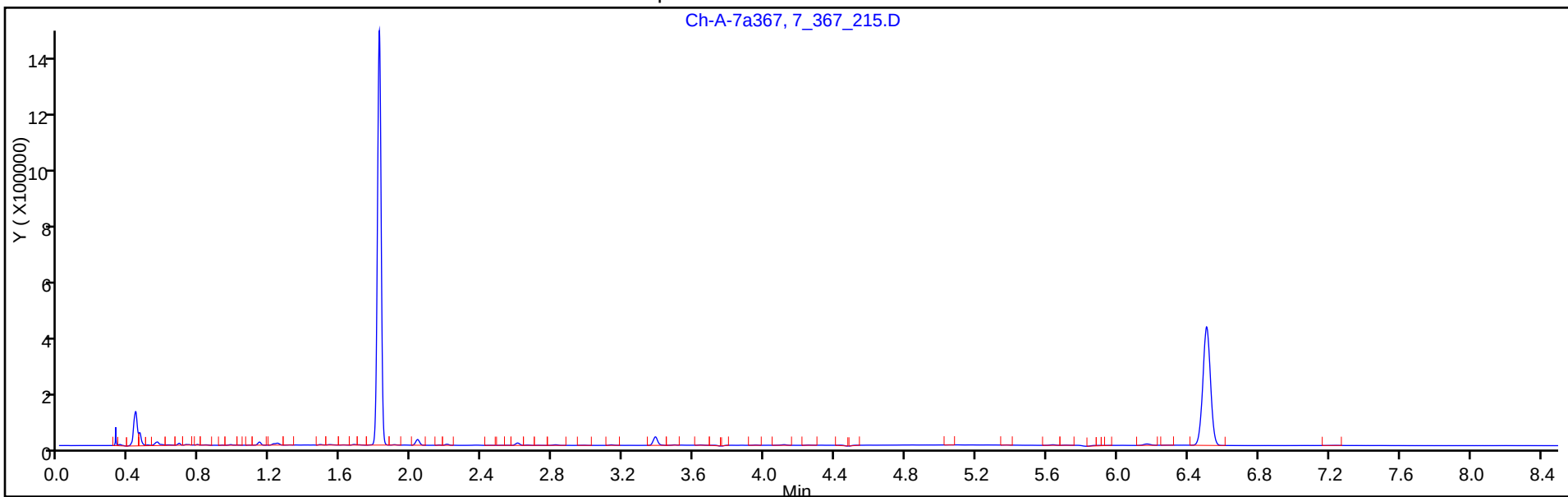
Injection Vol: 1.0 ul

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\20150410-41103.b\7_367_216.D
 Lims ID: STD6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 10-Apr-2015 11:02:58 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:33 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 11:52:13

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

\$ 3 Tetrachloro-m-xylene

1	1.813	1.812	0.001	1051909	0.0250	0.0232	
2	1.532	1.532	0.000	893437	0.0250	0.0227	
RPD = 2.19							

\$ 12 DCB Decachlorobiphenyl

1	6.503	6.501	0.002	619382	0.0250	0.0210	
2	6.139	6.140	-0.001	618580	0.0250	0.0227	
RPD = 7.67							

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.50

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_216.D

Injection Date: 10-Apr-2015 11:02:58

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD6

Worklist Smp#: 2

Client ID:

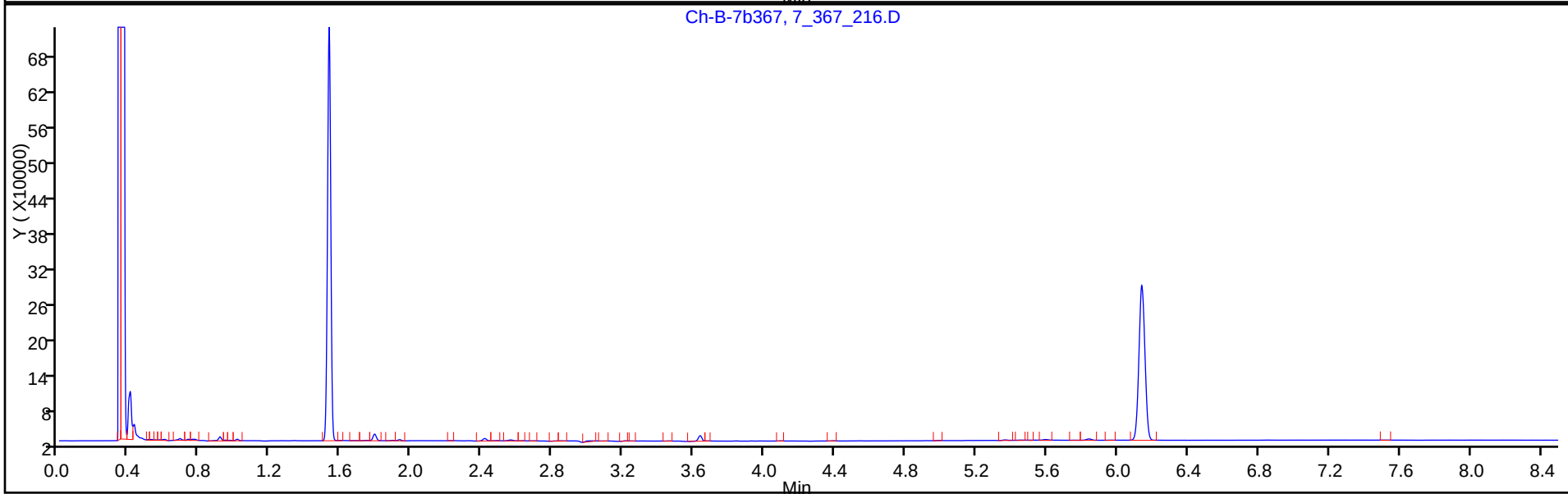
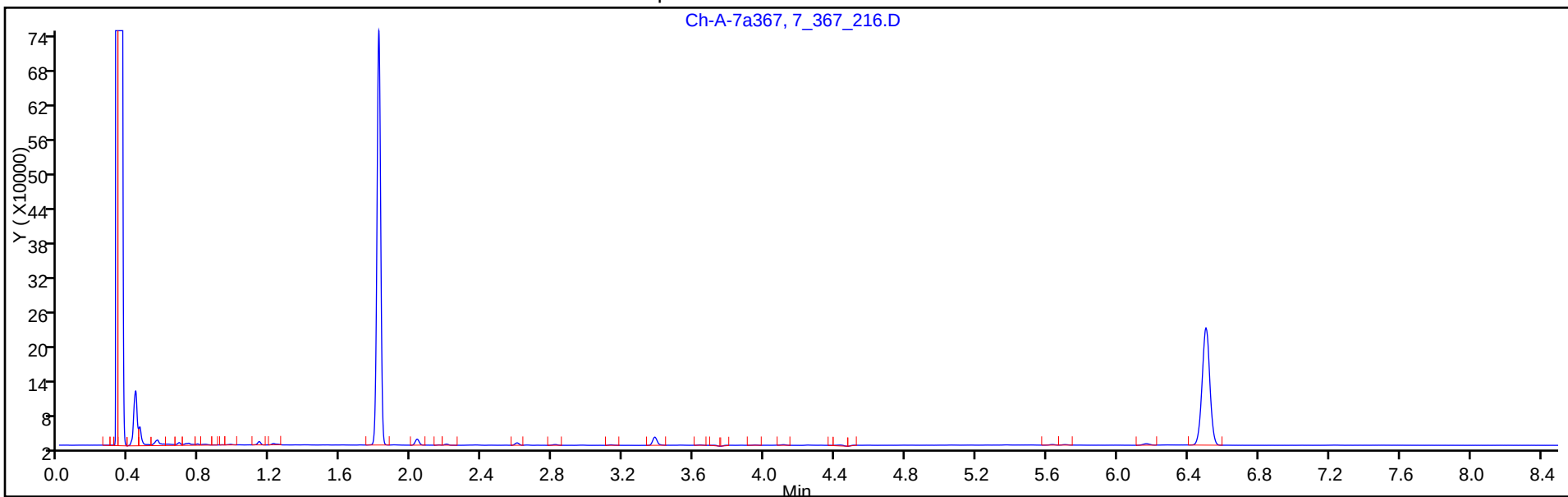
Injection Vol: 1.0 ul

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\20150410-41103.b\7_367_217.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 10-Apr-2015 11:18:49 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:35 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 11:52:28

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

\$ 3 Tetrachloro-m-xylene M
 1 1.813 1.812 0.000 544653 0.0125 0.0120 M
 2 1.532 1.532 0.000 474623 0.0125 0.0121
 RPD = 0.38

\$ 12 DCB Decachlorobiphenyl
 1 6.502 6.501 0.001 333171 0.0125 0.0113
 2 6.138 6.140 -0.002 321325 0.0125 0.0118
 RPD = 4.18

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_217.D

Injection Date: 10-Apr-2015 11:18:49

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD5

Worklist Smp#: 3

Client ID:

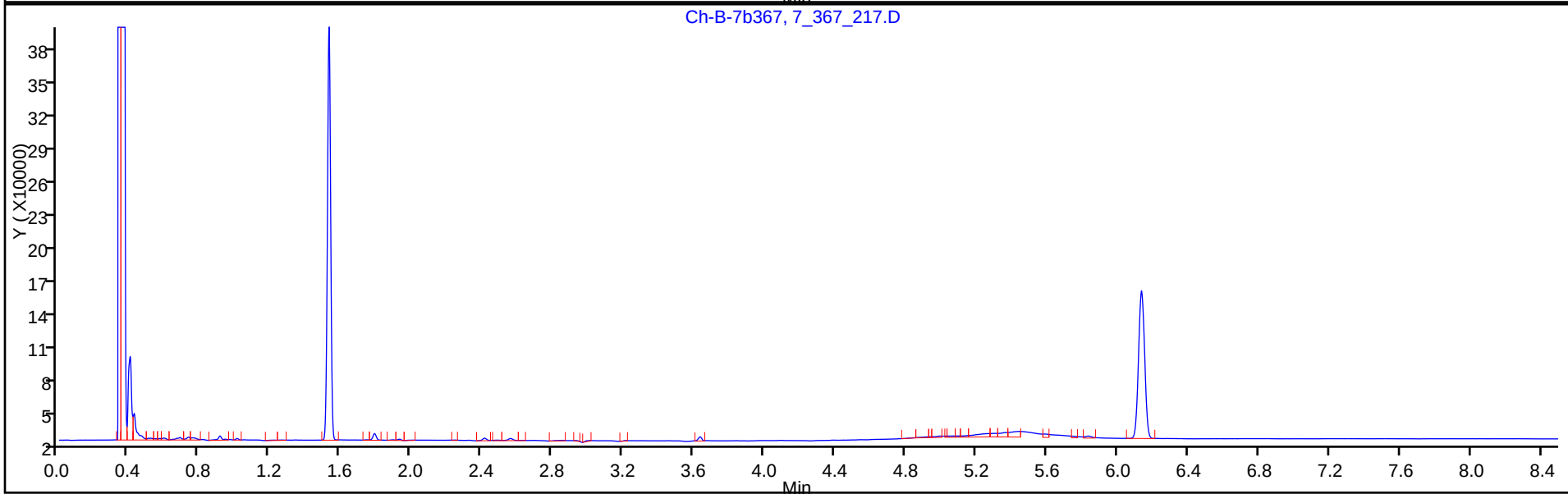
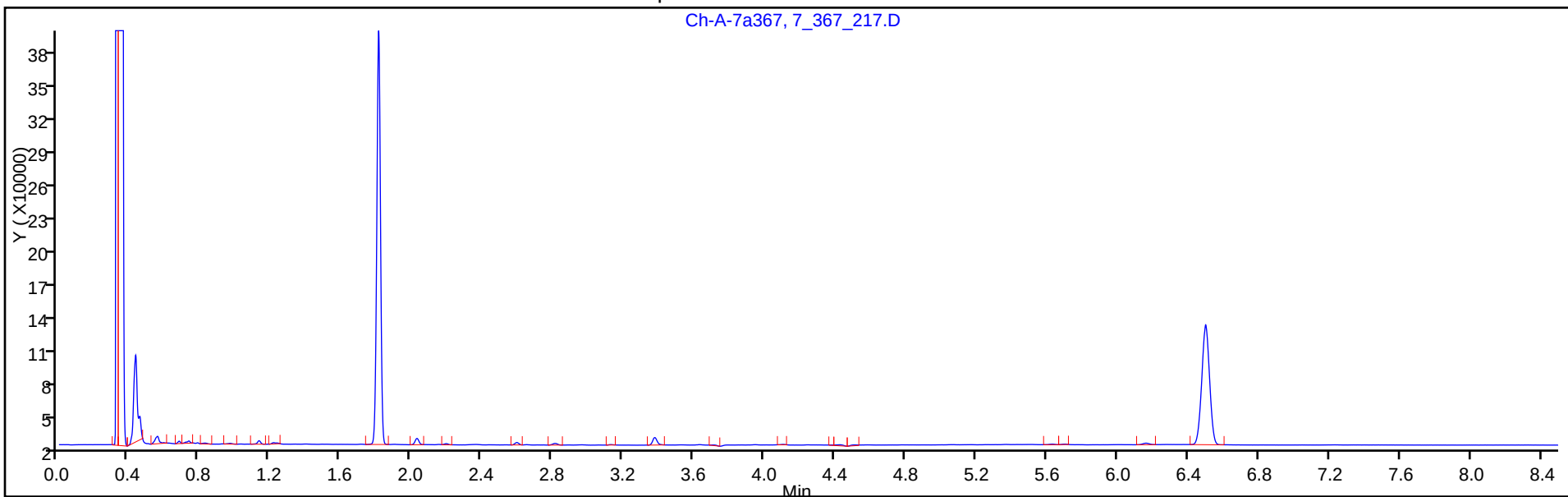
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



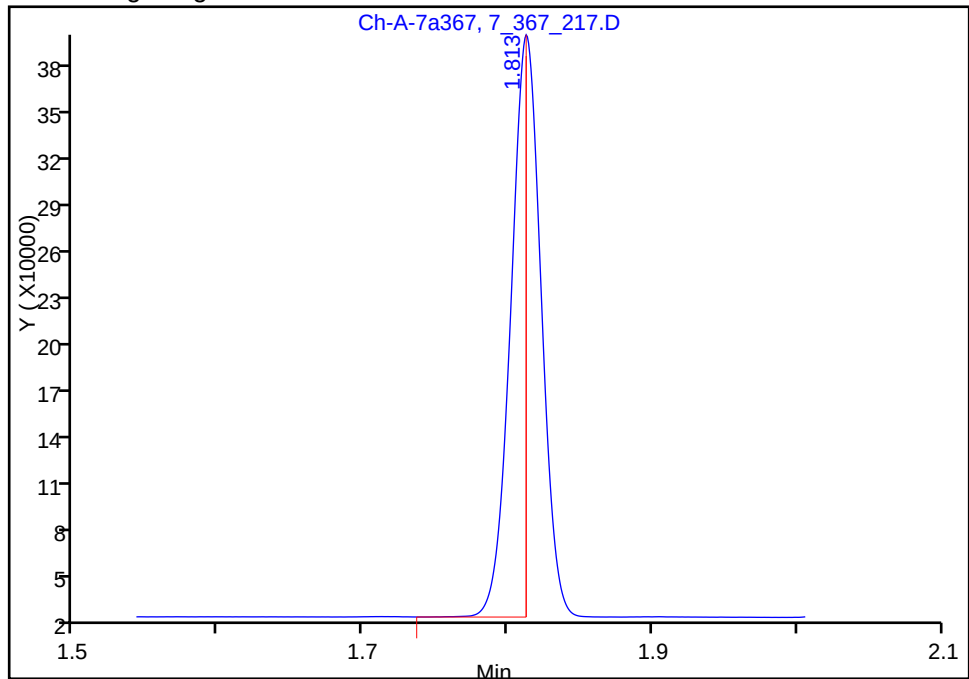
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_217.D
Injection Date: 10-Apr-2015 11:18:49 Instrument ID: HP6890-7
Lims ID: STD5
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-A-7A136

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

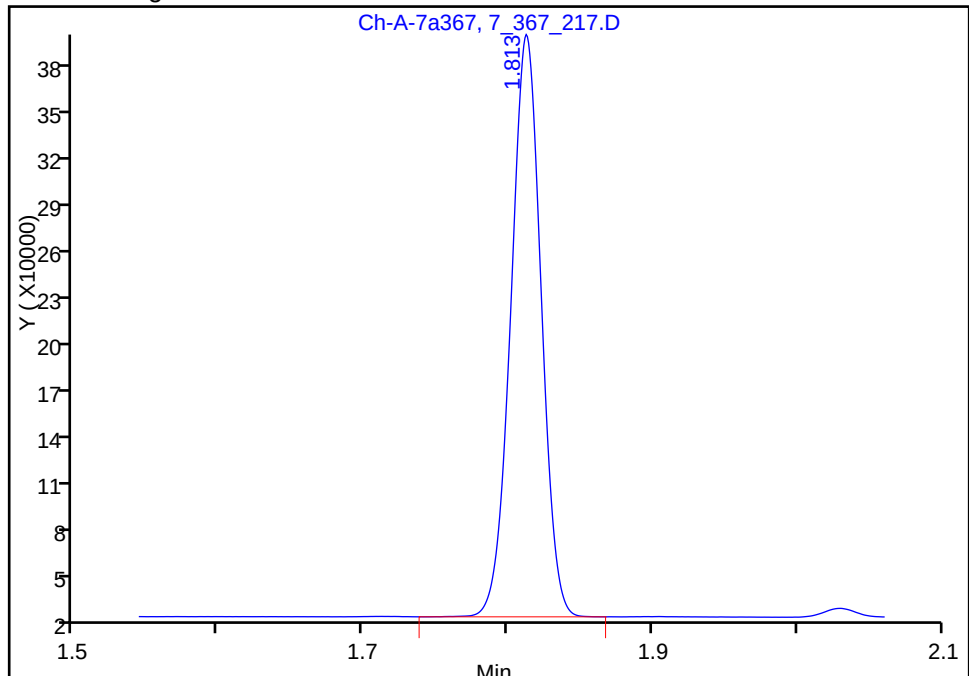
RT: 1.81
Area: 271949
Amount: 0.010636
Amount Units: ng/uL

Processing Integration Results



RT: 1.81
Area: 544653
Amount: 0.012034
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 10-Apr-2015 11:52:28
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_218.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 10-Apr-2015 11:34:39 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:37 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 12:18:41

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

\$ 3 Tetrachloro-m-xylene

1	1.813	1.812	0.001	229781	0.005000	0.005077	
2	1.532	1.532	0.000	203517	0.005000	0.005180	
RPD = 2.00							

\$ 12 DCB Decachlorobiphenyl

1	6.501	6.501	0.000	149916	0.005000	0.005087	
2	6.139	6.140	-0.001	139387	0.005000	0.005114	
RPD = 0.52							

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.10

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_218.D

Injection Date: 10-Apr-2015 11:34:39

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD4

Worklist Smp#: 4

Client ID:

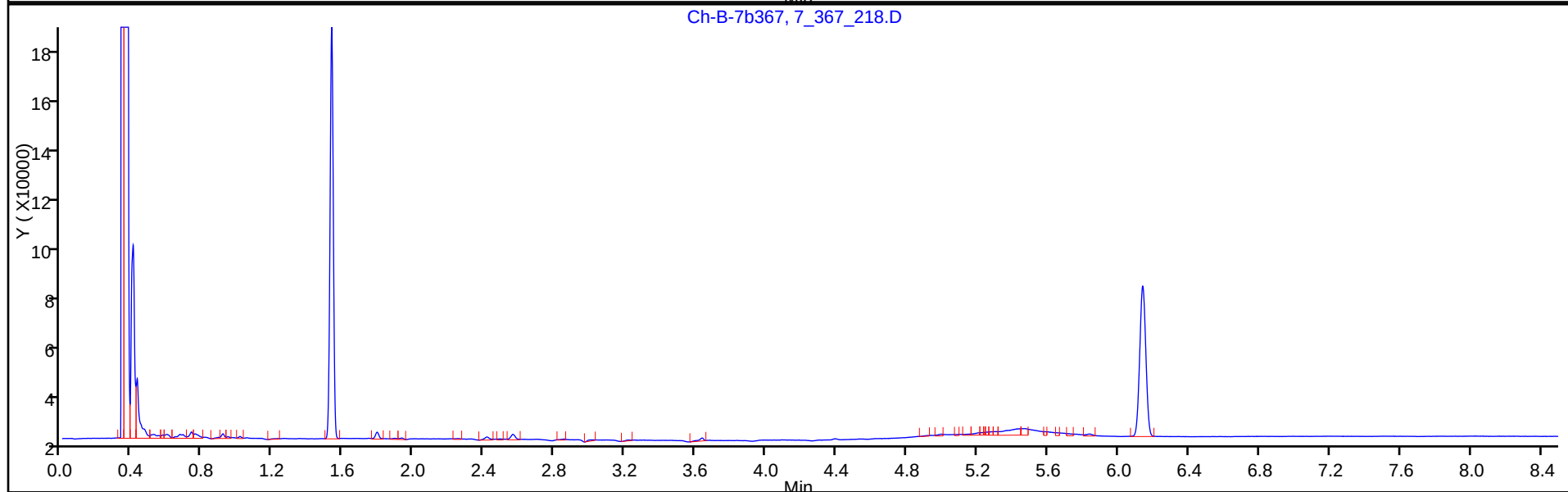
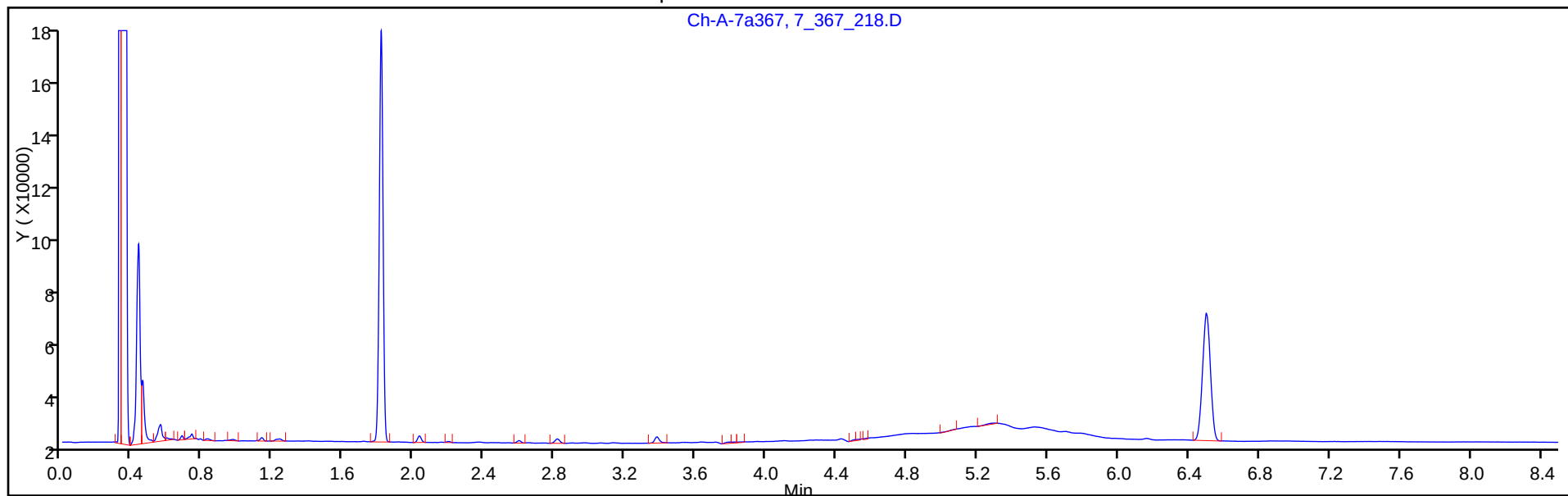
Injection Vol: 1.0 ul

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\20150410-41103.b\7_367_219.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Apr-2015 11:50:39 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:39 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 12:17:44

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

\$ 3 Tetrachloro-m-xylene M
 1 1.813 1.812 0.001 120624 0.002500 0.002665 M
 2 1.533 1.532 0.000 107251 0.002500 0.002730 M
 RPD = 2.39

\$ 12 DCB Decachlorobiphenyl M
 1 6.501 6.501 0.000 83992 0.002500 0.002850
 2 6.140 6.140 0.000 73967 0.002500 0.002714 M
 RPD = 4.91

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.05

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_219.D

Injection Date: 10-Apr-2015 11:50:39

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 5

Client ID:

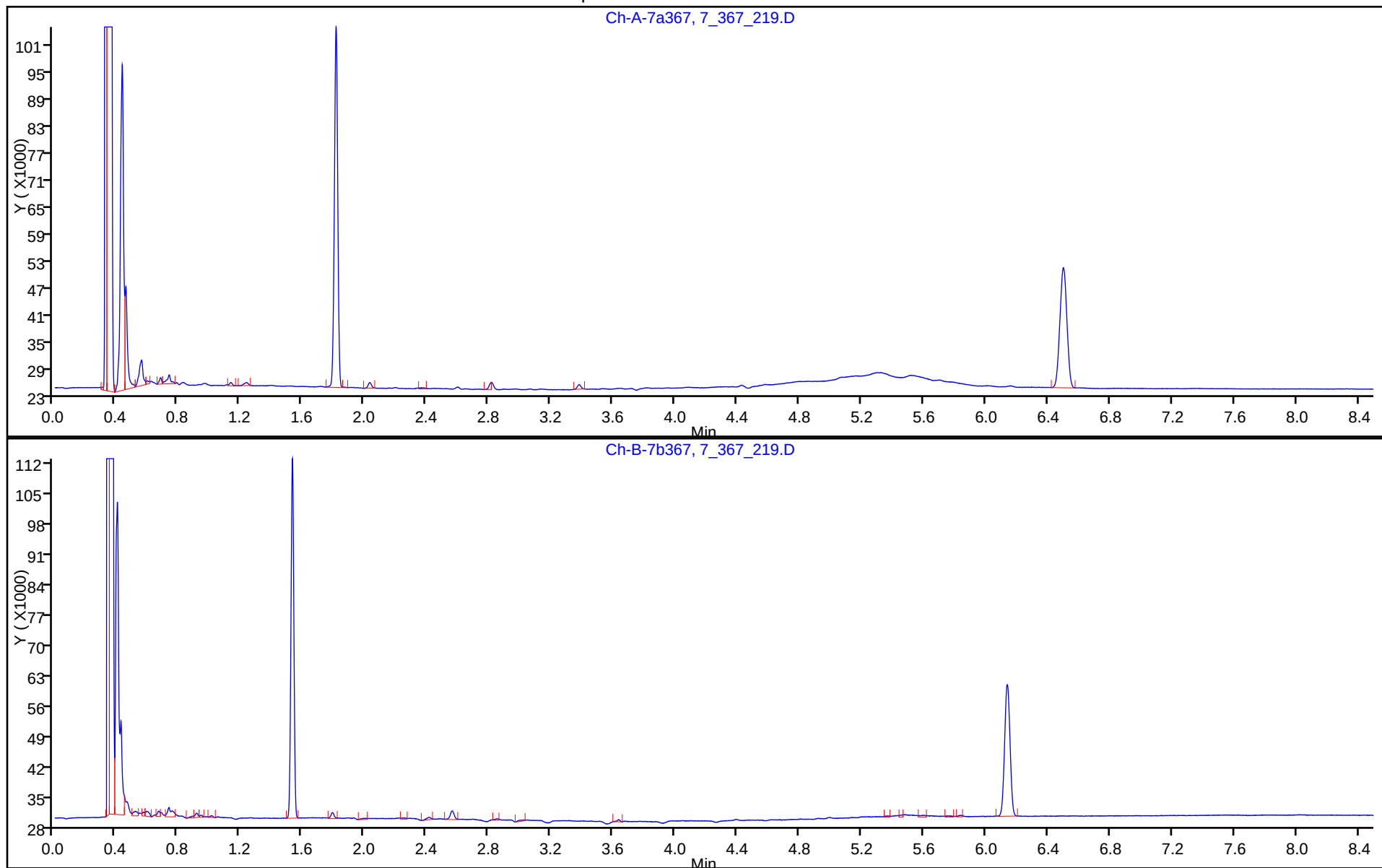
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



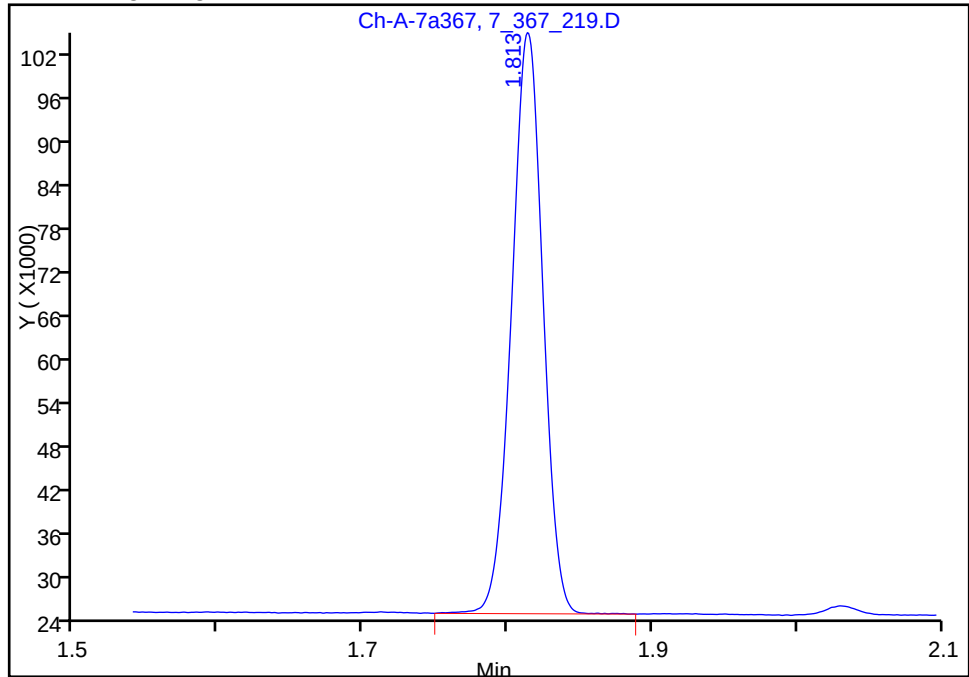
TestAmerica Buffalo

Data File:	\\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_219.D		
Injection Date:	10-Apr-2015 11:50:39	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

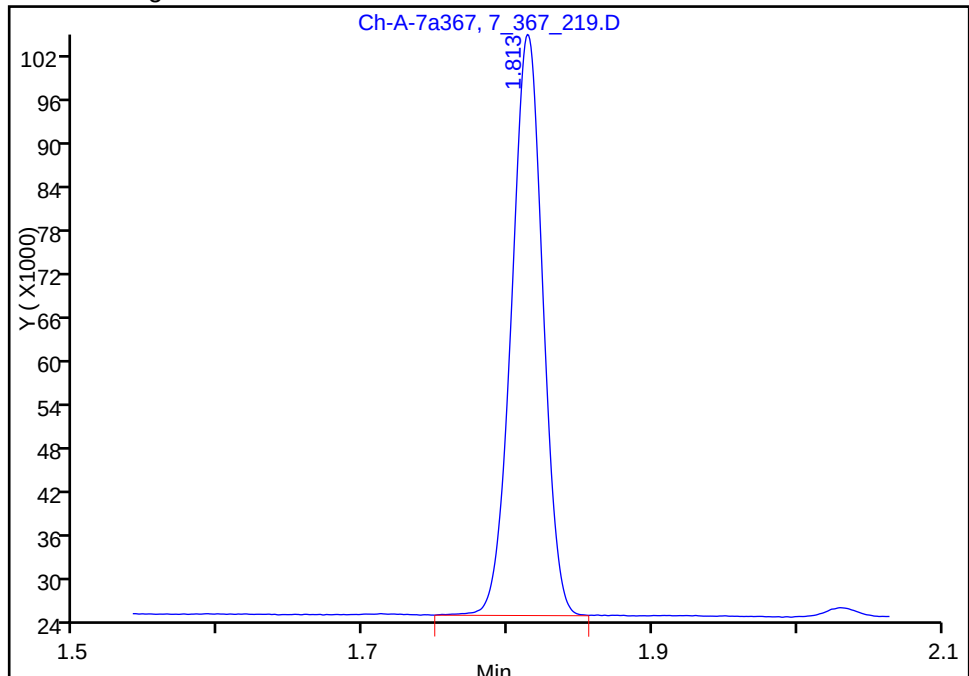
RT: 1.81
Area: 120733
Amount: 0.002145
Amount Units: ng/uL

Processing Integration Results



RT: 1.81
Area: 120624
Amount: 0.002665
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 10-Apr-2015 12:17:44
Audit Action: Split an Integrated Peak
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Apr-2015 12:06:25 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:42 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk Date: 10-Apr-2015 12:19:05

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

\$ 3 Tetrachloro-m-xylene

1	1.813	1.812	0.000	64154	0.001250	0.001417	
2	1.532	1.532	0.000	56756	0.001250	0.001444	
RPD = 1.89							

\$ 12 DCB Decachlorobiphenyl

1	6.504	6.501	0.003	47413	0.001250	0.001609	M
2	6.141	6.140	0.001	39094	0.001250	0.001434	M
RPD = 11.48							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.03

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D

Injection Date: 10-Apr-2015 12:06:25

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 6

Client ID:

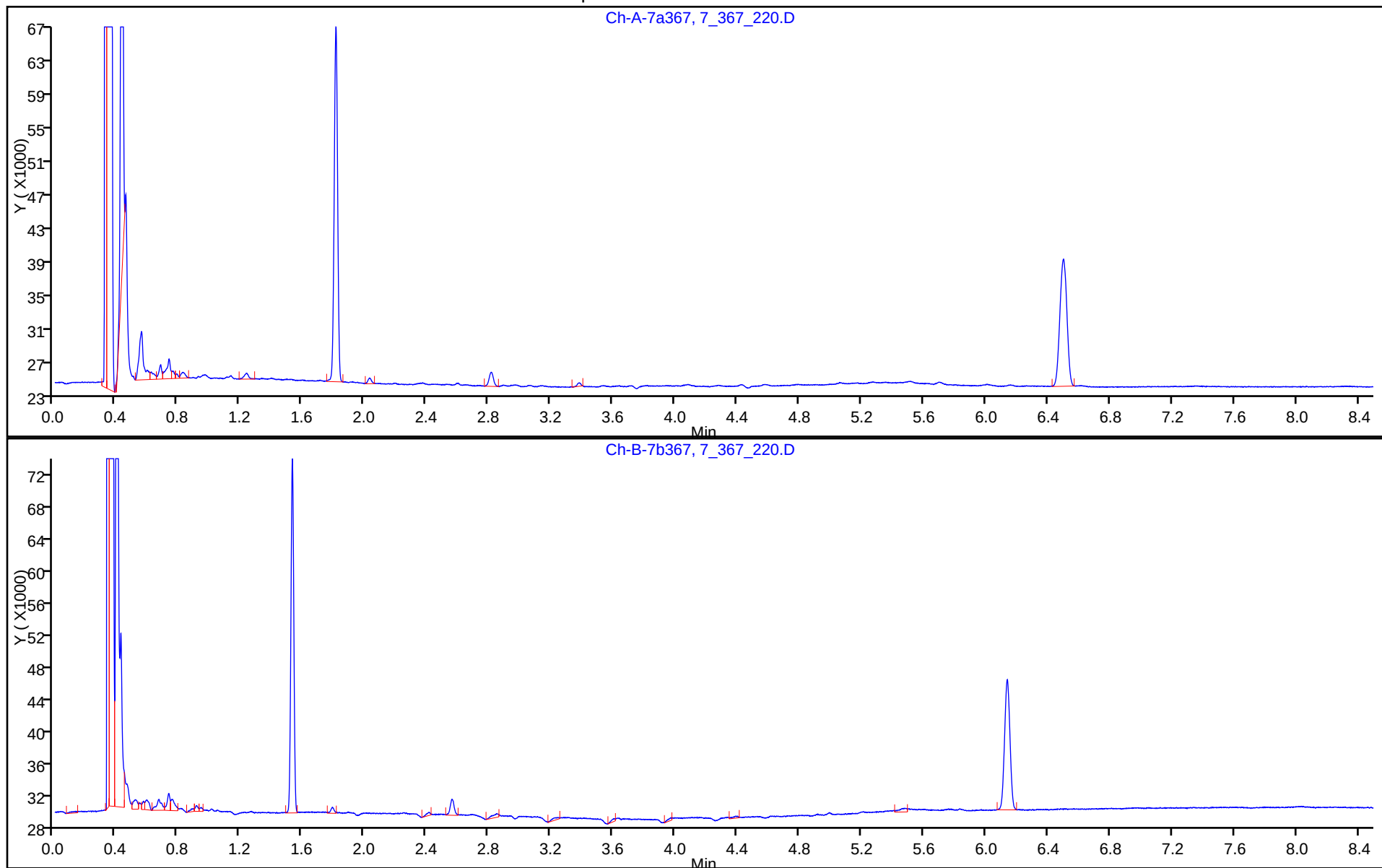
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 235369

SDG No.: _____

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

Calibration Start Date: 04/10/2015 10:47 Calibration End Date: 04/10/2015 12:22 Calibration ID: 22870

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 480-235369/6	7_367_220.D
Level 2	STD3 480-235369/5	7_367_219.D
Level 3	STD4 480-235369/4	7_367_218.D
Level 4	STD5 480-235369/3	7_367_217.D
Level 5	STD6 480-235369/2	7_367_216.D
Level 6	STD7 480-235369/1	7_367_215.D

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6					RT WINDOW	AVG RT
Tetrachloro-m-xylene	1.532	1.533	1.532	1.532	1.532	1.532					1.502 - 1.562	1.532
DCB Decachlorobiphenyl	6.141	6.140	6.139	6.138	6.139	6.142					6.080 - 6.200	6.140

FORM VI
PCBS INITIAL CALIBRATION DATA
EXTERNAL STANDARD CURVE EVALUATION

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1 Analy Batch No.: 235369

SDG No.: _____

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

Calibration Start Date: 04/10/2015 10:47 Calibration End Date: 04/10/2015 12:22 Calibration ID: 22870

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 480-235369/6	7_367_220.D
Level 2	STD3 480-235369/5	7_367_219.D
Level 3	STD4 480-235369/4	7_367_218.D
Level 4	STD5 480-235369/3	7_367_217.D
Level 5	STD6 480-235369/2	7_367_216.D
Level 6	STD7 480-235369/1	7_367_215.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 4		B	M1	M2								
Tetrachloro-m-xylene	45404800 35737480	42900400 33032740	40703400	37969840	Ave		39291443.3				11.7		20.0			
DCB Decachlorobiphenyl	31275200 24743200	29586800 24358060	27877400	25706000	Ave		27257776.7				10.3		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.: 480-79126-1 Analy Batch No.: 235369

SDG No.: _____

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

Calibration Start Date: 04/10/2015 10:47 Calibration End Date: 04/10/2015 12:22 Calibration ID: 22870

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD2 480-235369/6	7_367_220.D
Level 2	STD3 480-235369/5	7_367_219.D
Level 3	STD4 480-235369/4	7_367_218.D
Level 4	STD5 480-235369/3	7_367_217.D
Level 5	STD6 480-235369/2	7_367_216.D
Level 6	STD7 480-235369/1	7_367_215.D

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
		LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Tetrachloro-m-xylene	Ave	56756 1651637	107251	203517	474623	893437	0.00125 0.0500	0.00250	0.00500	0.0125	0.0250
DCB Decachlorobiphenyl	Ave	39094 1217903	73967	139387	321325	618580	0.00125 0.0500	0.00250	0.00500	0.0125	0.0250

Curve Type Legend:

Ave = Average

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_215.D
Lims ID: STD7
Client ID:
Sample Type: IC Calib Level: 7
Inject. Date: 10-Apr-2015 10:47:12 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*sub11
Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Apr-2015 12:59:31 Calib Date: 10-Apr-2015 12:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 11:03:07

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

\$ 3 Tetrachloro-m-xylene

1	1.817	1.812	0.005	2018688	0.0500	0.0446	
2	1.532	1.532	0.000	1651637	0.0500	0.0420	
RPD = 5.93							

\$ 12 DCB Decachlorobiphenyl

1	6.507	6.501	0.006	1193596	0.0500	0.0405	
2	6.142	6.140	0.002	1217903	0.0500	0.0447	
RPD = 9.81							

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 1.00

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_215.D

Injection Date: 10-Apr-2015 10:47:12

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD7

Worklist Smp#: 1

Client ID:

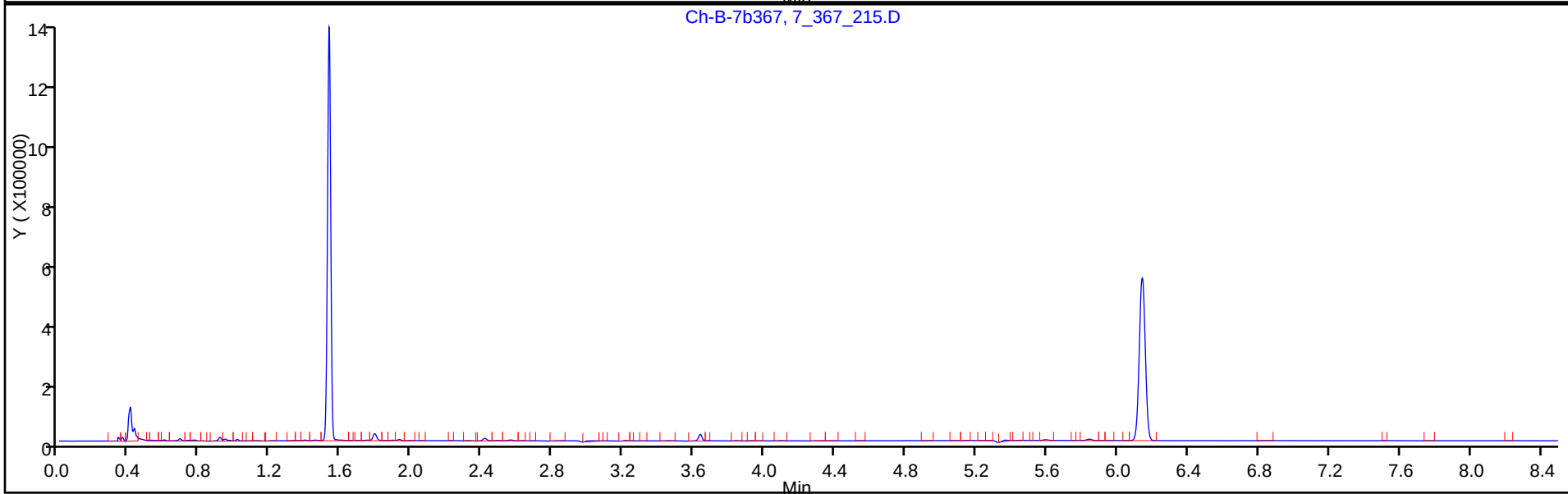
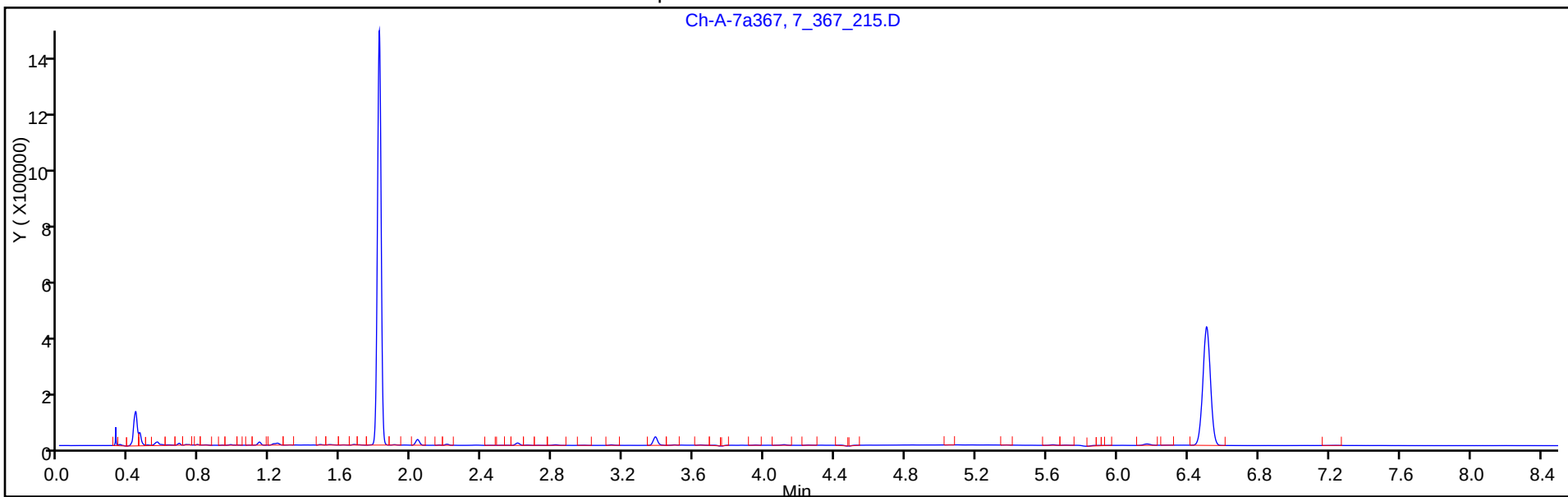
Injection Vol: 1.0 ul

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\20150410-41103.b\7_367_216.D
Lims ID: STD6
Client ID:
Sample Type: IC Calib Level: 6
Inject. Date: 10-Apr-2015 11:02:58 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*sub11
Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 10-Apr-2015 12:59:33 Calib Date: 10-Apr-2015 12:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 11:52:13

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

\$ 3 Tetrachloro-m-xylene

1	1.813	1.812	0.001	1051909	0.0250	0.0232	
2	1.532	1.532	0.000	893437	0.0250	0.0227	
RPD = 2.19							

\$ 12 DCB Decachlorobiphenyl

1	6.503	6.501	0.002	619382	0.0250	0.0210	
2	6.139	6.140	-0.001	618580	0.0250	0.0227	
RPD = 7.67							

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.50

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_216.D

Injection Date: 10-Apr-2015 11:02:58

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD6

Worklist Smp#: 2

Client ID:

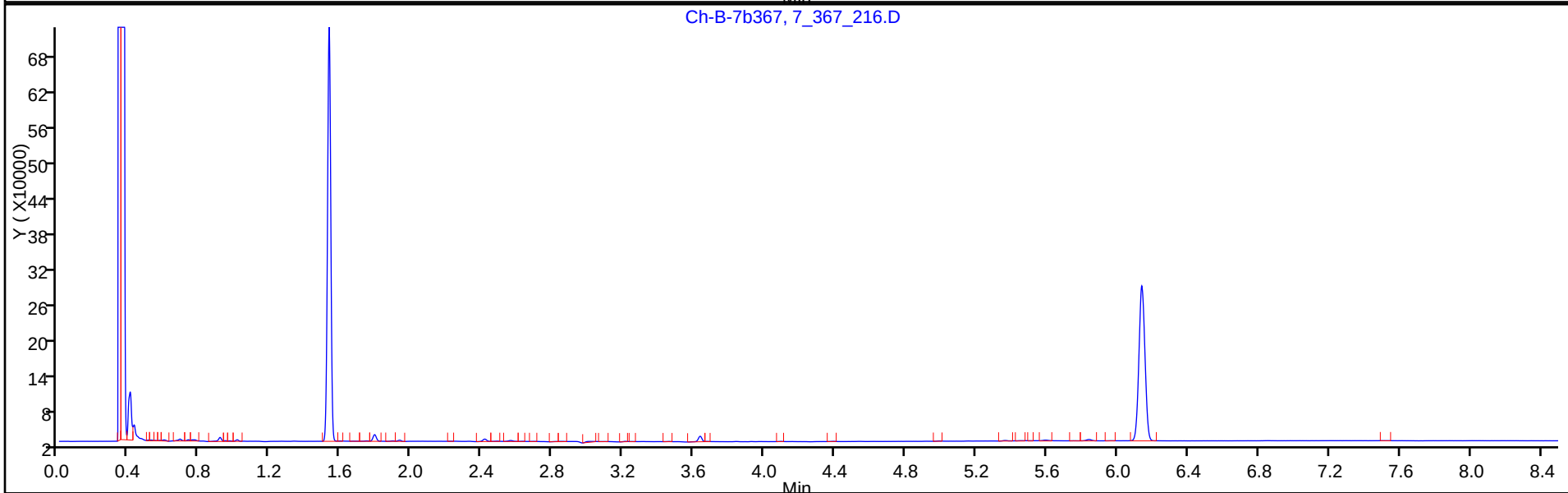
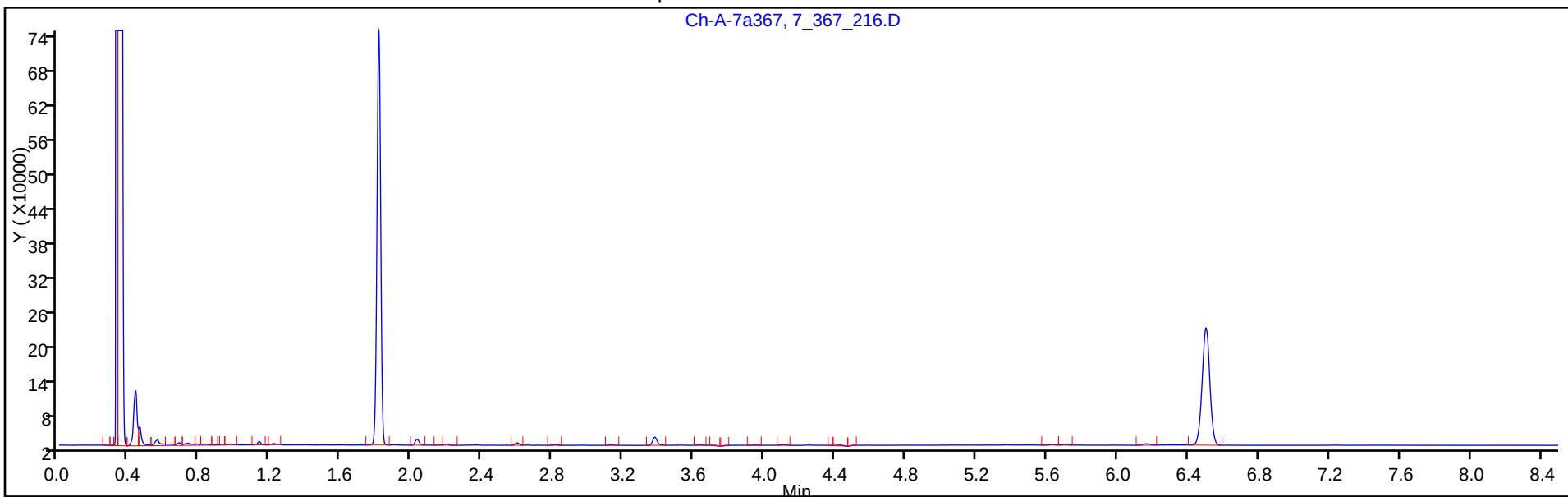
Injection Vol: 1.0 ul

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\20150410-41103.b\7_367_217.D
 Lims ID: STD5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 10-Apr-2015 11:18:49 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:35 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 11:52:28

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

\$ 3 Tetrachloro-m-xylene M
 1 1.813 1.812 0.000 544653 0.0125 0.0120 M
 2 1.532 1.532 0.000 474623 0.0125 0.0121
 RPD = 0.38

\$ 12 DCB Decachlorobiphenyl
 1 6.502 6.501 0.001 333171 0.0125 0.0113
 2 6.138 6.140 -0.002 321325 0.0125 0.0118
 RPD = 4.18

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.25

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_217.D

Injection Date: 10-Apr-2015 11:18:49

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD5

Worklist Smp#: 3

Client ID:

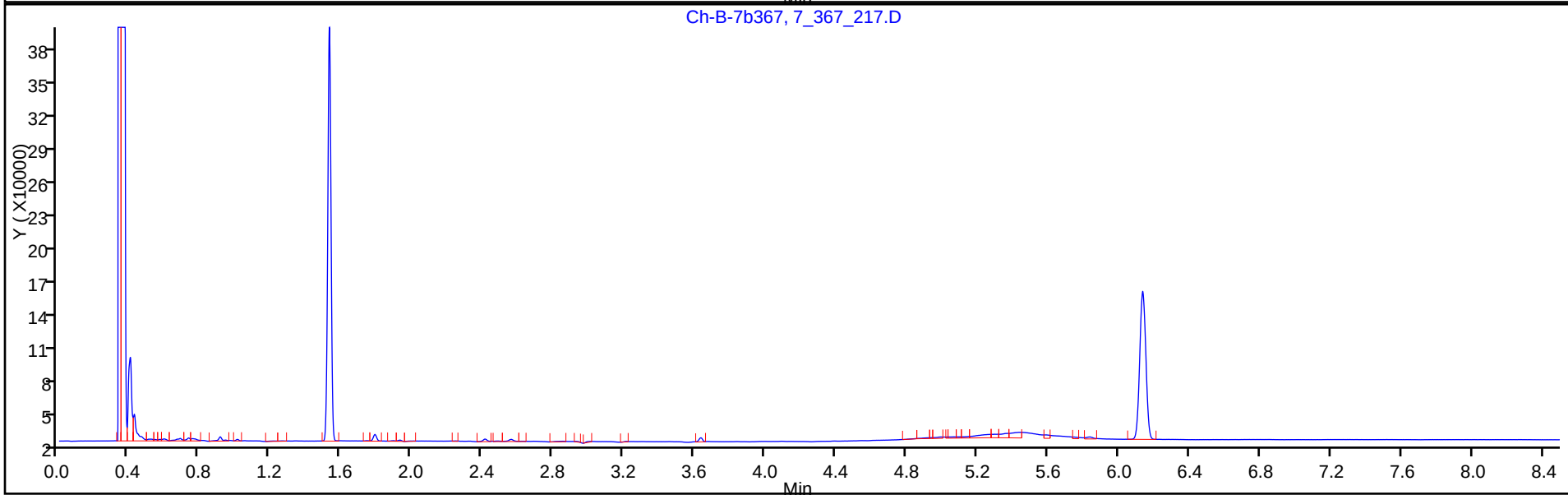
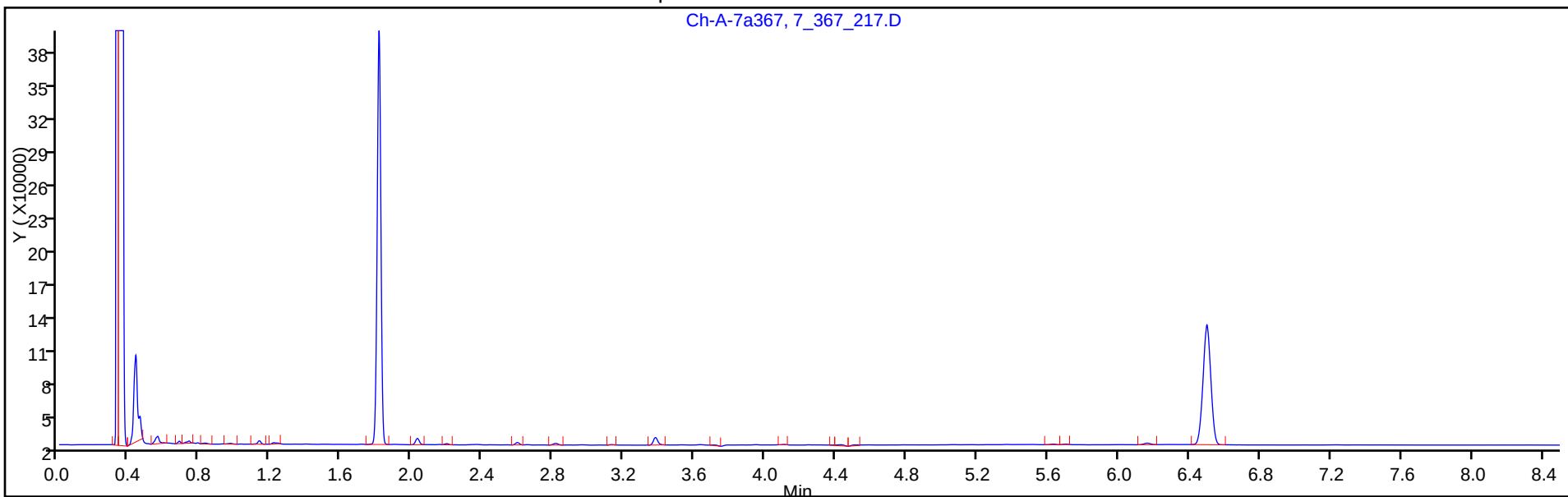
Injection Vol: 1.0 ul

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\20150410-41103.b\7_367_218.D
 Lims ID: STD4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 10-Apr-2015 11:34:39 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:37 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 12:18:41

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

\$ 3 Tetrachloro-m-xylene

1	1.813	1.812	0.001	229781	0.005000	0.005077	
2	1.532	1.532	0.000	203517	0.005000	0.005180	
RPD = 2.00							

\$ 12 DCB Decachlorobiphenyl

1	6.501	6.501	0.000	149916	0.005000	0.005087	
2	6.139	6.140	-0.001	139387	0.005000	0.005114	
RPD = 0.52							

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.10

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_218.D

Injection Date: 10-Apr-2015 11:34:39

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD4

Worklist Smp#: 4

Client ID:

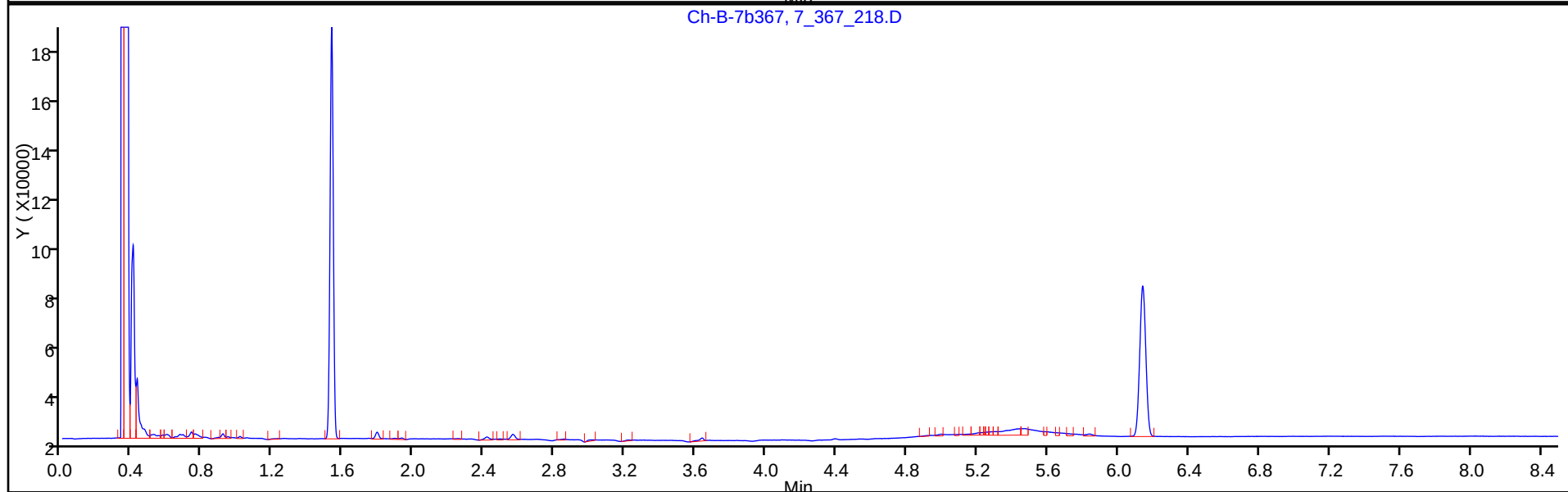
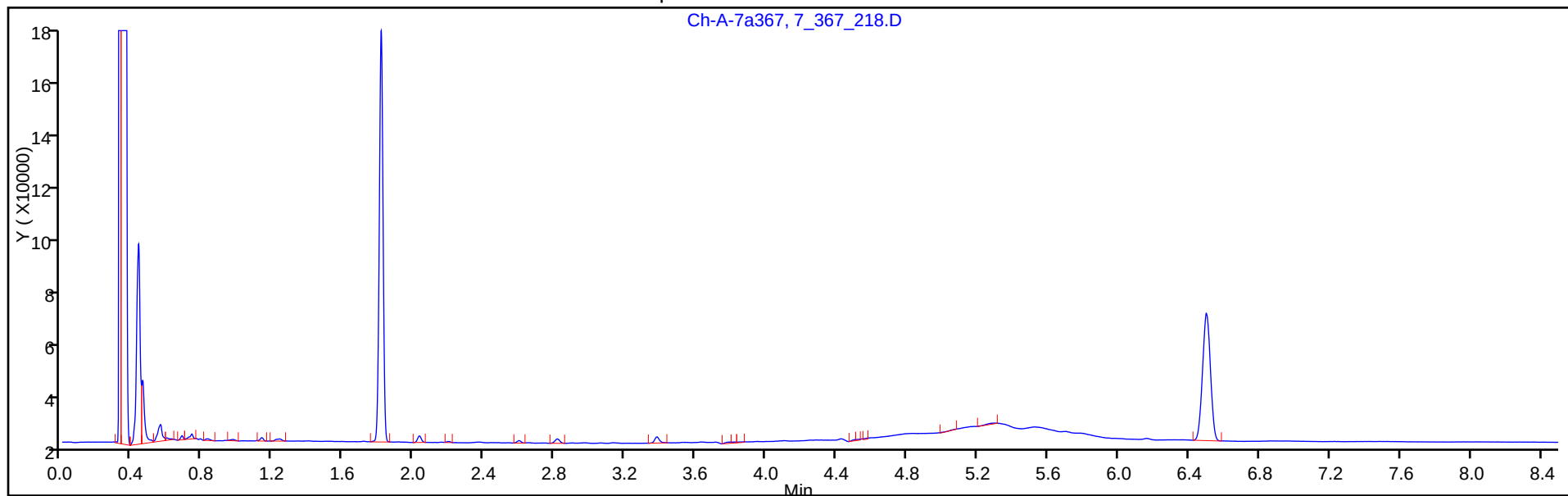
Injection Vol: 1.0 ul

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\20150410-41103.b\7_367_219.D
 Lims ID: STD3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 10-Apr-2015 11:50:39 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:39 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 12:17:44

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

\$ 3 Tetrachloro-m-xylene M
 1 1.813 1.812 0.001 120624 0.002500 0.002665 M
 2 1.533 1.532 0.000 107251 0.002500 0.002730 M
 RPD = 2.39

\$ 12 DCB Decachlorobiphenyl M
 1 6.501 6.501 0.000 83992 0.002500 0.002850
 2 6.140 6.140 0.000 73967 0.002500 0.002714 M
 RPD = 4.91

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.05

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_219.D

Injection Date: 10-Apr-2015 11:50:39

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD3

Worklist Smp#: 5

Client ID:

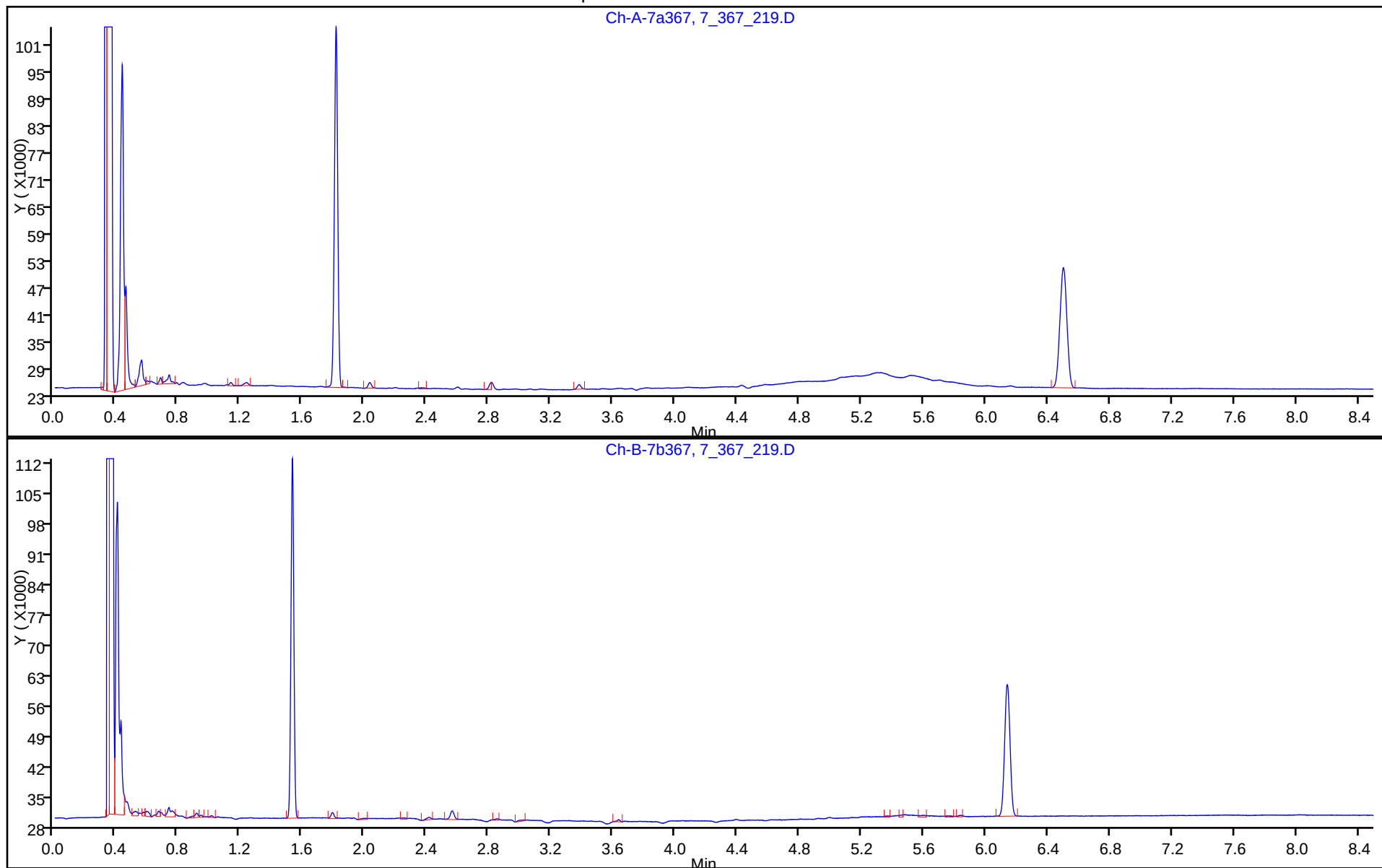
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



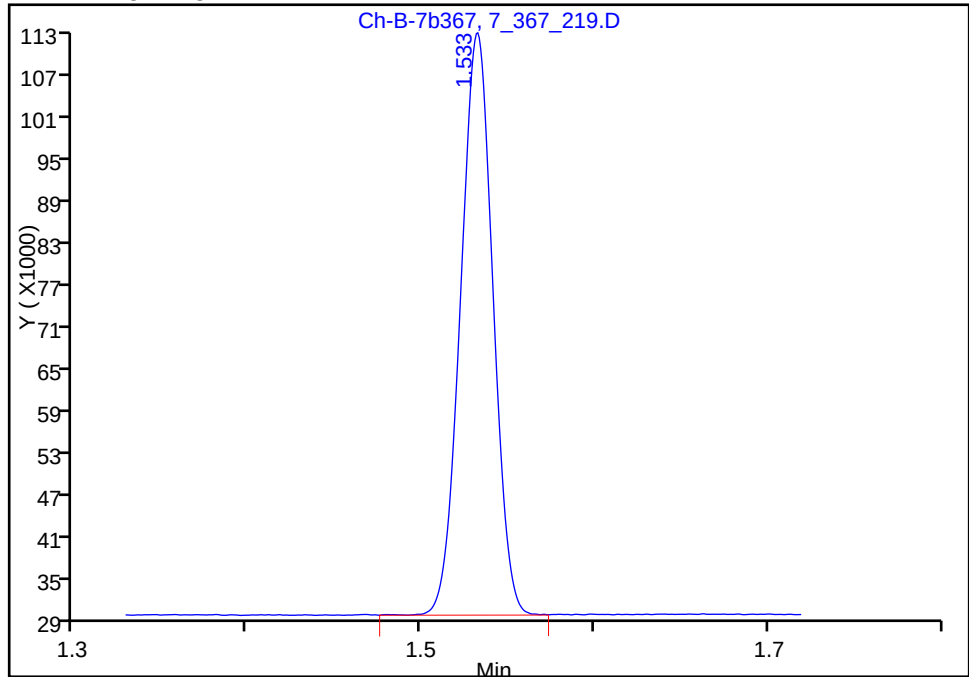
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_219.D
Injection Date: 10-Apr-2015 11:50:39 Instrument ID: HP6890-7
Lims ID: STD3
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

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

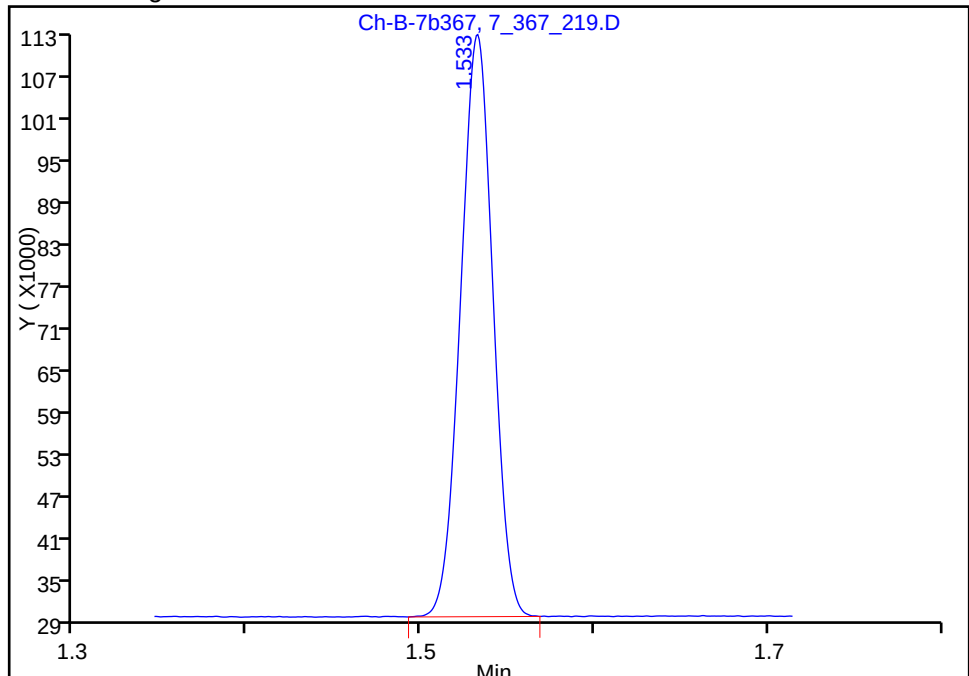
RT: 1.53
Area: 107485
Amount: 0.001761
Amount Units: ng/uL

Processing Integration Results



RT: 1.53
Area: 107251
Amount: 0.002730
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 10-Apr-2015 12:17:44
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

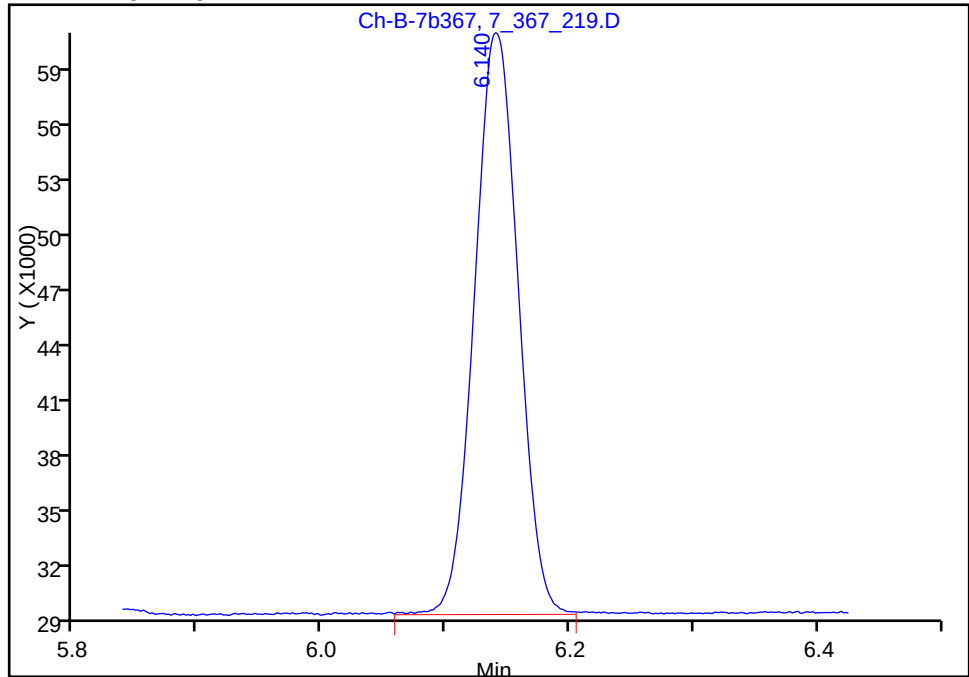
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_219.D
Injection Date: 10-Apr-2015 11:50:39 Instrument ID: HP6890-7
Lims ID: STD3
Client ID:
Operator ID: buftchrom ALS Bottle#: 0 Worklist Smp#: 5
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: HP7-PCBS Limit Group: GC - 8082A PCB ICAL
Column: Detector Ch-B-7b136

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

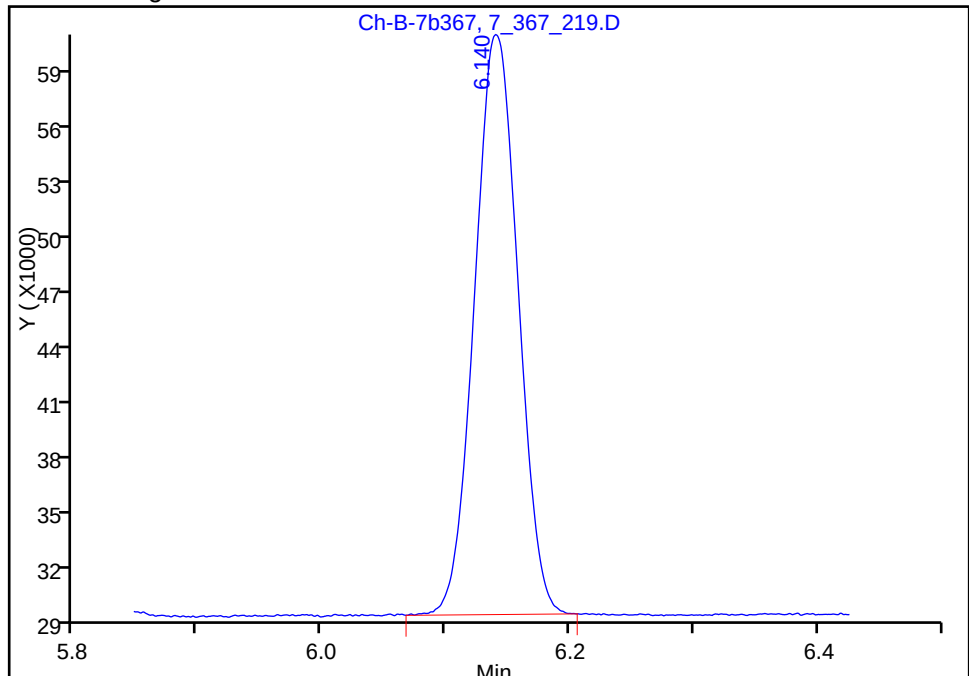
RT: 6.14
Area: 74765
Amount: 0.002355
Amount Units: ng/uL

Processing Integration Results



RT: 6.14
Area: 73967
Amount: 0.002714
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 10-Apr-2015 12:17:44
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Lims ID: STD2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 10-Apr-2015 12:06:25 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*sub11
 Method: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 10-Apr-2015 12:59:42 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK036

First Level Reviewer: sobolk

Date: 10-Apr-2015 12:19:05

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

\$ 3 Tetrachloro-m-xylene

1	1.813	1.812	0.000	64154	0.001250	0.001417	
2	1.532	1.532	0.000	56756	0.001250	0.001444	
RPD = 1.89							

\$ 12 DCB Decachlorobiphenyl

M

1	6.504	6.501	0.003	47413	0.001250	0.001609	
2	6.141	6.140	0.001	39094	0.001250	0.001434	M
RPD = 11.48							

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

pcbSUR@0.05ng_00001

Amount Added: 0.03

Units: mL

TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D

Injection Date: 10-Apr-2015 12:06:25

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: STD2

Worklist Smp#: 6

Client ID:

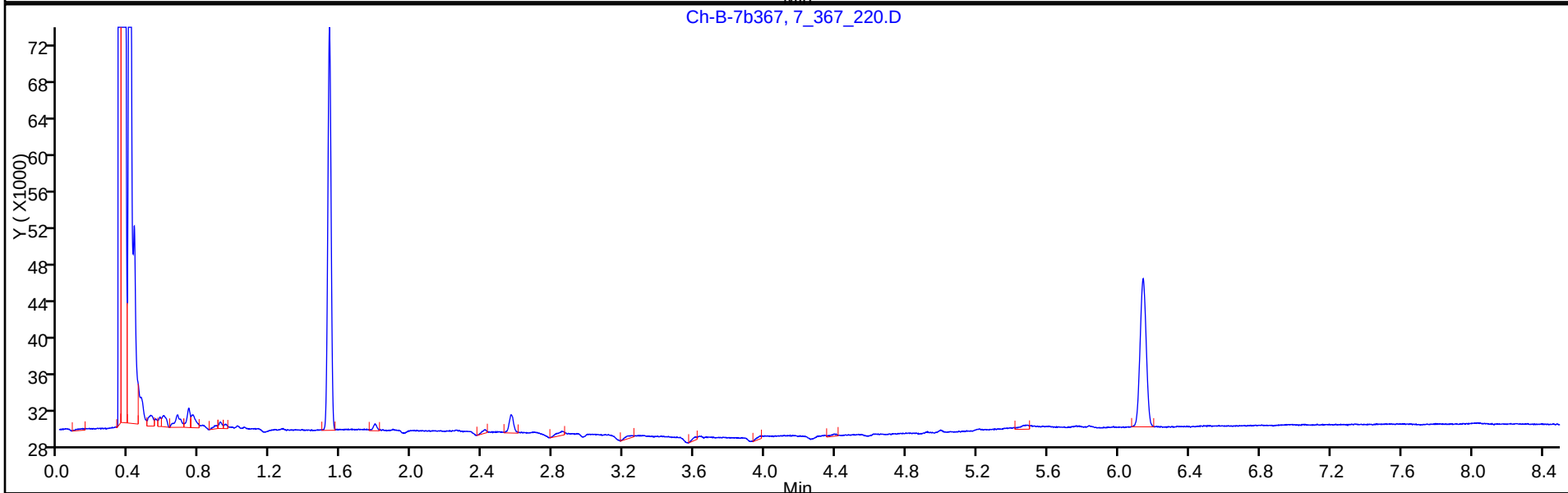
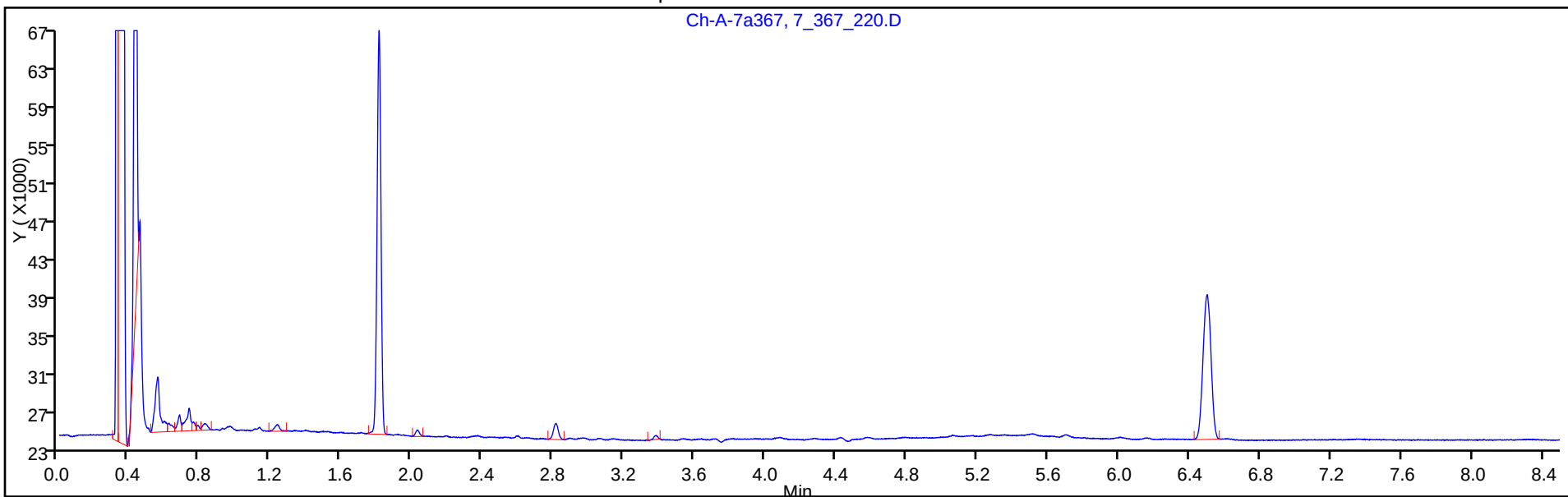
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



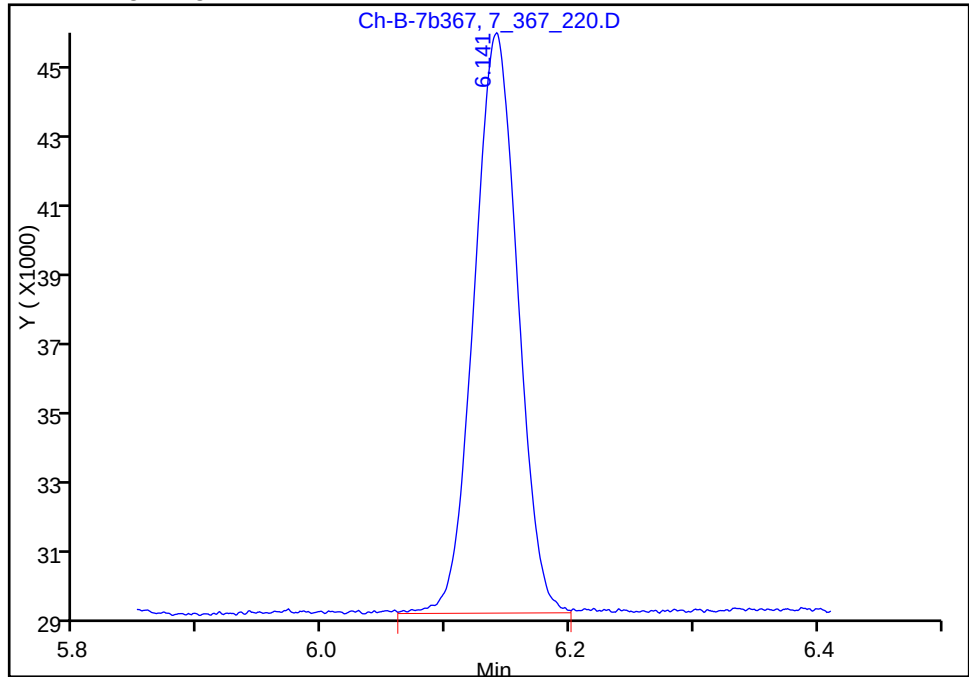
TestAmerica Buffalo

Data File: \\Bufchrom\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Injection Date: 10-Apr-2015 12:06:25 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-B-7b136

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

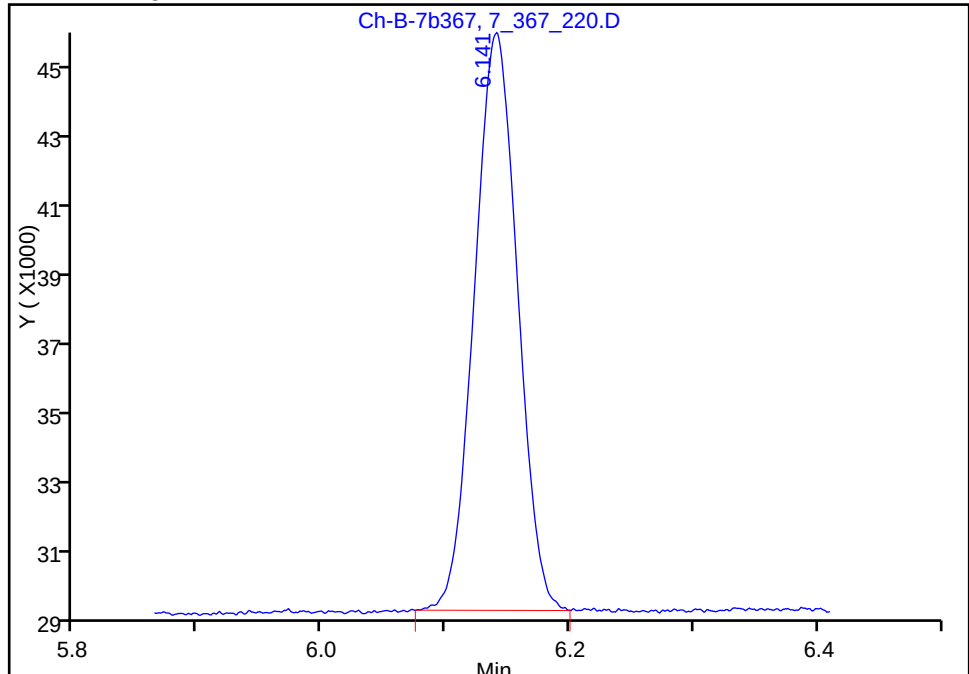
RT: 6.14
Area: 39700
Amount: 0.001008
Amount Units: ng/uL

Processing Integration Results



RT: 6.14
Area: 39094
Amount: 0.001434
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 10-Apr-2015 12:41:58
Audit Action: Manually Integrated
Audit Reason: Incomplete Integration

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
 SDG No.: _____
 Lab Sample ID: CCV 480-238818/4 Calibration Date: 04/27/2015 10:35
 Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
 Lab File ID: 7_369_132.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	3141540	3044772		0.485	0.500	-3.1	20.0
PCB-1016 Peak 2	Ave	1238779	1176014		0.475	0.500	-5.1	20.0
PCB-1016 Peak 3	Ave	821111	805614		0.491	0.500	-1.9	20.0
PCB-1016 Peak 4	Ave	1082633	1023068		0.472	0.500	-5.5	20.0
PCB-1260 Peak 1	Ave	1463539	1341336		0.458	0.500	-8.3	20.0
PCB-1260 Peak 2	Ave	1374177	1245206		0.453	0.500	-9.4	20.0
PCB-1260 Peak 3	Ave	3214746	3071276		0.478	0.500	-4.5	20.0
PCB-1260 Peak 4	Ave	1550459	1408590		0.454	0.500	-9.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/4 Calibration Date: 04/27/2015 10:35
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_132.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.71	2.68	2.74
PCB-1016 Peak 2	2.80	2.77	2.83
PCB-1016 Peak 3	2.86	2.83	2.89
PCB-1016 Peak 4	3.24	3.21	3.27
PCB-1260 Peak 1	4.67	4.64	4.70
PCB-1260 Peak 2	4.86	4.83	4.89
PCB-1260 Peak 3	5.06	5.03	5.09
PCB-1260 Peak 4	5.30	5.27	5.33

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 10:35:05 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*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 14:09:37 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 14:09:37

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

\$ 3 Tetrachloro-m-xylene

1	1.816	1.816	0.000	1302162	0.0300	0.0288	
2	1.535	1.535	0.000	1098022	0.0300	0.0279	

RPD = 2.91

6 PCB-1016

M

1	2.713	2.713	0.000	1522386	0.5000	0.4846	
1	2.796	2.796	0.000	588007	0.5000	0.4747	
1	2.856	2.856	0.000	402807	0.5000	0.4906	
1	3.243	3.243	0.000	511534	0.5000	0.4725	

Average of Peak Amounts = 0.4806

2	2.422	2.422	0.000	381506	0.5000	0.5491	M
2	2.526	2.526	0.000	1536602	0.5000	0.5881	
2	2.728	2.728	0.000	348255	0.5000	0.5231	
2	3.003	3.003	0.000	678253	0.5000	0.5606	

Average of Peak Amounts = 0.5552

RPD = 14.41

9 PCB-1260

M

1	4.673	4.673	0.000	670668	0.5000	0.4583	
1	4.859	4.859	0.000	622603	0.5000	0.4531	
1	5.063	5.063	0.000	1535638	0.5000	0.4777	
1	5.298	5.298	0.000	704295	0.5000	0.4542	

Average of Peak Amounts = 0.4608

2	4.668	4.668	0.000	681874	0.5000	0.5155	M
2	4.736	4.736	0.000	506868	0.5000	0.5139	M
2	4.808	4.808	0.000	1645217	0.5000	0.5305	M
2	5.138	5.138	0.000	928528	0.5000	0.4940	M

Average of Peak Amounts = 0.5135

RPD = 10.81

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	696856	0.0300	0.0236	
2	6.139	6.139	0.000	678439	0.0300	0.0249	

RPD = 5.12

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

Injection Date: 27-Apr-2015 10:35:05

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 4

Client ID:

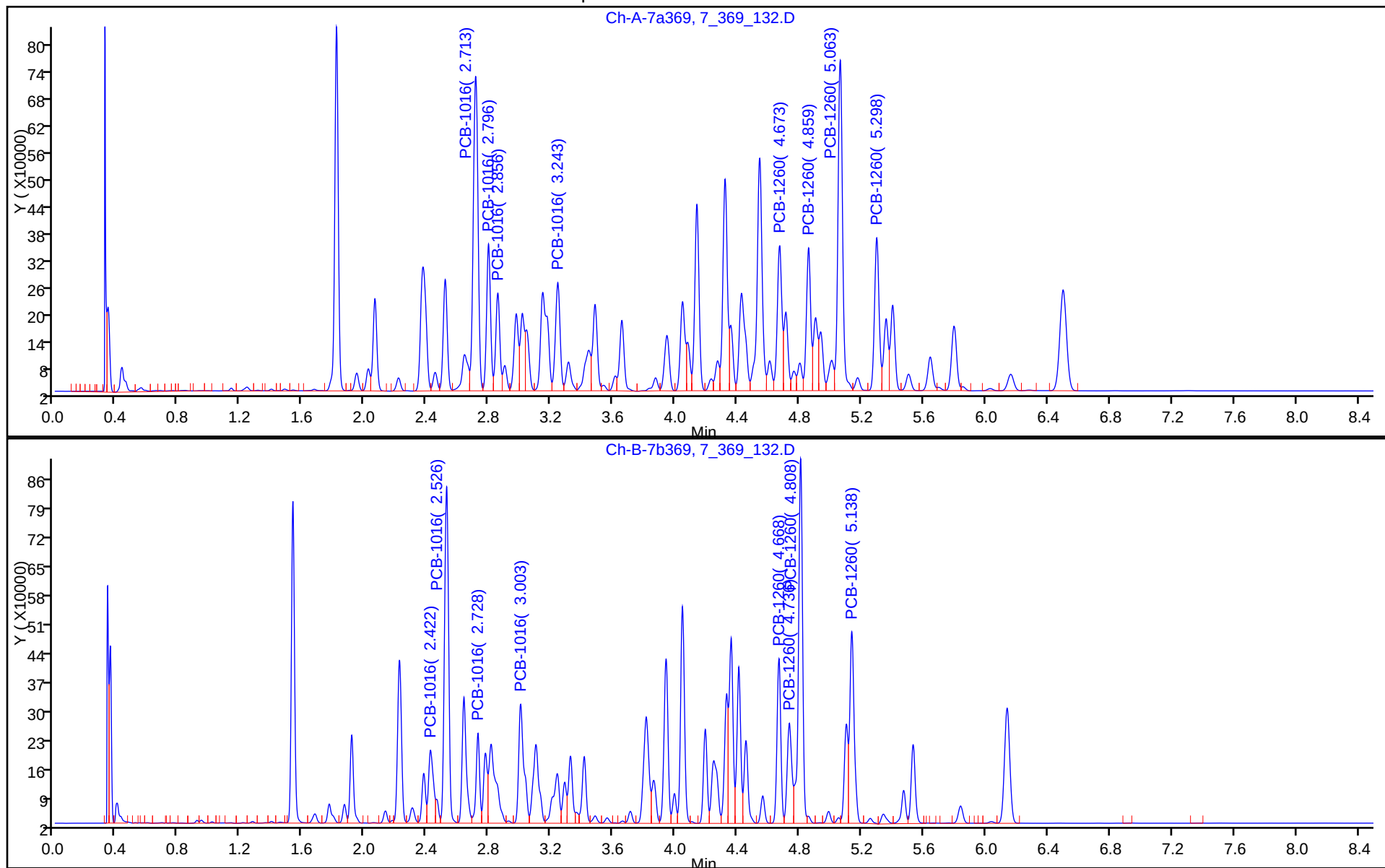
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/4 Calibration Date: 04/27/2015 10:35
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_132.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	45258560	43405400		0.0288	0.0300	-4.1	20.0
DCB Decachlorobiphenyl	Ave	29468547	23228533		0.0236	0.0300	-21.2*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/4 Calibration Date: 04/27/2015 10:35
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_132.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.82	1.79	1.85
DCB Decachlorobiphenyl	6.50	6.44	6.56

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 10:35:05 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*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 14:09:37 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 14:09:37

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

\$ 3 Tetrachloro-m-xylene

1	1.816	1.816	0.000	1302162	0.0300	0.0288	
2	1.535	1.535	0.000	1098022	0.0300	0.0279	

RPD = 2.91

6 PCB-1016

M

1	2.713	2.713	0.000	1522386	0.5000	0.4846	
1	2.796	2.796	0.000	588007	0.5000	0.4747	
1	2.856	2.856	0.000	402807	0.5000	0.4906	
1	3.243	3.243	0.000	511534	0.5000	0.4725	

Average of Peak Amounts = 0.4806

2	2.422	2.422	0.000	381506	0.5000	0.5491	M
2	2.526	2.526	0.000	1536602	0.5000	0.5881	
2	2.728	2.728	0.000	348255	0.5000	0.5231	
2	3.003	3.003	0.000	678253	0.5000	0.5606	

Average of Peak Amounts = 0.5552

RPD = 14.41

9 PCB-1260

M

1	4.673	4.673	0.000	670668	0.5000	0.4583	
1	4.859	4.859	0.000	622603	0.5000	0.4531	
1	5.063	5.063	0.000	1535638	0.5000	0.4777	
1	5.298	5.298	0.000	704295	0.5000	0.4542	

Average of Peak Amounts = 0.4608

2	4.668	4.668	0.000	681874	0.5000	0.5155	M
2	4.736	4.736	0.000	506868	0.5000	0.5139	M
2	4.808	4.808	0.000	1645217	0.5000	0.5305	M
2	5.138	5.138	0.000	928528	0.5000	0.4940	M

Average of Peak Amounts = 0.5135

RPD = 10.81

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	696856	0.0300	0.0236	
2	6.139	6.139	0.000	678439	0.0300	0.0249	

RPD = 5.12

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

Injection Date: 27-Apr-2015 10:35:05

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 4

Client ID:

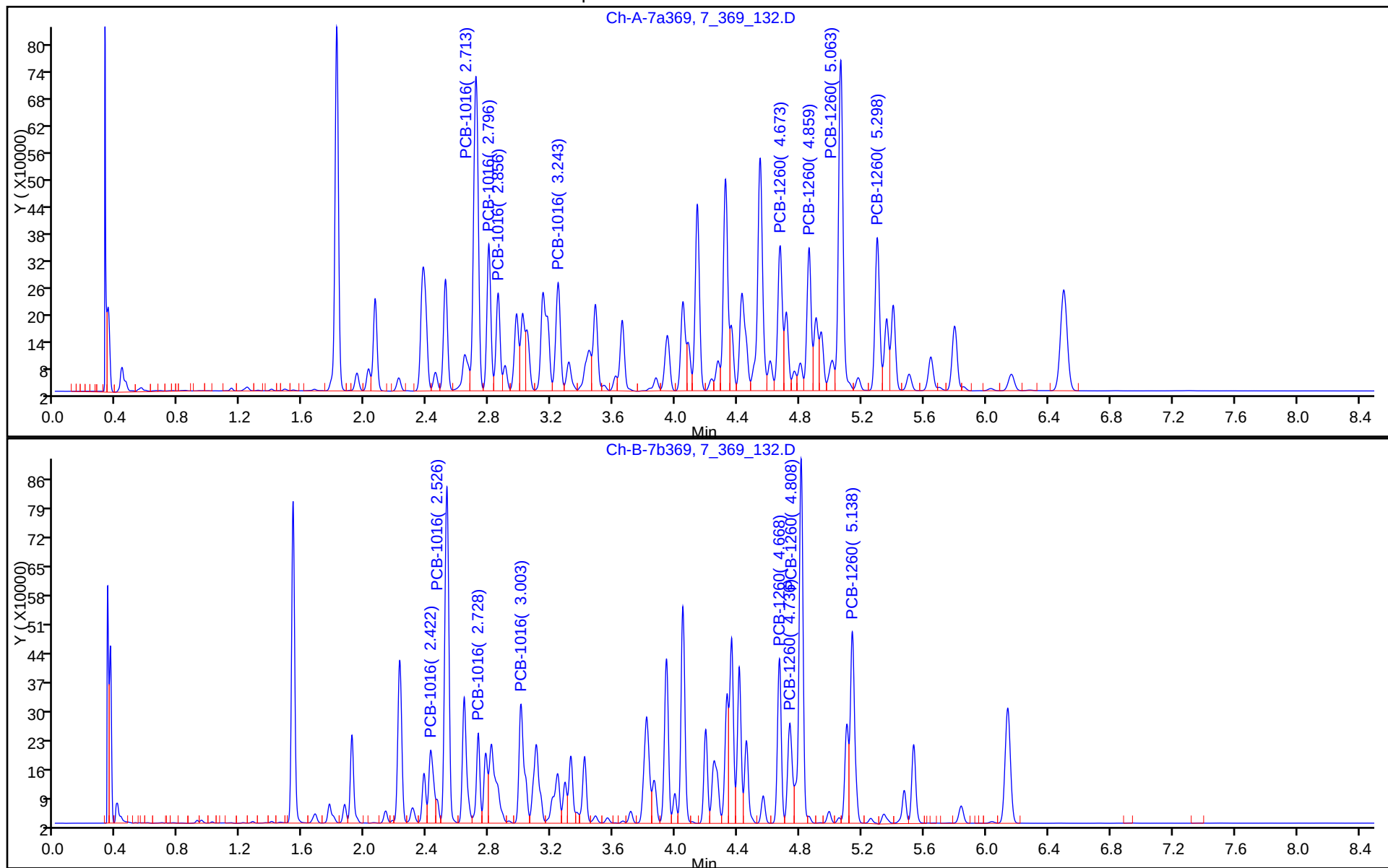
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/4 Calibration Date: 04/27/2015 10:35
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_132.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	694781	763012		0.549	0.500	9.8	20.0
PCB-1016 Peak 2	Ave	2612999	3073204		0.588	0.500	17.6	20.0
PCB-1016 Peak 3	Ave	665710	696510		0.523	0.500	4.6	20.0
PCB-1016 Peak 4	Ave	1209959	1356506		0.561	0.500	12.1	20.0
PCB-1260 Peak 1	Ave	1322768	1363748		0.515	0.500	3.1	20.0
PCB-1260 Peak 2	Ave	986283	1013736		0.514	0.500	2.8	20.0
PCB-1260 Peak 3	Ave	3101425	3290434		0.530	0.500	6.1	20.0
PCB-1260 Peak 4	Ave	1879432	1857056		0.494	0.500	-1.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/4 Calibration Date: 04/27/2015 10:35
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_132.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.42	2.39	2.45
PCB-1016 Peak 2	2.53	2.50	2.56
PCB-1016 Peak 3	2.73	2.70	2.76
PCB-1016 Peak 4	3.00	2.97	3.03
PCB-1260 Peak 1	4.67	4.64	4.70
PCB-1260 Peak 2	4.74	4.71	4.77
PCB-1260 Peak 3	4.81	4.78	4.84
PCB-1260 Peak 4	5.14	5.11	5.17

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 10:35:05 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*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 14:09:37 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 14:09:37

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

\$ 3 Tetrachloro-m-xylene

1	1.816	1.816	0.000	1302162	0.0300	0.0288	
2	1.535	1.535	0.000	1098022	0.0300	0.0279	

RPD = 2.91

6 PCB-1016

M

1	2.713	2.713	0.000	1522386	0.5000	0.4846	
1	2.796	2.796	0.000	588007	0.5000	0.4747	
1	2.856	2.856	0.000	402807	0.5000	0.4906	
1	3.243	3.243	0.000	511534	0.5000	0.4725	

Average of Peak Amounts = 0.4806

2	2.422	2.422	0.000	381506	0.5000	0.5491	M
2	2.526	2.526	0.000	1536602	0.5000	0.5881	
2	2.728	2.728	0.000	348255	0.5000	0.5231	
2	3.003	3.003	0.000	678253	0.5000	0.5606	

Average of Peak Amounts = 0.5552

RPD = 14.41

9 PCB-1260

M

1	4.673	4.673	0.000	670668	0.5000	0.4583	
1	4.859	4.859	0.000	622603	0.5000	0.4531	
1	5.063	5.063	0.000	1535638	0.5000	0.4777	
1	5.298	5.298	0.000	704295	0.5000	0.4542	

Average of Peak Amounts = 0.4608

2	4.668	4.668	0.000	681874	0.5000	0.5155	M
2	4.736	4.736	0.000	506868	0.5000	0.5139	M
2	4.808	4.808	0.000	1645217	0.5000	0.5305	M
2	5.138	5.138	0.000	928528	0.5000	0.4940	M

Average of Peak Amounts = 0.5135

RPD = 10.81

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	696856	0.0300	0.0236	
2	6.139	6.139	0.000	678439	0.0300	0.0249	

RPD = 5.12

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

Injection Date: 27-Apr-2015 10:35:05

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 4

Client ID:

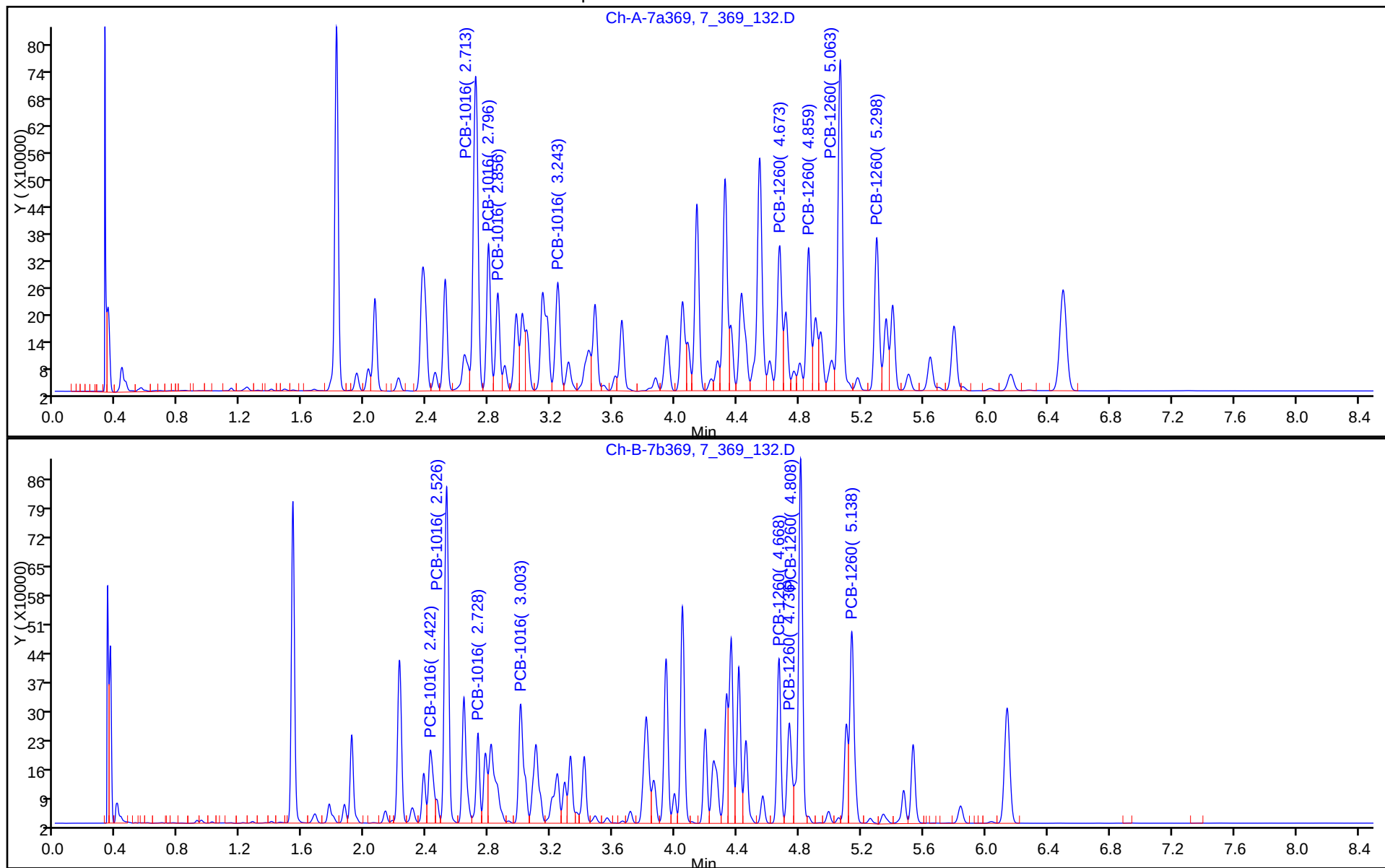
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

Injection Date: 27-Apr-2015 10:35:05

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

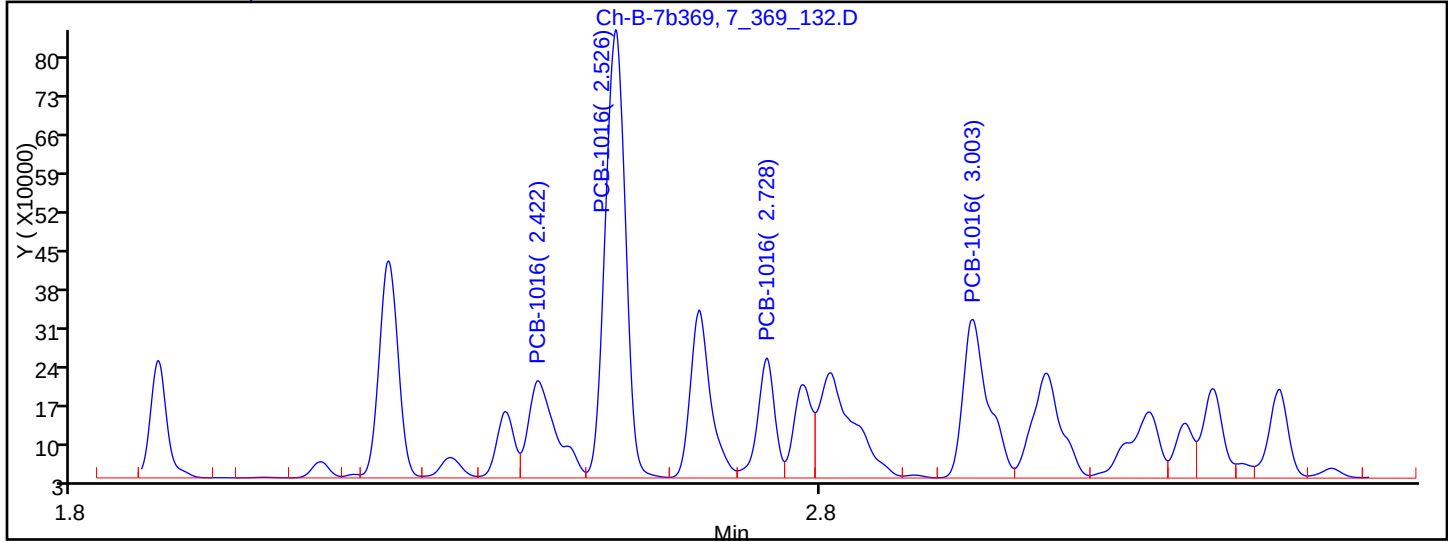
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

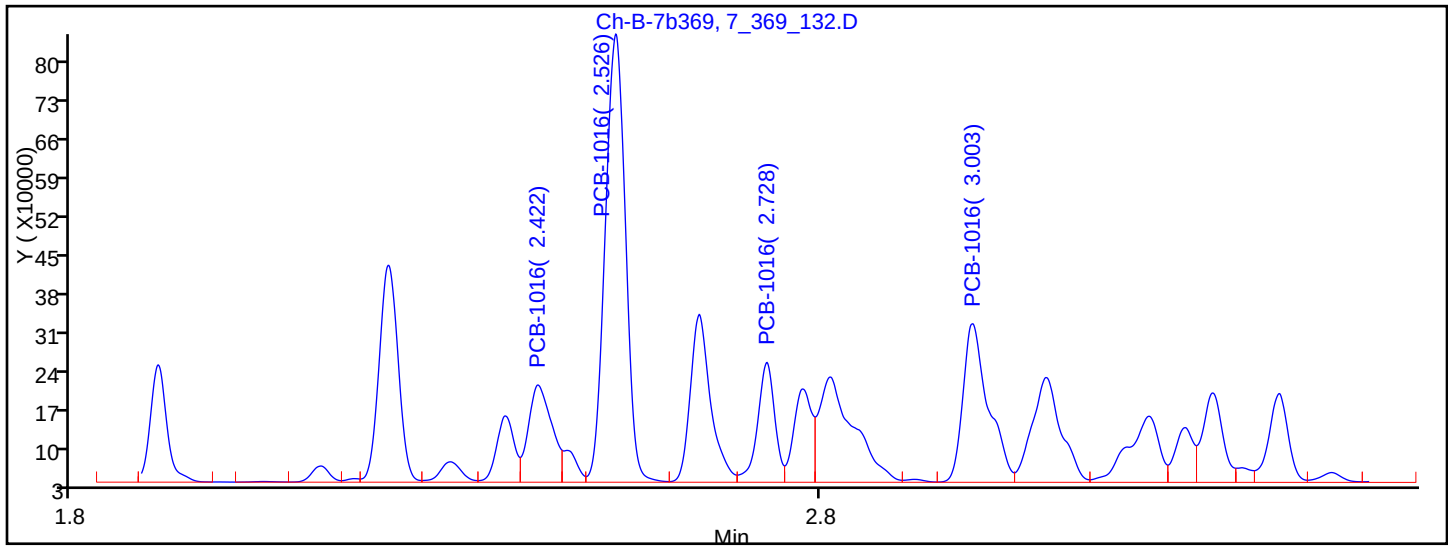
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.422	Response = 457314	M
RT = 2.526	Response = 1536602	
RT = 2.728	Response = 348255	
RT = 3.003	Response = 678253	



Manual Integration Results

RT = 2.422	Response = 381506	M
RT = 2.526	Response = 1536602	
RT = 2.728	Response = 348255	
RT = 3.003	Response = 678253	

Reviewer: sobolk, 27-Apr-2015 10:51:41

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

Injection Date: 27-Apr-2015 10:35:05

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 4

Injection Vol: 1.0 ul

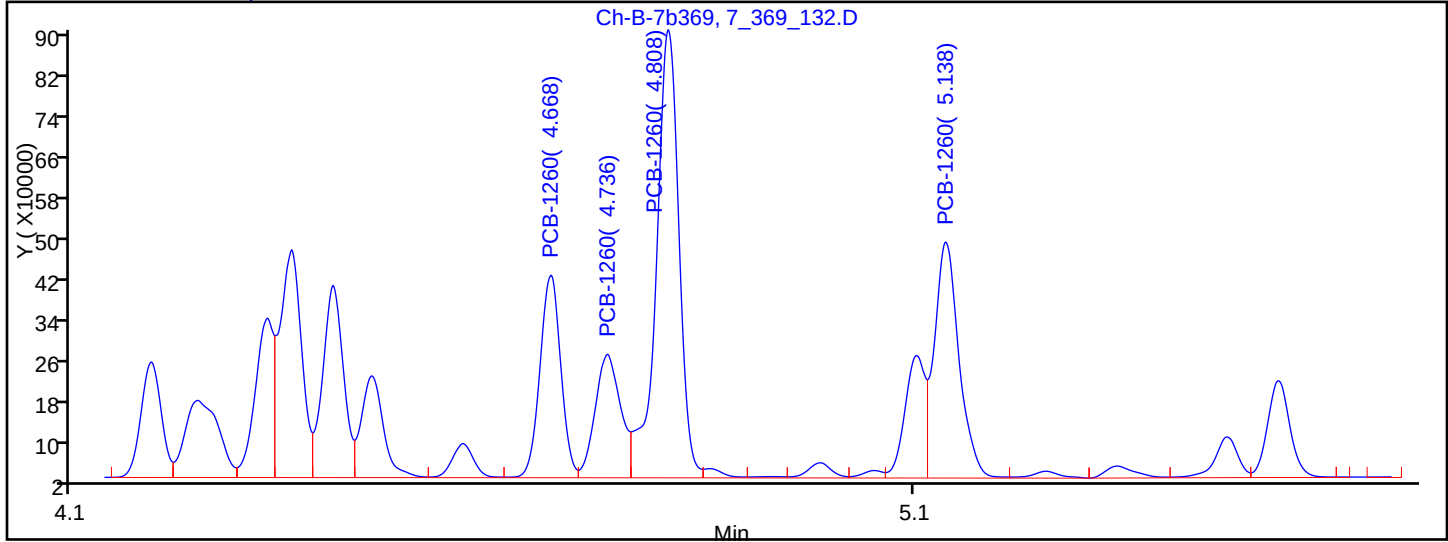
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

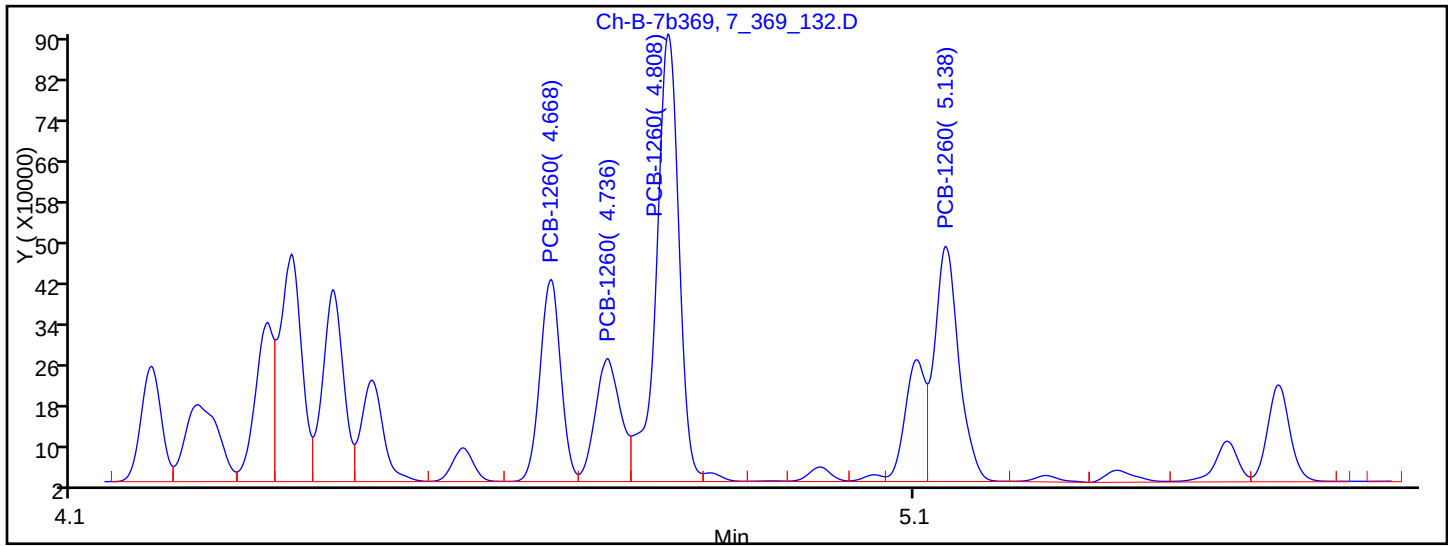
Column:

Detector Ch-B-7b136

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

Processing Integration Results

RT = 4.668	Response = 685920	M
RT = 4.736	Response = 510197	M
RT = 4.808	Response = 1650414	M
RT = 5.138	Response = 937873	M



Manual Integration Results

RT = 4.668	Response = 681874	M
RT = 4.736	Response = 506868	M
RT = 4.808	Response = 1645217	M
RT = 5.138	Response = 928528	M

Reviewer: sobolk, 27-Apr-2015 10:51:41

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/4 Calibration Date: 04/27/2015 10:35
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_132.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	39291443	36600733		0.0279	0.0300	-6.8	20.0
DCB Decachlorobiphenyl	Ave	27257777	22614633		0.0249	0.0300	-17.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/4 Calibration Date: 04/27/2015 10:35
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_132.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.54	1.51	1.57
DCB Decachlorobiphenyl	6.14	6.08	6.20

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 10:35:05 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*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 14:09:37 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 14:09:37

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

\$ 3 Tetrachloro-m-xylene

1	1.816	1.816	0.000	1302162	0.0300	0.0288	
2	1.535	1.535	0.000	1098022	0.0300	0.0279	

RPD = 2.91

6 PCB-1016

M

1	2.713	2.713	0.000	1522386	0.5000	0.4846	
1	2.796	2.796	0.000	588007	0.5000	0.4747	
1	2.856	2.856	0.000	402807	0.5000	0.4906	
1	3.243	3.243	0.000	511534	0.5000	0.4725	

Average of Peak Amounts = 0.4806

2	2.422	2.422	0.000	381506	0.5000	0.5491	M
2	2.526	2.526	0.000	1536602	0.5000	0.5881	
2	2.728	2.728	0.000	348255	0.5000	0.5231	
2	3.003	3.003	0.000	678253	0.5000	0.5606	

Average of Peak Amounts = 0.5552

RPD = 14.41

9 PCB-1260

M

1	4.673	4.673	0.000	670668	0.5000	0.4583	
1	4.859	4.859	0.000	622603	0.5000	0.4531	
1	5.063	5.063	0.000	1535638	0.5000	0.4777	
1	5.298	5.298	0.000	704295	0.5000	0.4542	

Average of Peak Amounts = 0.4608

2	4.668	4.668	0.000	681874	0.5000	0.5155	M
2	4.736	4.736	0.000	506868	0.5000	0.5139	M
2	4.808	4.808	0.000	1645217	0.5000	0.5305	M
2	5.138	5.138	0.000	928528	0.5000	0.4940	M

Average of Peak Amounts = 0.5135

RPD = 10.81

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	696856	0.0300	0.0236	
2	6.139	6.139	0.000	678439	0.0300	0.0249	

RPD = 5.12

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_132.D

Injection Date: 27-Apr-2015 10:35:05

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 4

Client ID:

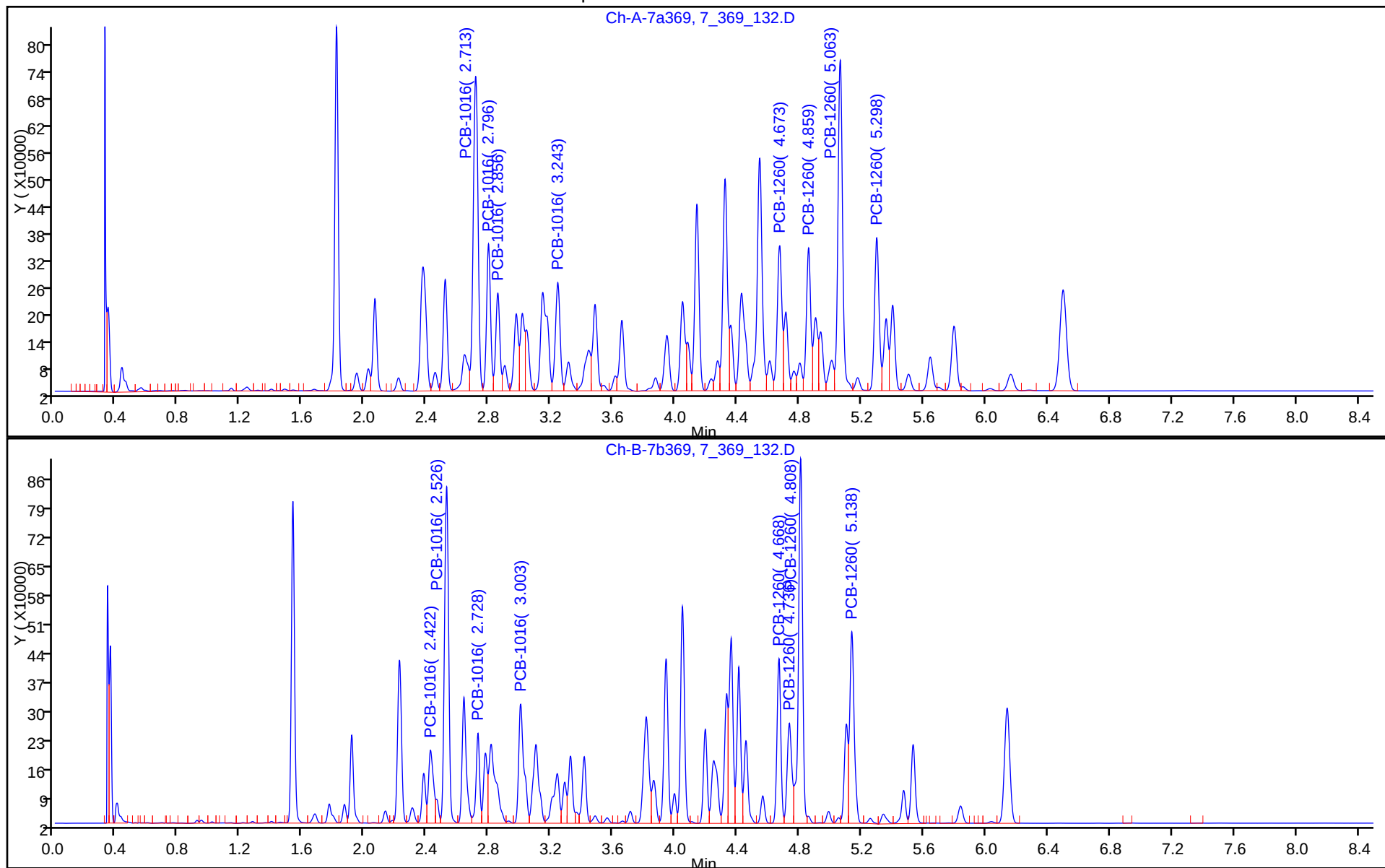
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
 SDG No.: _____
 Lab Sample ID: CCV 480-238818/16 Calibration Date: 04/27/2015 13:45
 Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
 Lab File ID: 7_369_144.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	3141540	3133332		0.499	0.500	-0.3	20.0
PCB-1016 Peak 2	Ave	1238779	1182394		0.477	0.500	-4.6	20.0
PCB-1016 Peak 3	Ave	821111	807790		0.492	0.500	-1.6	20.0
PCB-1016 Peak 4	Ave	1082633	1028008		0.475	0.500	-5.0	20.0
PCB-1260 Peak 1	Ave	1463539	1350666		0.461	0.500	-7.7	20.0
PCB-1260 Peak 2	Ave	1374177	1278986		0.465	0.500	-6.9	20.0
PCB-1260 Peak 3	Ave	3214746	3102276		0.483	0.500	-3.5	20.0
PCB-1260 Peak 4	Ave	1550459	1435724		0.463	0.500	-7.4	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/16 Calibration Date: 04/27/2015 13:45
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_144.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.71	2.68	2.74
PCB-1016 Peak 2	2.79	2.76	2.82
PCB-1016 Peak 3	2.85	2.82	2.88
PCB-1016 Peak 4	3.24	3.21	3.27
PCB-1260 Peak 1	4.67	4.64	4.70
PCB-1260 Peak 2	4.86	4.83	4.89
PCB-1260 Peak 3	5.06	5.03	5.09
PCB-1260 Peak 4	5.30	5.27	5.33

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 13:45:17 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 14:09:32 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 14:09:32

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

\$ 3 Tetrachloro-m-xylene

1	1.814	1.814	0.000	1282087	0.0300	0.0283	
2	1.533	1.533	0.000	1073255	0.0300	0.0273	

RPD = 3.64

6 PCB-1016

M

1	2.714	2.714	0.000	1566666	0.5000	0.4987	
1	2.794	2.794	0.000	591197	0.5000	0.4772	
1	2.854	2.854	0.000	403895	0.5000	0.4919	
1	3.241	3.241	0.000	514004	0.5000	0.4748	

Average of Peak Amounts = 0.4856

2	2.421	2.421	0.000	385767	0.5000	0.5552	M
2	2.525	2.525	0.000	1542815	0.5000	0.5904	
2	2.728	2.728	0.000	368287	0.5000	0.5532	
2	3.003	3.003	0.000	680671	0.5000	0.5626	

Average of Peak Amounts = 0.5654

RPD = 15.17

9 PCB-1260

1	4.673	4.673	0.000	675333	0.5000	0.4614	
1	4.858	4.858	0.000	639493	0.5000	0.4654	
1	5.063	5.063	0.000	1551138	0.5000	0.4825	
1	5.298	5.298	0.000	717862	0.5000	0.4630	

Average of Peak Amounts = 0.4681

2	4.668	4.668	0.000	700327	0.5000	0.5294	
2	4.736	4.736	0.000	523902	0.5000	0.5312	
2	4.810	4.810	0.000	1718918	0.5000	0.5542	
2	5.140	5.140	0.000	959979	0.5000	0.5108	

Average of Peak Amounts = 0.5314

RPD = 12.67

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.502	0.000	686177	0.0300	0.0233	
2	6.141	6.141	0.000	685710	0.0300	0.0252	

RPD = 7.73

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

Injection Date: 27-Apr-2015 13:45:17

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 16

Client ID:

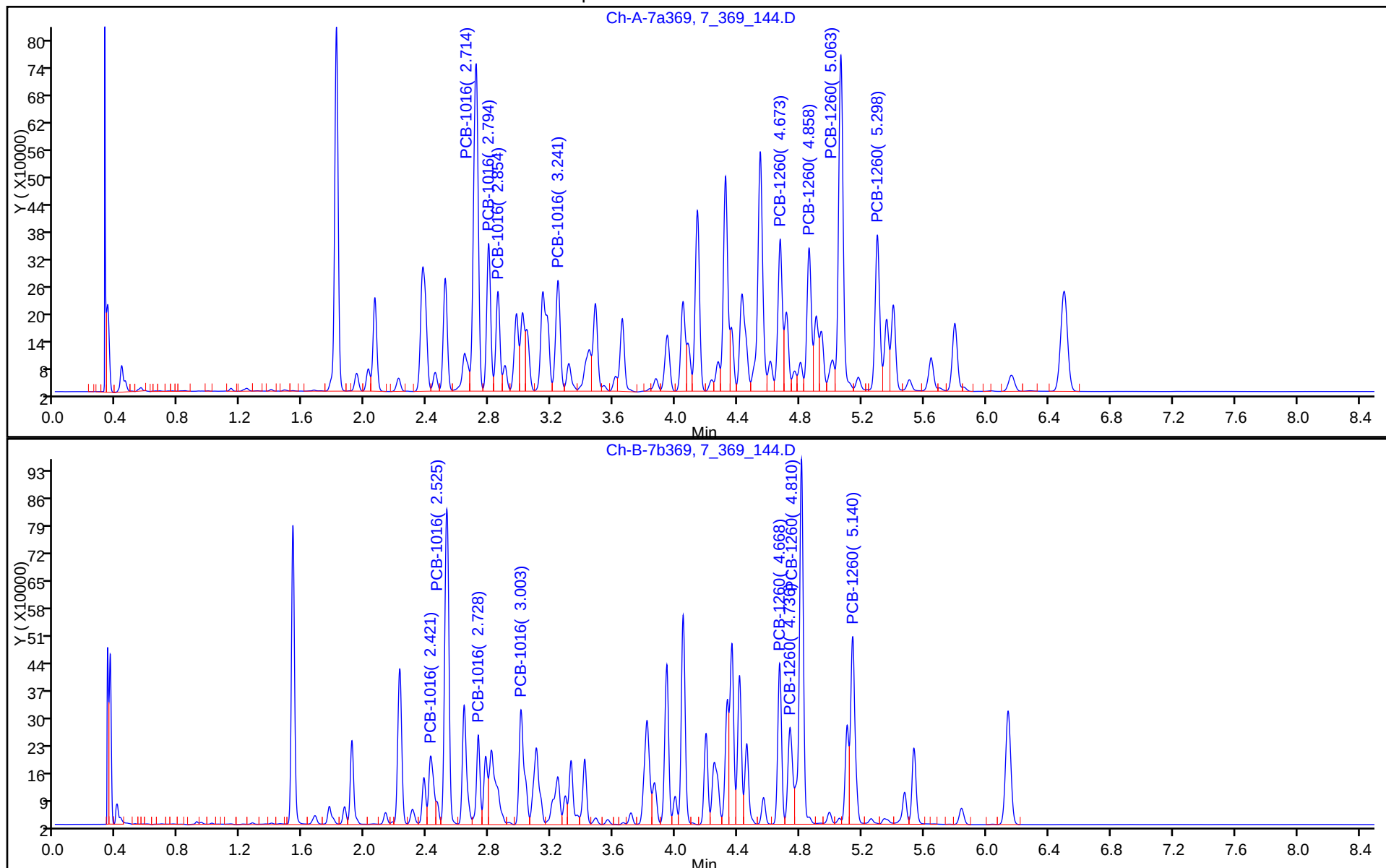
Injection Vol: 1.0 ul

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.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/16 Calibration Date: 04/27/2015 13:45
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_144.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	45258560	42736233		0.0283	0.0300	-5.6	20.0
DCB Decachlorobiphenyl	Ave	29468547	22872567		0.0233	0.0300	-22.4*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/16 Calibration Date: 04/27/2015 13:45
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_144.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.81	1.78	1.84
DCB Decachlorobiphenyl	6.50	6.44	6.56

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 13:45:17 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 14:09:32 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 14:09:32

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

\$ 3 Tetrachloro-m-xylene

1	1.814	1.814	0.000	1282087	0.0300	0.0283	
2	1.533	1.533	0.000	1073255	0.0300	0.0273	

RPD = 3.64

6 PCB-1016

M

1	2.714	2.714	0.000	1566666	0.5000	0.4987	
1	2.794	2.794	0.000	591197	0.5000	0.4772	
1	2.854	2.854	0.000	403895	0.5000	0.4919	
1	3.241	3.241	0.000	514004	0.5000	0.4748	

Average of Peak Amounts = 0.4856

2	2.421	2.421	0.000	385767	0.5000	0.5552	M
2	2.525	2.525	0.000	1542815	0.5000	0.5904	
2	2.728	2.728	0.000	368287	0.5000	0.5532	
2	3.003	3.003	0.000	680671	0.5000	0.5626	

Average of Peak Amounts = 0.5654

RPD = 15.17

9 PCB-1260

1	4.673	4.673	0.000	675333	0.5000	0.4614	
1	4.858	4.858	0.000	639493	0.5000	0.4654	
1	5.063	5.063	0.000	1551138	0.5000	0.4825	
1	5.298	5.298	0.000	717862	0.5000	0.4630	

Average of Peak Amounts = 0.4681

2	4.668	4.668	0.000	700327	0.5000	0.5294	
2	4.736	4.736	0.000	523902	0.5000	0.5312	
2	4.810	4.810	0.000	1718918	0.5000	0.5542	
2	5.140	5.140	0.000	959979	0.5000	0.5108	

Average of Peak Amounts = 0.5314

RPD = 12.67

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.502	0.000	686177	0.0300	0.0233	
2	6.141	6.141	0.000	685710	0.0300	0.0252	

RPD = 7.73

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

Injection Date: 27-Apr-2015 13:45:17

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 16

Client ID:

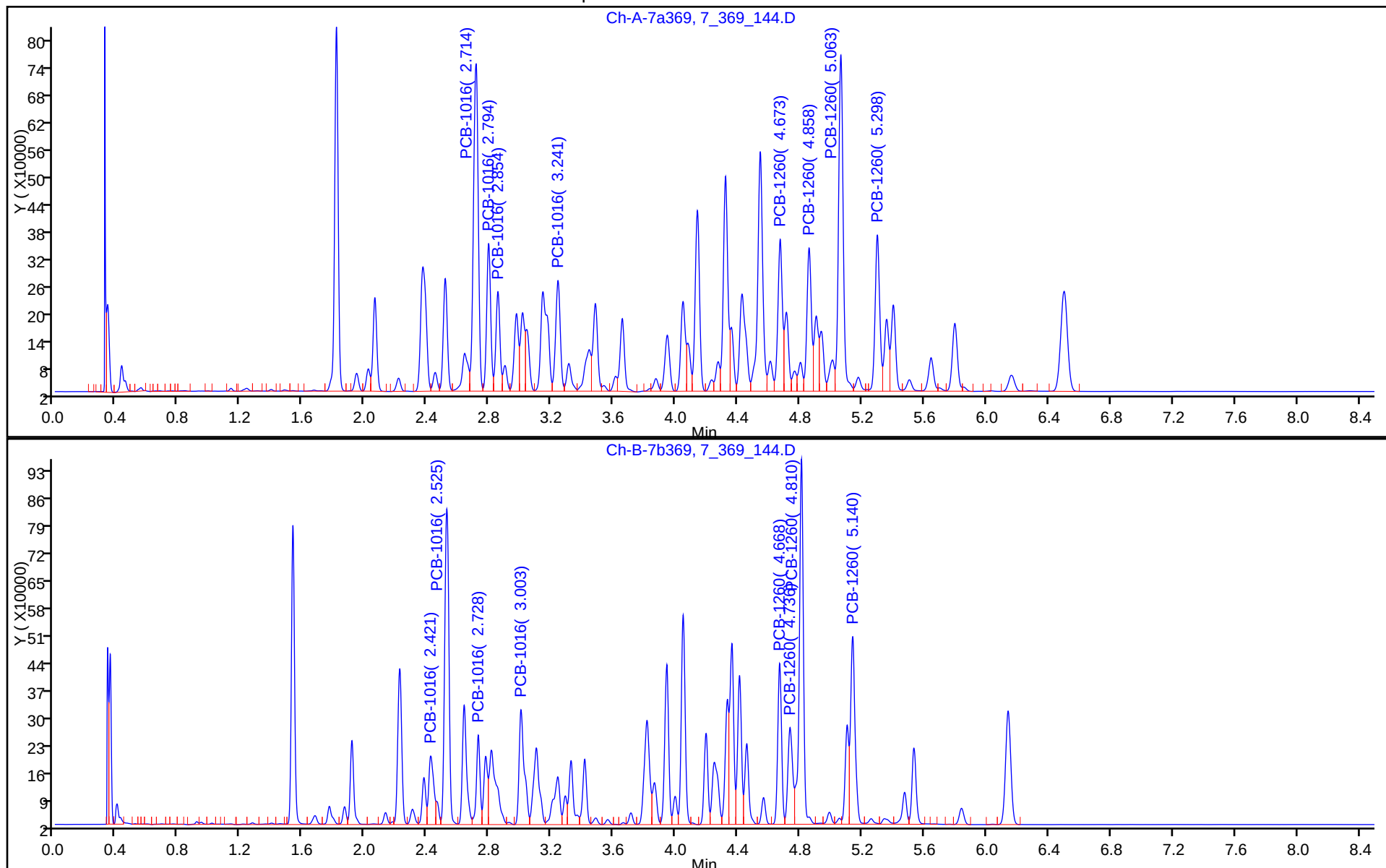
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Lab Sample ID: CCV 480-238818/16 Calibration Date: 04/27/2015 13:45
 Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
 Lab File ID: 7_369_144.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	694781	771534		0.555	0.500	11.0	20.0
PCB-1016 Peak 2	Ave	2612999	3085630		0.590	0.500	18.1	20.0
PCB-1016 Peak 3	Ave	665710	736574		0.553	0.500	10.6	20.0
PCB-1016 Peak 4	Ave	1209959	1361342		0.563	0.500	12.5	20.0
PCB-1260 Peak 1	Ave	1322768	1400654		0.529	0.500	5.9	20.0
PCB-1260 Peak 2	Ave	986283	1047804		0.531	0.500	6.2	20.0
PCB-1260 Peak 3	Ave	3101425	3437836		0.554	0.500	10.8	20.0
PCB-1260 Peak 4	Ave	1879432	1919958		0.511	0.500	2.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/16 Calibration Date: 04/27/2015 13:45
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_144.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.42	2.39	2.45
PCB-1016 Peak 2	2.53	2.50	2.56
PCB-1016 Peak 3	2.73	2.70	2.76
PCB-1016 Peak 4	3.00	2.97	3.03
PCB-1260 Peak 1	4.67	4.64	4.70
PCB-1260 Peak 2	4.74	4.71	4.77
PCB-1260 Peak 3	4.81	4.78	4.84
PCB-1260 Peak 4	5.14	5.11	5.17

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 13:45:17 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 14:09:32 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 14:09:32

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

\$ 3 Tetrachloro-m-xylene

1	1.814	1.814	0.000	1282087	0.0300	0.0283	
2	1.533	1.533	0.000	1073255	0.0300	0.0273	

RPD = 3.64

6 PCB-1016

M

1	2.714	2.714	0.000	1566666	0.5000	0.4987	
1	2.794	2.794	0.000	591197	0.5000	0.4772	
1	2.854	2.854	0.000	403895	0.5000	0.4919	
1	3.241	3.241	0.000	514004	0.5000	0.4748	

Average of Peak Amounts = 0.4856

2	2.421	2.421	0.000	385767	0.5000	0.5552	M
2	2.525	2.525	0.000	1542815	0.5000	0.5904	
2	2.728	2.728	0.000	368287	0.5000	0.5532	
2	3.003	3.003	0.000	680671	0.5000	0.5626	

Average of Peak Amounts = 0.5654

RPD = 15.17

9 PCB-1260

1	4.673	4.673	0.000	675333	0.5000	0.4614	
1	4.858	4.858	0.000	639493	0.5000	0.4654	
1	5.063	5.063	0.000	1551138	0.5000	0.4825	
1	5.298	5.298	0.000	717862	0.5000	0.4630	

Average of Peak Amounts = 0.4681

2	4.668	4.668	0.000	700327	0.5000	0.5294	
2	4.736	4.736	0.000	523902	0.5000	0.5312	
2	4.810	4.810	0.000	1718918	0.5000	0.5542	
2	5.140	5.140	0.000	959979	0.5000	0.5108	

Average of Peak Amounts = 0.5314

RPD = 12.67

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.502	0.000	686177	0.0300	0.0233	
2	6.141	6.141	0.000	685710	0.0300	0.0252	

RPD = 7.73

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

Injection Date: 27-Apr-2015 13:45:17

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 16

Client ID:

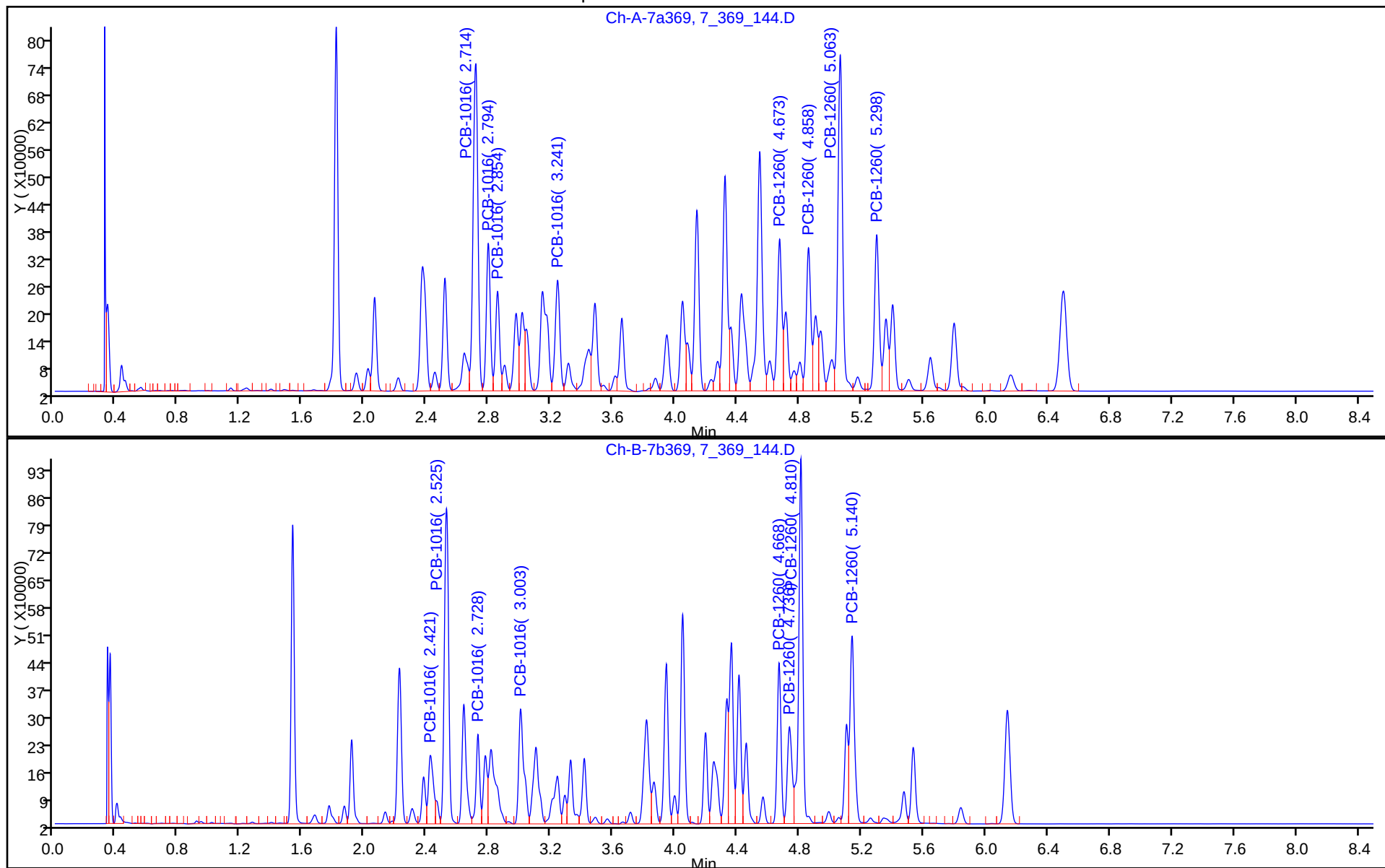
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

Injection Date: 27-Apr-2015 13:45:17

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 16

Injection Vol: 1.0 ul

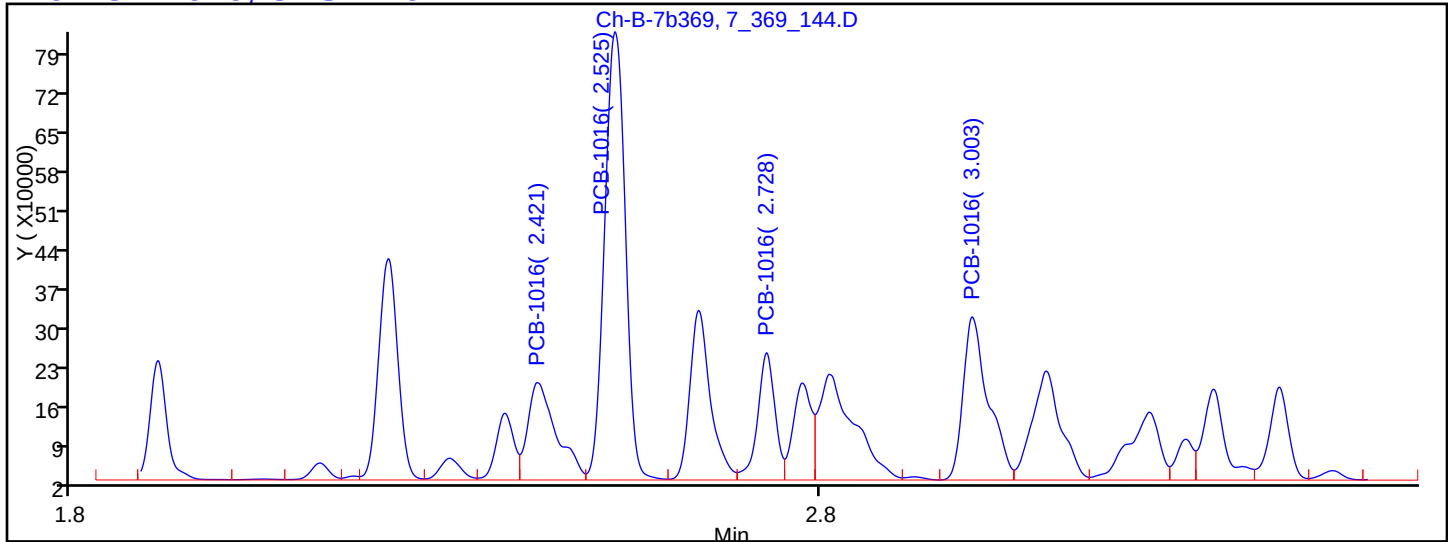
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

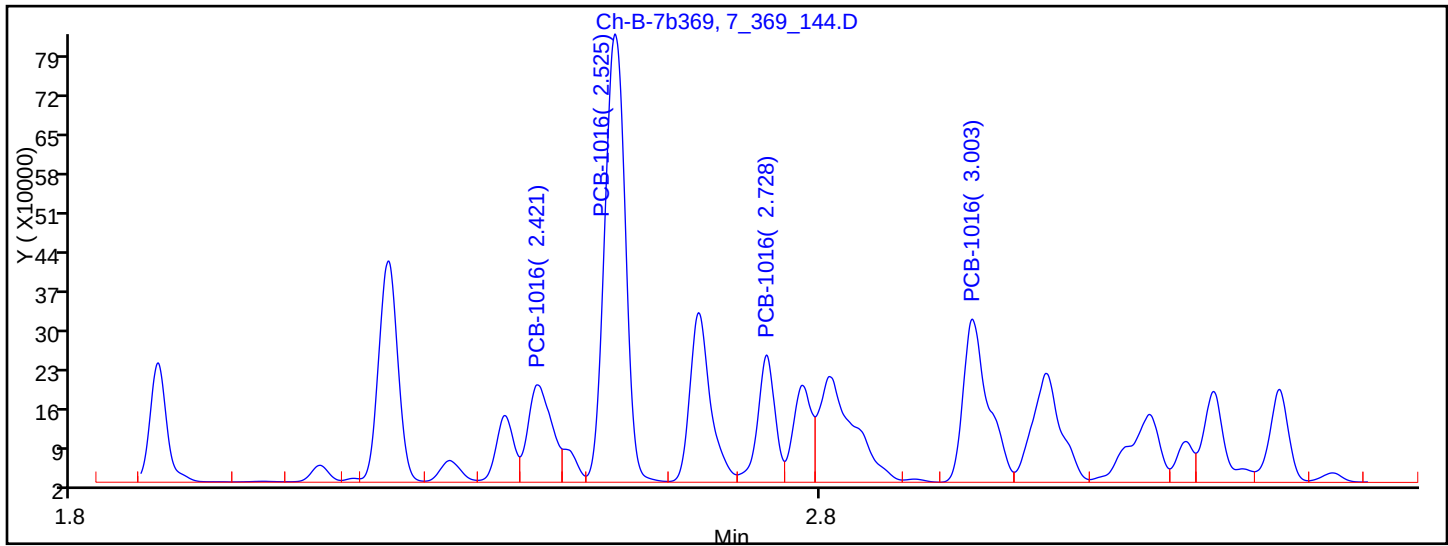
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.421	Response = 462508	M
RT = 2.525	Response = 1542815	
RT = 2.728	Response = 368287	
RT = 3.003	Response = 680671	



Manual Integration Results

RT = 2.421	Response = 385767	M
RT = 2.525	Response = 1542815	
RT = 2.728	Response = 368287	
RT = 3.003	Response = 680671	

Reviewer: sobolk, 27-Apr-2015 14:09:32

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/16 Calibration Date: 04/27/2015 13:45
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_144.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	39291443	35775167		0.0273	0.0300	-8.9	20.0
DCB Decachlorobiphenyl	Ave	27257777	22857000		0.0252	0.0300	-16.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/16 Calibration Date: 04/27/2015 13:45
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_144.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.53	1.50	1.56
DCB Decachlorobiphenyl	6.14	6.08	6.20

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 13:45:17 ALS Bottle#: 0 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 14:09:32 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 14:09:32

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

\$ 3 Tetrachloro-m-xylene

1	1.814	1.814	0.000	1282087	0.0300	0.0283	
2	1.533	1.533	0.000	1073255	0.0300	0.0273	

RPD = 3.64

6 PCB-1016

M

1	2.714	2.714	0.000	1566666	0.5000	0.4987	
1	2.794	2.794	0.000	591197	0.5000	0.4772	
1	2.854	2.854	0.000	403895	0.5000	0.4919	
1	3.241	3.241	0.000	514004	0.5000	0.4748	

Average of Peak Amounts = 0.4856

2	2.421	2.421	0.000	385767	0.5000	0.5552	M
2	2.525	2.525	0.000	1542815	0.5000	0.5904	
2	2.728	2.728	0.000	368287	0.5000	0.5532	
2	3.003	3.003	0.000	680671	0.5000	0.5626	

Average of Peak Amounts = 0.5654

RPD = 15.17

9 PCB-1260

1	4.673	4.673	0.000	675333	0.5000	0.4614	
1	4.858	4.858	0.000	639493	0.5000	0.4654	
1	5.063	5.063	0.000	1551138	0.5000	0.4825	
1	5.298	5.298	0.000	717862	0.5000	0.4630	

Average of Peak Amounts = 0.4681

2	4.668	4.668	0.000	700327	0.5000	0.5294	
2	4.736	4.736	0.000	523902	0.5000	0.5312	
2	4.810	4.810	0.000	1718918	0.5000	0.5542	
2	5.140	5.140	0.000	959979	0.5000	0.5108	

Average of Peak Amounts = 0.5314

RPD = 12.67

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.502	0.000	686177	0.0300	0.0233	
2	6.141	6.141	0.000	685710	0.0300	0.0252	

RPD = 7.73

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_144.D

Injection Date: 27-Apr-2015 13:45:17

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 16

Client ID:

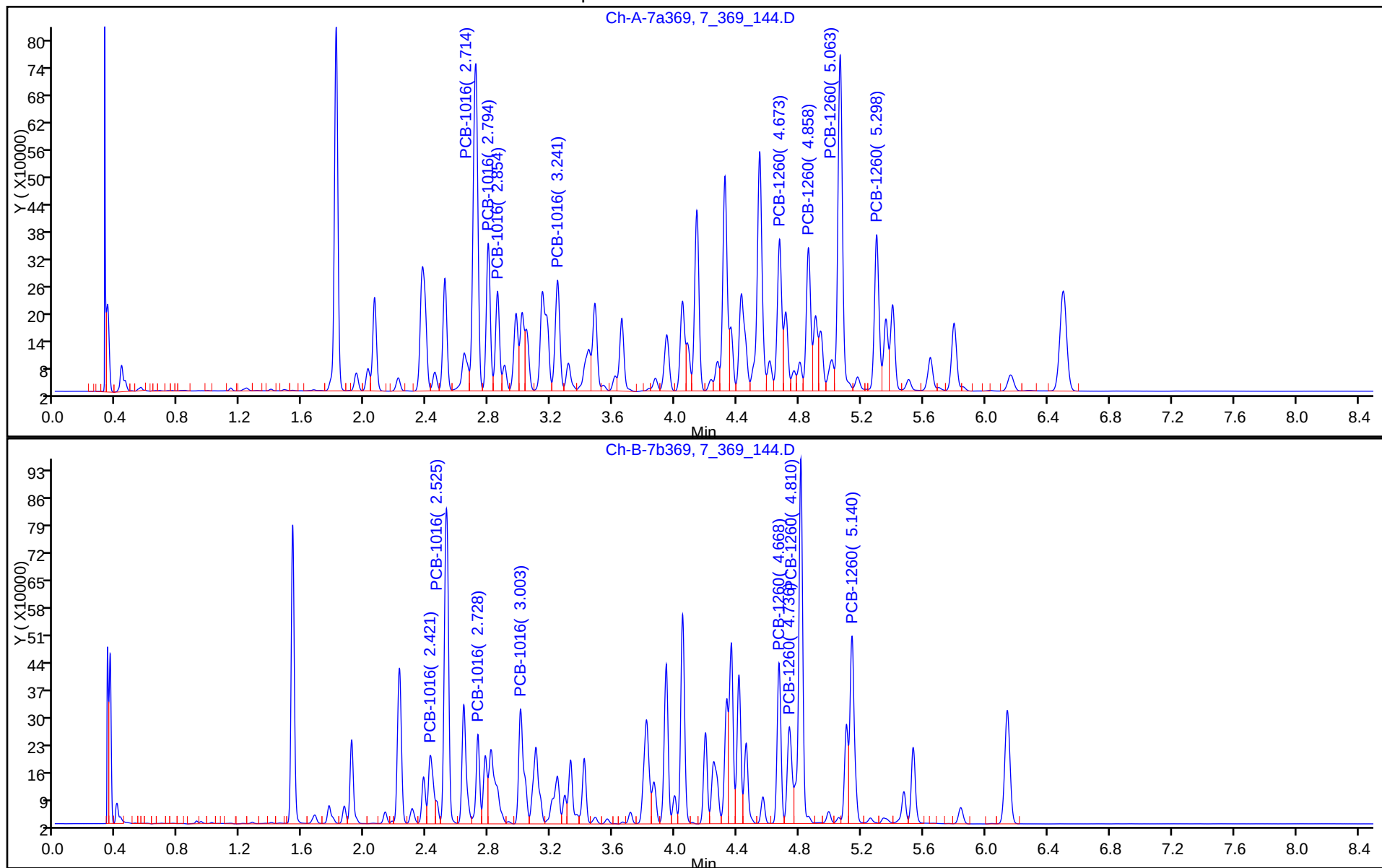
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Lab Sample ID: CCV 480-238818/28 Calibration Date: 04/27/2015 16:55
 Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
 Lab File ID: 7_369_156.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	3141540	3032696		0.483	0.500	-3.5	20.0
PCB-1016 Peak 2	Ave	1238779	1141810		0.461	0.500	-7.8	20.0
PCB-1016 Peak 3	Ave	821111	781198		0.476	0.500	-4.9	20.0
PCB-1016 Peak 4	Ave	1082633	996510		0.460	0.500	-8.0	20.0
PCB-1260 Peak 1	Ave	1463539	1314896		0.449	0.500	-10.2	20.0
PCB-1260 Peak 2	Ave	1374177	1230238		0.448	0.500	-10.5	20.0
PCB-1260 Peak 3	Ave	3214746	3030600		0.471	0.500	-5.7	20.0
PCB-1260 Peak 4	Ave	1550459	1403046		0.452	0.500	-9.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/28 Calibration Date: 04/27/2015 16:55
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_156.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.71	2.68	2.74
PCB-1016 Peak 2	2.80	2.77	2.83
PCB-1016 Peak 3	2.86	2.83	2.89
PCB-1016 Peak 4	3.24	3.21	3.27
PCB-1260 Peak 1	4.67	4.64	4.70
PCB-1260 Peak 2	4.86	4.83	4.89
PCB-1260 Peak 3	5.06	5.03	5.09
PCB-1260 Peak 4	5.30	5.27	5.33

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 16:55:36 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 17:10:34 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:10:34

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	1235293	0.0300	0.0273	
2	1.534	1.534	0.000	1030787	0.0300	0.0262	

RPD = 3.96

6 PCB-1016

M

1	2.713	2.713	0.000	1516348	0.5000	0.4827	
1	2.796	2.796	0.000	570905	0.5000	0.4609	
1	2.855	2.855	0.000	390599	0.5000	0.4757	
1	3.243	3.243	0.000	498255	0.5000	0.4602	

Average of Peak Amounts = 0.4699

2	2.421	2.421	0.000	380359	0.5000	0.5475	M
2	2.525	2.525	0.000	1497870	0.5000	0.5732	
2	2.728	2.728	0.000	356485	0.5000	0.5355	
2	3.003	3.003	0.000	662692	0.5000	0.5477	

Average of Peak Amounts = 0.5510

RPD = 15.89

9 PCB-1260

M

1	4.673	4.673	0.000	657448	0.5000	0.4492	
1	4.858	4.858	0.000	615119	0.5000	0.4476	
1	5.064	5.064	0.000	1515300	0.5000	0.4714	
1	5.299	5.299	0.000	701523	0.5000	0.4525	

Average of Peak Amounts = 0.4552

2	4.668	4.668	0.000	704240	0.5000	0.5324	M
2	4.737	4.737	0.000	519835	0.5000	0.5271	M
2	4.809	4.809	0.000	1702106	0.5000	0.5488	M
2	5.138	5.138	0.000	989344	0.5000	0.5264	M

Average of Peak Amounts = 0.5337

RPD = 15.88

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.503	6.503	0.000	657450	0.0300	0.0223	
2	6.141	6.141	0.000	693774	0.0300	0.0255	

RPD = 13.16

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAIlg6\\Buffalo\\ChromData\\HP6890-07\\20150427-41749.b\\7_369_156.D

Injection Date: 27-Apr-2015 16:55:36

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 28

Client ID:

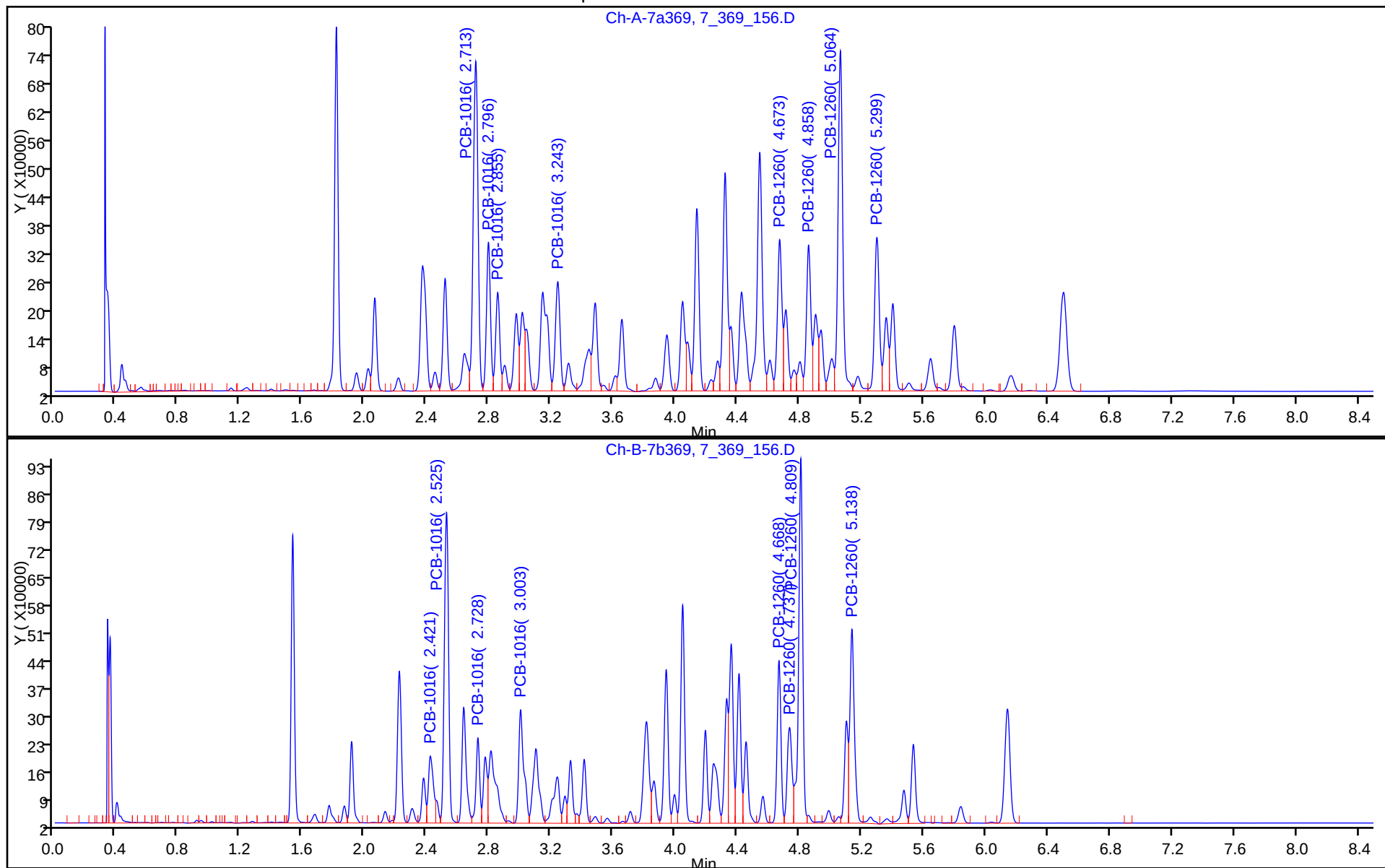
Injection Vol: 1.0 ul

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.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/28 Calibration Date: 04/27/2015 16:55
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_156.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	45258560	41176433		0.0273	0.0300	-9.0	20.0
DCB Decachlorobiphenyl	Ave	29468547	21915000		0.0223	0.0300	-25.6*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/28 Calibration Date: 04/27/2015 16:55
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_156.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.82	1.79	1.85
DCB Decachlorobiphenyl	6.50	6.44	6.56

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 16:55:36 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 17:10:34 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:10:34

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	1235293	0.0300	0.0273	
2	1.534	1.534	0.000	1030787	0.0300	0.0262	

RPD = 3.96

6 PCB-1016

M

1	2.713	2.713	0.000	1516348	0.5000	0.4827	
1	2.796	2.796	0.000	570905	0.5000	0.4609	
1	2.855	2.855	0.000	390599	0.5000	0.4757	
1	3.243	3.243	0.000	498255	0.5000	0.4602	

Average of Peak Amounts = 0.4699

2	2.421	2.421	0.000	380359	0.5000	0.5475	M
2	2.525	2.525	0.000	1497870	0.5000	0.5732	
2	2.728	2.728	0.000	356485	0.5000	0.5355	
2	3.003	3.003	0.000	662692	0.5000	0.5477	

Average of Peak Amounts = 0.5510

RPD = 15.89

9 PCB-1260

M

1	4.673	4.673	0.000	657448	0.5000	0.4492	
1	4.858	4.858	0.000	615119	0.5000	0.4476	
1	5.064	5.064	0.000	1515300	0.5000	0.4714	
1	5.299	5.299	0.000	701523	0.5000	0.4525	

Average of Peak Amounts = 0.4552

2	4.668	4.668	0.000	704240	0.5000	0.5324	M
2	4.737	4.737	0.000	519835	0.5000	0.5271	M
2	4.809	4.809	0.000	1702106	0.5000	0.5488	M
2	5.138	5.138	0.000	989344	0.5000	0.5264	M

Average of Peak Amounts = 0.5337

RPD = 15.88

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.503	6.503	0.000	657450	0.0300	0.0223	
2	6.141	6.141	0.000	693774	0.0300	0.0255	

RPD = 13.16

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

Injection Date: 27-Apr-2015 16:55:36

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 28

Client ID:

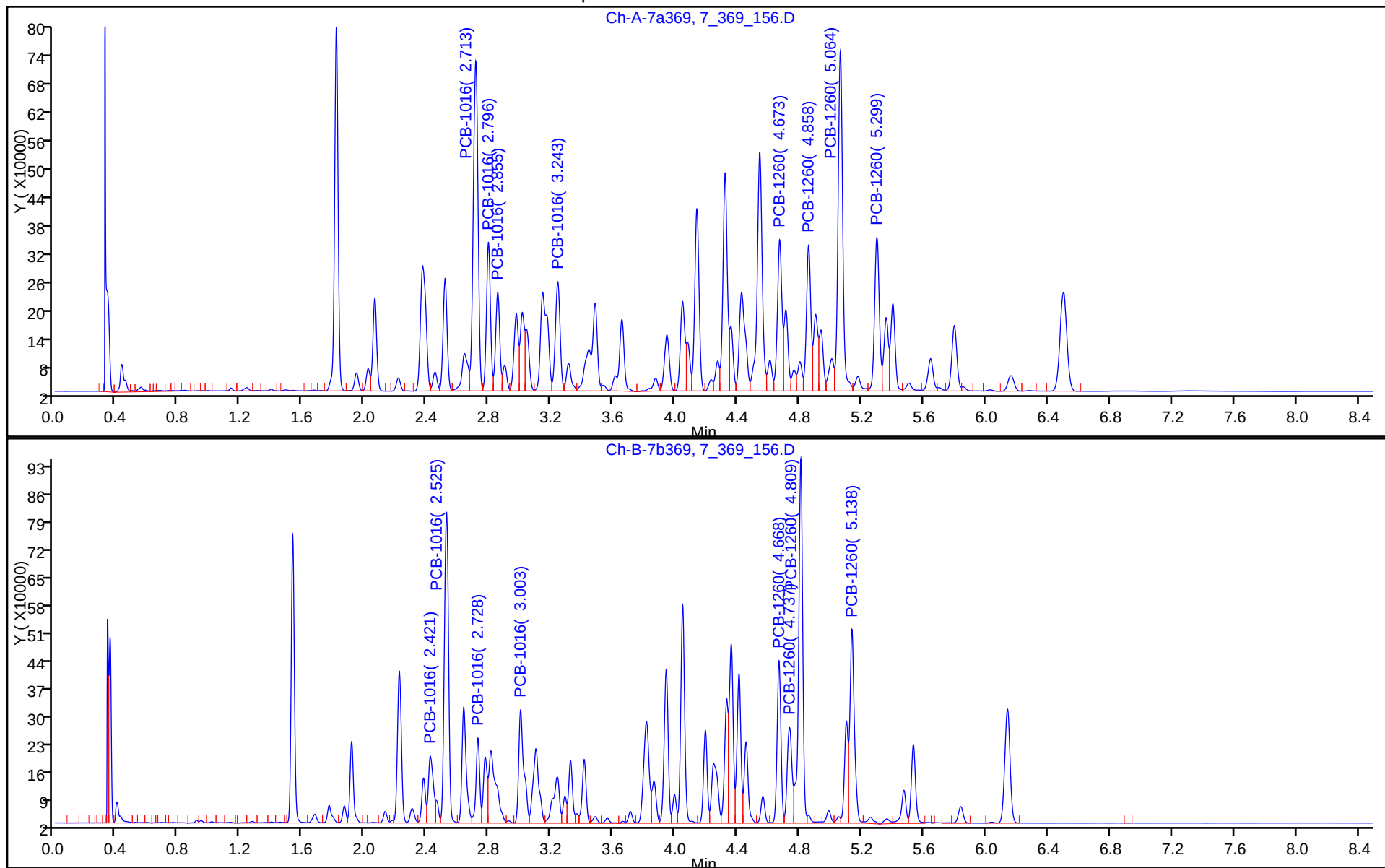
Injection Vol: 1.0 ul

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.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/28 Calibration Date: 04/27/2015 16:55
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_156.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	694781	760718		0.547	0.500	9.5	20.0
PCB-1016 Peak 2	Ave	2612999	2995740		0.573	0.500	14.6	20.0
PCB-1016 Peak 3	Ave	665710	712970		0.535	0.500	7.1	20.0
PCB-1016 Peak 4	Ave	1209959	1325384		0.548	0.500	9.5	20.0
PCB-1260 Peak 1	Ave	1322768	1408480		0.532	0.500	6.5	20.0
PCB-1260 Peak 2	Ave	986283	1039670		0.527	0.500	5.4	20.0
PCB-1260 Peak 3	Ave	3101425	3404212		0.549	0.500	9.8	20.0
PCB-1260 Peak 4	Ave	1879432	1978688		0.526	0.500	5.3	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/28 Calibration Date: 04/27/2015 16:55
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_156.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.42	2.39	2.45
PCB-1016 Peak 2	2.53	2.50	2.56
PCB-1016 Peak 3	2.73	2.70	2.76
PCB-1016 Peak 4	3.00	2.97	3.03
PCB-1260 Peak 1	4.67	4.64	4.70
PCB-1260 Peak 2	4.74	4.71	4.77
PCB-1260 Peak 3	4.81	4.78	4.84
PCB-1260 Peak 4	5.14	5.11	5.17

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 16:55:36 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 17:10:34 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:10:34

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	1235293	0.0300	0.0273	
2	1.534	1.534	0.000	1030787	0.0300	0.0262	

RPD = 3.96

6 PCB-1016

M

1	2.713	2.713	0.000	1516348	0.5000	0.4827	
1	2.796	2.796	0.000	570905	0.5000	0.4609	
1	2.855	2.855	0.000	390599	0.5000	0.4757	
1	3.243	3.243	0.000	498255	0.5000	0.4602	

Average of Peak Amounts = 0.4699

2	2.421	2.421	0.000	380359	0.5000	0.5475	M
2	2.525	2.525	0.000	1497870	0.5000	0.5732	
2	2.728	2.728	0.000	356485	0.5000	0.5355	
2	3.003	3.003	0.000	662692	0.5000	0.5477	

Average of Peak Amounts = 0.5510

RPD = 15.89

9 PCB-1260

M

1	4.673	4.673	0.000	657448	0.5000	0.4492	
1	4.858	4.858	0.000	615119	0.5000	0.4476	
1	5.064	5.064	0.000	1515300	0.5000	0.4714	
1	5.299	5.299	0.000	701523	0.5000	0.4525	

Average of Peak Amounts = 0.4552

2	4.668	4.668	0.000	704240	0.5000	0.5324	M
2	4.737	4.737	0.000	519835	0.5000	0.5271	M
2	4.809	4.809	0.000	1702106	0.5000	0.5488	M
2	5.138	5.138	0.000	989344	0.5000	0.5264	M

Average of Peak Amounts = 0.5337

RPD = 15.88

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.503	6.503	0.000	657450	0.0300	0.0223	
2	6.141	6.141	0.000	693774	0.0300	0.0255	

RPD = 13.16

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

Injection Date: 27-Apr-2015 16:55:36

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 28

Client ID:

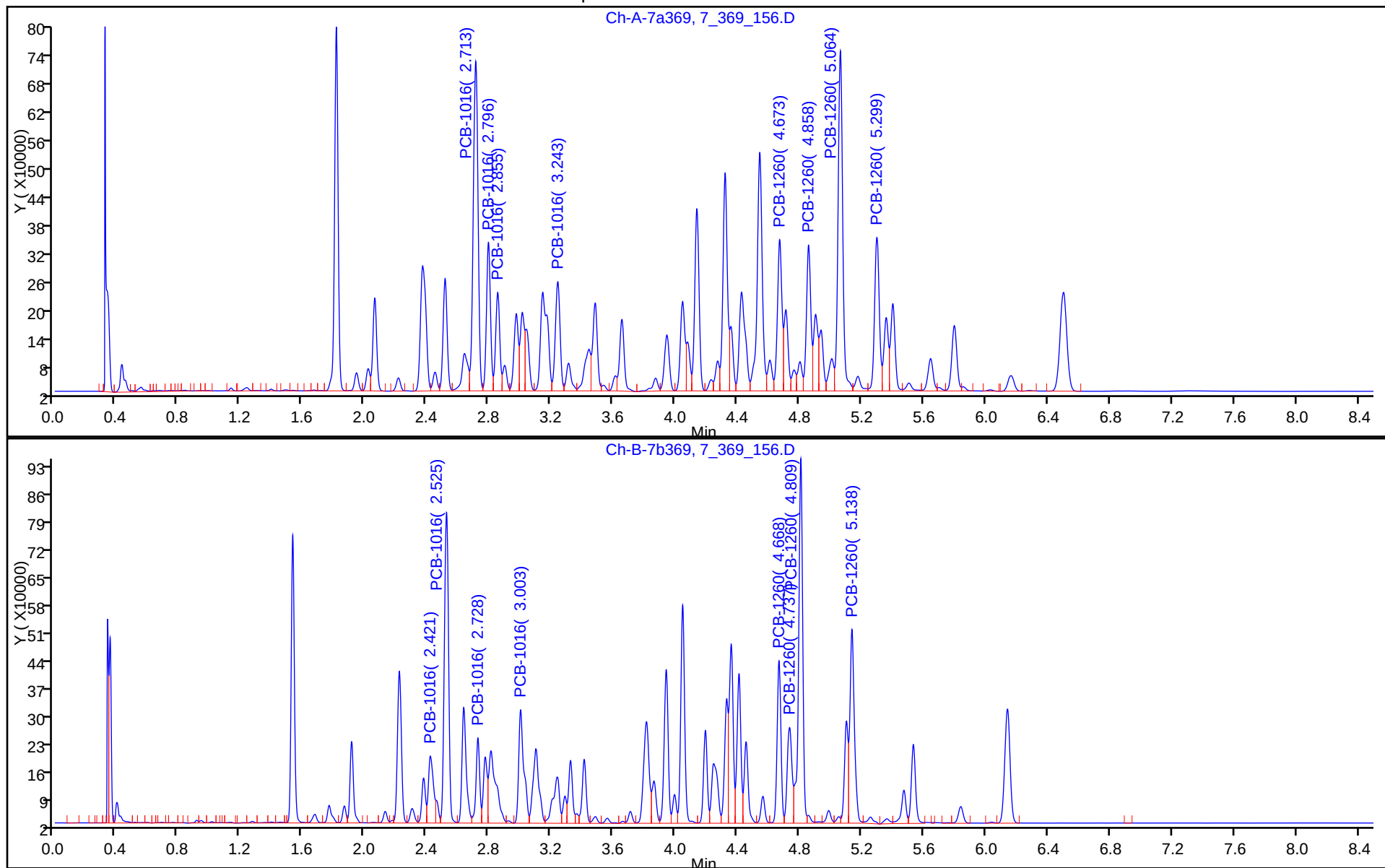
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

Injection Date: 27-Apr-2015 16:55:36

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 28

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

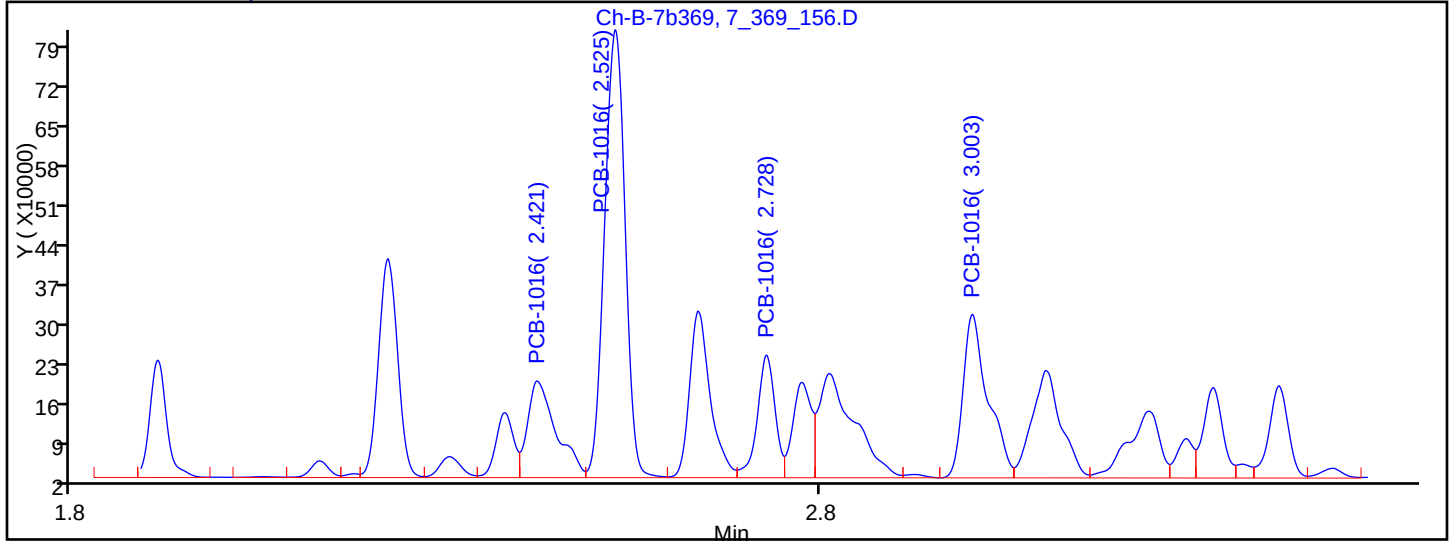
Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

Column:

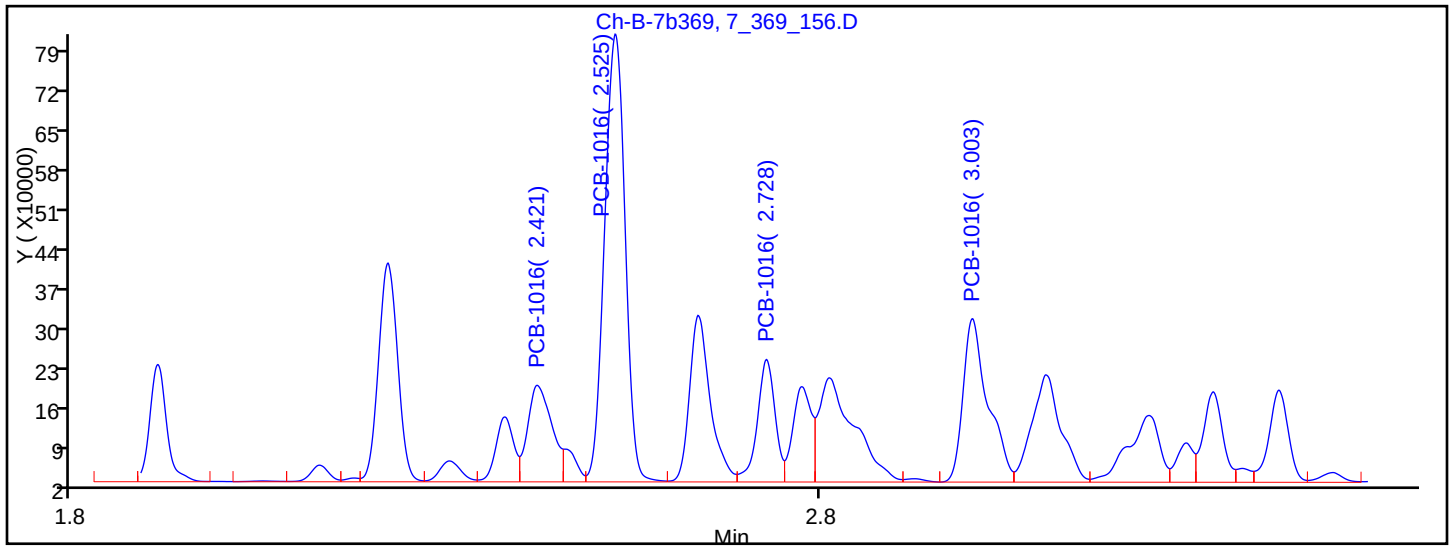
Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2



Processing Integration Results

RT = 2.421	Response = 448546	M
RT = 2.525	Response = 1497870	
RT = 2.728	Response = 356485	
RT = 3.003	Response = 662692	



Manual Integration Results

RT = 2.421	Response = 380359	M
RT = 2.525	Response = 1497870	
RT = 2.728	Response = 356485	
RT = 3.003	Response = 662692	

Reviewer: sobolk, 27-Apr-2015 17:10:34

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

Injection Date: 27-Apr-2015 16:55:36

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 28

Injection Vol: 1.0 ul

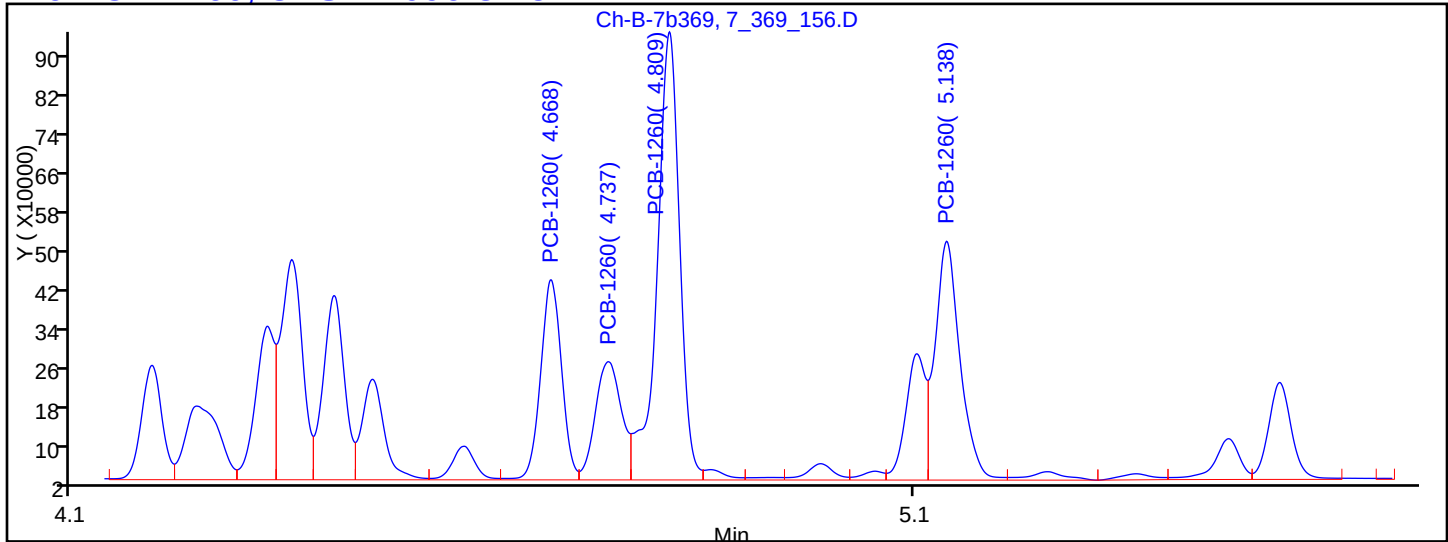
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

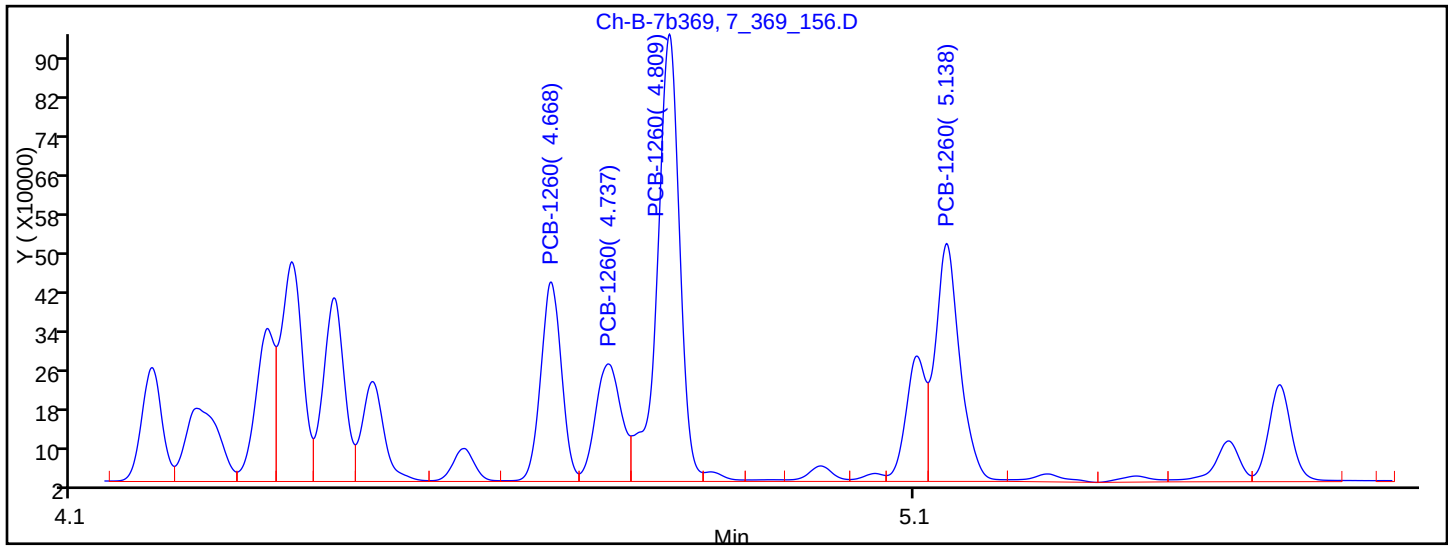
Column:

Detector Ch-B-7b136

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

Processing Integration Results

RT = 4.668	Response = 711912	M
RT = 4.737	Response = 525215	M
RT = 4.809	Response = 1710004	M
RT = 5.138	Response = 1000197	M



Manual Integration Results

RT = 4.668	Response = 704240	M
RT = 4.737	Response = 519835	M
RT = 4.809	Response = 1702106	M
RT = 5.138	Response = 989344	M

Reviewer: sobolk, 27-Apr-2015 17:10:34

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/28 Calibration Date: 04/27/2015 16:55
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_156.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	39291443	34359567		0.0262	0.0300	-12.6	20.0
DCB Decachlorobiphenyl	Ave	27257777	23125800		0.0255	0.0300	-15.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/28 Calibration Date: 04/27/2015 16:55
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_156.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.53	1.50	1.56
DCB Decachlorobiphenyl	6.14	6.08	6.20

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 16:55:36 ALS Bottle#: 0 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 17:10:34 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:10:34

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	1235293	0.0300	0.0273	
2	1.534	1.534	0.000	1030787	0.0300	0.0262	

RPD = 3.96

6 PCB-1016

M

1	2.713	2.713	0.000	1516348	0.5000	0.4827	
1	2.796	2.796	0.000	570905	0.5000	0.4609	
1	2.855	2.855	0.000	390599	0.5000	0.4757	
1	3.243	3.243	0.000	498255	0.5000	0.4602	

Average of Peak Amounts = 0.4699

2	2.421	2.421	0.000	380359	0.5000	0.5475	M
2	2.525	2.525	0.000	1497870	0.5000	0.5732	
2	2.728	2.728	0.000	356485	0.5000	0.5355	
2	3.003	3.003	0.000	662692	0.5000	0.5477	

Average of Peak Amounts = 0.5510

RPD = 15.89

9 PCB-1260

M

1	4.673	4.673	0.000	657448	0.5000	0.4492	
1	4.858	4.858	0.000	615119	0.5000	0.4476	
1	5.064	5.064	0.000	1515300	0.5000	0.4714	
1	5.299	5.299	0.000	701523	0.5000	0.4525	

Average of Peak Amounts = 0.4552

2	4.668	4.668	0.000	704240	0.5000	0.5324	M
2	4.737	4.737	0.000	519835	0.5000	0.5271	M
2	4.809	4.809	0.000	1702106	0.5000	0.5488	M
2	5.138	5.138	0.000	989344	0.5000	0.5264	M

Average of Peak Amounts = 0.5337

RPD = 15.88

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.503	6.503	0.000	657450	0.0300	0.0223	
2	6.141	6.141	0.000	693774	0.0300	0.0255	

RPD = 13.16

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_156.D

Injection Date: 27-Apr-2015 16:55:36

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 28

Client ID:

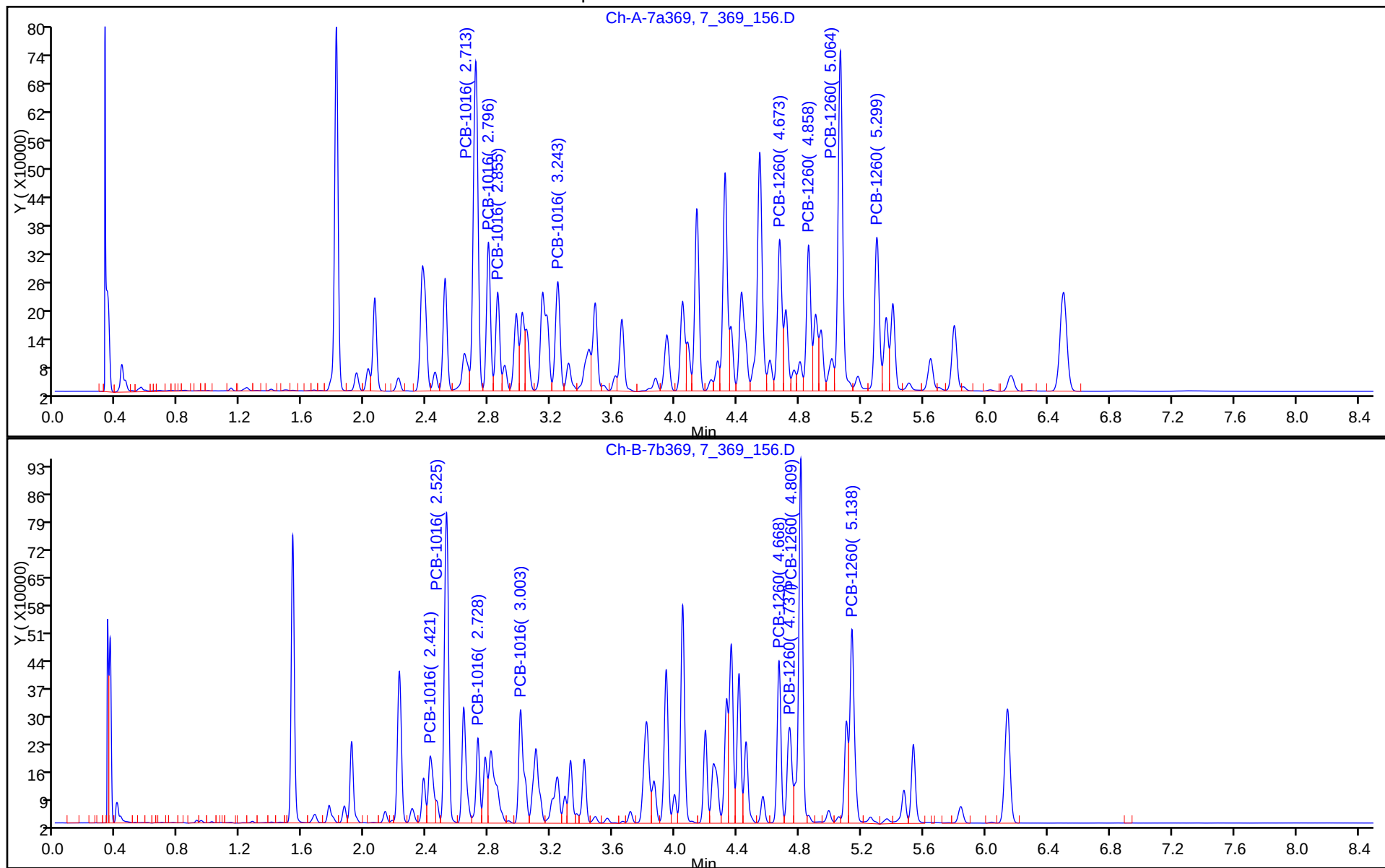
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Lab Sample ID: CCV 480-238818/36 Calibration Date: 04/27/2015 19:02
 Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
 GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
 Lab File ID: 7_369_164.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	3141540	3062714		0.487	0.500	-2.5	20.0
PCB-1016 Peak 2	Ave	1238779	1152790		0.465	0.500	-6.9	20.0
PCB-1016 Peak 3	Ave	821111	792134		0.482	0.500	-3.5	20.0
PCB-1016 Peak 4	Ave	1082633	1007670		0.465	0.500	-6.9	20.0
PCB-1260 Peak 1	Ave	1463539	1340042		0.458	0.500	-8.4	20.0
PCB-1260 Peak 2	Ave	1374177	1264718		0.460	0.500	-8.0	20.0
PCB-1260 Peak 3	Ave	3214746	3077504		0.479	0.500	-4.3	20.0
PCB-1260 Peak 4	Ave	1550459	1416676		0.457	0.500	-8.6	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/36 Calibration Date: 04/27/2015 19:02
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_164.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.71	2.68	2.74
PCB-1016 Peak 2	2.80	2.77	2.83
PCB-1016 Peak 3	2.86	2.83	2.89
PCB-1016 Peak 4	3.24	3.21	3.27
PCB-1260 Peak 1	4.67	4.64	4.70
PCB-1260 Peak 2	4.86	4.83	4.89
PCB-1260 Peak 3	5.06	5.03	5.09
PCB-1260 Peak 4	5.30	5.27	5.33

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 19:02:22 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 08:34:45 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 08:34:45

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	1267895	0.0300	0.0280	
2	1.535	1.535	0.000	1079691	0.0300	0.0275	

RPD = 1.93

6 PCB-1016

M

1	2.713	2.713	0.000	1531357	0.5000	0.4875	M
1	2.796	2.796	0.000	576395	0.5000	0.4653	M
1	2.855	2.855	0.000	396067	0.5000	0.4824	M
1	3.243	3.243	0.000	503835	0.5000	0.4654	M

Average of Peak Amounts =

0.4751

2	2.422	2.422	0.000	377341	0.5000	0.5431	M
2	2.526	2.526	0.000	1495423	0.5000	0.5723	
2	2.728	2.728	0.000	367191	0.5000	0.5516	
2	3.003	3.003	0.000	665641	0.5000	0.5501	

Average of Peak Amounts =

0.5543

RPD = 15.38

9 PCB-1260

M

1	4.673	4.673	0.000	670021	0.5000	0.4578	M
1	4.860	4.860	0.000	632359	0.5000	0.4602	M
1	5.063	5.063	0.000	1538752	0.5000	0.4787	M
1	5.299	5.299	0.000	708338	0.5000	0.4569	M

Average of Peak Amounts =

0.4634

2	4.669	4.669	0.000	716565	0.5000	0.5417	
2	4.736	4.736	0.000	542637	0.5000	0.5502	
2	4.809	4.809	0.000	1715434	0.5000	0.5531	
2	5.138	5.138	0.000	986656	0.5000	0.5250	

Average of Peak Amounts =

0.5425

RPD = 15.73

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	667835	0.0300	0.0227	
2	6.141	6.141	0.000	654790	0.0300	0.0240	

RPD = 5.82

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\\lg6\\Buffalo\\ChromData\\HP6890-07\\20150427-41749.b\\7_369_164.D

Injection Date: 27-Apr-2015 19:02:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 36

Client ID:

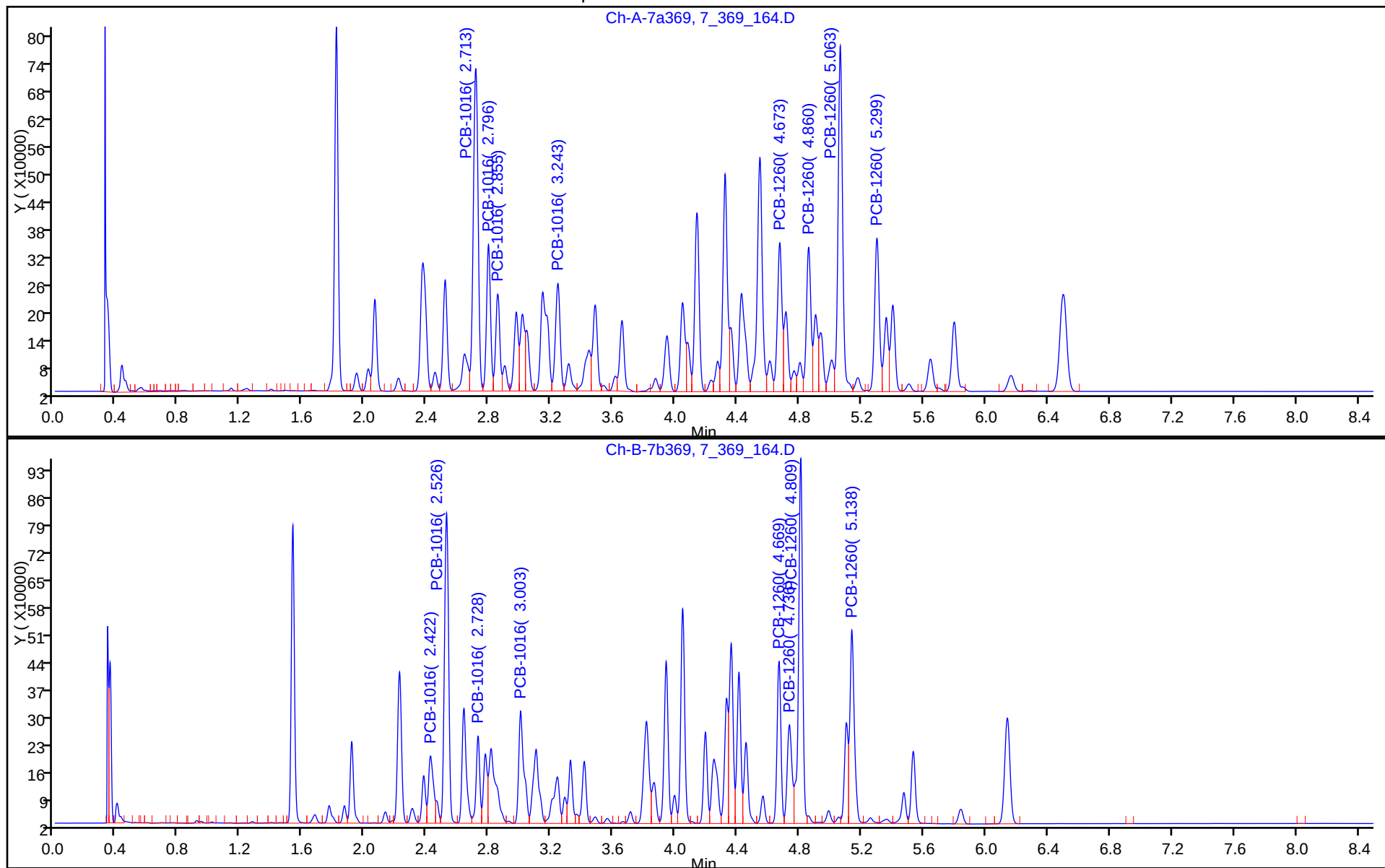
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

Injection Date: 27-Apr-2015 19:02:22

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 36

Injection Vol: 1.0 ul

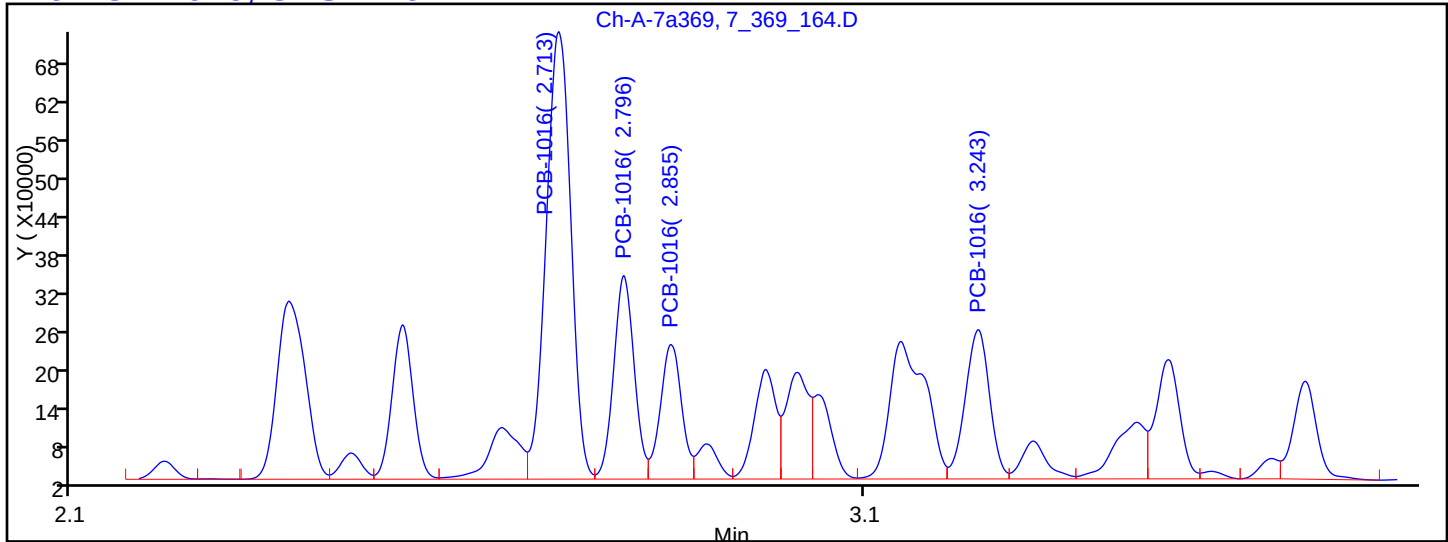
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

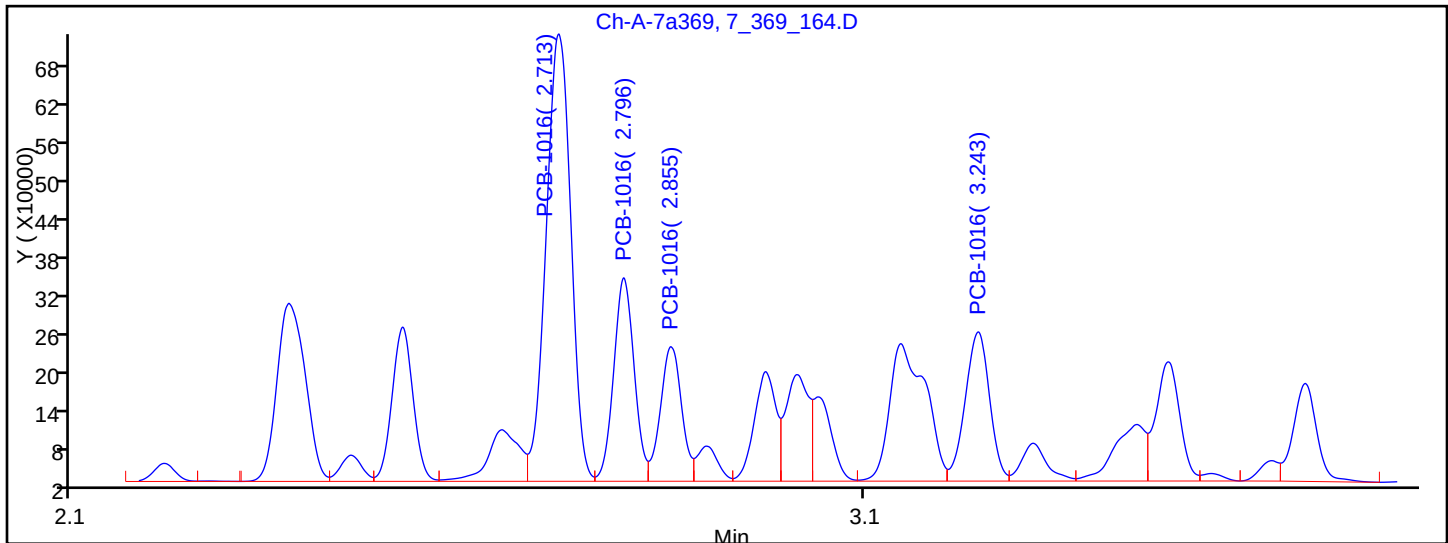
Column:

Detector Ch-A-7A136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.713	Response = 1531374	M
RT = 2.796	Response = 576413	M
RT = 2.855	Response = 396084	M
RT = 3.243	Response = 503878	M



Manual Integration Results

RT = 2.713	Response = 1531357	M
RT = 2.796	Response = 576395	M
RT = 2.855	Response = 396067	M
RT = 3.243	Response = 503835	M

Reviewer: sobolk, 28-Apr-2015 08:34:45

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\ChromNAIlg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

Injection Date: 27-Apr-2015 19:02:22

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 36

Injection Vol: 1.0 ul

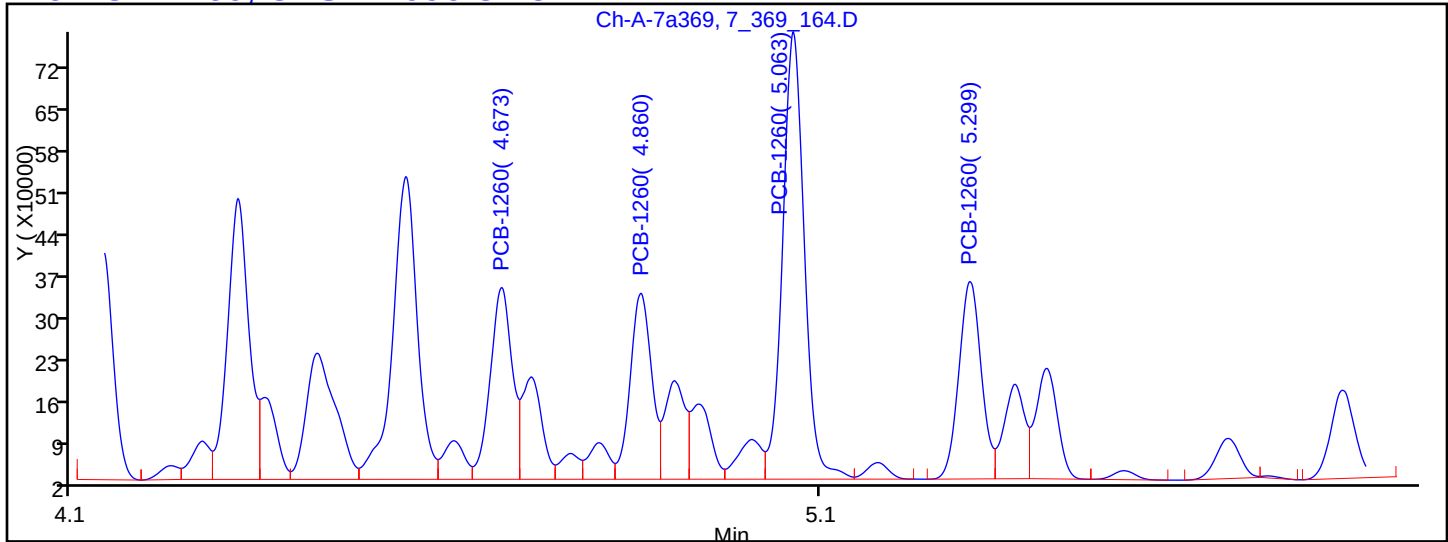
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

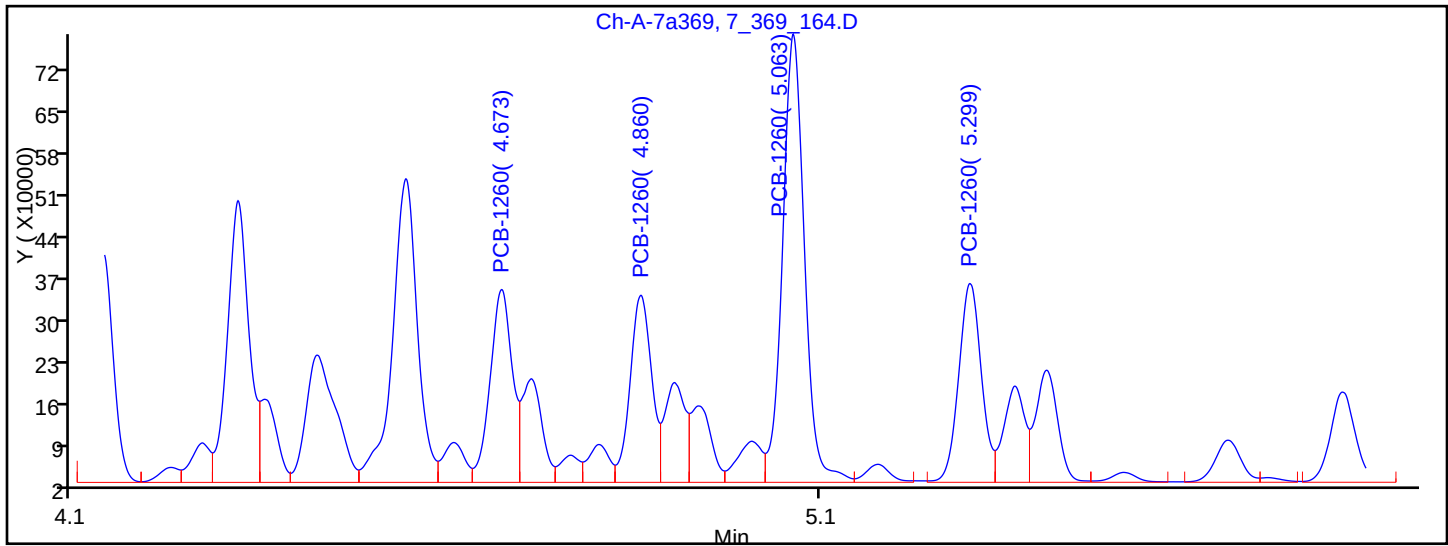
Column:

Detector Ch-A-7A136

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

Processing Integration Results

RT = 4.673	Response = 661347	M
RT = 4.860	Response = 623760	M
RT = 5.063	Response = 1521263	M
RT = 5.299	Response = 693817	M



Manual Integration Results

RT = 4.673	Response = 670021	M
RT = 4.860	Response = 632359	M
RT = 5.063	Response = 1538752	M
RT = 5.299	Response = 708338	M

Reviewer: sobolk, 28-Apr-2015 08:34:45

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/36 Calibration Date: 04/27/2015 19:02
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_164.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	45258560	42263167		0.0280	0.0300	-6.6	20.0
DCB Decachlorobiphenyl	Ave	29468547	22261167		0.0227	0.0300	-24.5*	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/36 Calibration Date: 04/27/2015 19:02
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-5 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_164.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.82	1.79	1.85
DCB Decachlorobiphenyl	6.50	6.44	6.56

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 19:02:22 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 08:34:45 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 08:34:45

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	1267895	0.0300	0.0280	
2	1.535	1.535	0.000	1079691	0.0300	0.0275	

RPD = 1.93

6 PCB-1016

M

1	2.713	2.713	0.000	1531357	0.5000	0.4875	M
1	2.796	2.796	0.000	576395	0.5000	0.4653	M
1	2.855	2.855	0.000	396067	0.5000	0.4824	M
1	3.243	3.243	0.000	503835	0.5000	0.4654	M

Average of Peak Amounts = 0.4751

2	2.422	2.422	0.000	377341	0.5000	0.5431	M
2	2.526	2.526	0.000	1495423	0.5000	0.5723	
2	2.728	2.728	0.000	367191	0.5000	0.5516	
2	3.003	3.003	0.000	665641	0.5000	0.5501	

Average of Peak Amounts = 0.5543

RPD = 15.38

9 PCB-1260

M

1	4.673	4.673	0.000	670021	0.5000	0.4578	M
1	4.860	4.860	0.000	632359	0.5000	0.4602	M
1	5.063	5.063	0.000	1538752	0.5000	0.4787	M
1	5.299	5.299	0.000	708338	0.5000	0.4569	M

Average of Peak Amounts = 0.4634

2	4.669	4.669	0.000	716565	0.5000	0.5417	
2	4.736	4.736	0.000	542637	0.5000	0.5502	
2	4.809	4.809	0.000	1715434	0.5000	0.5531	
2	5.138	5.138	0.000	986656	0.5000	0.5250	

Average of Peak Amounts = 0.5425

RPD = 15.73

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	667835	0.0300	0.0227	
2	6.141	6.141	0.000	654790	0.0300	0.0240	

RPD = 5.82

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNAIlg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

Injection Date: 27-Apr-2015 19:02:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 36

Client ID:

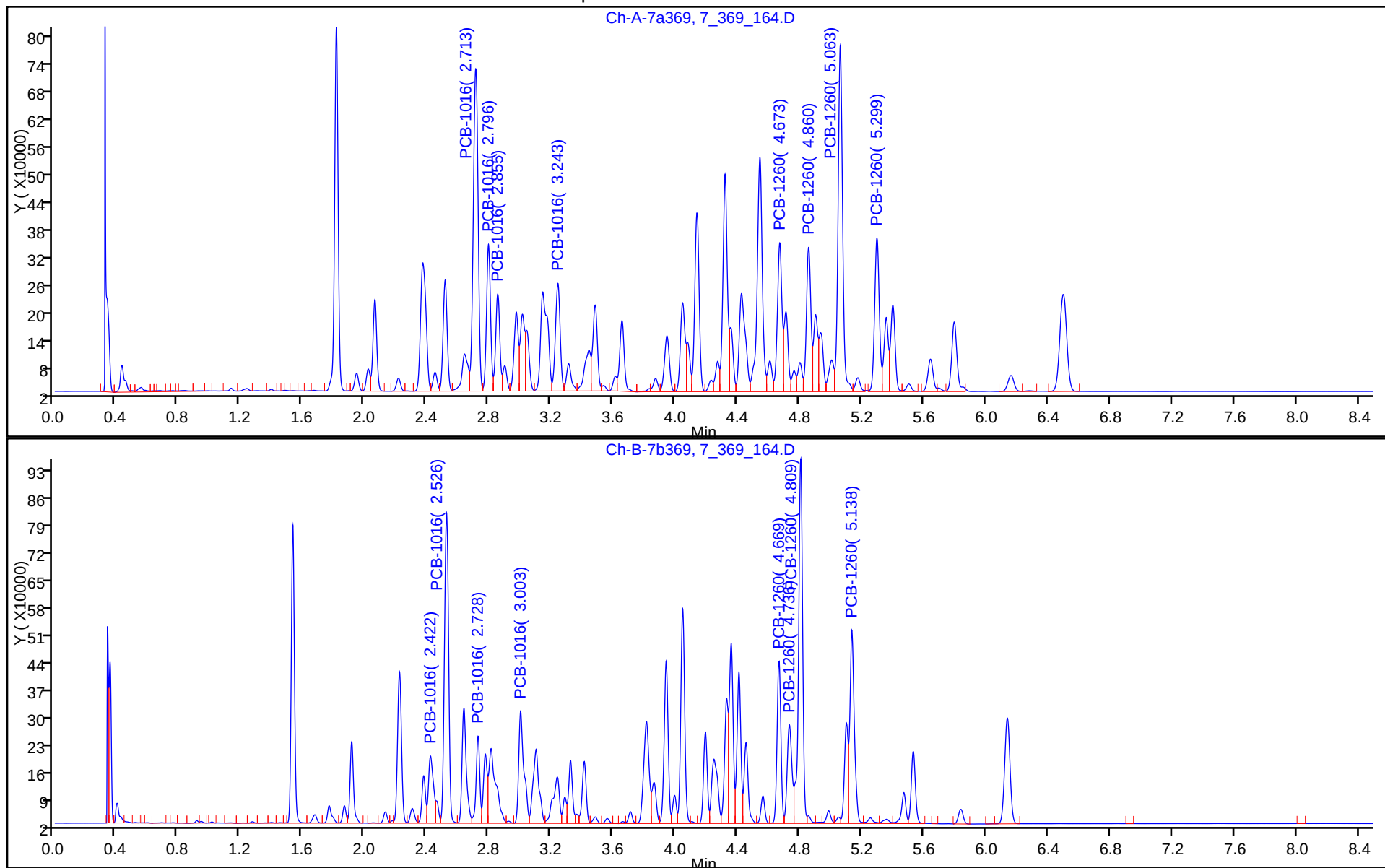
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Lab Sample ID: CCV 480-238818/36 Calibration Date: 04/27/2015 19:02
 Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
 GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
 Lab File ID: 7_369_164.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	694781	754682		0.543	0.500	8.6	20.0
PCB-1016 Peak 2	Ave	2612999	2990846		0.572	0.500	14.5	20.0
PCB-1016 Peak 3	Ave	665710	734382		0.552	0.500	10.3	20.0
PCB-1016 Peak 4	Ave	1209959	1331282		0.550	0.500	10.0	20.0
PCB-1260 Peak 1	Ave	1322768	1433130		0.542	0.500	8.3	20.0
PCB-1260 Peak 2	Ave	986283	1085274		0.550	0.500	10.0	20.0
PCB-1260 Peak 3	Ave	3101425	3430868		0.553	0.500	10.6	20.0
PCB-1260 Peak 4	Ave	1879432	1973312		0.525	0.500	5.0	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/36 Calibration Date: 04/27/2015 19:02
Instrument ID: HP6890-7 Calib Start Date: 02/24/2015 15:28
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 02/24/2015 17:03
Lab File ID: 7_369_164.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	2.42	2.39	2.45
PCB-1016 Peak 2	2.53	2.50	2.56
PCB-1016 Peak 3	2.73	2.70	2.76
PCB-1016 Peak 4	3.00	2.97	3.03
PCB-1260 Peak 1	4.67	4.64	4.70
PCB-1260 Peak 2	4.74	4.71	4.77
PCB-1260 Peak 3	4.81	4.78	4.84
PCB-1260 Peak 4	5.14	5.11	5.17

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 19:02:22 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 08:34:45 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 08:34:45

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	1267895	0.0300	0.0280	
2	1.535	1.535	0.000	1079691	0.0300	0.0275	

RPD = 1.93

6 PCB-1016

M

1	2.713	2.713	0.000	1531357	0.5000	0.4875	M
1	2.796	2.796	0.000	576395	0.5000	0.4653	M
1	2.855	2.855	0.000	396067	0.5000	0.4824	M
1	3.243	3.243	0.000	503835	0.5000	0.4654	M

Average of Peak Amounts =

0.4751

2	2.422	2.422	0.000	377341	0.5000	0.5431	M
2	2.526	2.526	0.000	1495423	0.5000	0.5723	
2	2.728	2.728	0.000	367191	0.5000	0.5516	
2	3.003	3.003	0.000	665641	0.5000	0.5501	

Average of Peak Amounts =

0.5543

RPD = 15.38

9 PCB-1260

M

1	4.673	4.673	0.000	670021	0.5000	0.4578	M
1	4.860	4.860	0.000	632359	0.5000	0.4602	M
1	5.063	5.063	0.000	1538752	0.5000	0.4787	M
1	5.299	5.299	0.000	708338	0.5000	0.4569	M

Average of Peak Amounts =

0.4634

2	4.669	4.669	0.000	716565	0.5000	0.5417	
2	4.736	4.736	0.000	542637	0.5000	0.5502	
2	4.809	4.809	0.000	1715434	0.5000	0.5531	
2	5.138	5.138	0.000	986656	0.5000	0.5250	

Average of Peak Amounts =

0.5425

RPD = 15.73

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	667835	0.0300	0.0227	
2	6.141	6.141	0.000	654790	0.0300	0.0240	

RPD = 5.82

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

Injection Date: 27-Apr-2015 19:02:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 36

Client ID:

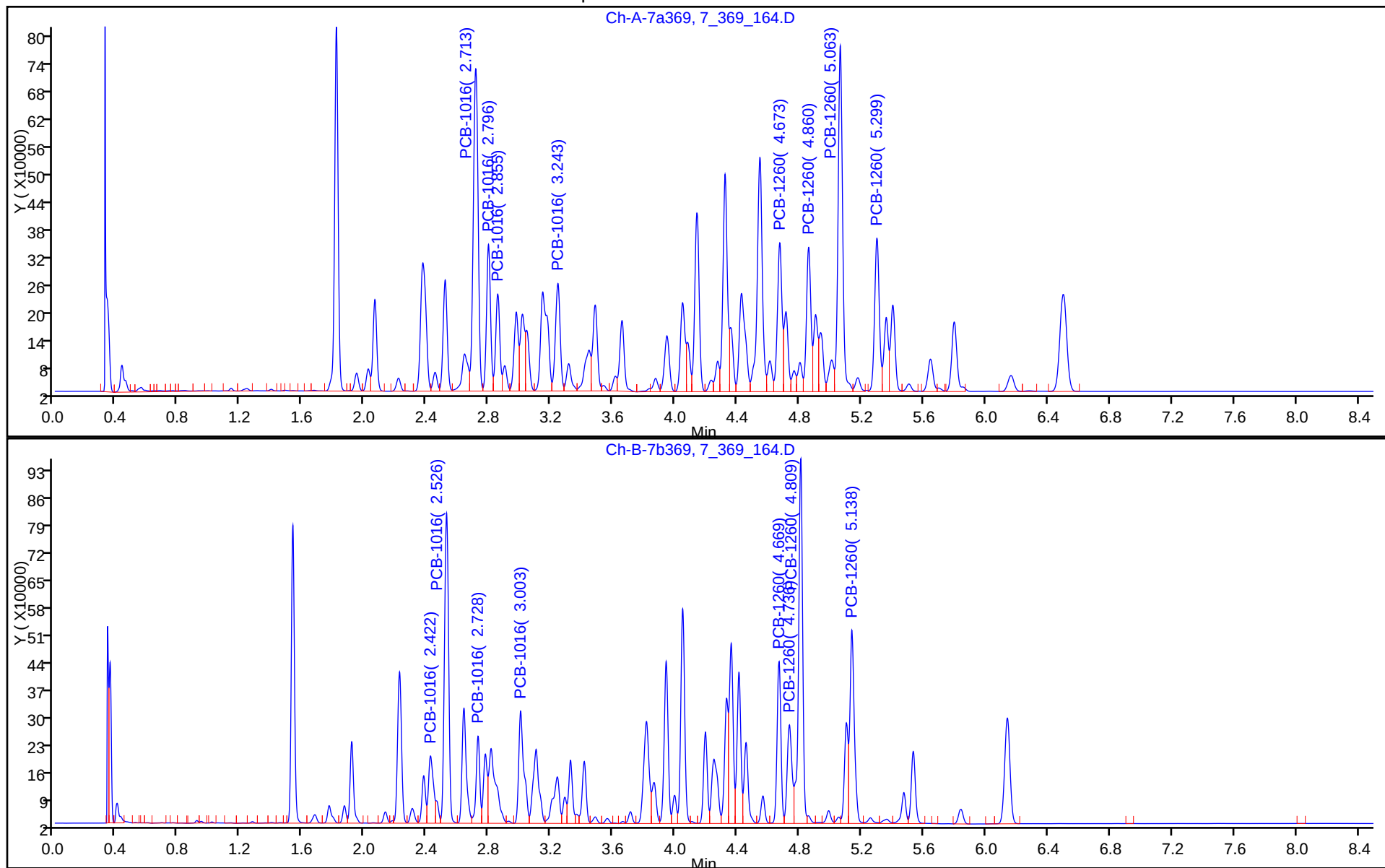
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

Injection Date: 27-Apr-2015 19:02:22

Instrument ID: HP6890-7

Lims ID: CCV

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 36

Injection Vol: 1.0 ul

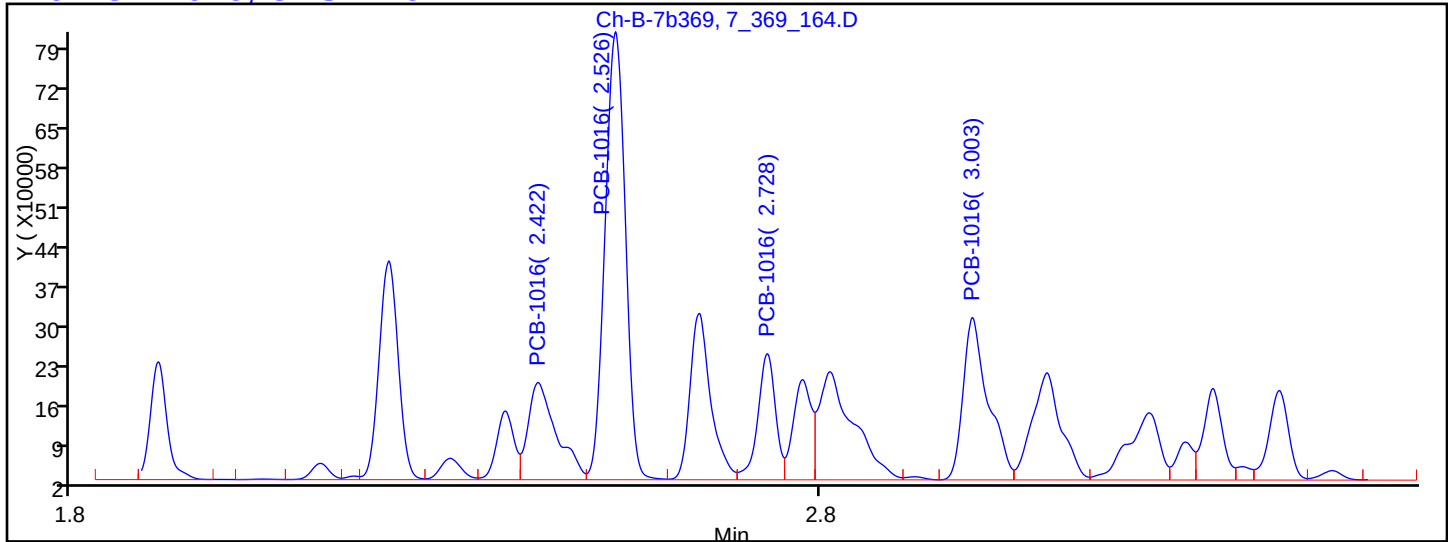
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

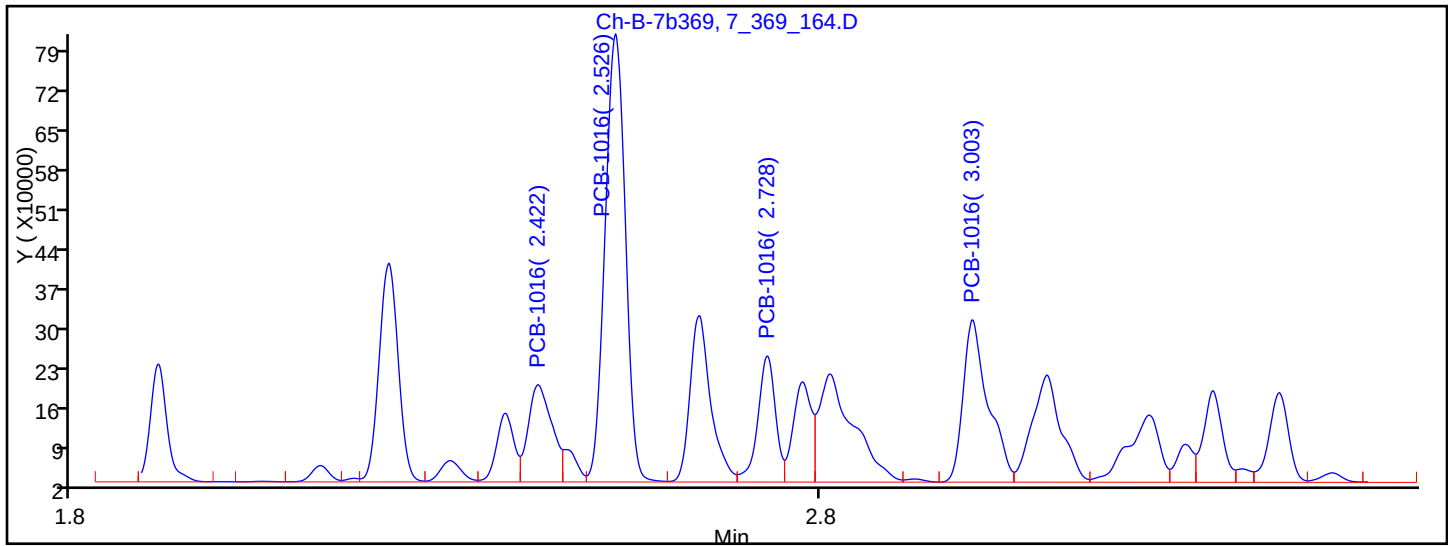
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.422	Response = 450512	M
RT = 2.526	Response = 1495423	
RT = 2.728	Response = 367191	
RT = 3.003	Response = 665641	



Manual Integration Results

RT = 2.422	Response = 377341	M
RT = 2.526	Response = 1495423	
RT = 2.728	Response = 367191	
RT = 3.003	Response = 665641	

Reviewer: sobolk, 28-Apr-2015 08:34:45

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/36 Calibration Date: 04/27/2015 19:02
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_164.D Conc. Units: ng/uL

ANALYTE	CURVE TYPE	AVE CF	CF	MIN CF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Tetrachloro-m-xylene	Ave	39291443	35989700		0.0275	0.0300	-8.4	20.0
DCB Decachlorobiphenyl	Ave	27257777	21826333		0.0240	0.0300	-19.9	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
SDG No.: _____
Lab Sample ID: CCV 480-238818/36 Calibration Date: 04/27/2015 19:02
Instrument ID: HP6890-7 Calib Start Date: 04/10/2015 10:47
GC Column: ZB-35 ID: 0.53 (mm) Calib End Date: 04/10/2015 12:22
Lab File ID: 7_369_164.D

Analyte	RT	RT WINDOW	
		FROM	TO
Tetrachloro-m-xylene	1.54	1.51	1.57
DCB Decachlorobiphenyl	6.14	6.08	6.20

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D
 Lims ID: CCV
 Client ID:
 Sample Type: CCV
 Inject. Date: 27-Apr-2015 19:02:22 ALS Bottle#: 0 Worklist Smp#: 36
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Sublist: chrom-HP7-PCBS*sub12
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 28-Apr-2015 08:34:45 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK026

First Level Reviewer: sobolk

Date: 28-Apr-2015 08:34:45

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	1267895	0.0300	0.0280	
2	1.535	1.535	0.000	1079691	0.0300	0.0275	

RPD = 1.93

6 PCB-1016

M

1	2.713	2.713	0.000	1531357	0.5000	0.4875	M
1	2.796	2.796	0.000	576395	0.5000	0.4653	M
1	2.855	2.855	0.000	396067	0.5000	0.4824	M
1	3.243	3.243	0.000	503835	0.5000	0.4654	M

Average of Peak Amounts = 0.4751

2	2.422	2.422	0.000	377341	0.5000	0.5431	M
2	2.526	2.526	0.000	1495423	0.5000	0.5723	
2	2.728	2.728	0.000	367191	0.5000	0.5516	
2	3.003	3.003	0.000	665641	0.5000	0.5501	

Average of Peak Amounts = 0.5543

RPD = 15.38

9 PCB-1260

M

1	4.673	4.673	0.000	670021	0.5000	0.4578	M
1	4.860	4.860	0.000	632359	0.5000	0.4602	M
1	5.063	5.063	0.000	1538752	0.5000	0.4787	M
1	5.299	5.299	0.000	708338	0.5000	0.4569	M

Average of Peak Amounts = 0.4634

2	4.669	4.669	0.000	716565	0.5000	0.5417	
2	4.736	4.736	0.000	542637	0.5000	0.5502	
2	4.809	4.809	0.000	1715434	0.5000	0.5531	
2	5.138	5.138	0.000	986656	0.5000	0.5250	

Average of Peak Amounts = 0.5425

RPD = 15.73

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.500	6.500	0.000	667835	0.0300	0.0227	
2	6.141	6.141	0.000	654790	0.0300	0.0240	

RPD = 5.82

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

AR1660 .5NG_00098

Amount Added: 1.00

Units: mL

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_164.D

Injection Date: 27-Apr-2015 19:02:22

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: CCV

Worklist Smp#: 36

Client ID:

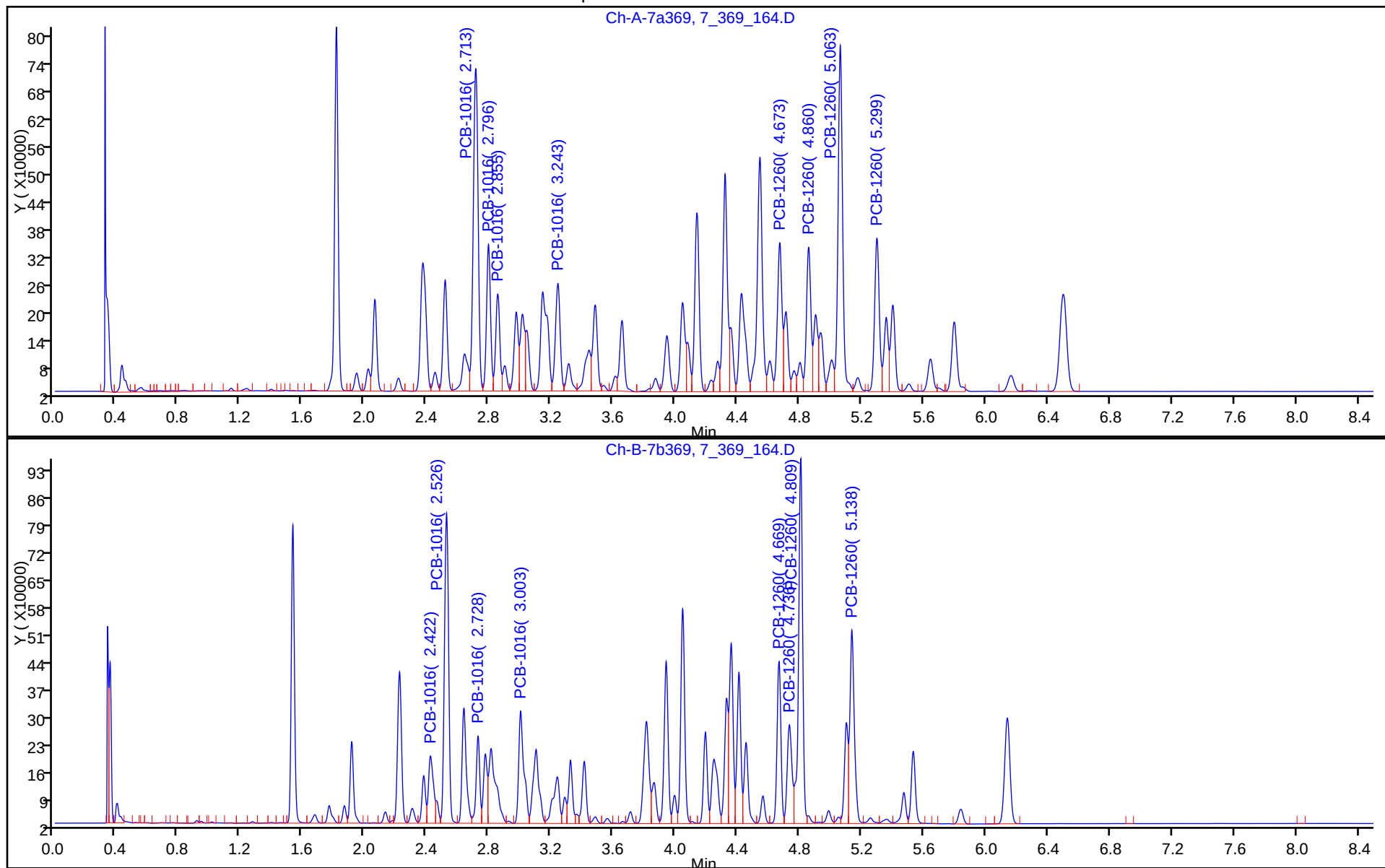
Injection Vol: 1.0 ul

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.: 480-79126-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-238627/1-A

Matrix: Water Lab File ID: 7_369_134.D

Analysis Method: 8082A Date Collected: _____

Extraction Method: 3510C Date Extracted: 04/25/2015 09:38

Sample wt/vol: 250 (mL) Date Analyzed: 04/27/2015 11:06

Con. Extract Vol.: 2 (mL) Dilution Factor: 1

Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	0.50	U	0.50	0.18
11104-28-2	PCB-1221	0.50	U	0.50	0.18
11141-16-5	PCB-1232	0.50	U	0.50	0.18
53469-21-9	PCB-1242	0.50	U	0.50	0.18
12672-29-6	PCB-1248	0.50	U	0.50	0.18
11097-69-1	PCB-1254	0.50	U	0.50	0.25
11096-82-5	PCB-1260	0.50	U	0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	38		19-125
877-09-8	Tetrachloro-m-xylene	71		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_134.D
Lims ID: MB 480-238627/1-A
Client ID:
Sample Type: MB
Inject. Date: 27-Apr-2015 11:06:50 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: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
Limit Group: GC - 8082A PCB ICAL
Last Update: 27-Apr-2015 11:21:34 Calib Date: 10-Apr-2015 12:06:25
Integrator: Falcon
Quant Method: External Standard Quant By: Initial Calibration
Last ICAL File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
Column 1 : Det: Ch-A-7A136
Column 2 : Det: Ch-B-7b136
Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 15:20:50

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

\$ 3 Tetrachloro-m-xylene

1	1.816	1.816	0.000	621829	0.0200	0.0137	
2	1.535	1.535	0.000	554912	0.0200	0.0141	
RPD = 2.75							

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.500	0.002	222287	0.0200	0.007543	
2	6.140	6.139	0.001	206318	0.0200	0.007569	
RPD = 0.34							

Reagents:

COPPER_00054 Amount Added: 1.00 Units: mL Run Reagent

Report Date: 27-Apr-2015 15:20:50

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_134.D

Injection Date: 27-Apr-2015 11:06:50

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: MB 480-238627/1-A

Worklist Smp#: 6

Client ID:

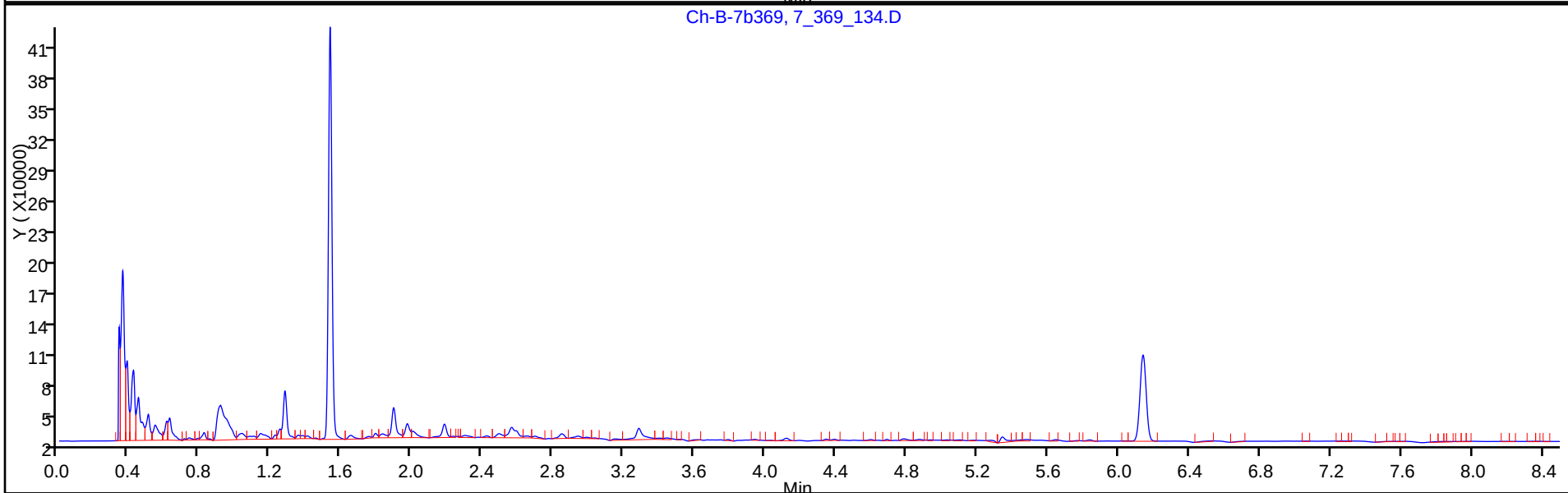
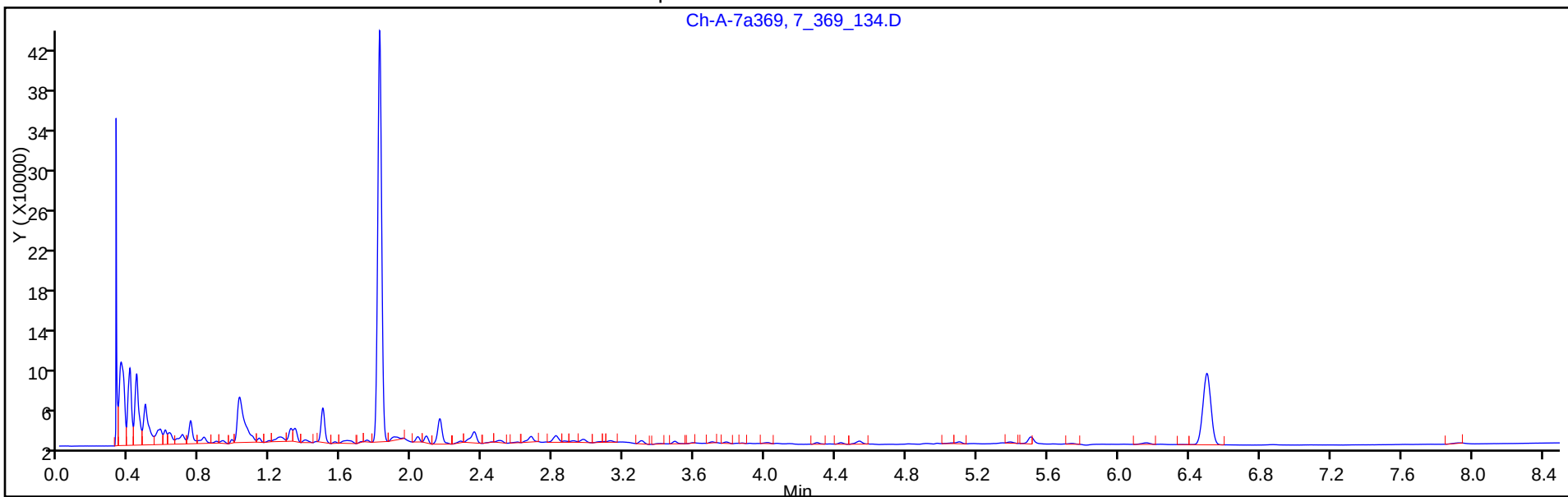
Injection Vol: 1.0 ul

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.: 480-79126-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-238627/2-A
 Matrix: Water Lab File ID: 7_369_135.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 250 (mL) Date Analyzed: 04/27/2015 11:22
 Con. Extract Vol.: 2 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: ZB-35 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.99		0.50	0.18
11096-82-5	PCB-1260	2.88		0.50	0.25

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	31		19-125
877-09-8	Tetrachloro-m-xylene	78		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_135.D
 Lims ID: LCS 480-238627/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 27-Apr-2015 11:22:36 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: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 15:21:14 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 15:21:14

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

\$ 3 Tetrachloro-m-xylene M

1	1.816	1.816	0.000	747730	0.0200	0.0165	M
2	1.535	1.535	0.000	615010	0.0200	0.0157	

RPD = 5.40

6 PCB-1016 M

1	2.713	2.713	0.001	1377445	0.5000	0.4385	M
1	2.796	2.796	0.000	532425	0.5000	0.4298	M
1	2.856	2.856	0.000	366135	0.5000	0.4459	M
1	3.243	3.243	0.000	468013	0.5000	0.4323	M

Average of Peak Amounts = 0.4366

2	2.422	2.422	0.000	330092	0.5000	0.4751	M
2	2.525	2.526	-0.001	1349047	0.5000	0.5163	
2	2.729	2.728	0.001	333151	0.5000	0.5004	
2	3.003	3.003	-0.001	606792	0.5000	0.5015	

Average of Peak Amounts = 0.4983

RPD = 13.20

9 PCB-1260

1	4.672	4.673	-0.001	496391	0.5000	0.3392	
1	4.860	4.859	0.001	473275	0.5000	0.3444	
1	5.063	5.063	-0.001	1086237	0.5000	0.3379	
1	5.299	5.298	0.001	508456	0.5000	0.3279	

Average of Peak Amounts = 0.3374

2	4.668	4.668	0.000	478648	0.5000	0.3619	
2	4.736	4.736	0.000	373086	0.5000	0.3783	
2	4.808	4.808	0.000	1161267	0.5000	0.3744	
2	5.138	5.138	0.000	611125	0.5000	0.3252	

Average of Peak Amounts = 0.3599

RPD = 6.48

\$ 12 DCB Decachlorobiphenyl

1	6.499	6.500	-0.001	176582	0.0200	0.005992	
2	6.142	6.139	0.003	168408	0.0200	0.006178	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

Report Date: 27-Apr-2015 15:21:15

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_135.D

Injection Date: 27-Apr-2015 11:22:36

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: LCS 480-238627/2-A

Worklist Smp#: 7

Client ID:

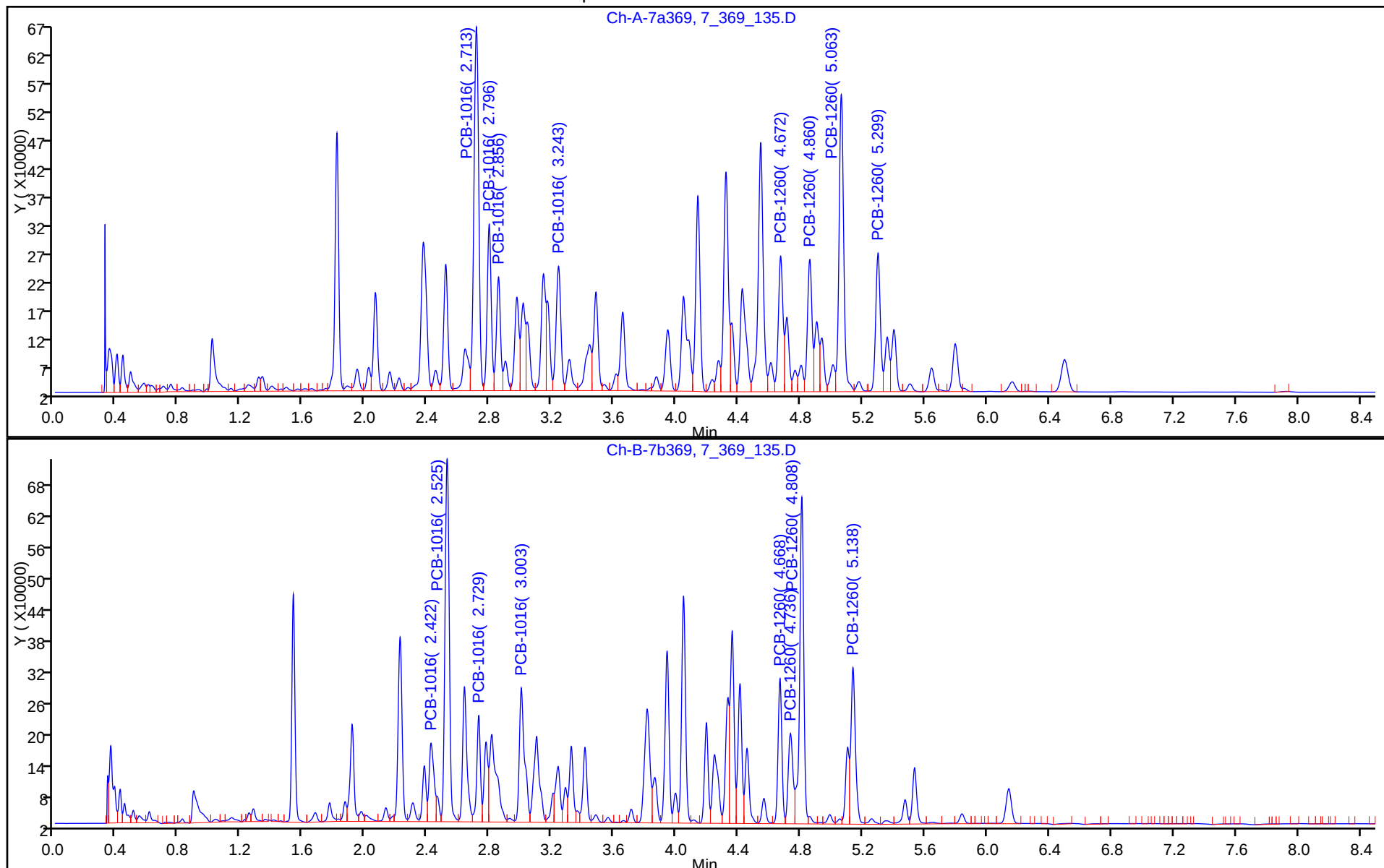
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



Report Date: 27-Apr-2015 15:21:15

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_135.D

Injection Date: 27-Apr-2015 11:22:36

Instrument ID: HP6890-7

Lims ID: LCS 480-238627/2-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

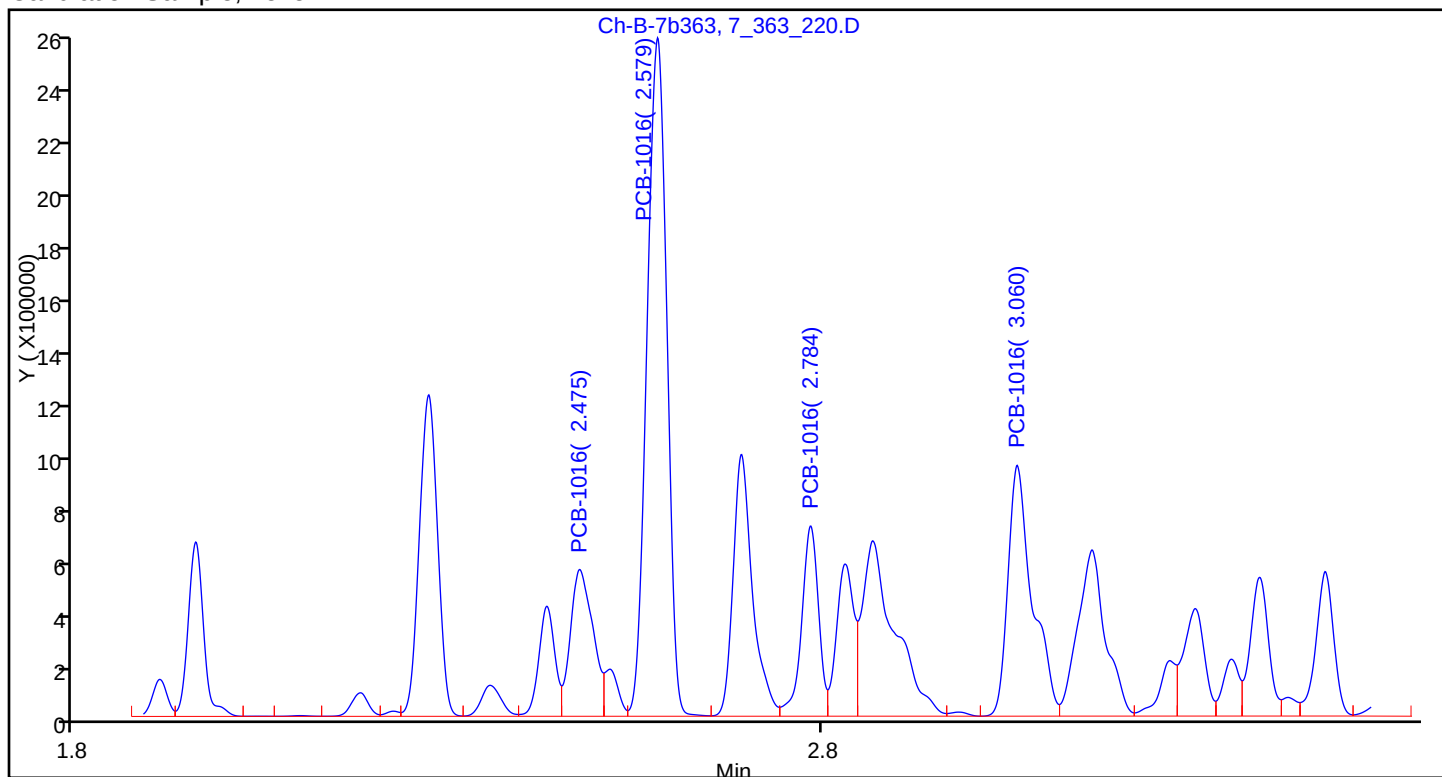
Limit Group: GC - 8082A PCB ICAL

Column:

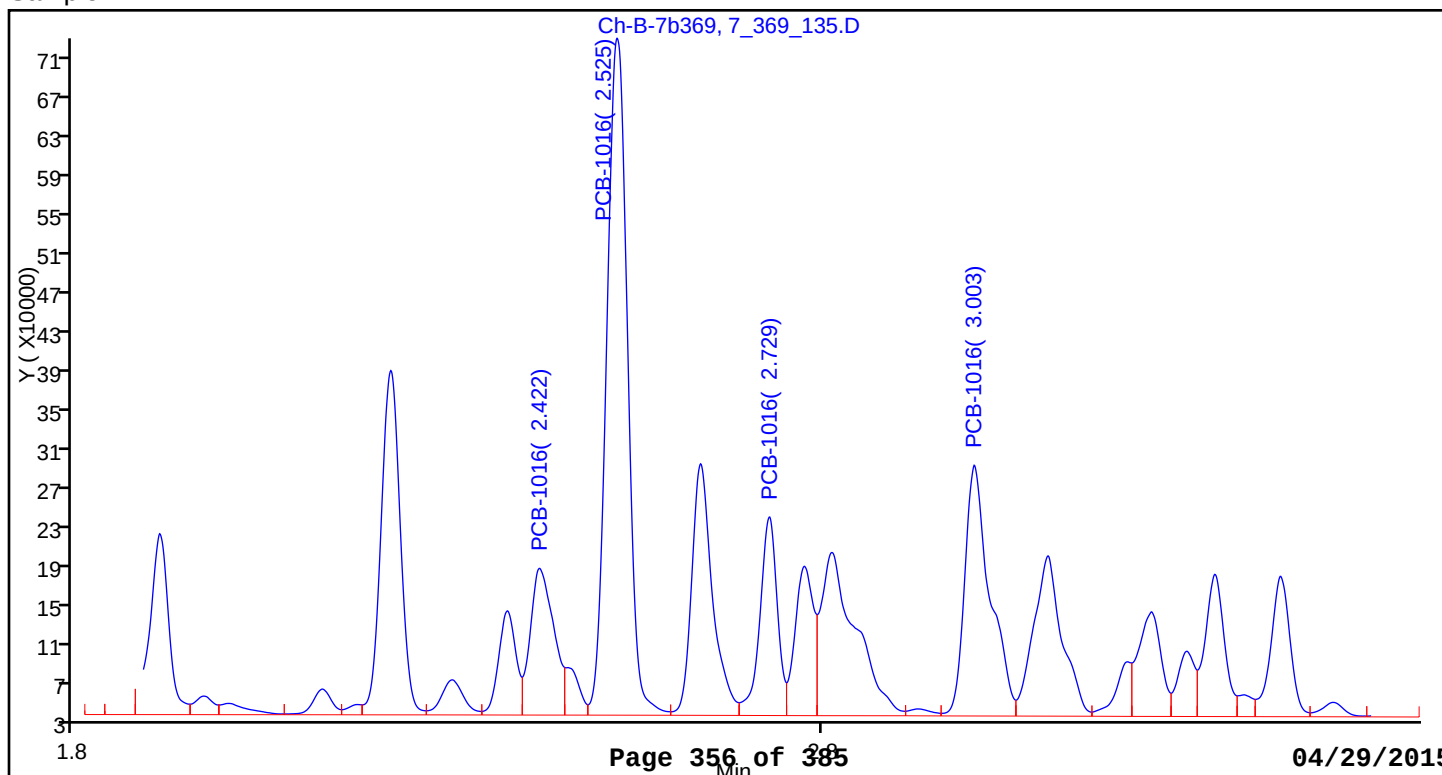
Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



Report Date: 27-Apr-2015 15:21:15

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_135.D

Injection Date: 27-Apr-2015 11:22:36

Instrument ID: HP6890-7

Lims ID: LCS 480-238627/2-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

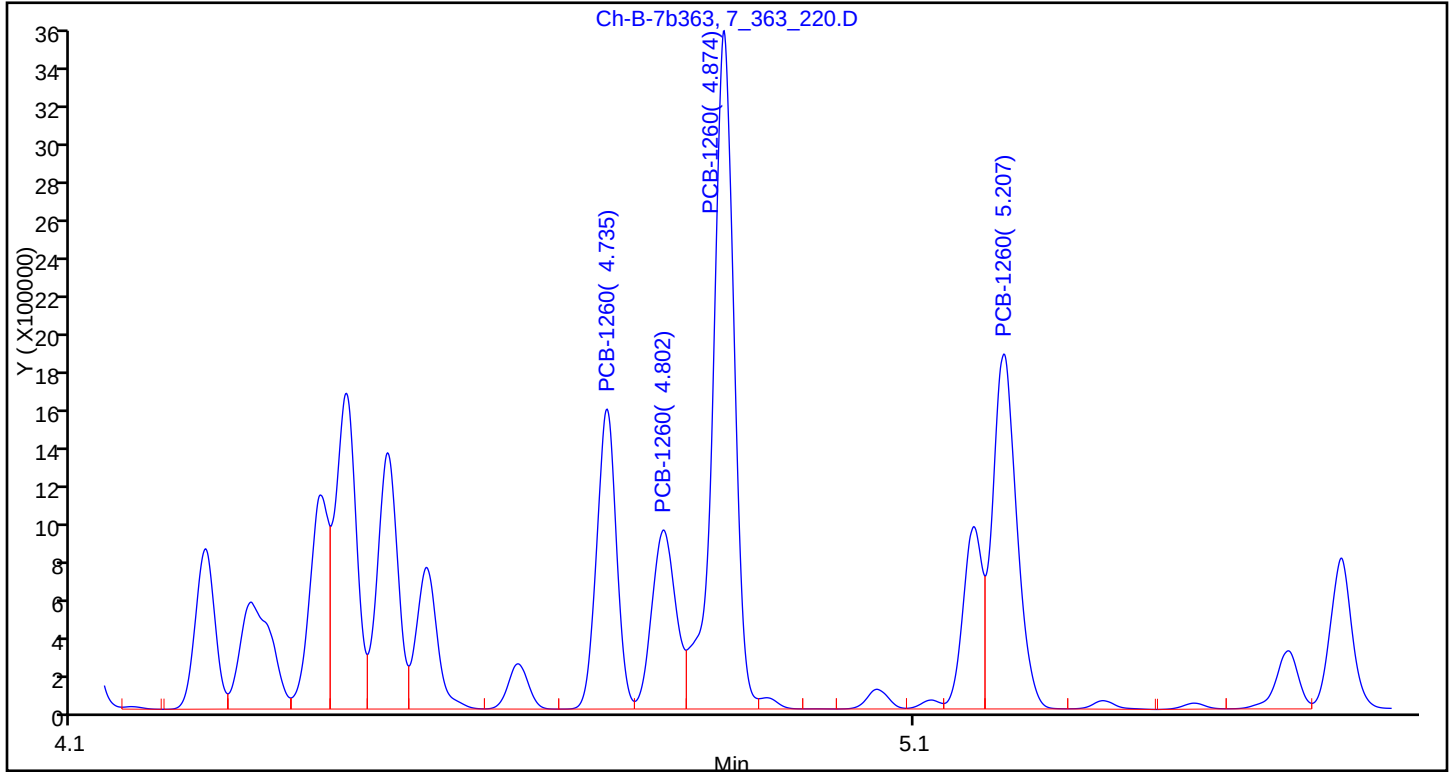
Limit Group: GC - 8082A PCB ICAL

Column:

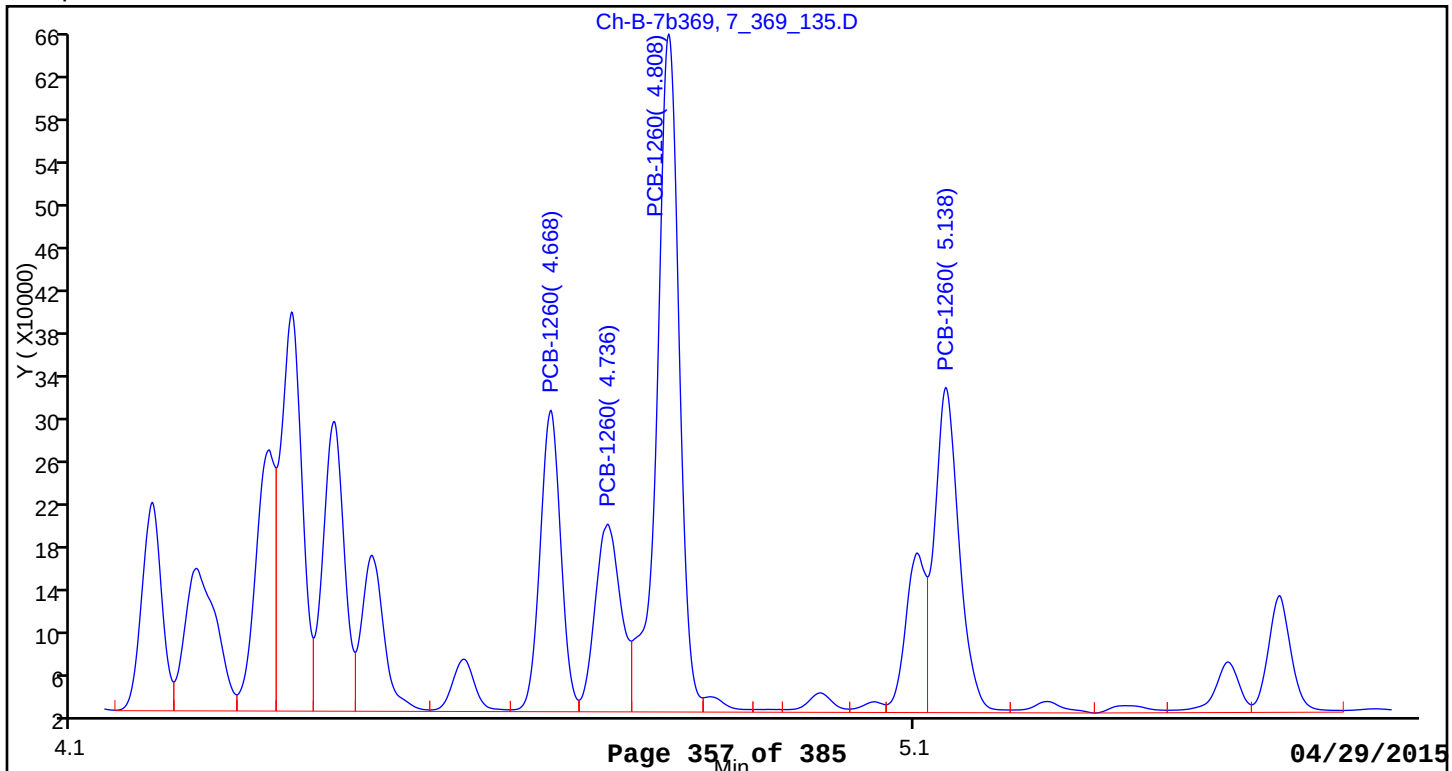
Detector Ch-B-7b136

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

Calibration Sample, Level: 7



Sample



TestAmerica Buffalo

Data File: \\ChromNAIlg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_135.D

Injection Date: 27-Apr-2015 11:22:36

Instrument ID: HP6890-7

Lims ID: LCS 480-238627/2-A

Client ID:

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 7

Injection Vol: 1.0 ul

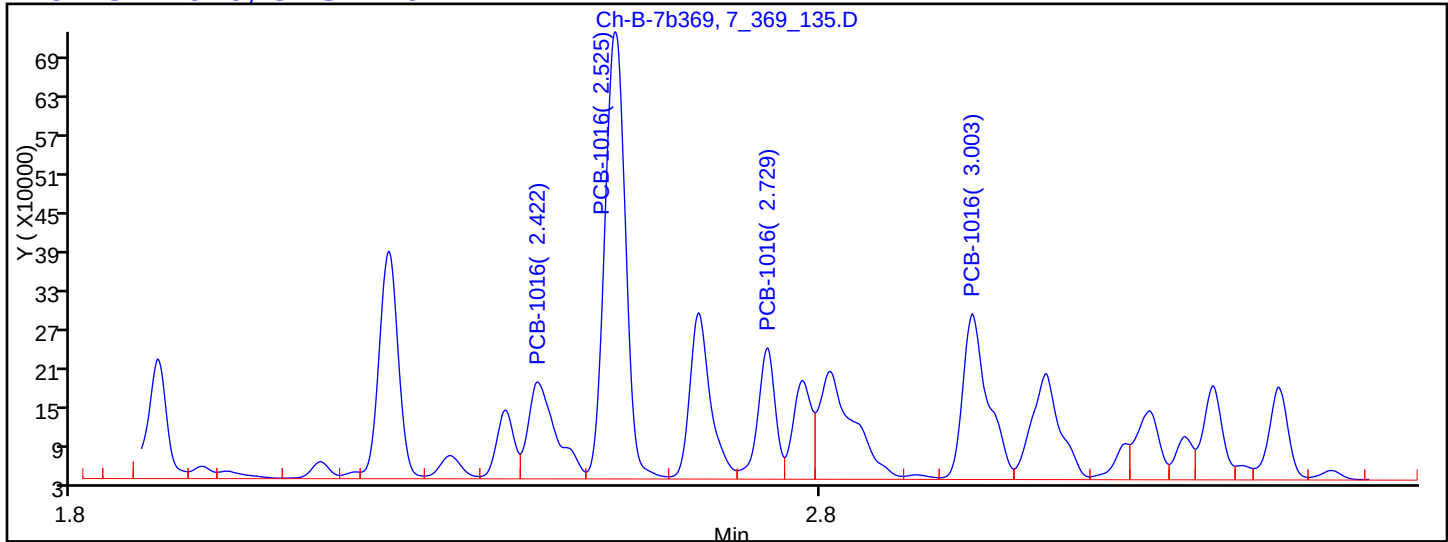
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

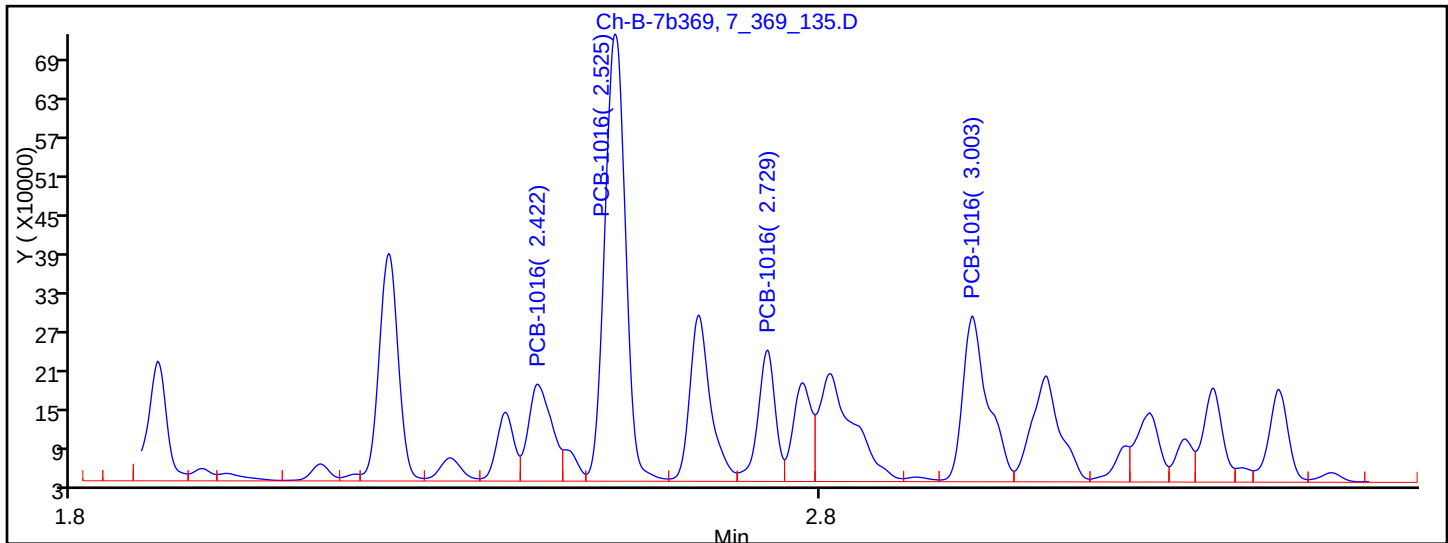
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.422	Response = 393444	M
RT = 2.525	Response = 1349047	
RT = 2.729	Response = 333151	
RT = 3.003	Response = 606792	



Manual Integration Results

RT = 2.422	Response = 330092	M
RT = 2.525	Response = 1349047	
RT = 2.729	Response = 333151	
RT = 3.003	Response = 606792	

Reviewer: sobolk, 27-Apr-2015 12:06:28

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-1S MS Lab Sample ID: 480-79126-1 MS
 Matrix: Water Lab File ID: 7_369_138.D
 Analysis Method: 8082A Date Collected: 04/22/2015 13:40
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 264.7 (mL) Date Analyzed: 04/27/2015 12:10
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	3.90		0.47	0.17
11104-28-2	PCB-1221	0.47	U	0.47	0.17
11141-16-5	PCB-1232	0.47	U	0.47	0.17
53469-21-9	PCB-1242	0.47	U	0.47	0.17
12672-29-6	PCB-1248	0.47	U	0.47	0.17
11097-69-1	PCB-1254	0.47	U	0.47	0.24
11096-82-5	PCB-1260	2.77		0.47	0.24

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	37		19-125
877-09-8	Tetrachloro-m-xylene	82		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_138.D
 Lims ID: 480-79126-A-1-A MS
 Client ID: MW-1S
 Sample Type: MS
 Inject. Date: 27-Apr-2015 12:10:14 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: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 17:12:11 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk

Date: 27-Apr-2015 17:12:11

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

\$ 3 Tetrachloro-m-xylene M

1	1.815	1.815	0.000	788309	0.0200	0.0174	
2	1.535	1.534	0.001	641912	0.0200	0.0163	M

RPD = 6.40

6 PCB-1016 M

1	2.714	2.713	0.001	1420878	0.5000	0.4523	
1	2.796	2.796	0.000	547285	0.5000	0.4418	
1	2.855	2.855	0.000	376761	0.5000	0.4588	
1	3.242	3.243	0.000	479275	0.5000	0.4427	
Average of Peak Amounts =						0.4489	
2	2.422	2.421	0.001	343750	0.5000	0.4948	M
2	2.525	2.525	0.000	1393401	0.5000	0.5333	M
2	2.728	2.728	0.000	348248	0.5000	0.5231	M
2	3.003	3.003	0.000	619997	0.5000	0.5124	M

Average of Peak Amounts = 0.5159

RPD = 13.89

9 PCB-1260 M

1	4.673	4.673	0.001	486677	0.5000	0.3325	
1	4.859	4.858	0.001	466988	0.5000	0.3398	
1	5.064	5.064	0.000	1091660	0.5000	0.3396	
1	5.298	5.299	-0.001	505692	0.5000	0.3262	
Average of Peak Amounts =						0.3345	
2	4.667	4.668	-0.001	480531	0.5000	0.3633	M
2	4.736	4.737	-0.001	377219	0.5000	0.3825	M
2	4.808	4.809	-0.001	1191400	0.5000	0.3841	M
2	5.138	5.138	0.000	628029	0.5000	0.3342	M

Average of Peak Amounts = 0.3660

RPD = 8.99

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_138.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.503	6.503	0.000	206969	0.0200	0.007023	
2	6.138	6.141	-0.003	199403	0.0200	0.007315	

RPD = 4.07

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_138.D

Injection Date: 27-Apr-2015 12:10:14

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-A-1-A MS

Worklist Smp#: 10

Client ID: MW-1S

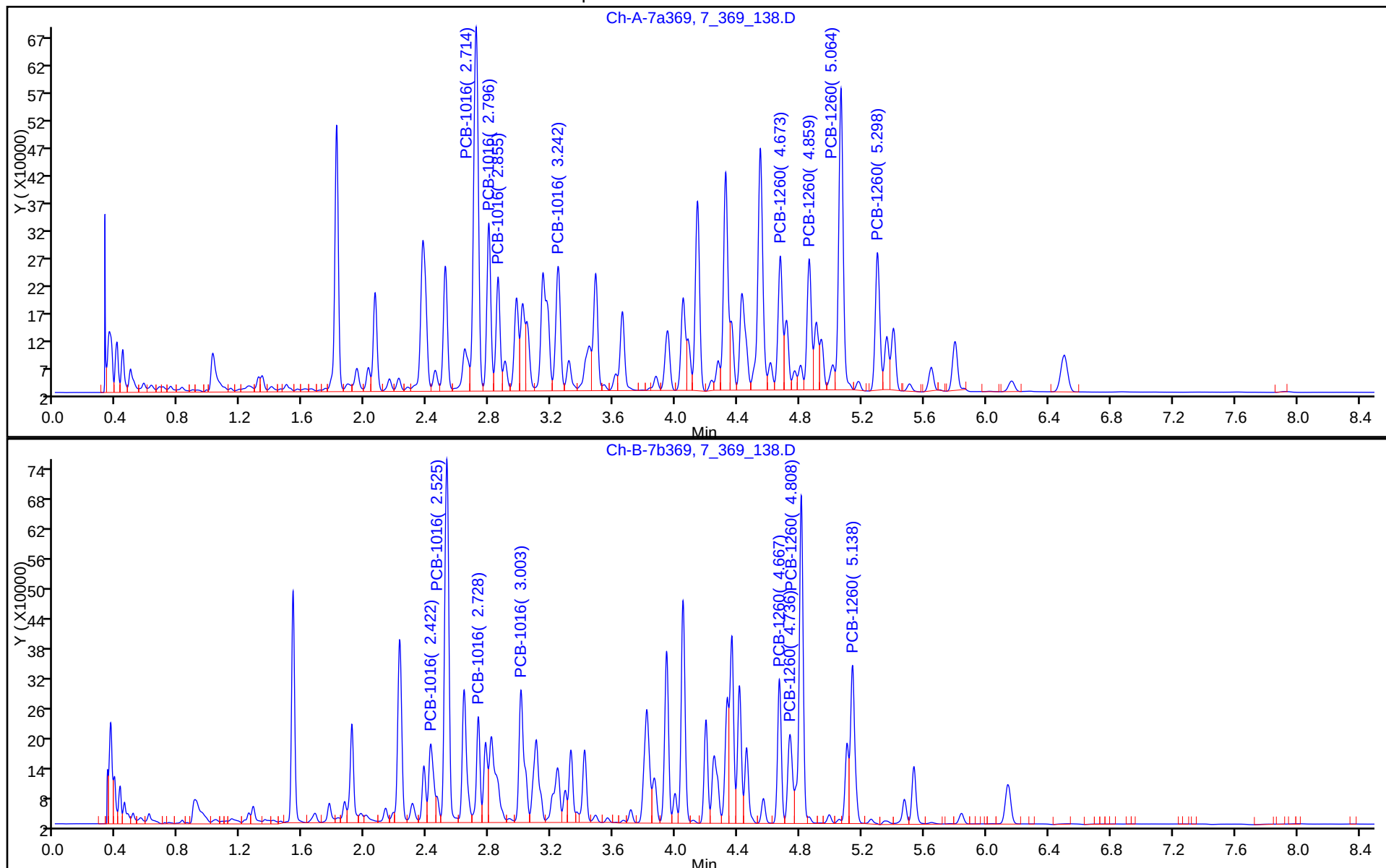
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



Report Date: 27-Apr-2015 17:12:13

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_138.D

Injection Date: 27-Apr-2015 12:10:14

Instrument ID: HP6890-7

Lims ID: 480-79126-A-1-A MS

Client ID: MW-1S

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

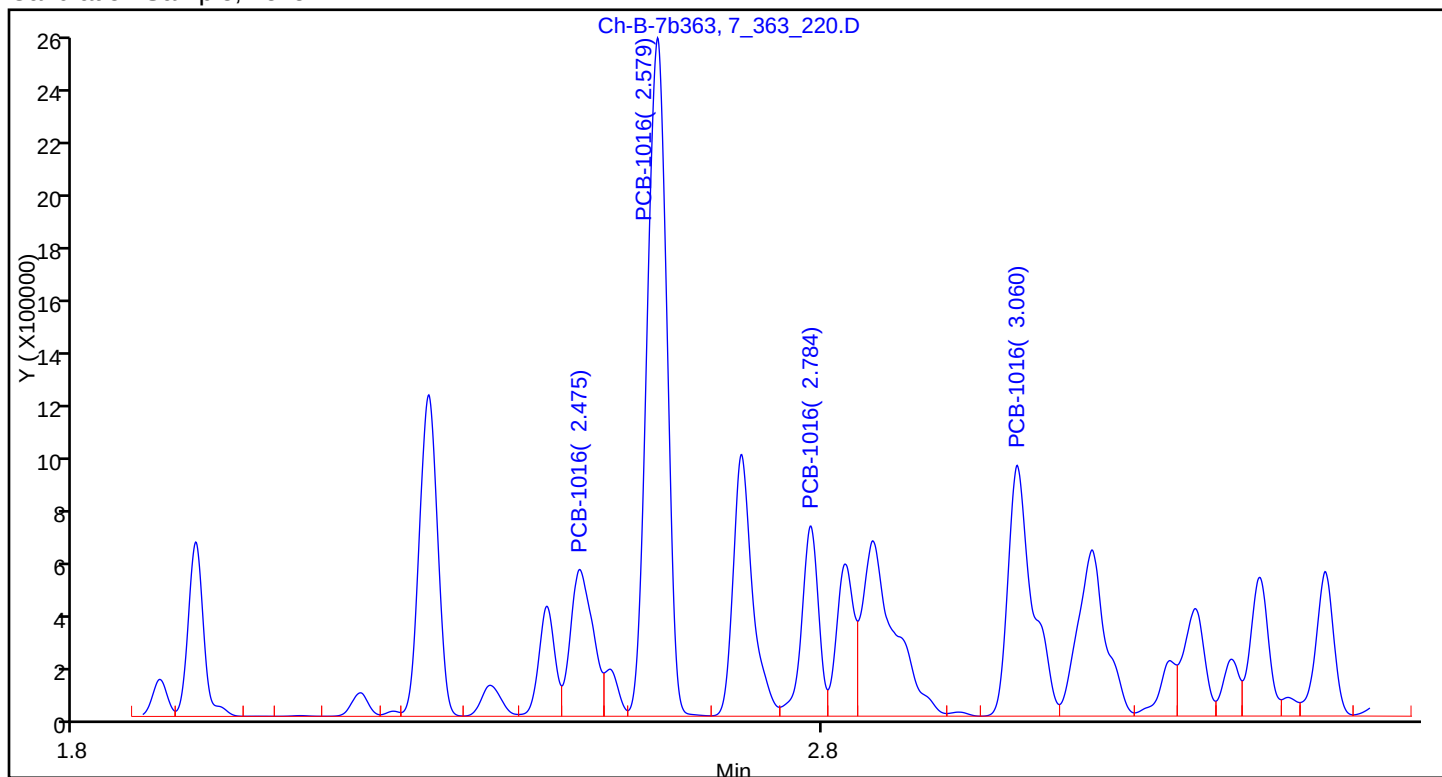
Limit Group: GC - 8082A PCB ICAL

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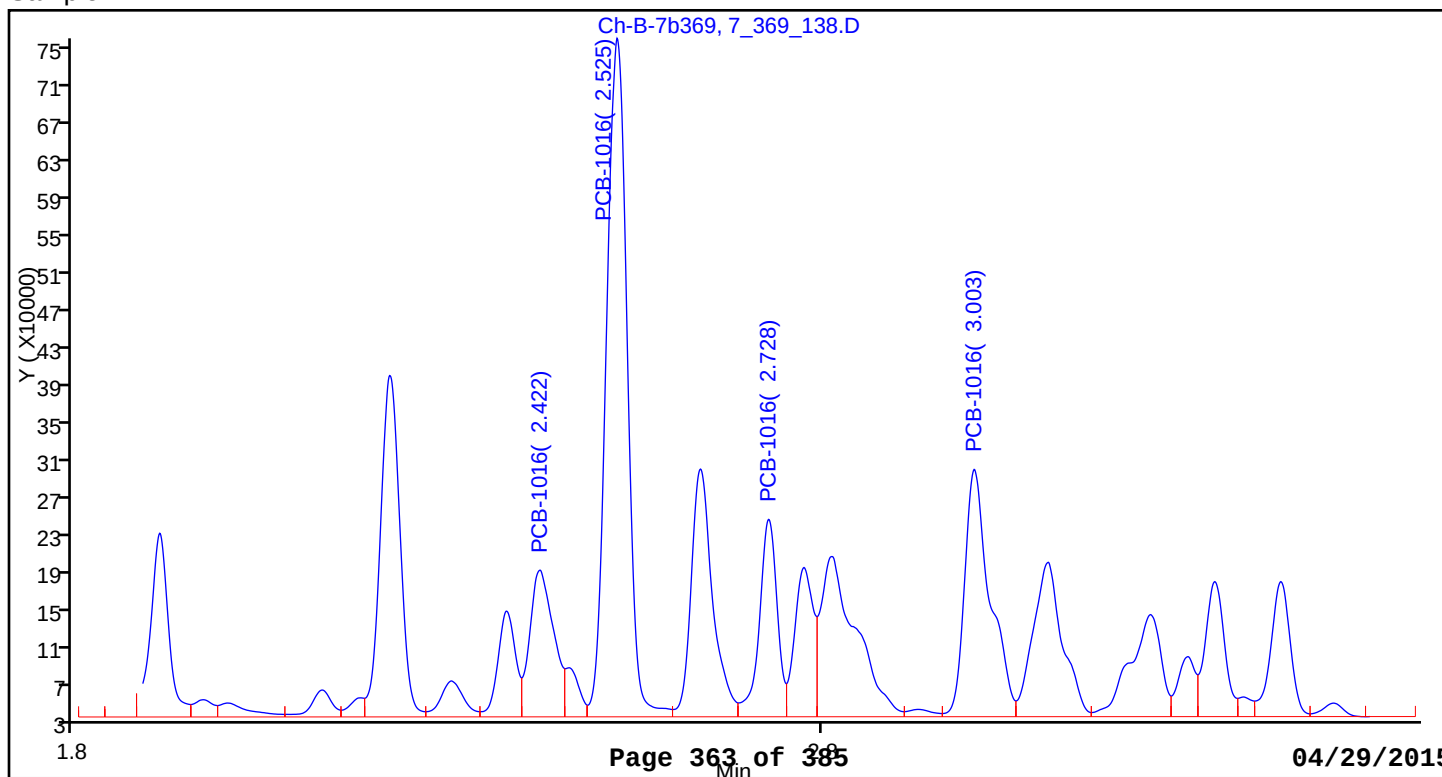
Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



Report Date: 27-Apr-2015 17:12:13

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_138.D

Injection Date: 27-Apr-2015 12:10:14

Instrument ID: HP6890-7

Lims ID: 480-79126-A-1-A MS

Client ID: MW-1S

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

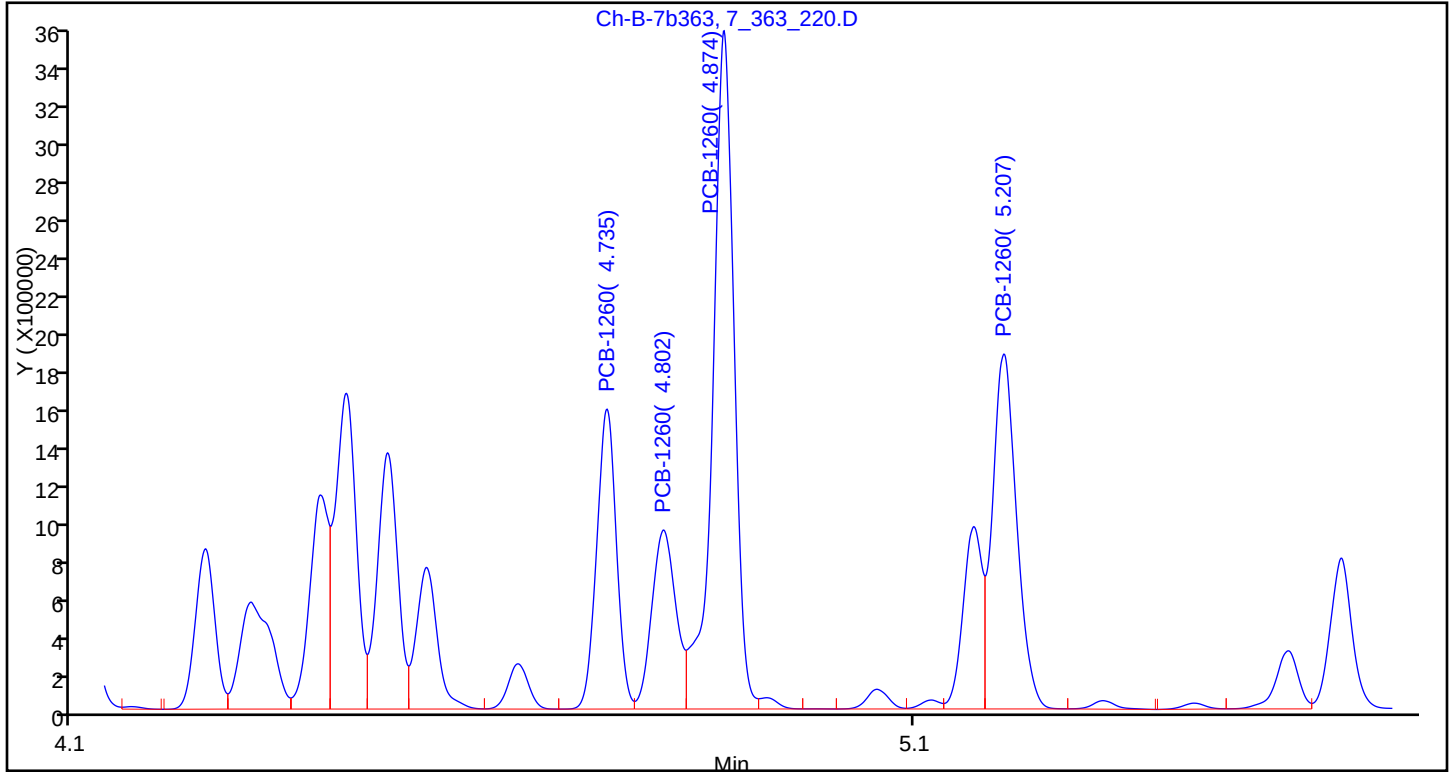
Limit Group: GC - 8082A PCB ICAL

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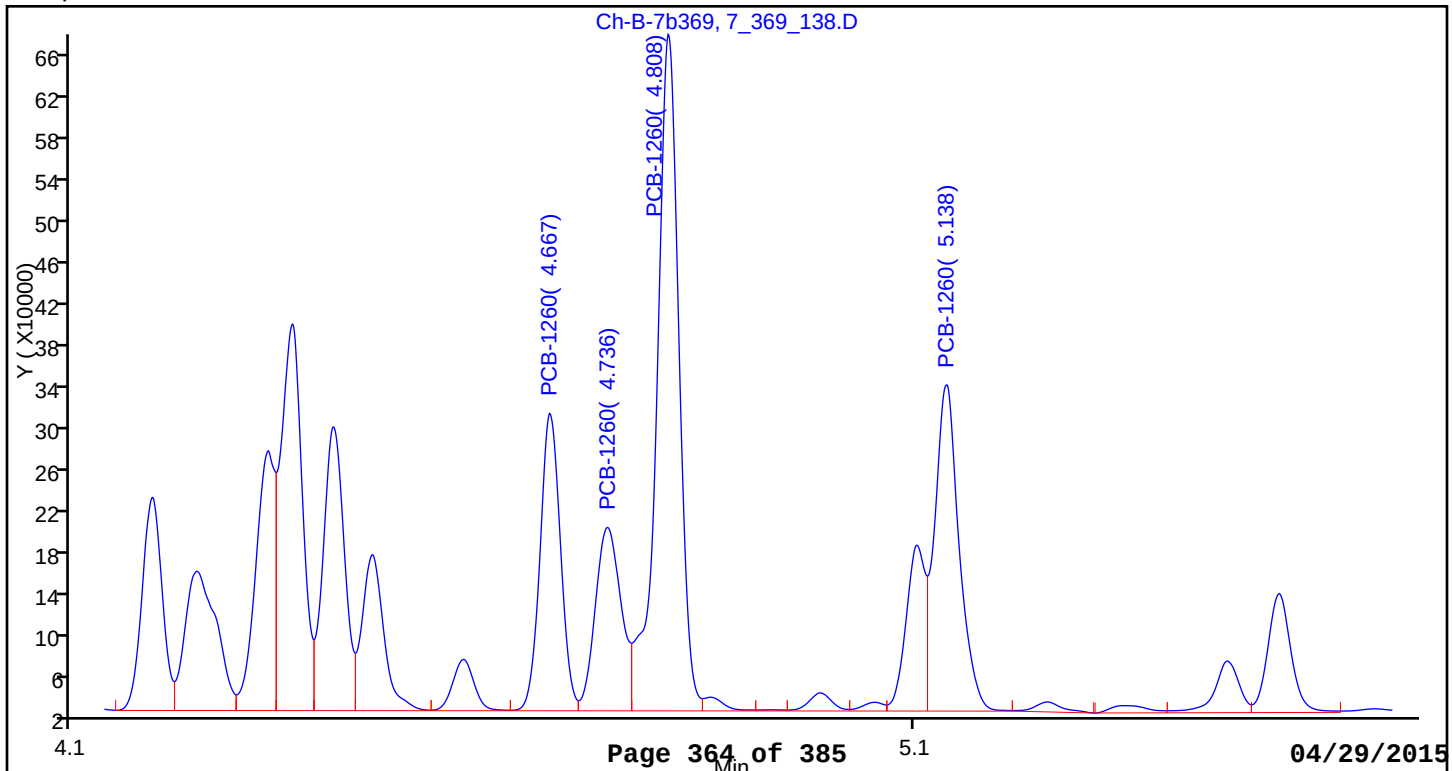
Detector Ch-B-7b136

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

Calibration Sample, Level: 7



Sample



TestAmerica Buffalo

Data File: \\ChromNAIlg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_138.D

Injection Date: 27-Apr-2015 12:10:14

Instrument ID: HP6890-7

Lims ID: 480-79126-A-1-A MS

Client ID: MW-1S

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 10

Injection Vol: 1.0 ul

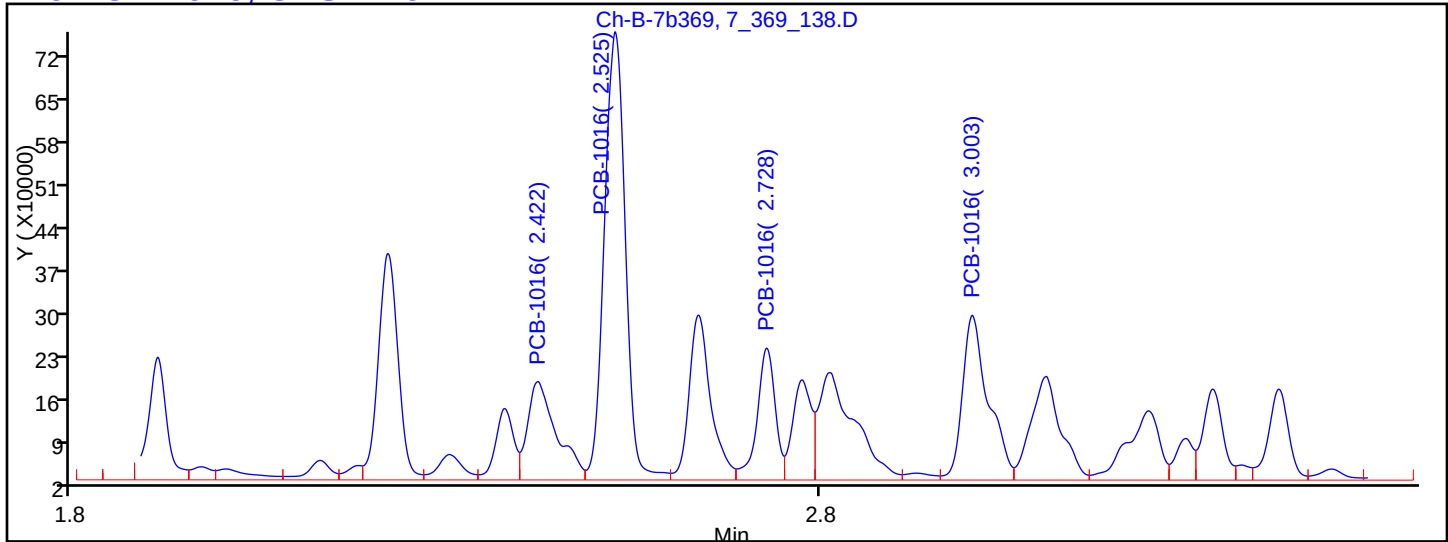
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

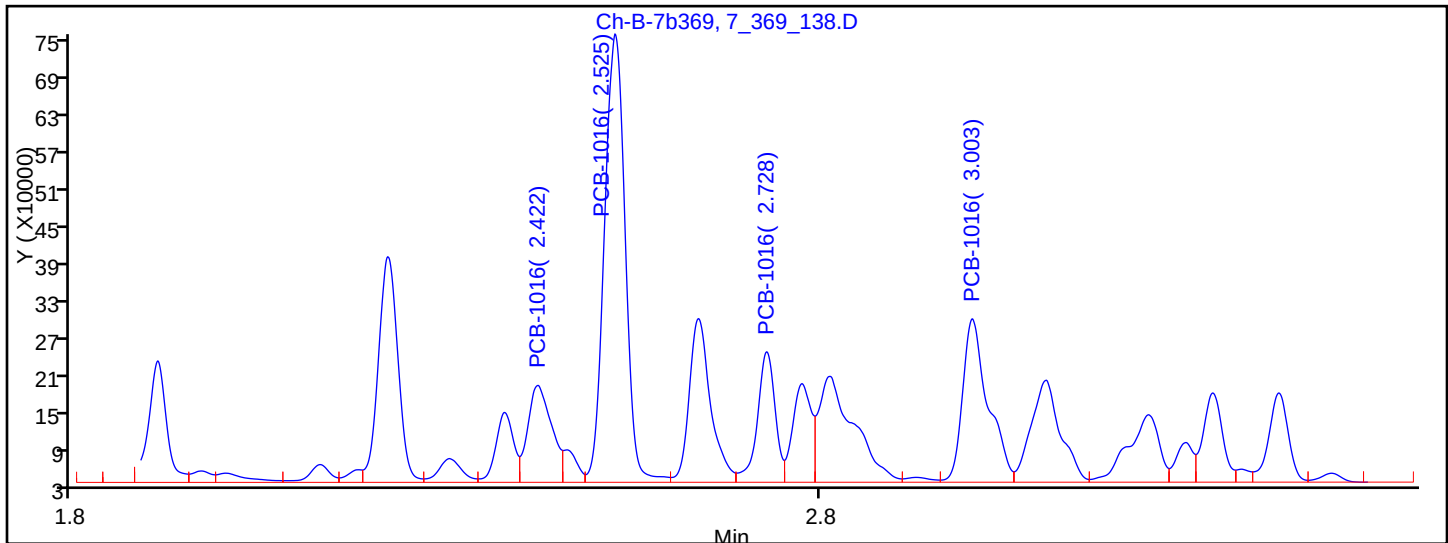
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.422	Response = 425899	M
RT = 2.525	Response = 1414400	M
RT = 2.728	Response = 360585	M
RT = 3.003	Response = 639608	M



Manual Integration Results

RT = 2.422	Response = 343750	M
RT = 2.525	Response = 1393401	M
RT = 2.728	Response = 348248	M
RT = 3.003	Response = 619997	M

Reviewer: sobolk, 27-Apr-2015 17:12:11

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_138.D

Injection Date: 27-Apr-2015 12:10:14

Instrument ID: HP6890-7

Lims ID: 480-79126-A-1-A MS

Client ID: MW-1S

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 10

Injection Vol: 1.0 ul

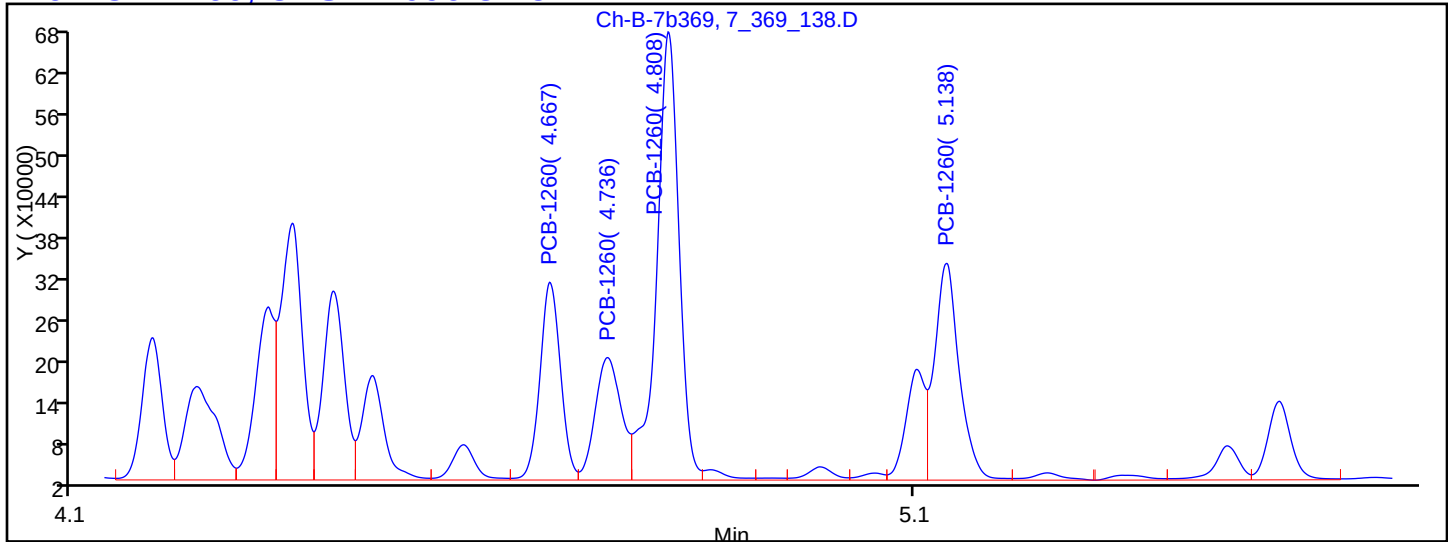
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

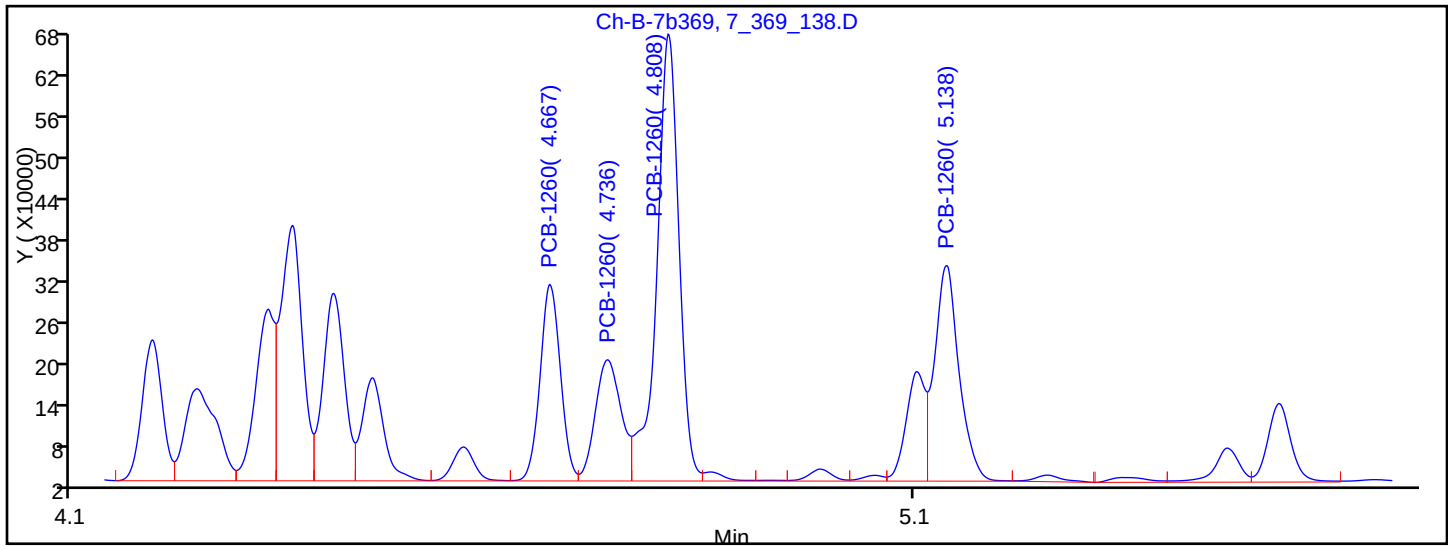
Column:

Detector Ch-B-7b136

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

Processing Integration Results

RT = 4.667	Response = 489909	M
RT = 4.736	Response = 384481	M
RT = 4.808	Response = 1200934	M
RT = 5.138	Response = 638771	M



Manual Integration Results

RT = 4.667	Response = 480531	M
RT = 4.736	Response = 377219	M
RT = 4.808	Response = 1191400	M
RT = 5.138	Response = 628029	M

Reviewer: sobolk, 27-Apr-2015 17:12:11

Audit Action: Assigned New Baseline

Audit Reason: Baseline Smoothing

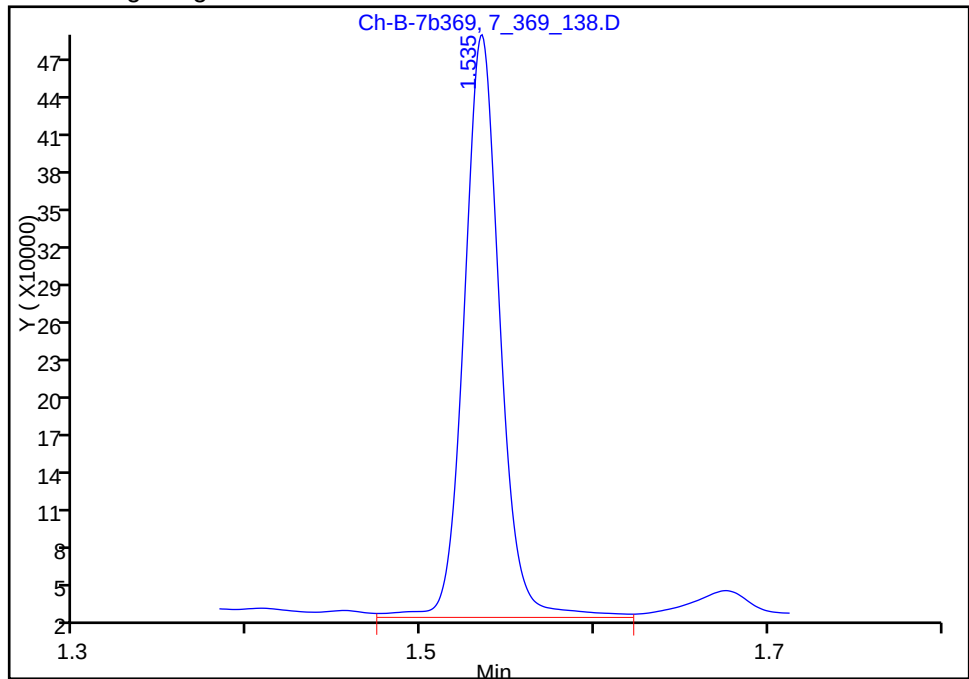
TestAmerica Buffalo

Data File:	\\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_138.D		
Injection Date:	27-Apr-2015 12:10:14	Instrument ID:	HP6890-7
Lims ID:	480-79126-A-1-A MS		
Client ID:	MW-1S		
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#:	10

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

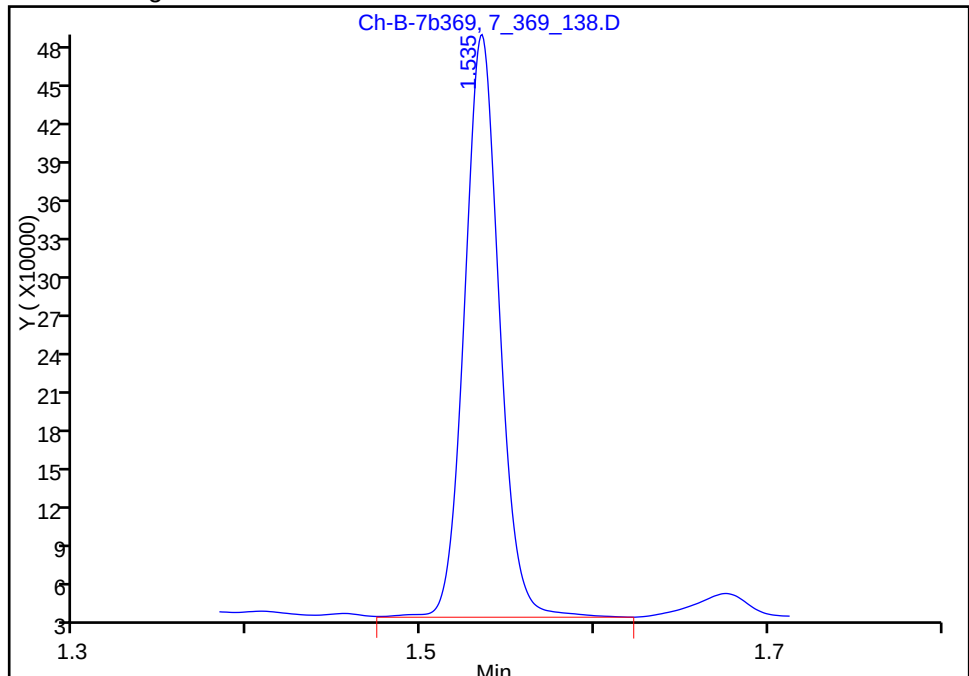
RT: 1.54
Area: 664296
Amount: 0.016907
Amount Units: ng/uL

Processing Integration Results



RT: 1.54
Area: 641912
Amount: 0.016337
Amount Units: ng/uL

Manual Integration Results



Reviewer: sobolk, 27-Apr-2015 17:12:11
Audit Action: Assigned New Baseline
Audit Reason: Baseline Smoothing

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1
 SDG No.: _____
 Client Sample ID: MW-1S MSD Lab Sample ID: 480-79126-1 MSD
 Matrix: Water Lab File ID: 7_369_139.D
 Analysis Method: 8082A Date Collected: 04/22/2015 13:40
 Extraction Method: 3510C Date Extracted: 04/25/2015 09:38
 Sample wt/vol: 238 (mL) Date Analyzed: 04/27/2015 12:26
 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.: 238818 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	PCB-1016	4.21		0.53	0.18
11104-28-2	PCB-1221	0.53	U	0.53	0.18
11141-16-5	PCB-1232	0.53	U	0.53	0.18
53469-21-9	PCB-1242	0.53	U	0.53	0.18
12672-29-6	PCB-1248	0.53	U	0.53	0.18
11097-69-1	PCB-1254	0.53	U	0.53	0.26
11096-82-5	PCB-1260	2.86		0.53	0.26

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	35		19-125
877-09-8	Tetrachloro-m-xylene	77		24-137

TestAmerica Buffalo
Target Compound Quantitation Report

Data File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_139.D
 Lims ID: 480-79126-B-1-A MSD
 Client ID: MW-1S
 Sample Type: MSD
 Inject. Date: 27-Apr-2015 12:26:01 ALS Bottle#: 0 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: buftchrom Instrument ID: HP6890-7
 Method: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150427-41749.b\HP7-PCBS.m
 Limit Group: GC - 8082A PCB ICAL
 Last Update: 27-Apr-2015 17:13:41 Calib Date: 10-Apr-2015 12:06:25
 Integrator: Falcon
 Quant Method: External Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\g6\Buffalo\ChromData\HP6890-07\20150410-41103.b\7_367_220.D
 Column 1 : Det: Ch-A-7A136
 Column 2 : Det: Ch-B-7b136
 Process Host: XAWRK021

First Level Reviewer: sobolk Date: 27-Apr-2015 17:13:41

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

\$ 3 Tetrachloro-m-xylene

1	1.815	1.815	0.000	690001	0.0200	0.0152	
2	1.534	1.534	0.000	602911	0.0200	0.0153	

RPD = 0.65

6 PCB-1016

1	2.715	2.713	0.002	1324366	0.5000	0.4216	M
1	2.797	2.796	0.001	508960	0.5000	0.4109	M
1	2.856	2.855	0.001	351055	0.5000	0.4275	M
1	3.243	3.243	0.001	445211	0.5000	0.4112	M

Average of Peak Amounts = 0.4178

2	2.422	2.421	0.001	341923	0.5000	0.4921	M
2	2.525	2.525	0.000	1331699	0.5000	0.5096	
2	2.728	2.728	0.000	336539	0.5000	0.5055	
2	3.003	3.003	0.000	599050	0.5000	0.4951	

Average of Peak Amounts = 0.5006

RPD = 18.03

9 PCB-1260

1	4.673	4.673	0.001	451099	0.5000	0.3082	M
1	4.859	4.858	0.001	436071	0.5000	0.3173	M
1	5.063	5.064	-0.001	1009047	0.5000	0.3139	M
1	5.299	5.299	0.000	222292	0.5000	0.1434	M

Average of Peak Amounts = 0.2707

2	4.667	4.668	-0.001	448430	0.5000	0.3390	
2	4.735	4.737	-0.002	349553	0.5000	0.3544	
2	4.809	4.809	0.000	1103272	0.5000	0.3557	
2	5.138	5.138	0.000	583996	0.5000	0.3107	

Average of Peak Amounts = 0.3400

RPD = 22.69

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_139.D

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

\$ 12 DCB Decachlorobiphenyl

1	6.502	6.503	0.000	198523	0.0200	0.006737	
2	6.140	6.141	-0.001	191466	0.0200	0.007024	

RPD = 4.18

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

COPPER_00054

Amount Added: 1.00

Units: mL

Run Reagent

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_139.D

Injection Date: 27-Apr-2015 12:26:01

Instrument ID: HP6890-7

Operator ID: buftchrom

Lims ID: 480-79126-B-1-A MSD

Worklist Smp#: 11

Client ID: MW-1S

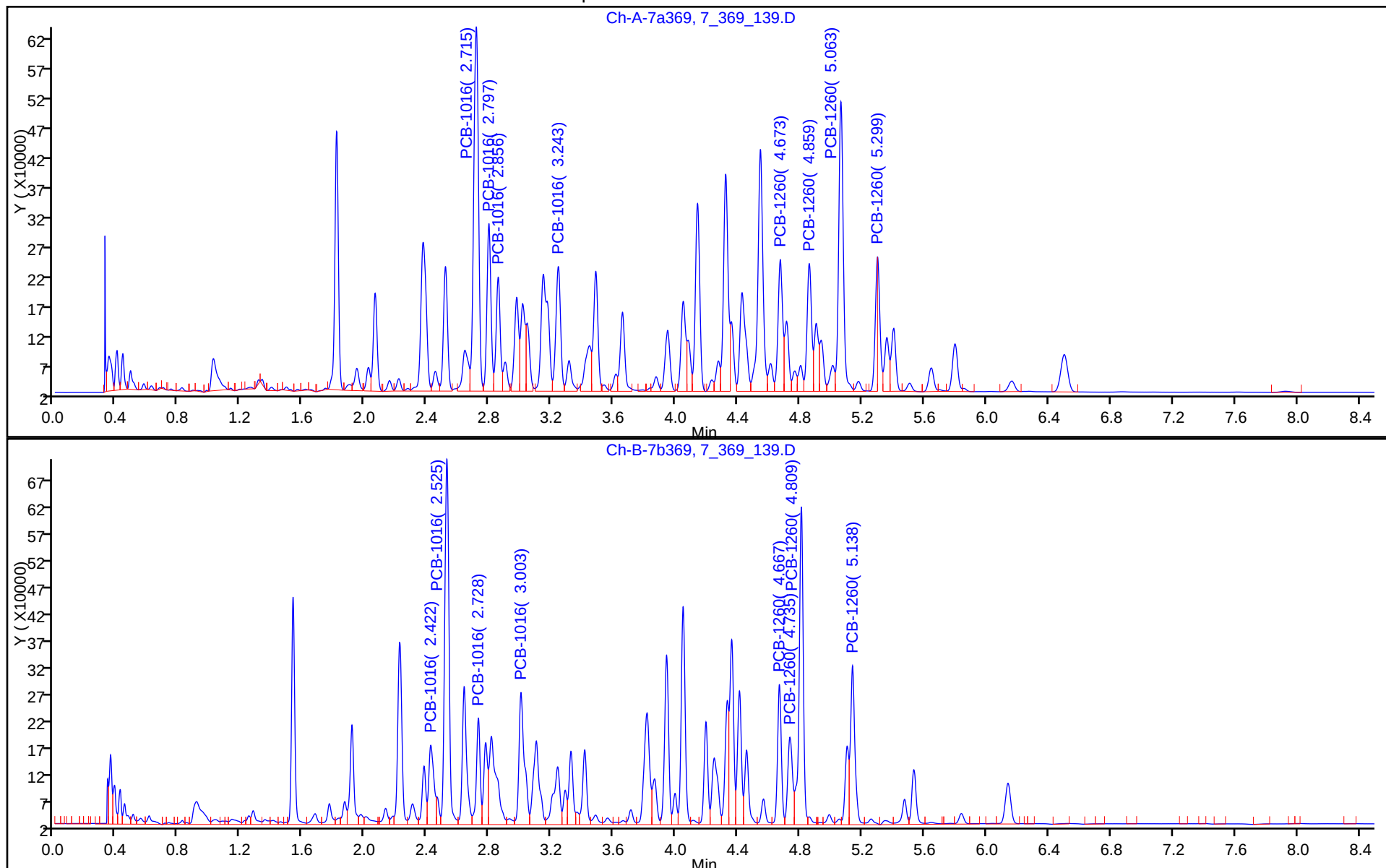
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 0

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL



Report Date: 27-Apr-2015 17:13:44

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_139.D

Injection Date: 27-Apr-2015 12:26:01

Instrument ID: HP6890-7

Lims ID: 480-79126-B-1-A MSD

Client ID: MW-1S

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

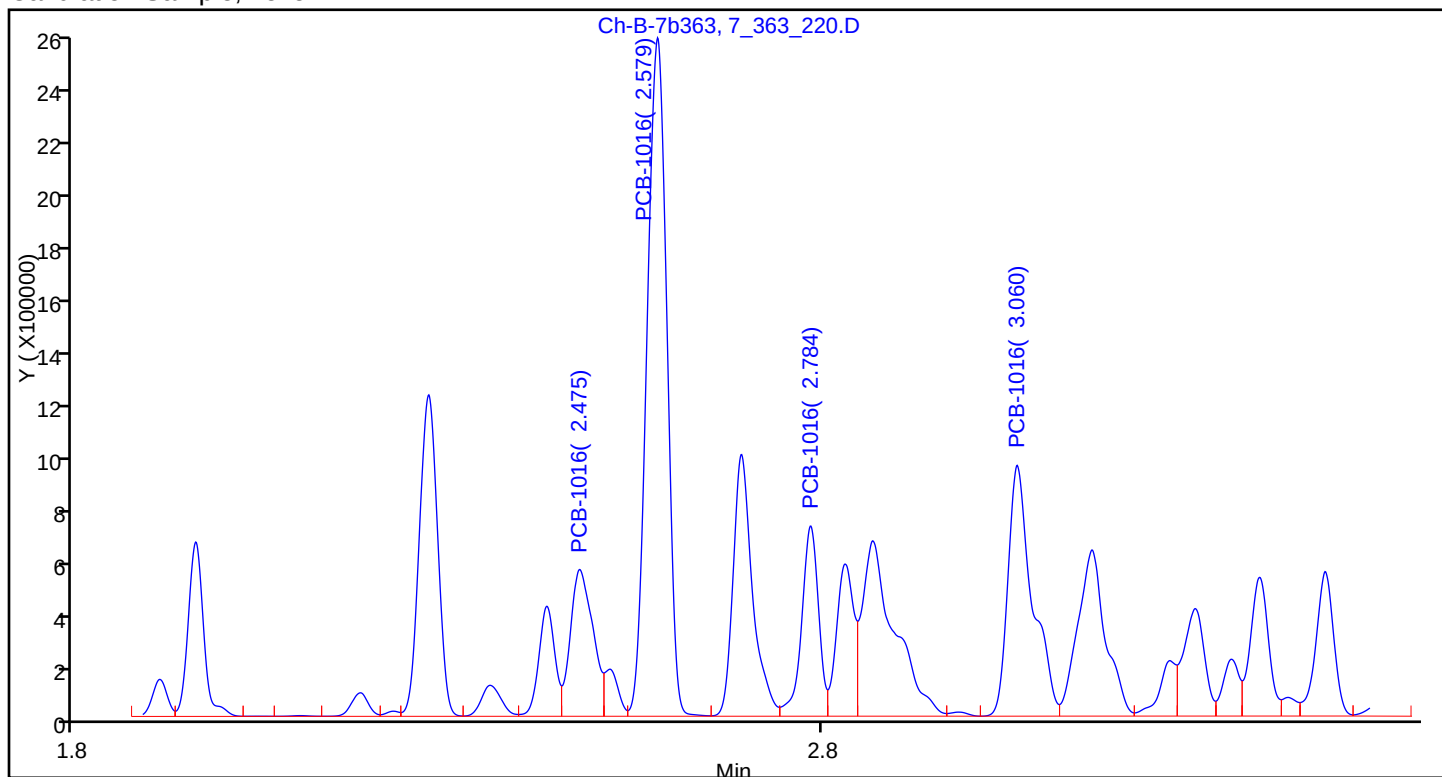
Limit Group: GC - 8082A PCB ICAL

Column:

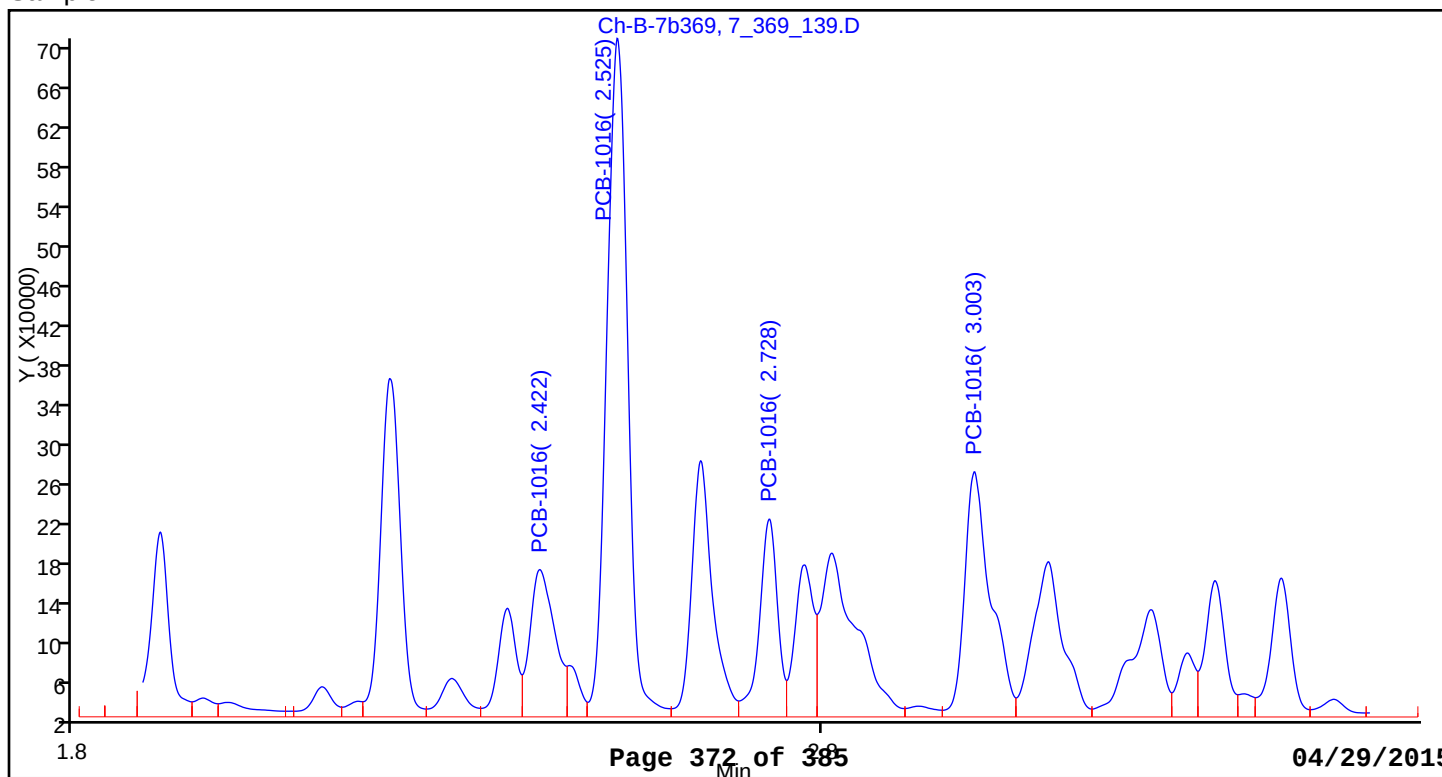
Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Calibration Sample, Level: 7



Sample



Report Date: 27-Apr-2015 17:13:44

Chrom Revision: 2.2 07-Apr-2015 13:11:02

TestAmerica Buffalo

Data File: \\ChromNA\lg6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_139.D

Injection Date: 27-Apr-2015 12:26:01

Instrument ID: HP6890-7

Lims ID: 480-79126-B-1-A MSD

Client ID: MW-1S

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: HP7-PCBS

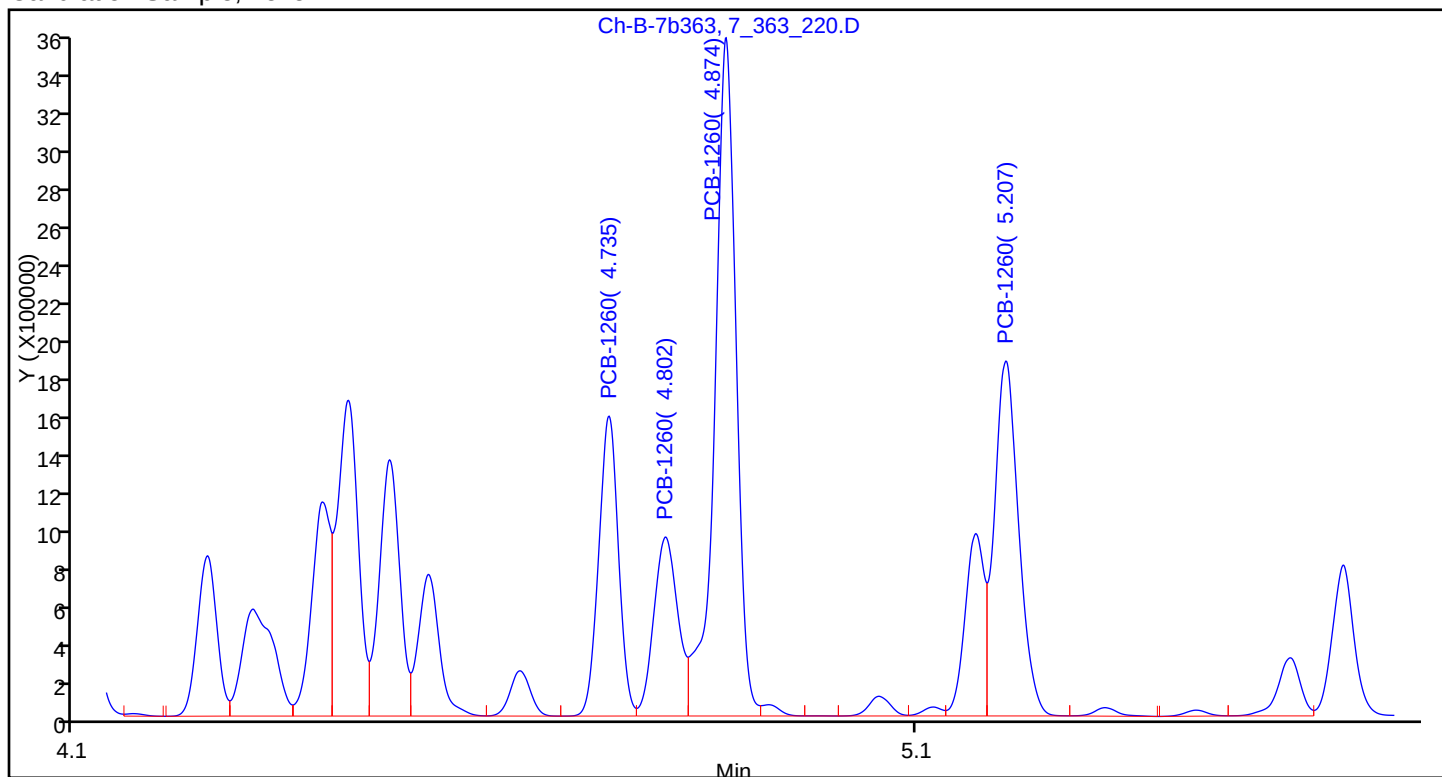
Limit Group: GC - 8082A PCB ICAL

Column:

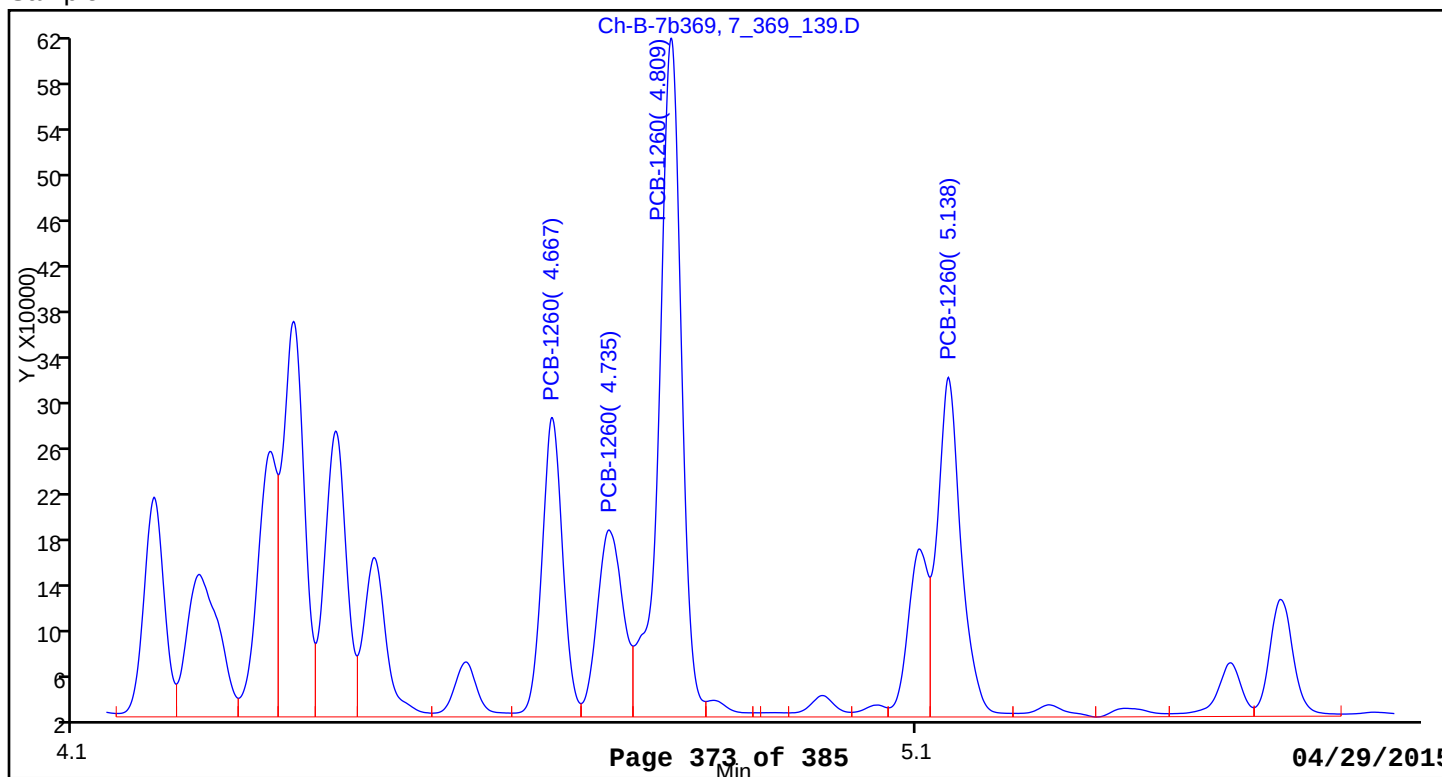
Detector Ch-B-7b136

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

Calibration Sample, Level: 7



Sample



TestAmerica Buffalo

Data File: \\ChromNAI6\Buffalo\ChromData\HP6890-07\20150427-41749.b\7_369_139.D

Injection Date: 27-Apr-2015 12:26:01

Instrument ID: HP6890-7

Lims ID: 480-79126-B-1-A MSD

Client ID: MW-1S

Operator ID: buftchrom

ALS Bottle#: 0

Worklist Smp#: 11

Injection Vol: 1.0 ul

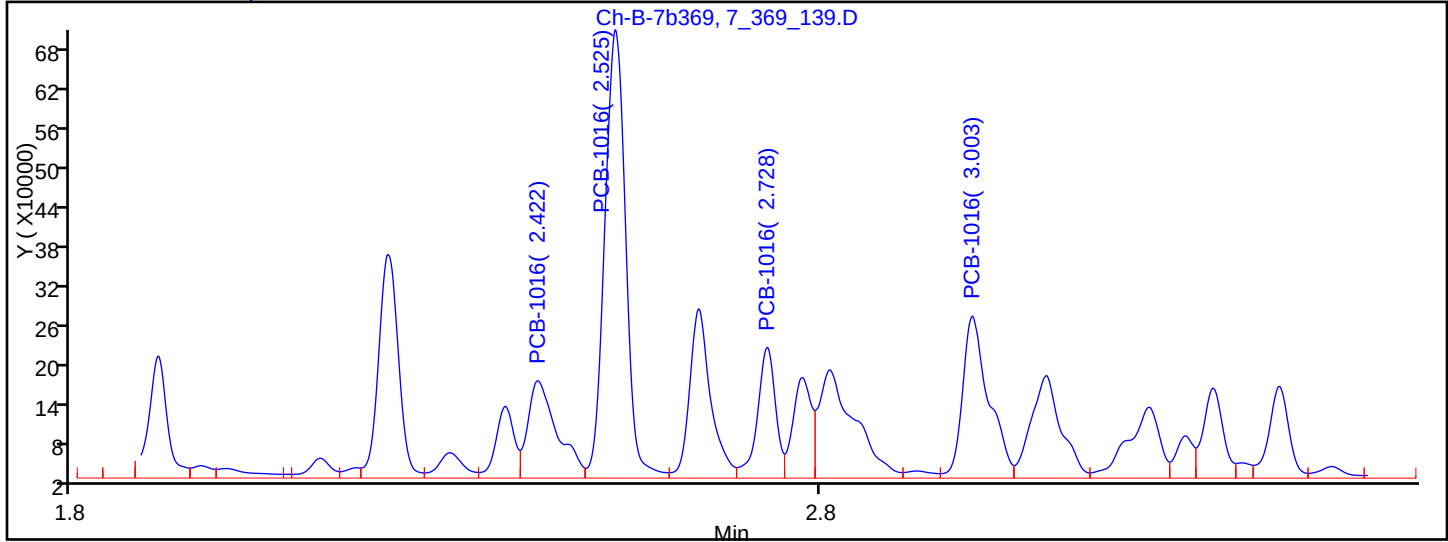
Dil. Factor: 1.0000

Method: HP7-PCBS

Limit Group: GC - 8082A PCB ICAL

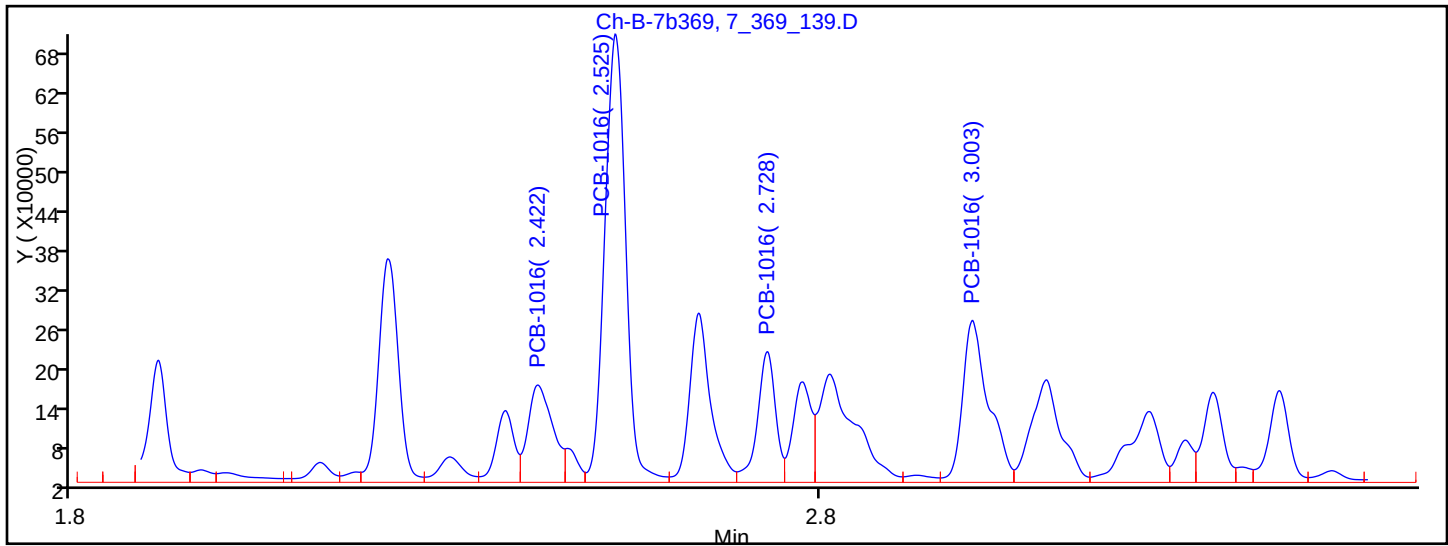
Column:

Detector Ch-B-7b136

6 PCB-1016, CAS: 12674-11-2

Processing Integration Results

RT = 2.422	Response = 400408	M
RT = 2.525	Response = 1331699	
RT = 2.728	Response = 336539	
RT = 3.003	Response = 599050	



Manual Integration Results

RT = 2.422	Response = 341923	M
RT = 2.525	Response = 1331699	
RT = 2.728	Response = 336539	
RT = 3.003	Response = 599050	

Reviewer: sobolk, 27-Apr-2015 17:13:41

Audit Action: Split an Integrated Peak

Audit Reason: Split Peak

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7Start Date: 02/24/2015 15:28Analysis Batch Number: 228096End Date: 02/24/2015 21:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 480-228096/1 IC		02/24/2015 15:28	1	7_363_220.D	ZB-5 0.53 (mm)
STD7 480-228096/1 IC		02/24/2015 15:28	1	7_363_220.D	ZB-35 0.53 (mm)
STD6 480-228096/2 IC		02/24/2015 15:44	1	7_363_221.D	ZB-5 0.53 (mm)
STD6 480-228096/2 IC		02/24/2015 15:44	1	7_363_221.D	ZB-35 0.53 (mm)
STD5 480-228096/3 IC		02/24/2015 16:00	1	7_363_222.D	ZB-5 0.53 (mm)
STD5 480-228096/3 IC		02/24/2015 16:00	1	7_363_222.D	ZB-35 0.53 (mm)
STD4 480-228096/4 IC		02/24/2015 16:16	1	7_363_223.D	ZB-5 0.53 (mm)
STD4 480-228096/4 IC		02/24/2015 16:16	1	7_363_223.D	ZB-35 0.53 (mm)
STD3 480-228096/5 IC		02/24/2015 16:32	1	7_363_224.D	ZB-5 0.53 (mm)
STD3 480-228096/5 IC		02/24/2015 16:32	1	7_363_224.D	ZB-35 0.53 (mm)
STD2 480-228096/6 IC		02/24/2015 16:47	1	7_363_225.D	ZB-5 0.53 (mm)
STD2 480-228096/6 IC		02/24/2015 16:47	1	7_363_225.D	ZB-35 0.53 (mm)
STD1 480-228096/7 IC		02/24/2015 17:03	1	7_363_226.D	ZB-5 0.53 (mm)
STD1 480-228096/7 IC		02/24/2015 17:03	1	7_363_226.D	ZB-35 0.53 (mm)
ICV 480-228096/8		02/24/2015 17:19	1		ZB-5 0.53 (mm)
ICV 480-228096/8		02/24/2015 17:19	1		ZB-35 0.53 (mm)
STD3 480-228096/9 IC		02/24/2015 17:35	1	7_363_228.D	ZB-5 0.53 (mm)
STD3 480-228096/9 IC		02/24/2015 17:35	1	7_363_228.D	ZB-35 0.53 (mm)
STD2 480-228096/10 IC		02/24/2015 17:51	1	7_363_229.D	ZB-5 0.53 (mm)
STD2 480-228096/10 IC		02/24/2015 17:51	1	7_363_229.D	ZB-35 0.53 (mm)
STD1 480-228096/11 IC		02/24/2015 18:07	1	7_363_230.D	ZB-5 0.53 (mm)
STD1 480-228096/11 IC		02/24/2015 18:07	1	7_363_230.D	ZB-35 0.53 (mm)
ICV 480-228096/12		02/24/2015 18:23	1		ZB-5 0.53 (mm)
ICV 480-228096/12		02/24/2015 18:23	1		ZB-35 0.53 (mm)
STD3 480-228096/13 IC		02/24/2015 18:38	1	7_363_232.D	ZB-5 0.53 (mm)
STD3 480-228096/13 IC		02/24/2015 18:38	1	7_363_232.D	ZB-35 0.53 (mm)
STD2 480-228096/14 IC		02/24/2015 18:54	1	7_363_233.D	ZB-5 0.53 (mm)
STD2 480-228096/14 IC		02/24/2015 18:54	1	7_363_233.D	ZB-35 0.53 (mm)
STD1 480-228096/15 IC		02/24/2015 19:10	1	7_363_234.D	ZB-5 0.53 (mm)
STD1 480-228096/15 IC		02/24/2015 19:10	1	7_363_234.D	ZB-35 0.53 (mm)
ICV 480-228096/16		02/24/2015 19:26	1		ZB-5 0.53 (mm)
ICV 480-228096/16		02/24/2015 19:26	1		ZB-35 0.53 (mm)
STD3 480-228096/17 IC		02/24/2015 19:42	1	7_363_236.D	ZB-5 0.53 (mm)
STD3 480-228096/17 IC		02/24/2015 19:42	1	7_363_236.D	ZB-35 0.53 (mm)
STD2 480-228096/18 IC		02/24/2015 19:58	1	7_363_237.D	ZB-5 0.53 (mm)
STD2 480-228096/18 IC		02/24/2015 19:58	1	7_363_237.D	ZB-35 0.53 (mm)
STD1 480-228096/19 IC		02/24/2015 20:14	1	7_363_238.D	ZB-5 0.53 (mm)
STD1 480-228096/19 IC		02/24/2015 20:14	1	7_363_238.D	ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Start Date: 02/24/2015 15:28Analysis Batch Number: 228096 End Date: 02/24/2015 21:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ICV 480-228096/20		02/24/2015 20:30	1		ZB-5 0.53 (mm)
ICV 480-228096/20		02/24/2015 20:30	1		ZB-35 0.53 (mm)
STD3 480-228096/21 IC		02/24/2015 20:45	1	7_363_240.D	ZB-5 0.53 (mm)
STD3 480-228096/21 IC		02/24/2015 20:45	1	7_363_240.D	ZB-35 0.53 (mm)
STD2 480-228096/22 IC		02/24/2015 21:01	1	7_363_241.D	ZB-5 0.53 (mm)
STD2 480-228096/22 IC		02/24/2015 21:01	1	7_363_241.D	ZB-35 0.53 (mm)
STD1 480-228096/23 IC		02/24/2015 21:17	1	7_363_242.D	ZB-5 0.53 (mm)
STD1 480-228096/23 IC		02/24/2015 21:17	1	7_363_242.D	ZB-35 0.53 (mm)
ICV 480-228096/24		02/24/2015 21:33	1		ZB-5 0.53 (mm)
ICV 480-228096/24		02/24/2015 21:33	1		ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Start Date: 04/10/2015 10:47Analysis Batch Number: 235369 End Date: 04/10/2015 12:22

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD7 480-235369/1 IC		04/10/2015 10:47	1	7_367_215.D	ZB-5 0.53 (mm)
STD7 480-235369/1 IC		04/10/2015 10:47	1	7_367_215.D	ZB-35 0.53 (mm)
STD6 480-235369/2 IC		04/10/2015 11:02	1	7_367_216.D	ZB-5 0.53 (mm)
STD6 480-235369/2 IC		04/10/2015 11:02	1	7_367_216.D	ZB-35 0.53 (mm)
STD5 480-235369/3 IC		04/10/2015 11:18	1	7_367_217.D	ZB-5 0.53 (mm)
STD5 480-235369/3 IC		04/10/2015 11:18	1	7_367_217.D	ZB-35 0.53 (mm)
STD4 480-235369/4 IC		04/10/2015 11:34	1	7_367_218.D	ZB-5 0.53 (mm)
STD4 480-235369/4 IC		04/10/2015 11:34	1	7_367_218.D	ZB-35 0.53 (mm)
STD3 480-235369/5 IC		04/10/2015 11:50	1	7_367_219.D	ZB-5 0.53 (mm)
STD3 480-235369/5 IC		04/10/2015 11:50	1	7_367_219.D	ZB-35 0.53 (mm)
STD2 480-235369/6 IC		04/10/2015 12:06	1	7_367_220.D	ZB-5 0.53 (mm)
STD2 480-235369/6 IC		04/10/2015 12:06	1	7_367_220.D	ZB-35 0.53 (mm)
STD1 480-235369/7 IC		04/10/2015 12:22	1		ZB-5 0.53 (mm)
STD1 480-235369/7 IC		04/10/2015 12:22	1		ZB-35 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica BuffaloJob No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7Start Date: 04/27/2015 10:35Analysis Batch Number: 238818End Date: 04/27/2015 19:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-238818/4		04/27/2015 10:35	1	7_369_132.D	ZB-5 0.53 (mm)
CCV 480-238818/4		04/27/2015 10:35	1	7_369_132.D	ZB-35 0.53 (mm)
MB 480-238627/1-A		04/27/2015 11:06	1	7_369_134.D	ZB-5 0.53 (mm)
MB 480-238627/1-A		04/27/2015 11:06	1	7_369_134.D	ZB-35 0.53 (mm)
LCS 480-238627/2-A		04/27/2015 11:22	1	7_369_135.D	ZB-5 0.53 (mm)
LCS 480-238627/2-A		04/27/2015 11:22	1	7_369_135.D	ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 11:38	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 11:38	1		ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 11:54	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 11:54	1		ZB-35 0.53 (mm)
480-79126-1 MS	MW-1S MS	04/27/2015 12:10	1	7_369_138.D	ZB-5 0.53 (mm)
480-79126-1 MS	MW-1S MS	04/27/2015 12:10	1	7_369_138.D	ZB-35 0.53 (mm)
480-79126-1 MSD	MW-1S MSD	04/27/2015 12:26	1	7_369_139.D	ZB-5 0.53 (mm)
480-79126-1 MSD	MW-1S MSD	04/27/2015 12:26	1	7_369_139.D	ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 12:41	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 12:41	1		ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 12:57	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 12:57	1		ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 13:13	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 13:13	1		ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 13:29	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 13:29	1		ZB-35 0.53 (mm)
CCV 480-238818/16		04/27/2015 13:45	1	7_369_144.D	ZB-5 0.53 (mm)
CCV 480-238818/16		04/27/2015 13:45	1	7_369_144.D	ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 14:17	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 14:17	1		ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 14:32	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 14:32	1		ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 14:48	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 14:48	1		ZB-35 0.53 (mm)
ZZZZZ		04/27/2015 15:04	1		ZB-5 0.53 (mm)
ZZZZZ		04/27/2015 15:04	1		ZB-35 0.53 (mm)
480-79126-1	MW-1S	04/27/2015 15:20	1	7_369_150.D	ZB-5 0.53 (mm)
480-79126-1	MW-1S	04/27/2015 15:20	1	7_369_150.D	ZB-35 0.53 (mm)
480-79126-2	MW-1D	04/27/2015 15:36	1	7_369_151.D	ZB-5 0.53 (mm)
480-79126-2	MW-1D	04/27/2015 15:36	1	7_369_151.D	ZB-35 0.53 (mm)
480-79126-3	MW-2S	04/27/2015 15:52	1	7_369_152.D	ZB-5 0.53 (mm)
480-79126-3	MW-2S	04/27/2015 15:52	1	7_369_152.D	ZB-35 0.53 (mm)
480-79126-4	MW-2D	04/27/2015 16:08	1	7_369_153.D	ZB-5 0.53 (mm)
480-79126-4	MW-2D	04/27/2015 16:08	1	7_369_153.D	ZB-35 0.53 (mm)
480-79126-5	MW-3S	04/27/2015 16:23	1	7_369_154.D	ZB-5 0.53 (mm)
480-79126-5	MW-3S	04/27/2015 16:23	1	7_369_154.D	ZB-35 0.53 (mm)
480-79126-6	MW-3D	04/27/2015 16:39	1	7_369_155.D	ZB-5 0.53 (mm)
480-79126-6	MW-3D	04/27/2015 16:39	1	7_369_155.D	ZB-35 0.53 (mm)
CCV 480-238818/28		04/27/2015 16:55	1	7_369_156.D	ZB-5 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Instrument ID: HP6890-7 Start Date: 04/27/2015 10:35Analysis Batch Number: 238818 End Date: 04/27/2015 19:02

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 480-238818/28		04/27/2015 16:55	1	7_369_156.D	ZB-35 0.53 (mm)
480-79126-7	MW-4S	04/27/2015 17:27	1	7_369_158.D	ZB-5 0.53 (mm)
480-79126-7	MW-4S	04/27/2015 17:27	1	7_369_158.D	ZB-35 0.53 (mm)
480-79126-8	MW-4D	04/27/2015 17:43	1	7_369_159.D	ZB-5 0.53 (mm)
480-79126-8	MW-4D	04/27/2015 17:43	1	7_369_159.D	ZB-35 0.53 (mm)
480-79126-9	DUP-1	04/27/2015 17:59	1	7_369_160.D	ZB-5 0.53 (mm)
480-79126-9	DUP-1	04/27/2015 17:59	1	7_369_160.D	ZB-35 0.53 (mm)
480-79126-10	NPPRS	04/27/2015 18:14	1	7_369_161.D	ZB-5 0.53 (mm)
480-79126-10	NPPRS	04/27/2015 18:14	1	7_369_161.D	ZB-35 0.53 (mm)
480-79126-11	SPPRS	04/27/2015 18:30	1	7_369_162.D	ZB-5 0.53 (mm)
480-79126-11	SPPRS	04/27/2015 18:30	1	7_369_162.D	ZB-35 0.53 (mm)
480-79126-12	LEACHATE	04/27/2015 18:46	1	7_369_163.D	ZB-5 0.53 (mm)
480-79126-12	LEACHATE	04/27/2015 18:46	1	7_369_163.D	ZB-35 0.53 (mm)
CCV 480-238818/36		04/27/2015 19:02	1	7_369_164.D	ZB-5 0.53 (mm)
CCV 480-238818/36		04/27/2015 19:02	1	7_369_164.D	ZB-35 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Buffalo Job No.: 480-79126-1

SDG No.: _____

Batch Number: 238627 Batch Start Date: 04/25/15 09:38 Batch Analyst: Schick, Robert JBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	GrossWeight	TareWeight	DensityAcc	InitialAmount	FinalAmount
MB 480-238627/1		3510C, 8082A		7 SU				250 mL	2 mL
LCS 480-238627/2		3510C, 8082A		7 SU				250 mL	2 mL
480-79126-A-1 MS	MW-1S	3510C, 8082A	T	7 SU	436.7 g	174.6 g	No	264.7 mL	2 mL
480-79126-B-1 MSD	MW-1S	3510C, 8082A	T	7 SU	416.9 g	178.9 g		238 mL	2 mL
480-79126-B-1	MW-1S	3510C, 8082A	T	7 SU	440.2 g	175.7 g		264.5 mL	2 mL
480-79126-B-2	MW-1D	3510C, 8082A	T	7 SU	435.6 g	174.5 g		261.1 mL	2 mL
480-79126-A-3	MW-2S	3510C, 8082A	T	7 SU	438.2 g	180.4 g	No	263.1 mL	2 mL
480-79126-B-4	MW-2D	3510C, 8082A	T	7 SU	433.6 g	174.2 g		259.4 mL	2 mL
480-79126-B-5	MW-3S	3510C, 8082A	T	7 SU	434.2 g	174.5 g		259.7 mL	2 mL
480-79126-A-6	MW-3D	3510C, 8082A	T	7 SU	345.4 g	174.3 g		171.1 mL	2 mL
480-79126-A-7	MW-4S	3510C, 8082A	T	7 SU	430.4 g	174.8 g		255.6 mL	2 mL
480-79126-A-8	MW-4D	3510C, 8082A	T	7 SU	435.1 g	174.6 g	No	265.8 mL	2 mL
480-79126-A-9	DUP-1	3510C, 8082A	T	7 SU	435.4 g	174.5 g		260.9 mL	2 mL
480-79126-A-10	NPPRS	3510C, 8082A	T	7 SU				250 mL	2 mL
480-79126-A-11	SPPRS	3510C, 8082A	T	7 SU				250 mL	2 mL
480-79126-A-12	LEACHATE	3510C, 8082A	T	7 SU				250 mL	2 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_608PCBSpike 00008	O_PCBLsurr 00027	AnalysisComment			
MB 480-238627/1		3510C, 8082A			1 mL				
LCS 480-238627/2		3510C, 8082A		1 mL	1 mL				
480-79126-A-1 MS	MW-1S	3510C, 8082A	T	1 mL	1 mL	Density = .99			
480-79126-B-1 MSD	MW-1S	3510C, 8082A	T	1 mL	1 mL	Density = 1.00			
480-79126-B-1	MW-1S	3510C, 8082A	T		1 mL	Density = 1.00			
480-79126-B-2	MW-1D	3510C, 8082A	T		1 mL	Density = 1.00			
480-79126-A-3	MW-2S	3510C, 8082A	T		1 mL	Density = .98			
480-79126-B-4	MW-2D	3510C, 8082A	T		1 mL	Density = 1.00			
480-79126-B-5	MW-3S	3510C, 8082A	T		1 mL	Density = 1.00			

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.: 480-79126-1

SDG No.: _____

Batch Number: 238627 Batch Start Date: 04/25/15 09:38 Batch Analyst: Schick, Robert JBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	O_608PCBSpike 00008	O_PCBLsurr 00027	AnalysisComment			
480-79126-A-6	MW-3D	3510C, 8082A	T		1 mL	Density = 1.00			
480-79126-A-7	MW-4S	3510C, 8082A	T		1 mL	Density = 1.00			
480-79126-A-8	MW-4D	3510C, 8082A	T		1 mL	Density = .98			
480-79126-A-9	DUP-1	3510C, 8082A	T		1 mL	Density = 1.00			
480-79126-A-10	NPPRS	3510C, 8082A	T		1 mL	Density = 1.00			
480-79126-A-11	SPPRS	3510C, 8082A	T		1 mL	Density = 1.00			
480-79126-A-12	LEACHATE	3510C, 8082A	T		1 mL	Density = 1.00			

Batch Notes	
Acid used for Clean Up Reagent	Sulfuric 00086315; JS 4/25/15
Batch Comment	Pipette #M11805B; Tip Lot # D157090M
Person's name who did the concentration	JS,BS
Exchange Solvent Lot #	0000103102
Exchange Solvent Name	Hexane
Na2SO4 Lot Number	0000101643
Prep Solvent Lot #	0000104701
Prep Solvent Name	Methylene Chloride
Prep Solvent Volume Used	60 mL
Person's name who did the prep	BS
Person's name who witnessed reagent drop	BS
Sufficient volume for MS/MSD?	YES

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Shipping and Receiving Documents

TestAmerica Buffalo

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

MENTAL TESTING



480-79126 Chain of Custody

Client Information Client Contact: Mrs. Amber Goodrich/Jeremy Wyckoff Company: ARCADIS U.S. Inc.		Sampler: A. Goodrich/P. Ryan Lab PM: Stone, Judy L. Phone: 518-250-7300 E-Mail: judy.stone@testamericainc.com						
Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7300 (Tel) Email: jeremy.wyckoff@arcadis-us.com Project Name: NYSDC-Standby COLUMBIA MILLS Site: Columbia Mills 60366405		Due Date Requested: TAT Requested (days): Standard PO #: 00266405.00 WO #: Contract D004439 Project #: 48006188 SSOW#:						
Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=oil, A=air)	Field Filtered Sample (Yes or No)	Field Filtered Sample (Yes or No)	Preservation Code	Special Instructions/Note
mw-4S	4/22/15	13:40	G	Water	N	N	8082A - TCL PCBs - OLM04.2	
mw-1D	4/22/15	13:40		Water				
mw-2S	4/22/15	14:45		Water				
mw-2D	4/22/15	15:10		Water				
mw-3S	4/23/15	7:40		Water				
mw-3D	4/23/15	7:45		Water				
mw-4S	4/23/15	7:30		Water				
mw-4D	4/22/15	11:30		Water				
DUP-1				Water				
mw-4S-mS	4/22/15	13:40		Water				
mw-4S-mSD	4/22/15	13:40		Water				

Possible Hazard Identification

☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

Deliverable Requested: I, II, III, IV, Other (specify)

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

☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months

Special Instructions/QC Requirements:

Empty Kit Relinquished by:		Date:	
Relinquished by: <i>Amber Goodrich</i>	Date/Time: 4/23/15 9:40	Company: ARCADIS	Date/Time: 4/23/15 9:40
Relinquished by:	Date/Time:	Company:	Date/Time:
Relinquished by:		Date/Time:	
Custody Seals Intact:		Cooler Temperature(s) °C and Other Remarks: #1 2.7	

TestAmerica Buffalo

10 Hazelwood Drive

Amherst, NY 14228-2298

Phone (716) 691-2600 Fax (716) 691-7991

Chain of Custody Record

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

Client Information Client Contact: Mrs. Amber Goodrich Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 518-250-7300 (Tel) Email: jeremy.wyckoff@arcadis-us.com Project Name: NYSDC-Standby COLUMBIA MILLS Site: Columbia Mills		Sampler: Alexander 10210 Lab PM: Stone, Judy L Phone: 518-250-7300 E-Mail: judy.stone@testamericainc.com		Carrier Tracking No(s): COC No: 480-63806-16246.2 Page: Page 2 of 2 Job #:	
Due Date Requested: TAT Requested (days): PO #: 00266405.00 WO #: Contract D004439 Project #: 48006188 SSOW#:		Analysis Requested			
Sample Identification NPPRS SPDRS Leachate		Sample Date 4/23/15 4/23/15 4/23/15 4/23/15	Sample Time 8:15 8:25 8:30 8:30	Sample Type (C=Comp, G=grab) G G G G	Matrix (W=water, S=solid, O=oil, A=air) Water water water water
Field Filtered Sample (Yes or No) 082A - TCL PCBs - OLM04.2		Field Filtered Sample (Yes or No) 082A - TCL PCBs - OLM04.2		Total Number of Containers 1 1 1 1	
Preservation Codes: A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:		Preservation Codes: M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2S2O3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - ph 4-5 Z - other (specify)		Special Instructions/Note: 45	
Possible Hazard Identification ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological					
Deliverable Requested: I, II, III, IV, Other (specify)					
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month) ☐ Return To Client ☐ Disposal By Lab ☐ Archive For Months					
Special Instructions/QC Requirements:					
Empty Kit Relinquished by:		Date:		Method of Shipment:	
Relinquished by:		Date/Time: 4/23/15 9:40		Company: ARCADIS	
Relinquished by:		Date/Time:		Company:	
Relinquished by:		Date/Time:		Company:	
Custody Seals Intact:		Cooler Temperature(s) °C and Other Remarks:		Date/Time: 4/23/15 9:40 Company: ARCADIS Date/Time: 4/23/15 9:40 Company: ARCADIS Date/Time: 4/23/15 9:40 Company: ARCADIS	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 480-79126-1

Login Number: 79126

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.	False	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	arcadis
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	N/A	
Chlorine Residual checked.	N/A	

APPENDIX C

Well Inspection Logs





GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Columbia Mills PROJECT NUMBER: 0026124105
DATE OF INSPECTION: 4/22/15 INSPECTOR: A. Goodrich
WELL DESIGNATION: mw-15
WELL LOCATION: NW ~~end~~ end of landfill

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height ~ 2 feet N/A ☐
Integrity of Protective Casing Describe: good, no ~~rust~~ bending, but rusted
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☐ Bentonite ☐ Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: _____
Surface Drainage Away from Wellhead ☒ Toward Wellhead ☐
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: yes on steel casing
Lock Present and Functional? Yes ☒ No ☐ Describe: slight rusting
Photograph Taken? Photo # Yes ☒ No ☐ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: good, intact
Integrity of Cap Seal Describe: good (PVC cap)
Surface Water in Casing? Yes ☐ No ☒ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☒ Expansion Plug ☐ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading _____ ppm
Depth to Water (to top of casing) 3.07 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 16.71 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: hard bottom

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Columbianus PROJECT NUMBER: 00266405
DATE OF INSPECTION: 4/22/15 INSPECTOR: A. Goodrich
WELL DESIGNATION: mw-1D
WELL LOCATION: NW ~~1/4~~ end of landfill

Outward Appearance

Flushmount Diameter _____ inches N/A []
Approximate Stickup Height ~2.5 feet N/A []
Integrity of Protective Casing Describe: good but rusted, no bending
Protective Casing Material Steel ☒ Stainless Steel [] Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes [] No ☒
Surface Seal/Apron Material Cement [] Bentonite [] Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: _____
Surface Drainage Away from Wellhead ☒ Toward Wellhead []
Bollards Present? Yes [] No ☒ Describe: _____
Well ID. Visible? Yes ☒ No [] Describe: on steel casing
Lock Present and Functional? Yes ☒ No [] Describe: slightly rusted
Photograph Taken? Photo # Yes ☒ No [] Describe: _____

Inner Appearance

Integrity of Well Casing Describe: good, intact
Integrity of Cap Seal Describe: good - slight rust marks (PVC cap)
Surface Water in Casing Yes ☒ No [] Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel [] Stainless Steel []
Inner Cap Threaded [] Slip ☒ Expansion Plug [] None []
Reference/Measuring Point Groove [] Indelible Mark ☒ None []
Evidence of Double Casing? Yes [] No ☒ Describe: _____

Downhole

Odor Yes [] No ☒ Describe: _____
PID Reading _____ ppm
Depth to Water (to top of casing) 1.04 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A []
Total Well Depth (to top of casing) 28.06 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: Hard bottom

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Columbia Mills PROJECT NUMBER: 00266405
DATE OF INSPECTION: 4/22/15 INSPECTOR: A. Goodrich
WELL DESIGNATION: MW-2S
WELL LOCATION: SW of landfill

Outward Appearance

Flushmount Diameter inches N/A ☒
Approximate Stickup Height 12 feet N/A ☐
Integrity of Protective Casing Describe: good but rusted
Protective Casing Material Steel ☒ Stainless Steel ☐ Other
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☐ Bentonite ☐ Not apparent ☒ Other
Integrity of Surface Seal/Apron Describe:
Surface Drainage Away from Wellhead ☐ Toward Wellhead ☒
Bollards Present? Yes ☒ No ☐ Describe:
Well ID. Visible? Yes ☒ No ☐ Describe: on steel casing
Lock Present and Functional? Yes ☒ No ☐ Describe: slightly rusted
Photograph Taken? Photo # Yes ☒ No ☐ Describe:

Inner Appearance

Integrity of Well Casing Describe: good, intact
Integrity of Cap Seal Describe: PVC cap
Surface Water in Casing Yes ☒ No ☐ Describe:
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☒ Expansion Plug ☐ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe:

Downhole

Odor Yes ☐ No ☒ Describe:
PID Reading ppm
Depth to Water (to top of casing) 9.95 feet (nearest 0.01) Depth to LNAPL feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 17.48 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: hard bottom

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Columbia Mills PROJECT NUMBER: 00266405
DATE OF INSPECTION: 4/22/15 INSPECTOR: A. Goodrich
WELL DESIGNATION: mw-2D
WELL LOCATION: SW of landfill

Outward Appearance

Flushmount Diameter 1 inches N/A ☒
Approximate Stickup Height ~2 feet N/A ☐
Integrity of Protective Casing Describe: good, rusted
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☐ Bentonite ☐ Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: —
Surface Drainage Away from Wellhead ☐ Toward Wellhead ☒
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: on steel casing
Lock Present and Functional? Yes ☒ No ☐ Describe: _____
Photograph Taken? Photo # Yes ☒ No ☐ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: good, intact
Integrity of Cap Seal Describe: PVC cap - good
Surface Water in Casing? Yes ☐ No ☒ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☒ Expansion Plug ☐ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading — ppm
Depth to Water (to top of casing) 9.56 feet (nearest 0.01) Depth to LNAPL — feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 27.44 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: Hard bottom

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Columbia Mills PROJECT NUMBER: 00266405
DATE OF INSPECTION: 4/22/15 INSPECTOR: A. Goodrich
WELL DESIGNATION: mw-3S
WELL LOCATION: NE of landfill

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height ~ 2 feet N/A ☐
Integrity of Protective Casing Describe: Slightly bent @ top but functional, rusted
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☐ Bentonite ☐ Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: _____
Surface Drainage Away from Wellhead ☐ Toward Wellhead ☒
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: on steel casing
Lock Present and Functional? Yes ☒ No ☐ Describe: slightly rusted
Photograph Taken? Photo # Yes ☒ No ☐ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: good, intact
Integrity of Cap Seal Describe: good, PVC cap
Surface Water in Casing? Yes ☐ No ☒ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☒ Expansion Plug ☐ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading _____ ppm
Depth to Water (to top of casing) 5.05 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 17.68 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: hard bottom

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Columbia Mills PROJECT NUMBER: 00366405
DATE OF INSPECTION: 4/22/15 INSPECTOR: A. Goodrich
WELL DESIGNATION: MW-3D
WELL LOCATION: NE of landfill

Outward Appearance

Flushmount Diameter _____ inches N/A []
Approximate Stickup Height 2.5 feet N/A []
Integrity of Protective Casing Describe: good, no bending but rusted
Protective Casing Material Steel ☒ Stainless Steel [] Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes [] No ☒
Surface Seal/Apron Material Cement [] Bentonite [] Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: _____
Surface Drainage Away from Wellhead [] Toward Wellhead ☒
Bollards Present? Yes [] No ☒ Describe: _____
Well ID. Visible? Yes ☒ No [] Describe: on steel casing
Lock Present and Functional? Yes ☒ No [] Describe: Slightly rusted
Photograph Taken? Photo # Yes ☒ No [] Describe: _____

Inner Appearance

Integrity of Well Casing Describe: good, intact
Integrity of Cap Seal Describe: good (pvc cap)
Surface Water in Casing? Yes ☒ No [] Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel [] Stainless Steel []
Inner Cap Threaded [] Slip ☒ Expansion Plug [] None []
Reference/Measuring Point Groove [] Indelible Mark ☒ None []
Evidence of Double Casing? Yes [] No ☒ Describe: _____

Downhole

Odor Yes [] No ☒ Describe: _____
PID Reading _____ ppm
Depth to Water (to top of casing) 14.875 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A []
Total Well Depth (to top of casing) 20.55 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: Hard bottom

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Columbiamills PROJECT NUMBER: 00266405
DATE OF INSPECTION: 4/22/15 INSPECTOR: A. Goodrich
WELL DESIGNATION: mw-45
WELL LOCATION: SE of landfill

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height ~1.5 feet N/A ☐
Integrity of Protective Casing Describe: Bent, broken @ top, touching PVC, rusted
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4 inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☐ Bentonite ☐ Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: _____
Surface Drainage Away from Wellhead ☐ Toward Wellhead ☒
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: top of steel cap
Lock Present and Functional? Yes ☒ No ☐ Describe: Slightly rusted
Photograph Taken? Photo # Yes ☒ No ☐ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: good, intact
Integrity of Cap Seal Describe: good (PVC cap)
Surface Water in Casing? Yes ☒ No ☐ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☒ Expansion Plug ☐ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading _____ ppm
Depth to Water (to top of casing) 9.13 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 14.17 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: Hard bottom

Additional Comments:



GROUNDWATER MONITORING WELL INSPECTION

SITE/PROJECT NAME: Columbia Mills PROJECT NUMBER: 00266405
DATE OF INSPECTION: 4/22/15 INSPECTOR: A. Goodrich
WELL DESIGNATION: MW-4D
WELL LOCATION: SE ~~85~~ of landfill

Outward Appearance

Flushmount Diameter _____ inches N/A ☒
Approximate Stickup Height ~2 feet N/A ☐
Integrity of Protective Casing Describe: Bent, almost touching PVC, rusted
Protective Casing Material Steel ☒ Stainless Steel ☐ Other _____
Protective Casing Width or Dia. 4" inches
Weep Hole in Protective Casing Yes ☐ No ☒
Surface Seal/Apron Material Cement ☐ Bentonite ☐ Not apparent ☒ Other _____
Integrity of Surface Seal/Apron Describe: _____
Surface Drainage Away from Wellhead ☒ Toward Wellhead ☐
Bollards Present? Yes ☐ No ☒ Describe: _____
Well ID. Visible? Yes ☒ No ☐ Describe: on top of steel top
Lock Present and Functional? Yes ☒ No ☐ Describe: Slightly rusted
Photograph Taken? Photo # Yes ☐ No ☐ Describe: _____

Inner Appearance

Integrity of Well Casing Describe: good, intact
Integrity of Cap Seal Describe: good (PVC cap)
Surface Water in Casing? Yes ☐ No ☒ Describe: _____
Well Casing Diameter 2 inches
Well Casing Material PVC ☒ Steel ☐ Stainless Steel ☐
Inner Cap Threaded ☐ Slip ☒ Expansion Plug ☐ None ☐
Reference/Measuring Point Groove ☐ Indelible Mark ☒ None ☐
Evidence of Double Casing? Yes ☐ No ☒ Describe: _____

Downhole

Odor Yes ☐ No ☒ Describe: _____
PID Reading _____ ppm
Depth to Water (to top of casing) 10.37 feet (nearest 0.01) Depth to LNAPL _____ feet (nearest 0.01) N/A ☐
Total Well Depth (to top of casing) 27.12 feet (nearest 0.1)
Sediment (Hard/Soft Bottom) Describe: Hard bottom

Additional Comments:

APPENDIX D

Groundwater Level Data Form





GROUNDWATER LEVEL DATA FORM

PROJECT NAME: Columbia Mills
PROJECT NUMBER: 00266405.00000

DATE: 4/22/2015
PERSONNEL: A.Goodrich
P.Ryan (Precision)

WELL ID	Date	Time	Headspace VOC ppm	Depth to Water (feet)	Total Depth (feet)	Reference Point
MW-1S	4/22/2015	8:15 - 10:30	0.0	3.07	16.77	TOC
MW-1D	4/22/2015	8:15 - 10:30	0.0	1.04	28.06	TOC
MW-2S	4/22/2015	8:15 - 10:30	0.0	9.95	17.48	TOC
MW-2D	4/22/2015	8:15 - 10:30	0.0	9.56	27.44	TOC
MW-3S	4/22/2015	8:15 - 10:30	0.0	5.05	17.68	TOC
MW-3D	4/22/2015	8:15 - 10:30	0.0	14.88	26.55	TOC
MW-4S	4/22/2015	8:15 - 10:30	0.0	9.13	14.17	TOC
MW-4D	4/22/2015	8:15 - 10:30	0.0	10.37	27.12	TOC
LFP-1	4/22/2015	8:15 - 10:30	0.0	17.17	20.14	TOC
LFP-2	4/22/2015	8:15 - 10:30	0.0	12.76	18.15	TOC
LFP-3	4/22/2015	8:15 - 10:30	0.0	13.76	17.10	TOC
LFP-4	4/22/2015	8:15 - 10:30	0.0	13.15	14.65	TOC
LFP-5	4/22/2015	8:15 - 10:30	0.0	16.55	22.54	TOC
LFP-6	4/22/2015	8:15 - 10:30	0.0	12.51	19.72	TOC
LFP-7	4/22/2015	8:15 - 10:30	0.0	DRY	9.87	TOC
LFP-8	4/22/2015	8:15 - 10:30	0.0	12.39	14.98	TOC
LFP-9	4/22/2015	8:15 - 10:30	0.0	17.67	18.68	TOC
LFP-10	4/22/2015	8:15 - 10:30	0.0	14.73	15.69	TOC
LFP-11	4/22/2015	8:15 - 10:30	0.0	22.15	24.97	TOC
LFP-12	4/22/2015	8:15 - 10:30	0.0	14.56	21.69	TOC
LFP-13	4/22/2015	8:15 - 10:30	0.0	5.92	7.90	TOC
LFP-14	4/22/2015	8:15 - 10:30	0.0	25.40	30.98	TOC

Notes: LFP-9 had no cap
LFP-11 had crack in the top of the PVC, but is still functionable

APPENDIX E

Groundwater Sampling Purge Logs





LOW FLOW SAMPLING PURGE LOG

WELL NUMBER: MW-1S DATE: 4/22/2015

PROJECT NAME: Columbia Mills

PROJECT NUMBER: 00266405.0000

SAMPLERS: AG/PR

A: Total Casing and Screen Length: 16.77ft

B: Casing Internal Diameter: 2-inch

C: Water Level Below Top of Casing: 3.07ft

PARAMETER	ACCUMULATED VOLUME PURGED										
Time	12:48	12:53	12:57	13:02	13:07	13:12	13:17	13:22	13:27	13:32	
Gallons	0.60	1.25	1.80	2.25	2.9	3.5	4.1	4.7	5.3	5.9	
Depth to Water (ft)	3.92	4.00	4.07	4.08	4.13	4.15	4.18	4.19	4.21	4.22	
Temperature (°C)	7.05	6.94	6.92	6.92	6.93	7.01	7.05	7.10	7.13	7.14	
pH	7.6	7.41	7.38	7.39	7.37	7.39	7.41	7.40	7.42	7.42	
Redox (mV)	-30	-83	-103	-114	-121	-130	-133	-137	-141	-142	
Conductivity (mS/cm)	0.346	0.346	0.346	0.347	0.346	0.346	0.347	0.347	0.347	0.347	
Turbidity (ntu)	60	44.1	37.6	33.6	24.5	17.4	13.7	9.2	9.0	8.9	
Dissolved Oxygen (mg/l)	0.84	0.58	0.52	0.47	0.44	0.42	0.40	0.39	0.37	0.38	
Salinity (ppt)											
TDS (g/L)											

Notes: Purge started at 12:43

Collected sample for PCBs at 13:40

MS/MSD collected



LOW FLOW SAMPLING PURGE LOG

WELL NUMBER: MW-1D DATE: 4/22/2015

PROJECT NAME: Columbia Mills

PROJECT NUMBER: 00266405.0000

SAMPLERS: AG/PR

A: Total Casing and Screen Length: 28.06ft

B: Casing Internal Diameter: 2-inch

C: Water Level Below Top of Casing: 1.04ft

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	12:55	13:00	13:05	13:10	13:15	13:20	13:25	13:30	13:35	13:40		
Gallons	0.50	1.75	2.50	3.5	4.50	5.0	6.5	7.25	8.25	9.25		
Depth to Water (ft)	2.86	3.01	3.1	3.15	3.3	3.35	3.43	3.48	3.5	3.7		
pH	7.67	7.75	7.56	7.4	7.26	7.52	7.56	7.51	7.49	7.41		
Temperature (°C)	7.66	7.56	7.54	7.56	7.63	7.65	7.68	7.71	7.69	7.68		
Redox (mV)	-53	-99	-98	-94	-90	-107	-106	-107	-105	-102		
Conductivity (mS/cm)	0.414	0.318	0.315	0.314	0.316	0.317	0.320	0.319	0.320	0.323		
Turbidity (ntu)	2.6	1.9	1.0	1.0	0.9	0.9	0.9	0.8	0.8	0.9		
Dissolved Oxygen (mg/l)	4.69	3.68	3.54	3.45	3.25	3.04	3.40	2.65	2.51	2.56		
Salinity (ppt)												
TDS (g/L)												

Notes: At 13:35 pump rate increased

Collected sample at 13:40

DUP-1 collected at 13:45



LOW FLOW SAMPLING PURGE LOG

WELL NUMBER: MW-2S DATE: 4/22/2015

PROJECT NAME: Columbia Mills

PROJECT NUMBER: 00266405.0000

SAMPLERS: AG/PR

A: Total Casing and Screen Length: 17.48ft.

B: Casing Internal Diameter: 2-inch

C: Water Level Below Top of Casing: 9.95ft.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	14:15	14:20	14:25	14:30	14:35	14:40	14:45					
Gallons	0.50	1.25	2.00	2.60	3.50	4.00	5.00					
Depth to Water (ft)	12.3	13.40	14.50	15.07	16.30	17.00	--					
Temperature (°C)	6.70	6.19	6.03	6.12	6.56	6.62	--					
Redox (mV)	84	98	111	120	119	122	125					
pH	7.48	7.35	7.14	7.02	7.12	7.16	7.20					
Conductivity (mS/cm)	0.443	0.379	0.442	0.454	0.456	0.452	0.459					
Turbidity (ntu)	128	69.9	77.5	74.6	51	51.2	50.9					
Dissolved Oxygen (mg/l)	8.30	8.78	7.83	7.48	7.07	7.51	7.57					
Salinity (ppt)												
TDS (g/L)												

Notes: Pump rate changed at 14:35

Collected sample at 14:45



LOW FLOW SAMPLING PURGE LOG

WELL NUMBER: MW-2D DATE: 4/22/2015

PROJECT NAME: Columbia Mills

PROJECT NUMBER: 00266405.0000

SAMPLERS: AG/PR

A: Total Casing and Screen Length: 27.44ft.

B: Casing Internal Diameter: 2-inch

C: Water Level Below Top of Casing: 9.56ft.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	14:17	14:22	14:27	14:32	14:37	14:42	14:47	14:52	14:57	15:02	15:07	
Gallons	0.25	0.70	1.20	1.70	2.10	2.75	3.0	3.5	3.75	4.25	5.0	
Depth to Water (ft)	12.21	13.78	15.68	17.6	18.22	19.19	20.07	20.78	21.27	21.6	21.65	
Temperature (°C)	11.79	11.65	11.4	11.17	10.93	10.47	10.33	10.04	9.75	9.54	9.35	
pH	7.36	7.36	7.35	7.35	7.36	7.32	7.31	7.29	7.29	7.29	7.29	
Redox (mV)	-30	58	69	76	78	85	84	84	83	82	81	
Conductivity (mS/cm)	0.320	0.325	0.326	0.321	0.322	0.325	0.326	0.33	0.329	0.329	0.308	
Turbidity (ntu)	77.5	73.1	64.0	57.8	55.7	26.8	21.5	21.5	20.2	20.3	19.3	
Dissolved Oxygen (mg/l)	4.35	4.01	3.94	4.00	4.08	3.41	2.75	2.31	2.09	2.02	2.00	
Salinity (ppt)	0.0	0.0	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	
TDS (g/L)	0.209	0.211	0.211	0.209	0.209	0.211	0.213	0.215	0.213	0.213	0.207	

Notes: Began purge at 14:14

Turned rate up at 14:23

Sample collected at 15:10



LOW FLOW SAMPLING PURGE LOG

WELL NUMBER: MW-3S DATE: 4/22/2015

PROJECT NAME: Columbia Mills

PROJECT NUMBER: 00266405.0000

SAMPLERS: AG/PR

A: Total Casing and Screen Length: 17.68ft.

B: Casing Internal Diameter: 2-inch

C: Water Level Below Top of Casing: 5.05ft.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	9:41	9:46	9:51	9:56	10:01	10:10						
Gallons	0.4	0.6	0.8	1.3	1.6	Well went dry						
Depth to Water (ft)												
pH	6.38	6.91	7.26	7.50	7.63							
Redox (mV)	216	200	196	195	197							
Conductivity (mS/cm)	0.519	0.501	0.508	0.508	0.505							
Turbidity (ntu)	1.7	1.5	2.6	2.7	3.9							
Dissolved Oxygen (mg/l)	10.44	10.12	10.65	10.25	10.40							
Temperature (°C)	7.11	6.92	6.23	6.02	6.00							
Salinity (ppt)	0.2	0.2	0.2	0.2	0.2							
TDS (g/L)	0.331	0.321	0.325	0.325	0.323							

Notes: Turned up rate at 9:47 and 9:58



LOW FLOW SAMPLING PURGE LOG

WELL NUMBER: MW-3D DATE: 4/22/2015

PROJECT NAME: Columbia Mills

PROJECT NUMBER: 00266405.0000

SAMPLERS: AG/PR

A: Total Casing and Screen Length: 26.55ft.

B: Casing Internal Diameter: 2-inch

C: Water Level Below Top of Casing: 14.88ft.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	9:45	9:50	9:55	10:00	10:05	10:09						
Gallons	0.5	1.0	1.3	1.8	2	Well went dry						
Depth to Water (ft)												
pH	7.12	7.36	7.55	7.63	7.65							
Redox (mV)	120	104	100	103	32							
Conductivity (mS/cm)	0.569	0.568	0.568	0.569	0.562							
Turbidity (ntu)	5.3	3.8	3.5	5.0	7.5							
Dissolved Oxygen (mg/l)	5.26	5.18	4.97	4.45	2.35							
Temperature (°C)	7.91	7.65	7.65	7.72	8.00							
Salinity (ppt)												
TDS (g/L)												

Notes: _____



LOW FLOW SAMPLING PURGE LOG

WELL NUMBER: MW-4S DATE: 4/23/2015

PROJECT NAME: Columbia Mills

PROJECT NUMBER: 00266405.0000

SAMPLERS: AG/PR

A: Total Casing and Screen Length: 14.17ft.

B: Casing Internal Diameter: 2-inch

C: Water Level Below Top of Casing: 9.13ft.

PARAMETER	ACCUMULATED VOLUME PURGED											
Time	6:57	7:02	7:07	7:12	7:17	7:22	7:27					
Gallons	0.10	0.75	1.25	1.7	2.2	2.7	3.20					
Depth to Water (ft)	10.78	11.87	12.24	12.24	12.22	12.22	12.22					
Temperature (°C)	4.84	5.34	5.39	5.42	5.45	5.45	5.46					
pH	7.13	6.84	6.8	6.77	6.75	6.73	6.78					
Redox (mV)	52	34	-2	-19	-27	-30	-30					
Conductivity (mS/cm)	0.419	0.410	0.409	0.407	0.406	0.404	0.404					
Turbidity (ntu)	18.9	15.3	9.3	7.2	7.2	4.7	4.3					
Dissolved Oxygen (mg/l)	5.27	1.99	1.45	1.36	1.31	1.35	1.36					
Salinity (ppt)	0.2	0.2	0.2	0.2	0.2	0.2	0.2					
TDS (g/L)	0.271	0.266	0.266	0.265	0.264	0.263	0.263					

Notes: Began purge at 06:55

Sample collected at 7:30



LOW FLOW SAMPLING PURGE LOG

WELL NUMBER: MW-4D

DATE: 4/22/2015

PROJECT NAME: Columbia Mills

PROJECT NUMBER: 00266405.0000

SAMPLERS: AG/PR

A: Total Casing and Screen Length: 10.37ft.

B: Casing Internal Diameter: 2-inch

C: Water Level Below Top of Casing: 27.12ft.

PARAMETER	ACCUMULATED VOLUME PURGED											
	11:05	11:10	11:15	11:20	11:25							
Time												
Gallons	1.00	1.75	2.5	3.0	3.50							
Depth to Water (ft)	12.30	12.31	12.31	12.32	12.30							
pH	7.87	7.89	7.12	7.57	7.54							
Redox (mV)	176	-33	-48	-49	-47							
Conductivity (mS/cm)	0.583	0.508	0.521	0.486	0.487							
Turbidity (ntu)	4.0	3.3	1.9	1.7	1.6							
Dissolved Oxygen (mg/l)	12.10	12.03	11.77	11.63	11.59							
Temperature (°C)	6.28	6.80	6.87	6.91	6.93							
Salinity (ppt)												
TDS (g/L)												

Notes: Purged approximately 8.4 gallons

Collected sample at 11:30