

ANALYTICAL REPORT

Job Number: 460-144244-1

Job Description: NY Standby - Columbia Mills 2017

Contract Number: TAAT092507-R010110

For:

ARCADIS U.S. Inc

855 Route 146

Suite 210

Clifton Park, NY 12065

Attention: Jasmine Mullins



Approved for release.
Judy L. Stone
Senior Project Manager
11/22/2017 5:48 PM

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11/22/2017

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Job Narrative
460-144244-1

Comments

No additional comments.

Receipt

The samples were received on 11/2/2017 9:10 AM; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 3.4° C and 3.9° C.

GC/MS VOA

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

GC Semi VOA

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

LCMS

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

Organic Prep

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

VOA Prep

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

Sample Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
460-144244-1	MW-1S	Water	10/31/17 15:25	11/02/17 09:10
460-144244-2	MW-1D	Water	10/31/17 15:25	11/02/17 09:10
460-144244-3	MW-2S	Water	11/01/17 10:25	11/02/17 09:10
460-144244-4	MW-2D	Water	11/01/17 10:40	11/02/17 09:10
460-144244-5	MW-3S	Water	10/31/17 17:10	11/02/17 09:10
460-144244-6	MW-3D	Water	11/01/17 12:55	11/02/17 09:10
460-144244-7	MW-4S	Water	11/01/17 12:20	11/02/17 09:10
460-144244-8	MW-4D	Water	11/01/17 12:30	11/02/17 09:10
460-144244-9	NPPRS	Water	10/31/17 12:50	11/02/17 09:10
460-144244-10	SPPRS	Water	10/31/17 12:30	11/02/17 09:10
460-144244-11	EB-PROBE	Water	10/31/17 11:10	11/02/17 09:10
460-144244-12	EB-TUBING	Water	10/31/17 11:25	11/02/17 09:10
460-144244-13	FB-X	Water	11/01/17 13:15	11/02/17 09:10
460-144244-14	Leachate	Water	10/31/17 12:05	11/02/17 09:10
460-144244-15	MW-X-DUP	Water	10/31/17 00:00	11/02/17 09:10
460-144244-16	Trip Blank	Water	11/01/17 00:00	11/02/17 09:10

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-1S

Lab Sample ID: 460-144244-1

No Detections.

Client Sample ID: MW-1D

Lab Sample ID: 460-144244-2

No Detections.

Client Sample ID: MW-2S

Lab Sample ID: 460-144244-3

No Detections.

Client Sample ID: MW-2D

Lab Sample ID: 460-144244-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.95	J	2.00	0.75	ng/L	1			WS-LC-0025 At1	Total/NA

Client Sample ID: MW-3S

Lab Sample ID: 460-144244-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	25.9		2.00	0.80	ng/L	1			WS-LC-0025 At1	Total/NA
Perfluorooctanoic acid (PFOA)	43.4		2.00	0.75	ng/L	1			WS-LC-0025 At1	Total/NA
Perfluorononanoic acid (PFNA)	1.48	J	2.00	0.65	ng/L	1			WS-LC-0025 At1	Total/NA

Client Sample ID: MW-3D

Lab Sample ID: 460-144244-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorooctanoic acid (PFOA)	0.89	J	2.00	0.75	ng/L	1			WS-LC-0025 At1	Total/NA

Client Sample ID: MW-4S

Lab Sample ID: 460-144244-7

No Detections.

Client Sample ID: MW-4D

Lab Sample ID: 460-144244-8

No Detections.

Client Sample ID: NPPRS

Lab Sample ID: 460-144244-9

No Detections.

Client Sample ID: SPPRS

Lab Sample ID: 460-144244-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	0.99	J	2.00	0.92	ng/L	1			WS-LC-0025 At1	Total/NA

Client Sample ID: EB-PROBE

Lab Sample ID: 460-144244-11

No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Detection Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: EB-TUBING

Lab Sample ID: 460-144244-12

☐ No Detections.

Client Sample ID: FB-X

Lab Sample ID: 460-144244-13

☐ No Detections.

Client Sample ID: Leachate

Lab Sample ID: 460-144244-14

☐ No Detections.

Client Sample ID: MW-X-DUP

Lab Sample ID: 460-144244-15

☐ No Detections.

Client Sample ID: Trip Blank

Lab Sample ID: 460-144244-16

☐ No Detections.

This Detection Summary does not include radiochemical test results.

TestAmerica Edison

Method Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Method	Method Description	Protocol	Laboratory
8260C SIM	Volatile Organic Compounds (GC/MS)	SW846	TAL EDI
8082A	Polychlorinated Biphenyls (PCBs) by Gas Chromatography	SW846	TAL EDI
WS-LC-0025 At1	Fluorinated Alkyl Substances	TAL-SAC	TAL SAC

Protocol References:

SW846 = "Test Methods For Evaluating Solid Waste, Physical/Chemical Methods", Third Edition, November 1986 And Its Updates.
TAL-SAC = TestAmerica Laboratories, West Sacramento, Facility Standard Operating Procedure.

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900
TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-1S

Date Collected: 10/31/17 15:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L	—		11/03/17 13:09	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		71 - 144					11/03/17 13:09	1
4-Bromofluorobenzene	92		72 - 133					11/03/17 13:09	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L	—	11/04/17 09:36	11/06/17 11:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	40		10 - 150				11/04/17 09:36	11/06/17 11:08	1
DCB Decachlorobiphenyl	40		10 - 150				11/04/17 09:36	11/06/17 11:08	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L	—	11/20/17 09:48	11/21/17 01:04	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L	—	11/20/17 09:48	11/21/17 01:04	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L	—	11/20/17 09:48	11/21/17 01:04	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L	—	11/20/17 09:48	11/21/17 01:04	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L	—	11/20/17 09:48	11/21/17 01:04	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L	—	11/20/17 09:48	11/21/17 01:04	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		25 - 150				11/20/17 09:48	11/21/17 01:04	1
13C4-PFHxS	100		25 - 150				11/20/17 09:48	11/21/17 01:04	1
13C4 PFOA	97		25 - 150				11/20/17 09:48	11/21/17 01:04	1
13C4 PFOS	99		25 - 150				11/20/17 09:48	11/21/17 01:04	1
13C5 PFNA	95		25 - 150				11/20/17 09:48	11/21/17 01:04	1

Client Sample ID: MW-1D

Date Collected: 10/31/17 15:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L	—		11/03/17 13:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	115		71 - 144					11/03/17 13:33	1
4-Bromofluorobenzene	90		72 - 133					11/03/17 13:33	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-1D

Date Collected: 10/31/17 15:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:03	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:03	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:03	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:03	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:03	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:03	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:03	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:03	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:03	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	54		10 - 150	11/04/17 09:36	11/06/17 20:03	1
DCB Decachlorobiphenyl	54		10 - 150	11/04/17 09:36	11/06/17 20:03	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 01:59	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 01:59	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 01:59	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 01:59	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 01:59	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 01:59	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	99		25 - 150	11/20/17 09:48	11/21/17 01:59	1
13C4-PFHxS	99		25 - 150	11/20/17 09:48	11/21/17 01:59	1
13C4 PFOA	98		25 - 150	11/20/17 09:48	11/21/17 01:59	1
13C4 PFOS	98		25 - 150	11/20/17 09:48	11/21/17 01:59	1
13C5 PFNA	98		25 - 150	11/20/17 09:48	11/21/17 01:59	1

Client Sample ID: MW-2S

Date Collected: 11/01/17 10:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 13:57	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		71 - 144		11/03/17 13:57	1
4-Bromofluorobenzene	90		72 - 133		11/03/17 13:57	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:27	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:27	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:27	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:27	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:27	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:27	1

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Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-2S

Date Collected: 11/01/17 10:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:27	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:27	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:27	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:27	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	62		10 - 150	11/04/17 09:36	11/06/17 20:27	1
DCB Decachlorobiphenyl	62		10 - 150	11/04/17 09:36	11/06/17 20:27	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 02:18	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 02:18	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 02:18	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 02:18	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 02:18	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 02:18	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	106		25 - 150	11/20/17 09:48	11/21/17 02:18	1
13C4-PFHxPA	106		25 - 150	11/20/17 09:48	11/21/17 02:18	1
13C4 PFOA	104		25 - 150	11/20/17 09:48	11/21/17 02:18	1
13C4 PFOS	106		25 - 150	11/20/17 09:48	11/21/17 02:18	1
13C5 PFNA	101		25 - 150	11/20/17 09:48	11/21/17 02:18	1

Client Sample ID: MW-2D

Date Collected: 11/01/17 10:40

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 14:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	113		71 - 144		11/03/17 14:21	1
4-Bromofluorobenzene	88		72 - 133		11/03/17 14:21	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:50	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:50	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:50	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:50	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:50	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:50	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:50	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:50	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 20:50	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 20:50	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	49		10 - 150	11/04/17 09:36	11/06/17 20:50	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-2D

Date Collected: 11/01/17 10:40

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-4

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	47		10 - 150	11/04/17 09:36	11/06/17 20:50	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 02:36	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 02:36	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 02:36	1
Perfluorooctanoic acid (PFOA)	0.95	J	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 02:36	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 02:36	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 02:36	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	108		25 - 150				11/20/17 09:48	11/21/17 02:36	1
13C4-PFHxPA	107		25 - 150				11/20/17 09:48	11/21/17 02:36	1
13C4 PFOA	107		25 - 150				11/20/17 09:48	11/21/17 02:36	1
13C4 PFOS	105		25 - 150				11/20/17 09:48	11/21/17 02:36	1
13C5 PFNA	108		25 - 150				11/20/17 09:48	11/21/17 02:36	1

Client Sample ID: MW-3S

Date Collected: 10/31/17 17:10

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 14:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	121		71 - 144					11/03/17 14:45	1
4-Bromofluorobenzene	93		72 - 133					11/03/17 14:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:14	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:14	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:14	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:14	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:14	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 21:14	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 21:14	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 21:14	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 21:14	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:14	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	37		10 - 150				11/04/17 09:36	11/06/17 21:14	1
DCB Decachlorobiphenyl	35		10 - 150				11/04/17 09:36	11/06/17 21:14	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 02:54	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 02:54	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-3S

Date Collected: 10/31/17 17:10

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-5

Matrix: Water

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluoroheptanoic acid (PFHpA)	25.9		2.00	0.80	ng/L		11/20/17 09:48	11/21/17 02:54	1
Perfluorooctanoic acid (PFOA)	43.4		2.00	0.75	ng/L		11/20/17 09:48	11/21/17 02:54	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 02:54	1
Perfluorononanoic acid (PFNA)	1.48	J	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 02:54	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		25 - 150				11/20/17 09:48	11/21/17 02:54	1
13C4-PFHpA	104		25 - 150				11/20/17 09:48	11/21/17 02:54	1
13C4 PFOA	102		25 - 150				11/20/17 09:48	11/21/17 02:54	1
13C4 PFOS	101		25 - 150				11/20/17 09:48	11/21/17 02:54	1
13C5 PFNA	102		25 - 150				11/20/17 09:48	11/21/17 02:54	1

Client Sample ID: MW-3D

Date Collected: 11/01/17 12:55

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 15:08	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		71 - 144					11/03/17 15:08	1
4-Bromofluorobenzene	87		72 - 133					11/03/17 15:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:37	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:37	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:37	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:37	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:37	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 21:37	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 21:37	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 21:37	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 21:37	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 21:37	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		10 - 150				11/04/17 09:36	11/06/17 21:37	1
DCB Decachlorobiphenyl	45		10 - 150				11/04/17 09:36	11/06/17 21:37	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 03:31	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 03:31	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 03:31	1
Perfluorooctanoic acid (PFOA)	0.89	J	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 03:31	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 03:31	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 03:31	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		25 - 150				11/20/17 09:48	11/21/17 03:31	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-3D

Date Collected: 11/01/17 12:55

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-6

Matrix: Water

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4-PFHpA	99		25 - 150	11/20/17 09:48	11/21/17 03:31	1
13C4 PFOA	101		25 - 150	11/20/17 09:48	11/21/17 03:31	1
13C4 PFOS	102		25 - 150	11/20/17 09:48	11/21/17 03:31	1
13C5 PFNA	99		25 - 150	11/20/17 09:48	11/21/17 03:31	1

Client Sample ID: MW-4S

Date Collected: 11/01/17 12:20

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L	-		11/03/17 15:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	117		71 - 144					11/03/17 15:32	1
4-Bromofluorobenzene	88		72 - 133					11/03/17 15:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:00	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:00	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:00	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:00	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:00	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:00	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:00	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:00	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:00	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:00	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	45		10 - 150				11/04/17 09:36	11/06/17 22:00	1
DCB Decachlorobiphenyl	39		10 - 150				11/04/17 09:36	11/06/17 22:00	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 03:49	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 03:49	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 03:49	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 03:49	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 03:49	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 03:49	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	105		25 - 150				11/20/17 09:48	11/21/17 03:49	1
13C4-PFHpA	104		25 - 150				11/20/17 09:48	11/21/17 03:49	1
13C4 PFOA	104		25 - 150				11/20/17 09:48	11/21/17 03:49	1
13C4 PFOS	103		25 - 150				11/20/17 09:48	11/21/17 03:49	1
13C5 PFNA	104		25 - 150				11/20/17 09:48	11/21/17 03:49	1

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-4D

Date Collected: 11/01/17 12:30

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 15:56	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	119		71 - 144					11/03/17 15:56	1
4-Bromofluorobenzene	91		72 - 133					11/03/17 15:56	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:24	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:24	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:24	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:24	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:24	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:24	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:24	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:24	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:24	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:24	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	45		10 - 150				11/04/17 09:36	11/06/17 22:24	1
DCB Decachlorobiphenyl	34		10 - 150				11/04/17 09:36	11/06/17 22:24	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 04:08	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 04:08	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 04:08	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 04:08	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 04:08	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 04:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	100		25 - 150				11/20/17 09:48	11/21/17 04:08	1
13C4-PFHxS	102		25 - 150				11/20/17 09:48	11/21/17 04:08	1
13C4 PFOA	100		25 - 150				11/20/17 09:48	11/21/17 04:08	1
13C4 PFOS	99		25 - 150				11/20/17 09:48	11/21/17 04:08	1
13C5 PFNA	98		25 - 150				11/20/17 09:48	11/21/17 04:08	1

Client Sample ID: NPPRS

Date Collected: 10/31/17 12:50

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 16:20	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		71 - 144					11/03/17 16:20	1
4-Bromofluorobenzene	88		72 - 133					11/03/17 16:20	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: NPPRS

Date Collected: 10/31/17 12:50

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-9

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:48	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:48	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:48	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:48	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:48	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:48	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:48	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:48	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 22:48	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 22:48	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	55		10 - 150	11/04/17 09:36	11/06/17 22:48	1
DCB Decachlorobiphenyl	56		10 - 150	11/04/17 09:36	11/06/17 22:48	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 04:26	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 04:26	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 04:26	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 04:26	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 04:26	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 04:26	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	106		25 - 150	11/20/17 09:48	11/21/17 04:26	1
13C4-PFHpA	109		25 - 150	11/20/17 09:48	11/21/17 04:26	1
13C4 PFOA	107		25 - 150	11/20/17 09:48	11/21/17 04:26	1
13C4 PFOS	104		25 - 150	11/20/17 09:48	11/21/17 04:26	1
13C5 PFNA	108		25 - 150	11/20/17 09:48	11/21/17 04:26	1

Client Sample ID: SPPRS

Date Collected: 10/31/17 12:30

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 16:44	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		71 - 144		11/03/17 16:44	1
4-Bromofluorobenzene	87		72 - 133		11/03/17 16:44	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 14:03	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 14:03	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 14:03	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 14:03	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 14:03	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 14:03	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: SPPRS

Date Collected: 10/31/17 12:30

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 14:03	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 14:03	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 14:03	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 14:03	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		10 - 150	11/04/17 09:36	11/07/17 14:03	1
DCB Decachlorobiphenyl	47		10 - 150	11/04/17 09:36	11/07/17 14:03	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	0.99	J	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 04:44	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 04:44	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 04:44	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 04:44	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 04:44	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 04:44	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	112		25 - 150	11/20/17 09:48	11/21/17 04:44	1
13C4-PFHpa	117		25 - 150	11/20/17 09:48	11/21/17 04:44	1
13C4 PFOA	112		25 - 150	11/20/17 09:48	11/21/17 04:44	1
13C4 PFOS	112		25 - 150	11/20/17 09:48	11/21/17 04:44	1
13C5 PFNA	112		25 - 150	11/20/17 09:48	11/21/17 04:44	1

Client Sample ID: EB-PROBE

Date Collected: 10/31/17 11:10

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 12:21	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	112		71 - 144		11/03/17 12:21	1
4-Bromofluorobenzene	91		72 - 133		11/03/17 12:21	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 05:03	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 05:03	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 05:03	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 05:03	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 05:03	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 05:03	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	102		25 - 150	11/20/17 09:48	11/21/17 05:03	1
13C4-PFHpa	102		25 - 150	11/20/17 09:48	11/21/17 05:03	1
13C4 PFOA	101		25 - 150	11/20/17 09:48	11/21/17 05:03	1
13C4 PFOS	100		25 - 150	11/20/17 09:48	11/21/17 05:03	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: EB-PROBE

Date Collected: 10/31/17 11:10

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-11

Matrix: Water

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
¹³ C5 PFNA	98		25 - 150	11/20/17 09:48	11/21/17 05:03	1

Client Sample ID: EB-TUBING

Date Collected: 10/31/17 11:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-12

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L	—		11/03/17 12:45	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	116		71 - 144					11/03/17 12:45	1
4-Bromofluorobenzene	90		72 - 133					11/03/17 12:45	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L	—	11/20/17 09:48	11/21/17 05:21	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L	—	11/20/17 09:48	11/21/17 05:21	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L	—	11/20/17 09:48	11/21/17 05:21	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L	—	11/20/17 09:48	11/21/17 05:21	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L	—	11/20/17 09:48	11/21/17 05:21	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L	—	11/20/17 09:48	11/21/17 05:21	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
¹⁸ O2 PFHxS	99		25 - 150				11/20/17 09:48	11/21/17 05:21	1
¹³ C4-PFHpA	100		25 - 150				11/20/17 09:48	11/21/17 05:21	1
¹³ C4 PFOA	97		25 - 150				11/20/17 09:48	11/21/17 05:21	1
¹³ C4 PFOS	96		25 - 150				11/20/17 09:48	11/21/17 05:21	1
¹³ C5 PFNA	98		25 - 150				11/20/17 09:48	11/21/17 05:21	1

Client Sample ID: FB-X

Date Collected: 11/01/17 13:15

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L	—		11/03/17 11:57	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		71 - 144					11/03/17 11:57	1
4-Bromofluorobenzene	91		72 - 133					11/03/17 11:57	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L	—	11/20/17 09:48	11/21/17 05:39	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L	—	11/20/17 09:48	11/21/17 05:39	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L	—	11/20/17 09:48	11/21/17 05:39	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L	—	11/20/17 09:48	11/21/17 05:39	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L	—	11/20/17 09:48	11/21/17 05:39	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L	—	11/20/17 09:48	11/21/17 05:39	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: FB-X

Date Collected: 11/01/17 13:15

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-13

Matrix: Water

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	104		25 - 150	11/20/17 09:48	11/21/17 05:39	1
13C4-PFHpA	105		25 - 150	11/20/17 09:48	11/21/17 05:39	1
13C4 PFOA	105		25 - 150	11/20/17 09:48	11/21/17 05:39	1
13C4 PFOS	103		25 - 150	11/20/17 09:48	11/21/17 05:39	1
13C5 PFNA	104		25 - 150	11/20/17 09:48	11/21/17 05:39	1

Client Sample ID: Leachate

Date Collected: 10/31/17 12:05

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-14

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/04/17 08:02	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	108		71 - 144					11/04/17 08:02	1
4-Bromofluorobenzene	93		72 - 133					11/04/17 08:02	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:11	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:11	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:11	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:11	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:11	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 03:11	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 03:11	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 03:11	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 03:11	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:11	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	42		10 - 150				11/04/17 09:36	11/07/17 03:11	1
DCB Decachlorobiphenyl	40		10 - 150				11/04/17 09:36	11/07/17 03:11	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 05:58	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 05:58	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 05:58	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 05:58	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 05:58	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 05:58	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	104		25 - 150				11/20/17 09:48	11/21/17 05:58	1
13C4-PFHpA	106		25 - 150				11/20/17 09:48	11/21/17 05:58	1
13C4 PFOA	102		25 - 150				11/20/17 09:48	11/21/17 05:58	1
13C4 PFOS	102		25 - 150				11/20/17 09:48	11/21/17 05:58	1
13C5 PFNA	104		25 - 150				11/20/17 09:48	11/21/17 05:58	1

TestAmerica Edison

Client Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-X-DUP

Date Collected: 10/31/17 00:00

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-15

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 17:32	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	118		71 - 144					11/03/17 17:32	1
4-Bromofluorobenzene	87		72 - 133					11/03/17 17:32	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:35	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:35	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:35	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:35	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:35	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 03:35	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 03:35	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 03:35	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/07/17 03:35	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/07/17 03:35	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	46		10 - 150				11/04/17 09:36	11/07/17 03:35	1
DCB Decachlorobiphenyl	45		10 - 150				11/04/17 09:36	11/07/17 03:35	1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 06:16	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 06:16	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 06:16	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 06:16	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 06:16	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 06:16	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	115		25 - 150				11/20/17 09:48	11/21/17 06:16	1
13C4-PFHxS	116		25 - 150				11/20/17 09:48	11/21/17 06:16	1
13C4 PFOA	112		25 - 150				11/20/17 09:48	11/21/17 06:16	1
13C4 PFOS	111		25 - 150				11/20/17 09:48	11/21/17 06:16	1
13C5 PFNA	114		25 - 150				11/20/17 09:48	11/21/17 06:16	1

Client Sample ID: Trip Blank

Date Collected: 11/01/17 00:00

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-16

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/03/17 11:33	1
Surrogate	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	111		71 - 144					11/03/17 11:33	1
4-Bromofluorobenzene	92		72 - 133					11/03/17 11:33	1

TestAmerica Edison

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		12DCE (71-144)	BFB (72-133)
460-144244-1	MW-1S	116	92
460-144244-1 MS	MW-1S	105	95
460-144244-1 MSD	MW-1S	101	90
460-144244-2	MW-1D	115	90
460-144244-3	MW-2S	116	90
460-144244-4	MW-2D	113	88
460-144244-5	MW-3S	121	93
460-144244-6	MW-3D	112	87
460-144244-7	MW-4S	117	88
460-144244-8	MW-4D	119	91
460-144244-9	NPPRS	116	88
460-144244-10	SPPRS	116	87
460-144244-11	EB-PROBE	112	91
460-144244-12	EB-TUBING	116	90
460-144244-13	FB-X	111	91
460-144244-14	Leachate	108	93
460-144244-15	MW-X-DUP	118	87
460-144244-16	Trip Blank	111	92
LCS 460-474314/3	Lab Control Sample	107	92
LCS 460-474523/4	Lab Control Sample	111	90
LCS 460-475006/3	Lab Control Sample	98	90
LCSD 460-474314/4	Lab Control Sample Dup	111	91
LCSD 460-474523/5	Lab Control Sample Dup	111	90
LCSD 460-475006/4	Lab Control Sample Dup	100	94
MB 460-474314/8	Method Blank	114	91
MB 460-474523/8	Method Blank	107	89
MB 460-475006/7	Method Blank	101	90

Surrogate Legend

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

BFB = 4-Bromofluorobenzene

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)	
		DCB1 (10-150)	DCB2 (10-150)
460-144244-1	MW-1S	40	40
460-144244-1 MS	MW-1S	44	43
460-144244-1 MSD	MW-1S	46	43
460-144244-2	MW-1D	54	54
460-144244-3	MW-2S	62	62
460-144244-4	MW-2D	49	47
460-144244-5	MW-3S	37	35
460-144244-6	MW-3D	46	45
460-144244-7	MW-4S	45	39
460-144244-8	MW-4D	45	34
460-144244-9	NPPRS	55	56

TestAmerica Edison

Surrogate Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)					
Lab Sample ID	Client Sample ID	DCB1	DCB2				
		(10-150)	(10-150)				
460-144244-10	SPPRS	46	47				
460-144244-14	Leachate	42	40				
460-144244-15	MW-X-DUP	46	45				
LCS 460-474606/2-A	Lab Control Sample	88	91				
MB 460-474606/1-A	Method Blank	82	89				

Surrogate Legend

DCB = DCB Decachlorobiphenyl

Isotope Dilution Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		¹⁸ O2 PFHx (25-150)	¹³ C4-PFHp (25-150)	¹³ C4 PFO (25-150)	¹³ C4 PFO (25-150)	¹³ C5 PFNA (25-150)			
460-144244-1	MW-1S	102	100	97	99	95			
460-144244-1 MS	MW-1S	98	100	97	96	97			
460-144244-1 MSD	MW-1S	100	103	99	99	98			
460-144244-2	MW-1D	99	99	98	98	98			
460-144244-3	MW-2S	106	106	104	106	101			
460-144244-4	MW-2D	108	107	107	105	108			
460-144244-5	MW-3S	102	104	102	101	102			
460-144244-6	MW-3D	102	99	101	102	99			
460-144244-7	MW-4S	105	104	104	103	104			
460-144244-8	MW-4D	100	102	100	99	98			
460-144244-9	NPPRS	106	109	107	104	108			
460-144244-10	SPPRS	112	117	112	112	112			
460-144244-11	EB-PROBE	102	102	101	100	98			
460-144244-12	EB-TUBING	99	100	97	96	98			
460-144244-13	FB-X	104	105	105	103	104			
460-144244-14	Leachate	104	106	102	102	104			
460-144244-15	MW-X-DUP	115	116	112	111	114			
LCS 320-195744/2-A	Lab Control Sample	97	99	93	95	92			
MB 320-195744/1-A	Method Blank	105	106	102	103	102			

Surrogate Legend

¹⁸O2 PFHxS = ¹⁸O2 PFHxS
¹³C4-PFHpA = ¹³C4-PFHpA
¹³C4 PFOA = ¹³C4 PFOA
¹³C4 PFOS = ¹³C4 PFOS
¹³C5 PFNA = ¹³C5 PFNA

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

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

Lab Sample ID: MB 460-474314/8

Matrix: Water

Analysis Batch: 474314

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L	-		11/03/17 10:45	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	114		71 - 144					11/03/17 10:45	1
4-Bromofluorobenzene	91		72 - 133					11/03/17 10:45	1

Lab Sample ID: LCS 460-474314/3

Matrix: Water

Analysis Batch: 474314

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,4-Dioxane		5.00	4.66		ug/L	-	93	66 - 135	
Surrogate	LCS %Recovery	LCS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	107		71 - 144						
4-Bromofluorobenzene	92		72 - 133						

Lab Sample ID: LCSD 460-474314/4

Matrix: Water

Analysis Batch: 474314

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte		Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane		5.00	5.01		ug/L	-	100	66 - 135	7	30
Surrogate	LCSD %Recovery	LCSD Qualifier	Limits							
1,2-Dichloroethane-d4 (Surr)	111		71 - 144							
4-Bromofluorobenzene	91		72 - 133							

Lab Sample ID: MB 460-474523/8

Matrix: Water

Analysis Batch: 474523

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L	-		11/04/17 00:02	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	107		71 - 144					11/04/17 00:02	1
4-Bromofluorobenzene	89		72 - 133					11/04/17 00:02	1

Lab Sample ID: LCS 460-474523/4

Matrix: Water

Analysis Batch: 474523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits	
1,4-Dioxane		5.00	4.44		ug/L	-	89	66 - 135	

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

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

Lab Sample ID: LCS 460-474523/4

Matrix: Water

Analysis Batch: 474523

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		71 - 144
4-Bromofluorobenzene	90		72 - 133

Lab Sample ID: LCSD 460-474523/5

Matrix: Water

Analysis Batch: 474523

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	5.00	4.80		ug/L		96	66 - 135	8	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	111		71 - 144
4-Bromofluorobenzene	90		72 - 133

Lab Sample ID: MB 460-475006/7

Matrix: Water

Analysis Batch: 475006

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	0.40	U	0.40	0.20	ug/L			11/06/17 23:14	1

	MB	MB		Prepared	Analyzed	Dil Fac
Surrogate	%Recovery	Qualifier	Limits			
1,2-Dichloroethane-d4 (Surr)	101		71 - 144		11/06/17 23:14	1
4-Bromofluorobenzene	90		72 - 133		11/06/17 23:14	1

Lab Sample ID: LCS 460-475006/3

Matrix: Water

Analysis Batch: 475006

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	5.00	4.54		ug/L		91	66 - 135

	LCS	LCS	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	98		71 - 144
4-Bromofluorobenzene	90		72 - 133

Lab Sample ID: LCSD 460-475006/4

Matrix: Water

Analysis Batch: 475006

Client Sample ID: Lab Control Sample Dup

Prep Type: Total/NA

Analyte	Spike Added	LCSD Result	LCSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	5.00	4.65		ug/L		93	66 - 135	3	30

	LCSD	LCSD	
Surrogate	%Recovery	Qualifier	Limits
1,2-Dichloroethane-d4 (Surr)	100		71 - 144
4-Bromofluorobenzene	94		72 - 133

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

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

Lab Sample ID: 460-144244-1 MS

Matrix: Water

Analysis Batch: 475006

Client Sample ID: MW-1S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	0.40	U	5.00	5.28		ug/L		106	66 - 135
Surrogate	MS %Recovery	MS Qualifier	Limits						
1,2-Dichloroethane-d4 (Surr)	105		71 - 144						
4-Bromofluorobenzene	95		72 - 133						

Lab Sample ID: 460-144244-1 MSD

Matrix: Water

Analysis Batch: 475006

Client Sample ID: MW-1S

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	0.40	U	5.00	4.00		ug/L		80	66 - 135	28	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
1,2-Dichloroethane-d4 (Surr)	101		71 - 144								
4-Bromofluorobenzene	90		72 - 133								

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

Lab Sample ID: MB 460-474606/1-A

Matrix: Water

Analysis Batch: 474852

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 474606

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Aroclor 1016	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 09:33	1
Aroclor 1221	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 09:33	1
Aroclor 1232	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 09:33	1
Aroclor 1242	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 09:33	1
Aroclor 1248	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 09:33	1
Aroclor 1254	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 09:33	1
Aroclor 1260	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 09:33	1
Aroclor-1262	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 09:33	1
Aroclor 1268	0.40	U	0.40	0.099	ug/L		11/04/17 09:36	11/06/17 09:33	1
Polychlorinated biphenyls, Total	0.40	U	0.40	0.10	ug/L		11/04/17 09:36	11/06/17 09:33	1
Surrogate	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
DCB Decachlorobiphenyl	82		10 - 150				11/04/17 09:36	11/06/17 09:33	1
DCB Decachlorobiphenyl	89		10 - 150				11/04/17 09:36	11/06/17 09:33	1

Lab Sample ID: LCS 460-474606/2-A

Matrix: Water

Analysis Batch: 474852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 474606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	4.00	4.58		ug/L		114	77 - 150
Aroclor 1016	4.00	4.45		ug/L		111	77 - 150
Aroclor 1260	4.00	4.72		ug/L		118	80 - 150

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

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

Lab Sample ID: LCS 460-474606/2-A

Matrix: Water

Analysis Batch: 474852

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 474606

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1260	4.00	4.80		ug/L		120	80 - 150
Surrogate	LCS %Recovery	LCS Qualifier	Limits				
DCB Decachlorobiphenyl	88		10 - 150				
DCB Decachlorobiphenyl	91		10 - 150				

Lab Sample ID: 460-144244-1 MS

Matrix: Water

Analysis Batch: 474852

Client Sample ID: MW-1S

Prep Type: Total/NA

Prep Batch: 474606

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Aroclor 1016	0.40	U	4.00	3.13		ug/L		78	77 - 150
Aroclor 1016	0.40	U	4.00	2.99	*	ug/L		75	77 - 150
Aroclor 1260	0.40	U	4.00	2.68	*	ug/L		67	80 - 150
Aroclor 1260	0.40	U	4.00	2.50	*	ug/L		62	80 - 150
Surrogate	MS %Recovery	MS Qualifier	Limits						
DCB Decachlorobiphenyl	44		10 - 150						
DCB Decachlorobiphenyl	43		10 - 150						

Lab Sample ID: 460-144244-1 MSD

Matrix: Water

Analysis Batch: 474852

Client Sample ID: MW-1S

Prep Type: Total/NA

Prep Batch: 474606

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	Limit
Aroclor 1016	0.40	U	4.00	3.10		ug/L		78	77 - 150	1	30
Aroclor 1016	0.40	U	4.00	2.88	*	ug/L		72	77 - 150	4	30
Aroclor 1260	0.40	U	4.00	2.67	*	ug/L		67	80 - 150	0	30
Aroclor 1260	0.40	U	4.00	2.40	*	ug/L		60	80 - 150	4	30
Surrogate	MSD %Recovery	MSD Qualifier	Limits								
DCB Decachlorobiphenyl	46		10 - 150								
DCB Decachlorobiphenyl	43		10 - 150								

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances

Lab Sample ID: MB 320-195744/1-A

Matrix: Water

Analysis Batch: 195898

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 195744

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92	ng/L		11/20/17 09:48	11/21/17 00:09	1
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87	ng/L		11/20/17 09:48	11/21/17 00:09	1
Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80	ng/L		11/20/17 09:48	11/21/17 00:09	1
Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75	ng/L		11/20/17 09:48	11/21/17 00:09	1
Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28	ng/L		11/20/17 09:48	11/21/17 00:09	1
Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65	ng/L		11/20/17 09:48	11/21/17 00:09	1

TestAmerica Edison

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

<i>MB MB</i>						
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	105		25 - 150	11/20/17 09:48	11/21/17 00:09	1
13C4-PFHpA	106		25 - 150	11/20/17 09:48	11/21/17 00:09	1
13C4 PFOA	102		25 - 150	11/20/17 09:48	11/21/17 00:09	1
13C4 PFOS	103		25 - 150	11/20/17 09:48	11/21/17 00:09	1
13C5 PFNA	102		25 - 150	11/20/17 09:48	11/21/17 00:09	1

Lab Sample ID: LCS 320-195744/2-A
Matrix: Water
Analysis Batch: 195898

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 195744
%Rec.

<i>Analyte</i>	<i>Spike Added</i>	<i>LCS Result</i>	<i>LCS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
Perfluorobutanesulfonic acid (PFBS)	17.7	17.01		ng/L		96	72 - 151
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.26		ng/L		95	73 - 157
Perfluoroheptanoic acid (PFHpA)	20.0	19.64		ng/L		98	71 - 138
Perfluorooctanoic acid (PFOA)	20.0	18.94		ng/L		95	70 - 140
Perfluorooctanesulfonic acid (PFOS)	18.6	16.91		ng/L		91	69 - 144
Perfluorononanoic acid (PFNA)	20.0	19.85		ng/L		99	73 - 147

<i>LCS LCS</i>			
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
18O2 PFHxS	97		25 - 150
13C4-PFHpA	99		25 - 150
13C4 PFOA	93		25 - 150
13C4 PFOS	95		25 - 150
13C5 PFNA	92		25 - 150

Lab Sample ID: 460-144244-1 MS
Matrix: Water
Analysis Batch: 195898

Client Sample ID: MW-1S
Prep Type: Total/NA
Prep Batch: 195744
%Rec.

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MS Result</i>	<i>MS Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>Limits</i>
Perfluorobutanesulfonic acid (PFBS)	2.00	U	16.1	16.18		ng/L		100	55 - 147
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	16.6	15.45		ng/L		93	58 - 138
Perfluoroheptanoic acid (PFHpA)	2.00	U	18.3	17.98		ng/L		99	63 - 135
Perfluorooctanoic acid (PFOA)	2.00	U	18.3	17.00		ng/L		93	63 - 141
Perfluorooctanesulfonic acid (PFOS)	2.00	U	16.9	14.99		ng/L		89	47 - 162
Perfluorononanoic acid (PFNA)	2.00	U	18.3	17.34		ng/L		95	71 - 140

<i>MS MS</i>			
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
18O2 PFHxS	98		25 - 150
13C4-PFHpA	100		25 - 150
13C4 PFOA	97		25 - 150
13C4 PFOS	96		25 - 150
13C5 PFNA	97		25 - 150

QC Sample Results

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Method: WS-LC-0025 At1 - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 460-144244-1 MSD

Matrix: Water

Analysis Batch: 195898

Client Sample ID: MW-1S

Prep Type: Total/NA

Prep Batch: 195744

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanesulfonic acid (PFBS)	2.00	U	16.2	16.17		ng/L		100	55 - 147	0	30
Perfluorohexanesulfonic acid (PFHxS)	2.00	U	16.6	16.07		ng/L		97	58 - 138	4	30
Perfluoroheptanoic acid (PFHpA)	2.00	U	18.3	17.98		ng/L		98	63 - 135	0	30
Perfluorooctanoic acid (PFOA)	2.00	U	18.3	16.91		ng/L		93	63 - 141	1	30
Perfluorooctanesulfonic acid (PFOS)	2.00	U	17.0	14.00		ng/L		83	47 - 162	7	30
Perfluorononanoic acid (PFNA)	2.00	U	18.3	16.93		ng/L		93	71 - 140	2	30
MSD MSD											
Isotope Dilution	%Recovery	Qualifier	Limits								
18O2 PFHxS	100		25 - 150								
13C4-PFHpA	103		25 - 150								
13C4 PFOA	99		25 - 150								
13C4 PFOS	99		25 - 150								
13C5 PFNA	98		25 - 150								

Definitions/Glossary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.

GC Semi VOA

Qualifier	Qualifier Description
U	Analyzed for but not detected.
*	MS or MSD is outside acceptance limits.

LCMS

Qualifier	Qualifier Description
U	Analyzed for but not detected.
J	Indicates an estimated value.

Glossary

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

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

GC/MS VOA

Analysis Batch: 474314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-144244-1	MW-1S	Total/NA	Water	8260C SIM	
460-144244-2	MW-1D	Total/NA	Water	8260C SIM	
460-144244-3	MW-2S	Total/NA	Water	8260C SIM	
460-144244-4	MW-2D	Total/NA	Water	8260C SIM	
460-144244-5	MW-3S	Total/NA	Water	8260C SIM	
460-144244-6	MW-3D	Total/NA	Water	8260C SIM	
460-144244-7	MW-4S	Total/NA	Water	8260C SIM	
460-144244-8	MW-4D	Total/NA	Water	8260C SIM	
460-144244-9	NPPRS	Total/NA	Water	8260C SIM	
460-144244-10	SPPRS	Total/NA	Water	8260C SIM	
460-144244-11	EB-PROBE	Total/NA	Water	8260C SIM	
460-144244-12	EB-TUBING	Total/NA	Water	8260C SIM	
460-144244-13	FB-X	Total/NA	Water	8260C SIM	
460-144244-15	MW-X-DUP	Total/NA	Water	8260C SIM	
460-144244-16	Trip Blank	Total/NA	Water	8260C SIM	
MB 460-474314/8	Method Blank	Total/NA	Water	8260C SIM	
LCS 460-474314/3	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 460-474314/4	Lab Control Sample Dup	Total/NA	Water	8260C SIM	

Analysis Batch: 474523

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-144244-14	Leachate	Total/NA	Water	8260C SIM	
MB 460-474523/8	Method Blank	Total/NA	Water	8260C SIM	
LCS 460-474523/4	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 460-474523/5	Lab Control Sample Dup	Total/NA	Water	8260C SIM	

Analysis Batch: 475006

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-475006/7	Method Blank	Total/NA	Water	8260C SIM	
LCS 460-475006/3	Lab Control Sample	Total/NA	Water	8260C SIM	
LCSD 460-475006/4	Lab Control Sample Dup	Total/NA	Water	8260C SIM	
460-144244-1 MS	MW-1S	Total/NA	Water	8260C SIM	
460-144244-1 MSD	MW-1S	Total/NA	Water	8260C SIM	

GC Semi VOA

Prep Batch: 474606

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-144244-1	MW-1S	Total/NA	Water	3510C	
460-144244-2	MW-1D	Total/NA	Water	3510C	
460-144244-3	MW-2S	Total/NA	Water	3510C	
460-144244-4	MW-2D	Total/NA	Water	3510C	
460-144244-5	MW-3S	Total/NA	Water	3510C	
460-144244-6	MW-3D	Total/NA	Water	3510C	
460-144244-7	MW-4S	Total/NA	Water	3510C	
460-144244-8	MW-4D	Total/NA	Water	3510C	
460-144244-9	NPPRS	Total/NA	Water	3510C	
460-144244-10	SPPRS	Total/NA	Water	3510C	
460-144244-14	Leachate	Total/NA	Water	3510C	
460-144244-15	MW-X-DUP	Total/NA	Water	3510C	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

GC Semi VOA (Continued)

Prep Batch: 474606 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 460-474606/1-A	Method Blank	Total/NA	Water	3510C	
LCS 460-474606/2-A	Lab Control Sample	Total/NA	Water	3510C	
460-144244-1 MS	MW-1S	Total/NA	Water	3510C	
460-144244-1 MSD	MW-1S	Total/NA	Water	3510C	

Analysis Batch: 474852

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-144244-1	MW-1S	Total/NA	Water	8082A	474606
460-144244-2	MW-1D	Total/NA	Water	8082A	474606
460-144244-3	MW-2S	Total/NA	Water	8082A	474606
460-144244-4	MW-2D	Total/NA	Water	8082A	474606
460-144244-5	MW-3S	Total/NA	Water	8082A	474606
460-144244-6	MW-3D	Total/NA	Water	8082A	474606
460-144244-7	MW-4S	Total/NA	Water	8082A	474606
460-144244-8	MW-4D	Total/NA	Water	8082A	474606
460-144244-9	NPPRS	Total/NA	Water	8082A	474606
460-144244-14	Leachate	Total/NA	Water	8082A	474606
460-144244-15	MW-X-DUP	Total/NA	Water	8082A	474606
MB 460-474606/1-A	Method Blank	Total/NA	Water	8082A	474606
LCS 460-474606/2-A	Lab Control Sample	Total/NA	Water	8082A	474606
460-144244-1 MS	MW-1S	Total/NA	Water	8082A	474606
460-144244-1 MSD	MW-1S	Total/NA	Water	8082A	474606

Analysis Batch: 475107

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-144244-10	SPPRS	Total/NA	Water	8082A	474606

LCMS

Prep Batch: 195744

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-144244-1	MW-1S	Total/NA	Water	PFAS Prep	
460-144244-2	MW-1D	Total/NA	Water	PFAS Prep	
460-144244-3	MW-2S	Total/NA	Water	PFAS Prep	
460-144244-4	MW-2D	Total/NA	Water	PFAS Prep	
460-144244-5	MW-3S	Total/NA	Water	PFAS Prep	
460-144244-6	MW-3D	Total/NA	Water	PFAS Prep	
460-144244-7	MW-4S	Total/NA	Water	PFAS Prep	
460-144244-8	MW-4D	Total/NA	Water	PFAS Prep	
460-144244-9	NPPRS	Total/NA	Water	PFAS Prep	
460-144244-10	SPPRS	Total/NA	Water	PFAS Prep	
460-144244-11	EB-PROBE	Total/NA	Water	PFAS Prep	
460-144244-12	EB-TUBING	Total/NA	Water	PFAS Prep	
460-144244-13	FB-X	Total/NA	Water	PFAS Prep	
460-144244-14	Leachate	Total/NA	Water	PFAS Prep	
460-144244-15	MW-X-DUP	Total/NA	Water	PFAS Prep	
MB 320-195744/1-A	Method Blank	Total/NA	Water	PFAS Prep	
LCS 320-195744/2-A	Lab Control Sample	Total/NA	Water	PFAS Prep	
460-144244-1 MS	MW-1S	Total/NA	Water	PFAS Prep	
460-144244-1 MSD	MW-1S	Total/NA	Water	PFAS Prep	

QC Association Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

LCMS (Continued)

Analysis Batch: 195898

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
460-144244-1	MW-1S	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-2	MW-1D	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-3	MW-2S	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-4	MW-2D	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-5	MW-3S	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-6	MW-3D	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-7	MW-4S	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-8	MW-4D	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-9	NPPRS	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-10	SPPRS	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-11	EB-PROBE	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-12	EB-TUBING	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-13	FB-X	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-14	Leachate	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-15	MW-X-DUP	Total/NA	Water	WS-LC-0025 At1	195744
MB 320-195744/1-A	Method Blank	Total/NA	Water	WS-LC-0025 At1	195744
LCS 320-195744/2-A	Lab Control Sample	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-1 MS	MW-1S	Total/NA	Water	WS-LC-0025 At1	195744
460-144244-1 MSD	MW-1S	Total/NA	Water	WS-LC-0025 At1	195744

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-1S

Date Collected: 10/31/17 15:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-1

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 13:09	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 11:08	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 01:04	CBW	TAL SAC

Client Sample ID: MW-1D

Date Collected: 10/31/17 15:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-2

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 13:33	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 20:03	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 01:59	CBW	TAL SAC

Client Sample ID: MW-2S

Date Collected: 11/01/17 10:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-3

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 13:57	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 20:27	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 02:18	CBW	TAL SAC

Client Sample ID: MW-2D

Date Collected: 11/01/17 10:40

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-4

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 14:21	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 20:50	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 02:36	CBW	TAL SAC

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: MW-3S

Date Collected: 10/31/17 17:10

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-5

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 14:45	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 21:14	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 02:54	CBW	TAL SAC

Client Sample ID: MW-3D

Date Collected: 11/01/17 12:55

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 15:08	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 21:37	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 03:31	CBW	TAL SAC

Client Sample ID: MW-4S

Date Collected: 11/01/17 12:20

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 15:32	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 22:00	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 03:49	CBW	TAL SAC

Client Sample ID: MW-4D

Date Collected: 11/01/17 12:30

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 15:56	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 22:24	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 04:08	CBW	TAL SAC

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: NPPRS

Date Collected: 10/31/17 12:50

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-9

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 16:20	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/06/17 22:48	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 04:26	CBW	TAL SAC

Client Sample ID: SPPRS

Date Collected: 10/31/17 12:30

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-10

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 16:44	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	475107	11/07/17 14:03	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 04:44	CBW	TAL SAC

Client Sample ID: EB-PROBE

Date Collected: 10/31/17 11:10

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-11

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 12:21	SZD	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 05:03	CBW	TAL SAC

Client Sample ID: EB-TUBING

Date Collected: 10/31/17 11:25

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-12

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 12:45	SZD	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 05:21	CBW	TAL SAC

Client Sample ID: FB-X

Date Collected: 11/01/17 13:15

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 11:57	SZD	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC

TestAmerica Edison

Lab Chronicle

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Client Sample ID: FB-X

Date Collected: 11/01/17 13:15

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-13

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 05:39	CBW	TAL SAC

Client Sample ID: Leachate

Date Collected: 10/31/17 12:05

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-14

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474523	11/04/17 08:02	KLB	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/07/17 03:11	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 05:58	CBW	TAL SAC

Client Sample ID: MW-X-DUP

Date Collected: 10/31/17 00:00

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-15

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 17:32	SZD	TAL EDI
Total/NA	Prep	3510C			474606	11/04/17 09:36	JNP	TAL EDI
Total/NA	Analysis	8082A		1	474852	11/07/17 03:35	JHP	TAL EDI
Total/NA	Prep	PFAS Prep			195744	11/20/17 09:48	TON	TAL SAC
Total/NA	Analysis	WS-LC-0025 At1		1	195898	11/21/17 06:16	CBW	TAL SAC

Client Sample ID: Trip Blank

Date Collected: 11/01/17 00:00

Date Received: 11/02/17 09:10

Lab Sample ID: 460-144244-16

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C SIM		1	474314	11/03/17 11:33	SZD	TAL EDI

Laboratory References:

TAL EDI = TestAmerica Edison, 777 New Durham Road, Edison, NJ 08817, TEL (732)549-3900

TAL SAC = TestAmerica Sacramento, 880 Riverside Parkway, West Sacramento, CA 95605, TEL (916)373-5600

Accreditation/Certification Summary

Client: ARCADIS U.S. Inc
Project/Site: NY Standby - Columbia Mills 2017

TestAmerica Job ID: 460-144244-1

Laboratory: TestAmerica Edison

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11452	04-01-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
8082A	3510C	Water	Polychlorinated biphenyls, Total

Laboratory: TestAmerica Buffalo

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

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	10026	03-31-18

Laboratory: TestAmerica Sacramento

Unless otherwise noted, all analytes for this laboratory were covered under each accreditation/certification below.

Authority	Program	EPA Region	Identification Number	Expiration Date
New York	NELAP	2	11666	04-01-18

The following analytes are included in this report, but accreditation/certification is not offered by the governing authority:

Analysis Method	Prep Method	Matrix	Analyte
WS-LC-0025 At1	PFAS Prep	Water	Perfluorobutanesulfonic acid (PFBS)
WS-LC-0025 At1	PFAS Prep	Water	Perfluoroheptanoic acid (PFHpA)
WS-LC-0025 At1	PFAS Prep	Water	Perfluorohexanesulfonic acid (PFHxS)
WS-LC-0025 At1	PFAS Prep	Water	Perfluorononanoic acid (PFNA)
WS-LC-0025 At1	PFAS Prep	Water	Perfluorooctanesulfonic acid (PFOS)
WS-LC-0025 At1	PFAS Prep	Water	Perfluorooctanoic acid (PFOA)

8260C_SIM

Volatile Organic Compounds (GC/MS)

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): Rtx-624 ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DCA #	BFB #
MW-1S	460-144244-1	116	92
MW-1D	460-144244-2	115	90
MW-2S	460-144244-3	116	90
MW-2D	460-144244-4	113	88
MW-3S	460-144244-5	121	93
MW-3D	460-144244-6	112	87
MW-4S	460-144244-7	117	88
MW-4D	460-144244-8	119	91
NPPRS	460-144244-9	116	88
SPPRS	460-144244-10	116	87
EB-PROBE	460-144244-11	112	91
EB-TUBING	460-144244-12	116	90
FB-X	460-144244-13	111	91
Leachate	460-144244-14	108	93
MW-X-DUP	460-144244-15	118	87
Trip Blank	460-144244-16	111	92
	MB 460-474314/8	114	91
	MB 460-474523/8	107	89
	MB 460-475006/7	101	90
	LCS 460-474314/3	107	92
	LCS 460-474523/4	111	90
	LCS 460-475006/3	98	90
	LCSD 460-474314/4	111	91
	LCSD 460-474523/5	111	90
	LCSD 460-475006/4	100	94
MW-1S MS	460-144244-1 MS	105	95
MW-1S MSD	460-144244-1 MSD	101	90

DCA = 1,2-Dichloroethane-d4 (Surr)
 BFB = 4-Bromofluorobenzene

QC LIMITS
 71-144
 72-133

Column to be used to flag recovery values

FORM II 8260C SIM

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S000117.D
Lab ID: LCS 460-474314/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	5.00	4.66	93	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S000149.D
Lab ID: LCS 460-474523/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	5.00	4.44	89	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S000264.D
Lab ID: LCS 460-475006/3 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	5.00	4.54	91	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S000118.D
Lab ID: LCSD 460-474314/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	5.00	5.01	100	7	30	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: S000150.D
 Lab ID: LCSD 460-474523/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	5.00	4.80	96	8	30	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S000265.D
Lab ID: LCSD 460-475006/4 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCSD CONCENTRATION (ug/L)	LCSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	5.00	4.65	93	3	30	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S000287.D
Lab ID: 460-144244-1 MS Client ID: MW-1S MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	5.00	0.40 U	5.28	106	66-135	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: S000288.D
Lab ID: 460-144244-1 MSD Client ID: MW-1S MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	5.00	4.00	80	28	30	66-135	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab File ID: S000122.D Lab Sample ID: MB 460-474314/8
 Matrix: Water Heated Purge: (Y/N) Y
 Instrument ID: CVOAMS14 Date Analyzed: 11/03/2017 10:45
 GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-474314/3	S000117.D	11/03/2017 08:16
	LCSD 460-474314/4	S000118.D	11/03/2017 08:40
Trip Blank	460-144244-16	S000124.D	11/03/2017 11:33
FB-X	460-144244-13	S000125.D	11/03/2017 11:57
EB-PROBE	460-144244-11	S000126.D	11/03/2017 12:21
EB-TUBING	460-144244-12	S000127.D	11/03/2017 12:45
MW-1S	460-144244-1	S000128.D	11/03/2017 13:09
MW-1D	460-144244-2	S000129.D	11/03/2017 13:33
MW-2S	460-144244-3	S000130.D	11/03/2017 13:57
MW-2D	460-144244-4	S000131.D	11/03/2017 14:21
MW-3S	460-144244-5	S000132.D	11/03/2017 14:45
MW-3D	460-144244-6	S000133.D	11/03/2017 15:08
MW-4S	460-144244-7	S000134.D	11/03/2017 15:32
MW-4D	460-144244-8	S000135.D	11/03/2017 15:56
NPPRS	460-144244-9	S000136.D	11/03/2017 16:20
SPPRS	460-144244-10	S000137.D	11/03/2017 16:44
MW-X-DUP	460-144244-15	S000139.D	11/03/2017 17:32

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Lab File ID: S000153.D Lab Sample ID: MB 460-474523/8
Matrix: Water Heated Purge: (Y/N) Y
Instrument ID: CVOAMS14 Date Analyzed: 11/04/2017 00:02
GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-474523/4	S000149.D	11/03/2017 22:26
	LCSD 460-474523/5	S000150.D	11/03/2017 22:50
Leachate	460-144244-14	S000173.D	11/04/2017 08:02

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Lab File ID: S000268.D Lab Sample ID: MB 460-475006/7
Matrix: Water Heated Purge: (Y/N) Y
Instrument ID: CVOAMS14 Date Analyzed: 11/06/2017 23:14
GC Column: Rtx-624 ID: 0.25 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 460-475006/3	S000264.D	11/06/2017 21:38
	LCSD 460-475006/4	S000265.D	11/06/2017 22:02
MW-1S MS	460-144244-1 MS	S000287.D	11/07/2017 07:05
MW-1S MSD	460-144244-1 MSD	S000288.D	11/07/2017 07:29

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab File ID: S000080.D BFB Injection Date: 10/30/2017
 Instrument ID: CVOAMS14 BFB Injection Time: 18:35
 Analysis Batch No.: 473294

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.8
75	30.0 - 60.0 % of mass 95	47.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.3
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	94.0
175	5.0 - 9.0 % of mass 174	7.4 (7.8) 1
176	95.0 - 101.0 % of mass 174	89.6 (95.3) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 460-473294/3	S000082.D	10/30/2017	19:28
	STD5 460-473294/4	S000083.D	10/30/2017	19:52
	STD10 460-473294/5	S000084.D	10/30/2017	20:16
	STD20 460-473294/6	S000085.D	10/30/2017	20:40
	STD30 460-473294/7	S000086.D	10/30/2017	21:04
	STD40 460-473294/8	S000087.D	10/30/2017	21:28
	STD50 460-473294/9	S000088.D	10/30/2017	21:52
	STD04 460-473294/17	S000096.D	10/31/2017	01:13

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab File ID: S000080.D BFB Injection Date: 10/30/2017
 Instrument ID: CVOAMS14 BFB Injection Time: 18:35
 Analysis Batch No.: 473605

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	16.8
75	30.0 - 60.0 % of mass 95	47.6
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.3
173	Less than 2.0 % of mass 174	0.0 (0.0) 1
174	50.0 - 120.00 % of mass 95	94.0
175	5.0 - 9.0 % of mass 174	7.4 (7.8) 1
176	95.0 - 101.0 % of mass 174	89.6 (95.3) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.1) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	STD1 460-473605/3	S000082.D	10/30/2017	19:28
	STD5 460-473605/4	S000083.D	10/30/2017	19:52
	STD10 460-473605/5	S000084.D	10/30/2017	20:16
	STD20 460-473605/6	S000085.D	10/30/2017	20:40
	STD30 460-473605/7	S000086.D	10/30/2017	21:04
	STD40 460-473605/8	S000087.D	10/30/2017	21:28
	STD50 460-473605/9	S000088.D	10/30/2017	21:52
	STD04 460-473605/17	S000096.D	10/31/2017	01:13

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Lab File ID: S000115.D BFB Injection Date: 11/03/2017
Instrument ID: CVOAMS14 BFB Injection Time: 07:02
Analysis Batch No.: 474314

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	18.1
75	30.0 - 60.0 % of mass 95	50.1
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.9
173	Less than 2.0 % of mass 174	0.6 (0.7) 1
174	50.0 - 120.00 % of mass 95	87.9
175	5.0 - 9.0 % of mass 174	6.1 (6.9) 1
176	95.0 - 101.0 % of mass 174	85.4 (97.2) 1
177	5.0 - 9.0 % of mass 176	5.7 (6.7) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-474314/2	S000116.D	11/03/2017	07:27
	LCS 460-474314/3	S000117.D	11/03/2017	08:16
	LCSD 460-474314/4	S000118.D	11/03/2017	08:40
	MB 460-474314/8	S000122.D	11/03/2017	10:45
Trip Blank	460-144244-16	S000124.D	11/03/2017	11:33
FB-X	460-144244-13	S000125.D	11/03/2017	11:57
EB-PROBE	460-144244-11	S000126.D	11/03/2017	12:21
EB-TUBING	460-144244-12	S000127.D	11/03/2017	12:45
MW-1S	460-144244-1	S000128.D	11/03/2017	13:09
MW-1D	460-144244-2	S000129.D	11/03/2017	13:33
MW-2S	460-144244-3	S000130.D	11/03/2017	13:57
MW-2D	460-144244-4	S000131.D	11/03/2017	14:21
MW-3S	460-144244-5	S000132.D	11/03/2017	14:45
MW-3D	460-144244-6	S000133.D	11/03/2017	15:08
MW-4S	460-144244-7	S000134.D	11/03/2017	15:32
MW-4D	460-144244-8	S000135.D	11/03/2017	15:56
NPPRS	460-144244-9	S000136.D	11/03/2017	16:20
SPPRS	460-144244-10	S000137.D	11/03/2017	16:44
MW-X-DUP	460-144244-15	S000139.D	11/03/2017	17:32

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab File ID: S000146.D BFB Injection Date: 11/03/2017
 Instrument ID: CVOAMS14 BFB Injection Time: 20:58
 Analysis Batch No.: 474523

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.4
75	30.0 - 60.0 % of mass 95	48.4
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.2
173	Less than 2.0 % of mass 174	0.6 (0.6) 1
174	50.0 - 120.00 % of mass 95	87.4
175	5.0 - 9.0 % of mass 174	6.6 (7.6) 1
176	95.0 - 101.0 % of mass 174	84.6 (96.8) 1
177	5.0 - 9.0 % of mass 176	5.4 (6.3) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-474523/3	S000148.D	11/03/2017	22:02
	LCS 460-474523/4	S000149.D	11/03/2017	22:26
	LCSD 460-474523/5	S000150.D	11/03/2017	22:50
	MB 460-474523/8	S000153.D	11/04/2017	00:02
Leachate	460-144244-14	S000173.D	11/04/2017	08:02

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab File ID: S000262.D BFB Injection Date: 11/06/2017
 Instrument ID: CVOAMS14 BFB Injection Time: 20:34
 Analysis Batch No.: 475006

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	17.0
75	30.0 - 60.0 % of mass 95	48.2
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	7.0
173	Less than 2.0 % of mass 174	0.5 (0.6) 1
174	50.0 - 120.00 % of mass 95	86.5
175	5.0 - 9.0 % of mass 174	5.9 (6.8) 1
176	95.0 - 101.0 % of mass 174	83.5 (96.6) 1
177	5.0 - 9.0 % of mass 176	5.5 (6.6) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 460-475006/2	S000263.D	11/06/2017	21:14
	LCS 460-475006/3	S000264.D	11/06/2017	21:38
	LCSD 460-475006/4	S000265.D	11/06/2017	22:02
	MB 460-475006/7	S000268.D	11/06/2017	23:14
MW-1S MS	460-144244-1 MS	S000287.D	11/07/2017	07:05
MW-1S MSD	460-144244-1 MSD	S000288.D	11/07/2017	07:29

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Sample No.: CCVIS 460-474314/2 Date Analyzed: 11/03/2017 07:27
 Instrument ID: CVOAMS14 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): S000116.D Heated Purge: (Y/N) Y
 Calibration ID: 64839

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		8886	5.05	238	5.74	3352	8.43
UPPER LIMIT		17772	5.55	476	6.24	6704	8.93
LOWER LIMIT		4443	4.55	119	5.24	1676	7.93
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-474314/3		8562	5.05	228	5.74	3346	8.43
LCSD 460-474314/4		8020	5.05	203	5.74	3077	8.44
MB 460-474314/8		7917	5.05	201	5.74	2950	8.43
460-144244-16	Trip Blank	8333	5.05	213	5.74	3255	8.43
460-144244-13	FB-X	8391	5.05	206	5.74	3287	8.43
460-144244-11	EB-PROBE	8158	5.05	228	5.74	3186	8.43
460-144244-12	EB-TUBING	8176	5.05	232	5.74	3167	8.43
460-144244-1	MW-1S	8383	5.05	229	5.74	3216	8.43
460-144244-2	MW-1D	8425	5.05	186	5.74	3252	8.43
460-144244-3	MW-2S	8133	5.05	226	5.74	3162	8.44
460-144244-4	MW-2D	7555	5.05	269	5.74	2728	8.43
460-144244-5	MW-3S	7276	5.05	246	5.74	2669	8.43
460-144244-6	MW-3D	7064	5.05	249	5.74	2534	8.44
460-144244-7	MW-4S	7868	5.05	216	5.74	2931	8.43
460-144244-8	MW-4D	7930	5.05	207	5.74	2948	8.43
460-144244-9	NPPRS	7448	5.05	205	5.74	2731	8.43
460-144244-10	SPPRS	7004	5.05	204	5.74	2557	8.43
460-144244-15	MW-X-DUP	7726	5.05	210	5.74	2837	8.43

FB = Fluorobenzene

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Sample No.: CCVIS 460-474523/3 Date Analyzed: 11/03/2017 22:02
 Instrument ID: CVOAMS14 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): S000148.D Heated Purge: (Y/N) Y
 Calibration ID: 64839

	FB		DXE		CBNZd5		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	7766	5.05	199	5.74	3040	8.43	
UPPER LIMIT	15532	5.55	398	6.24	6080	8.93	
LOWER LIMIT	3883	4.55	100	5.24	1520	7.93	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 460-474523/4		7259	5.05	223	5.74	2820	8.43
LCSD 460-474523/5		7969	5.05	219	5.74	3106	8.43
MB 460-474523/8		8511	5.05	207	5.74	3288	8.43
460-144244-14	Leachate	9868	5.05	257	5.74	3887	8.43

FB = Fluorobenzene

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Sample No.: CCVIS 460-475006/2 Date Analyzed: 11/06/2017 21:14
 Instrument ID: CVOAMS14 GC Column: Rtx-624 ID: 0.25 (mm)
 Lab File ID (Standard): S000263.D Heated Purge: (Y/N) Y
 Calibration ID: 64841

		FB		DXE		CBNZd5	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		12461	5.05	300	5.73	4624	8.43
UPPER LIMIT		24922	5.55	600	6.23	9248	8.93
LOWER LIMIT		6231	4.55	150	5.23	2312	7.93
LAB SAMPLE ID		CLIENT SAMPLE ID					
LCS 460-475006/3		11632	5.05	293	5.73	4295	8.43
LCSD 460-475006/4		11583	5.05	289	5.73	4379	8.43
MB 460-475006/7		11015	5.05	291	5.73	4106	8.43
460-144244-1 MS	MW-1S MS	8862	5.05	236	5.73	3360	8.43
460-144244-1 MSD	MW-1S MSD	9169	5.05	298	5.73	3399	8.43

FB = Fluorobenzene

DXE = 1,4-Dioxane-d8

CBNZd5 = Chlorobenzene-d5

Area Limit = 50%-200% of internal standard area

RT Limit = $\pm$ 0.5 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-1S Lab Sample ID: 460-144244-1
Matrix: Water Lab File ID: S000128.D
Analysis Method: 8260C SIM Date Collected: 10/31/2017 15:25
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 13:09
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		71-144
460-00-4	4-Bromofluorobenzene	92		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000128.D
 Lims ID: 460-144244-D-1
 Client ID: MW-1S
 Sample Type: Client
 Inject. Date: 03-Nov-2017 13:09:16 ALS Bottle#: 0 Worklist Smp#: 14
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-1
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 00:06:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:06:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8383	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	41	229	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	3216	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.808	-0.029	100	2569	0.5822	
\$ 5 4-Bromofluorobenzene	95	9.904	9.897	0.007	84	2365	0.4606	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000128.D

Injection Date: 03-Nov-2017 13:09:16

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-1

Lab Sample ID: 460-144244-1

Worklist Smp#: 14

Client ID: MW-1S

Purge Vol: 5.000 mL

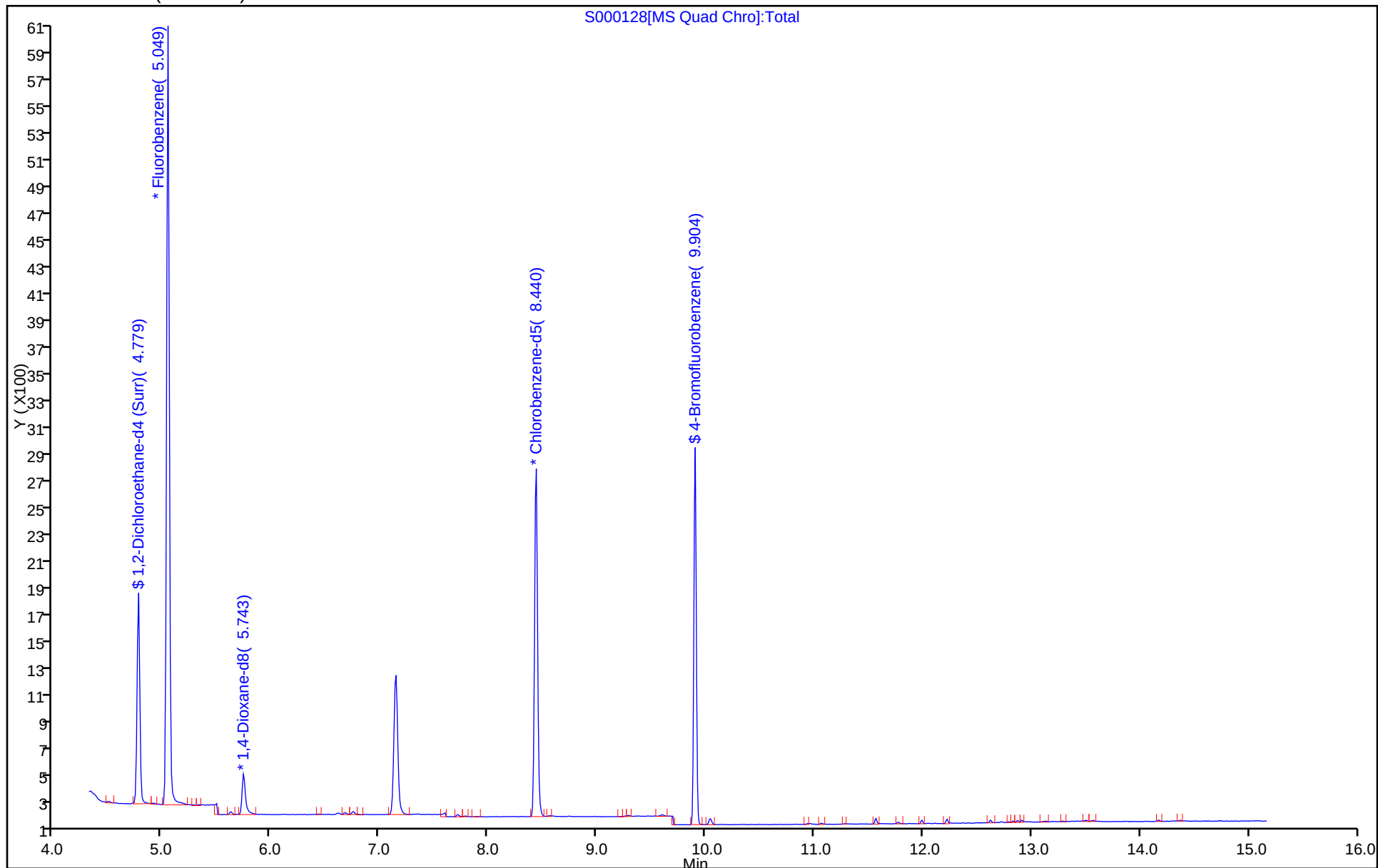
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-1D Lab Sample ID: 460-144244-2
Matrix: Water Lab File ID: S000129.D
Analysis Method: 8260C SIM Date Collected: 10/31/2017 15:25
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 13:33
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	115		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000129.D
Lims ID: 460-144244-E-2
Client ID: MW-1D
Sample Type: Client
Inject. Date: 03-Nov-2017 13:33:13 ALS Bottle#: 0 Worklist Smp#: 15
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Sample Info: 460-144244-E-2
Operator ID: Instrument ID: CVOAMS14
Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 04-Nov-2017 00:06:48 Calib Date: 31-Oct-2017 01:13:24
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:08:02

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8425	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	42	186	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	3252	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.808	-0.030	100	2555	0.5762	
\$ 5 4-Bromofluorobenzene	95	9.903	9.897	0.006	84	2340	0.4507	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000129.D

Injection Date: 03-Nov-2017 13:33:13

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-E-2

Lab Sample ID: 460-144244-2

Worklist Smp#: 15

Client ID: MW-1D

Purge Vol: 5.000 mL

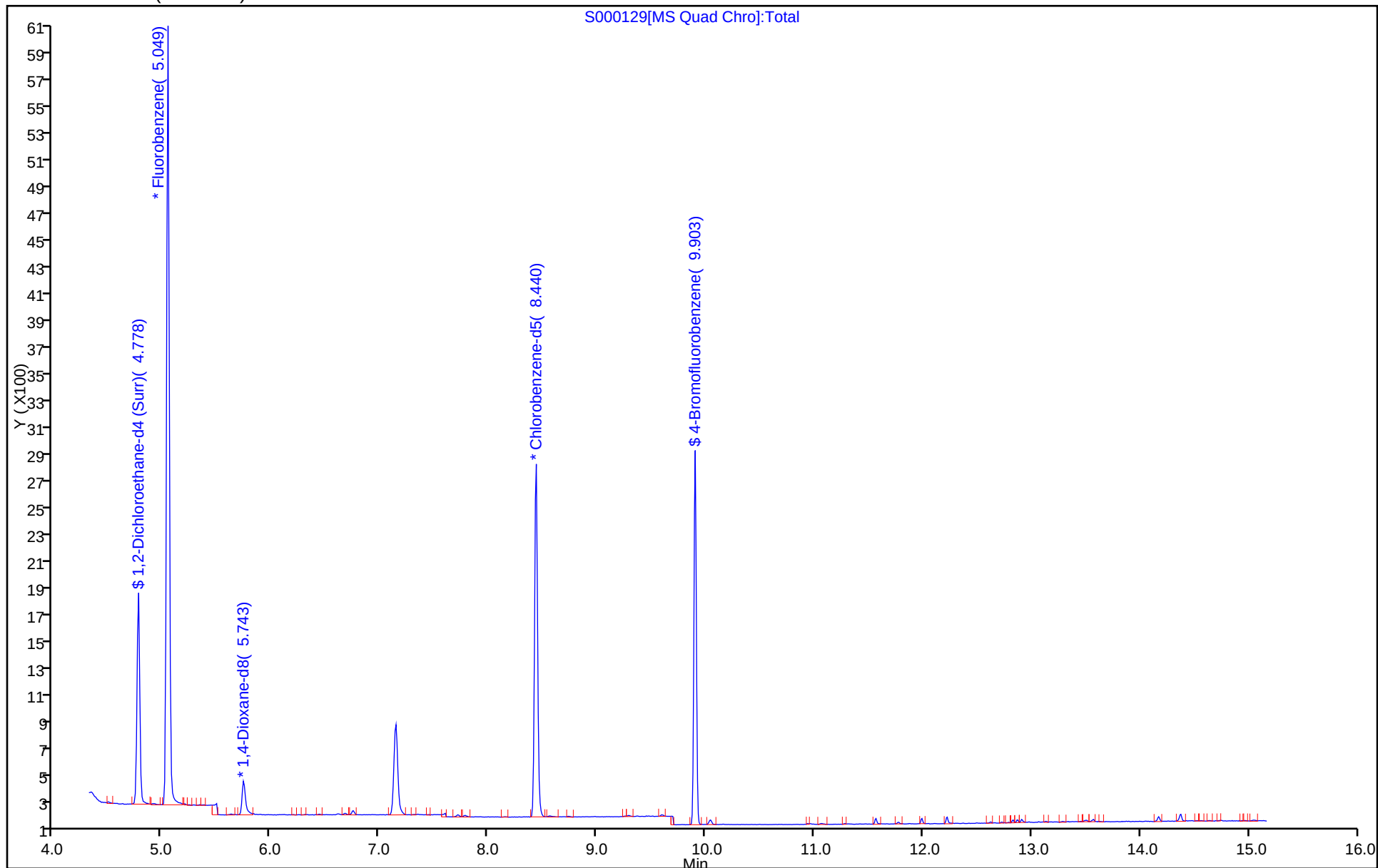
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-2S Lab Sample ID: 460-144244-3
Matrix: Water Lab File ID: S000130.D
Analysis Method: 8260C SIM Date Collected: 11/01/2017 10:25
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 13:57
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000130.D
 Lims ID: 460-144244-D-3
 Client ID: MW-2S
 Sample Type: Client
 Inject. Date: 03-Nov-2017 13:57:08 ALS Bottle#: 0 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-3
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 00:06:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:08:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8133	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	43	226	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.432	0.008	100	3162	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.808	-0.030	100	2491	0.5819	
\$ 5 4-Bromofluorobenzene	95	9.896	9.897	-0.001	99	2270	0.4497	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000130.D

Injection Date: 03-Nov-2017 13:57:08

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-3

Lab Sample ID: 460-144244-3

Worklist Smp#: 16

Client ID: MW-2S

Purge Vol: 5.000 mL

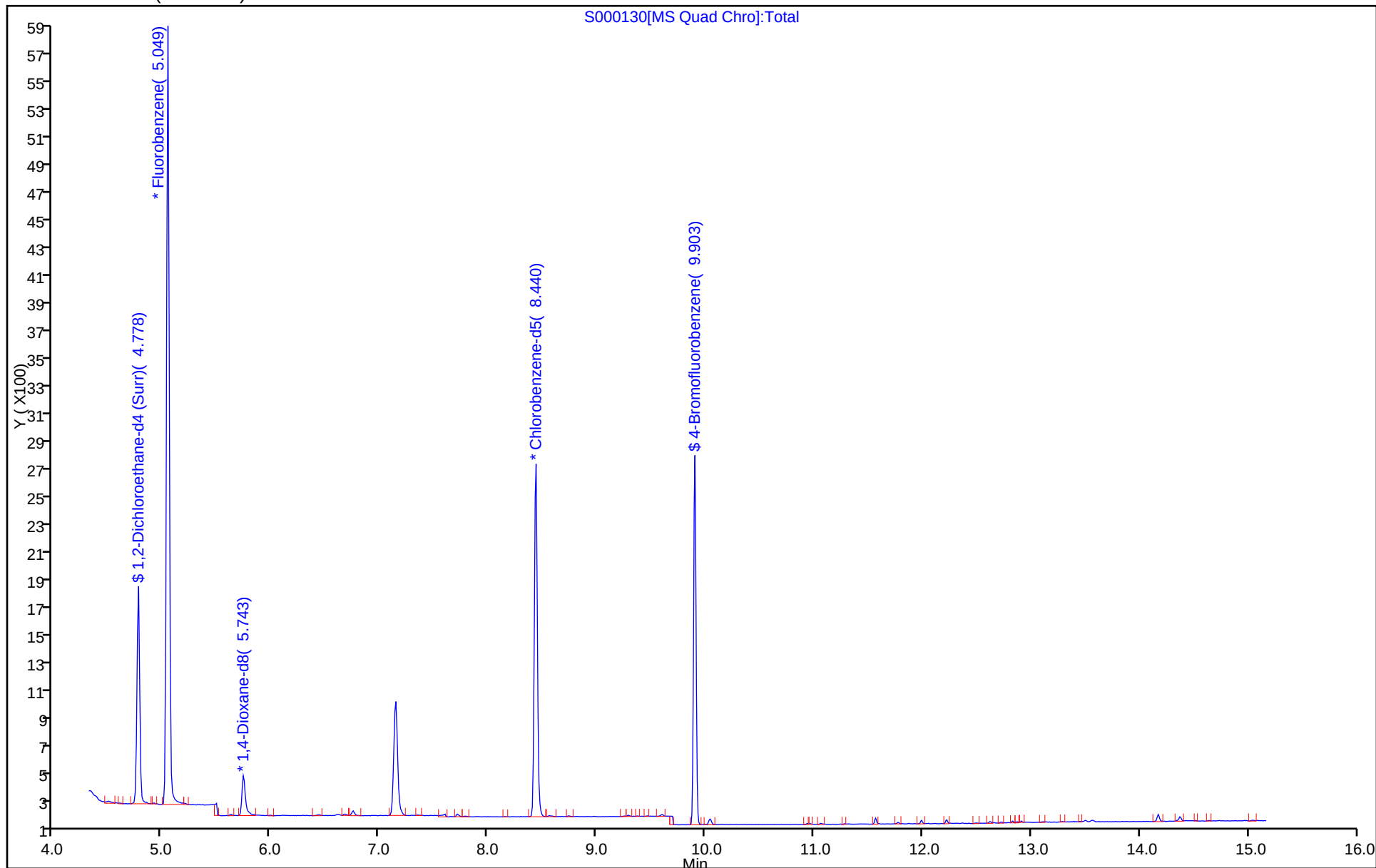
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-2D Lab Sample ID: 460-144244-4
Matrix: Water Lab File ID: S000131.D
Analysis Method: 8260C SIM Date Collected: 11/01/2017 10:40
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 14:21
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	113		71-144
460-00-4	4-Bromofluorobenzene	88		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000131.D
 Lims ID: 460-144244-D-4
 Client ID: MW-2D
 Sample Type: Client
 Inject. Date: 03-Nov-2017 15:21:02 ALS Bottle#: 0 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-4
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 06-Nov-2017 11:23:19 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: boykink

Date: 04-Nov-2017 00:10:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7555	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	41	269	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.432	-0.001	93	2728	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.808	-0.030	100	2249	0.5656	
\$ 5 4-Bromofluorobenzene	95	9.903	9.897	0.006	86	1923	0.4415	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000131.D

Injection Date: 03-Nov-2017 15:21:02

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-4

Lab Sample ID: 460-144244-4

Worklist Smp#: 17

Client ID: MW-2D

Purge Vol: 5.000 mL

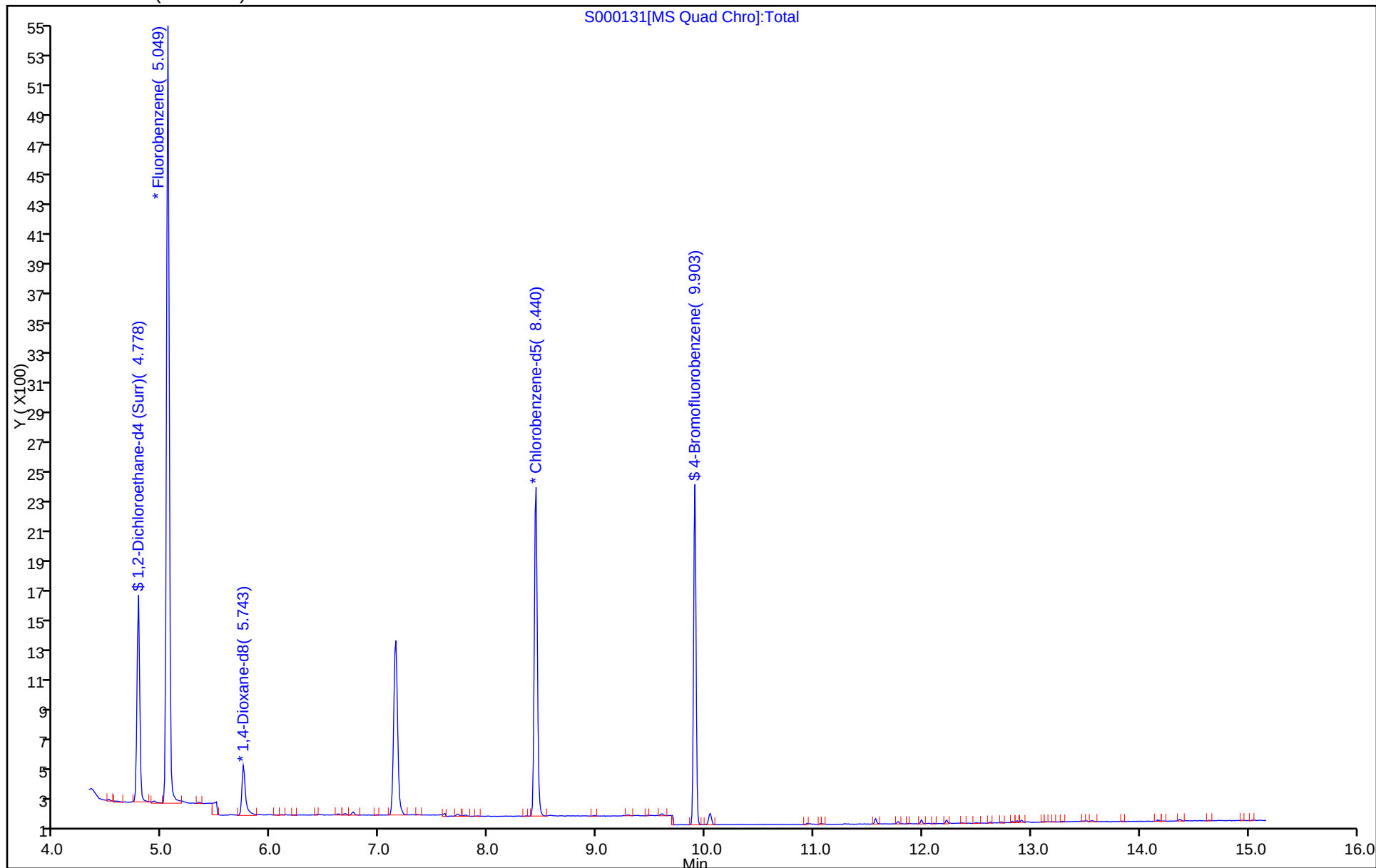
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-3S Lab Sample ID: 460-144244-5
Matrix: Water Lab File ID: S000132.D
Analysis Method: 8260C SIM Date Collected: 10/31/2017 17:10
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 14:45
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	121		71-144
460-00-4	4-Bromofluorobenzene	93		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000132.D
 Lims ID: 460-144244-D-5
 Client ID: MW-3S
 Sample Type: Client
 Inject. Date: 03-Nov-2017 14:45:00 ALS Bottle#: 0 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-5
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 00:06:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:10:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7276	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	42	246	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.432	-0.001	93	2669	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.808	-0.030	100	2325	0.6071	
\$ 5 4-Bromofluorobenzene	95	9.903	9.897	0.006	86	1981	0.4649	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000132.D

Injection Date: 03-Nov-2017 14:45:00

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-5

Lab Sample ID: 460-144244-5

Worklist Smp#: 18

Client ID: MW-3S

Purge Vol: 5.000 mL

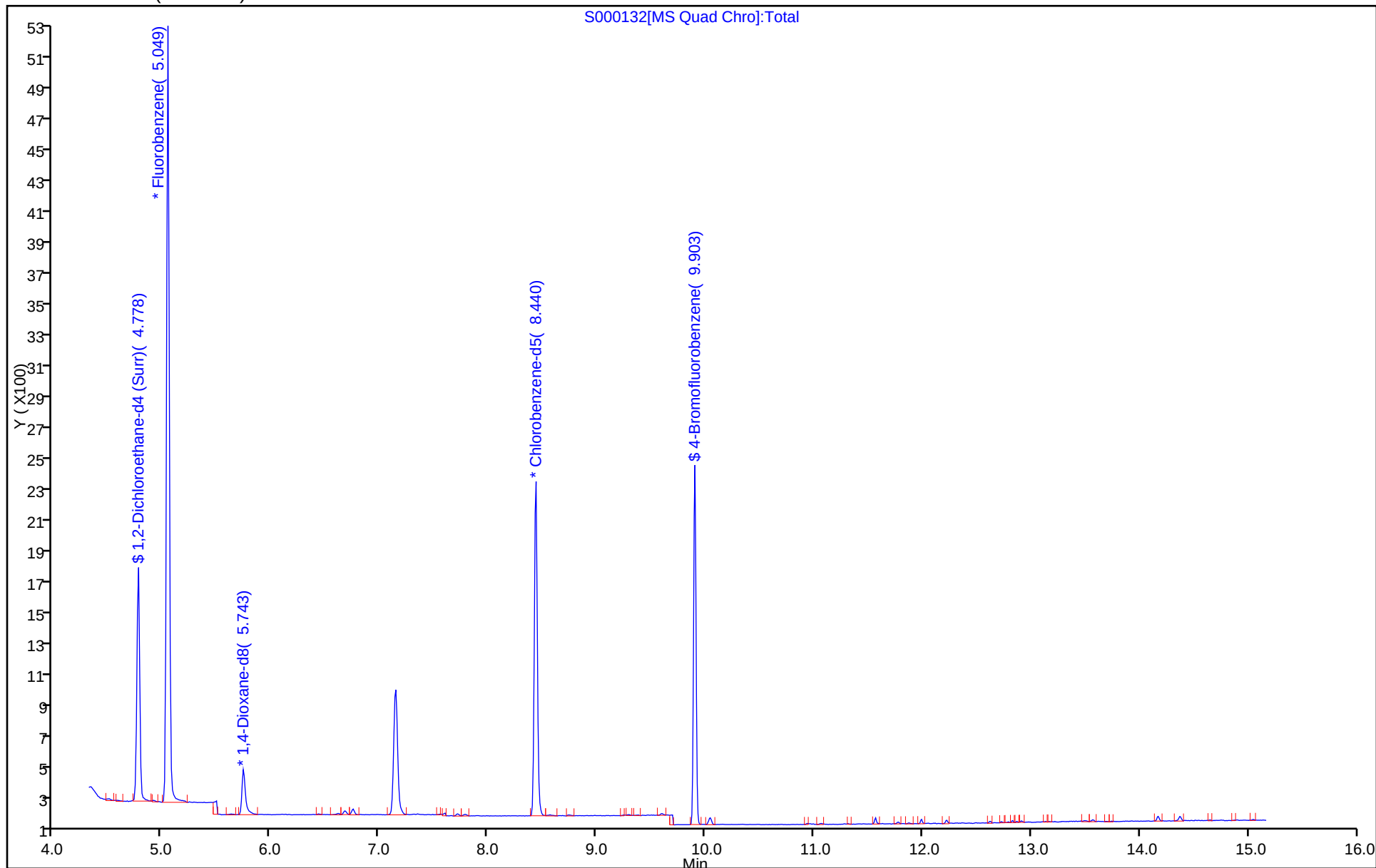
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-3D Lab Sample ID: 460-144244-6
Matrix: Water Lab File ID: S000133.D
Analysis Method: 8260C SIM Date Collected: 11/01/2017 12:55
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 15:08
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		71-144
460-00-4	4-Bromofluorobenzene	87		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000133.D
 Lims ID: 460-144244-D-6
 Client ID: MW-3D
 Sample Type: Client
 Inject. Date: 03-Nov-2017 15:08:57 ALS Bottle#: 0 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-6
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 00:06:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:10:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7064	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	41	249	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.432	0.008	100	2534	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.808	-0.029	100	2076	0.5583	
\$ 5 4-Bromofluorobenzene	95	9.904	9.897	0.007	85	1765	0.4363	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000133.D

Injection Date: 03-Nov-2017 15:08:57

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-6

Lab Sample ID: 460-144244-6

Worklist Smp#: 19

Client ID: MW-3D

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

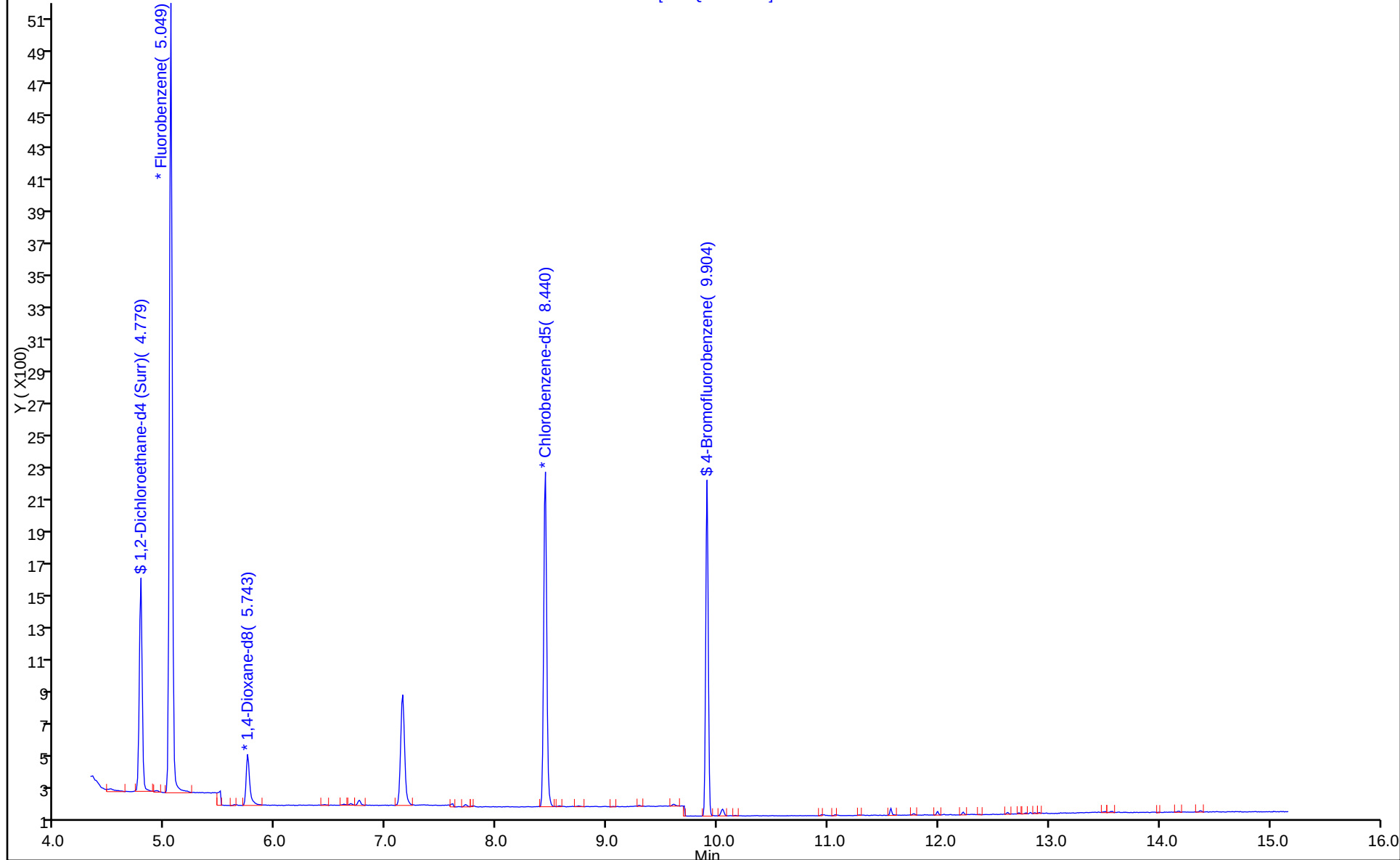
ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

S000133[MS Quad Chro]:Total



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-4S Lab Sample ID: 460-144244-7
Matrix: Water Lab File ID: S000134.D
Analysis Method: 8260C SIM Date Collected: 11/01/2017 12:20
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 15:32
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	117		71-144
460-00-4	4-Bromofluorobenzene	88		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000134.D
 Lims ID: 460-144244-D-7
 Client ID: MW-4S
 Sample Type: Client
 Inject. Date: 03-Nov-2017 15:32:54 ALS Bottle#: 0 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-7
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 00:06:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:10:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7868	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	42	216	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	2931	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.808	-0.030	100	2415	0.5831	
\$ 5 4-Bromofluorobenzene	95	9.903	9.897	0.006	86	2069	0.4421	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000134.D

Injection Date: 03-Nov-2017 15:32:54

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-7

Lab Sample ID: 460-144244-7

Worklist Smp#: 20

Client ID: MW-4S

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

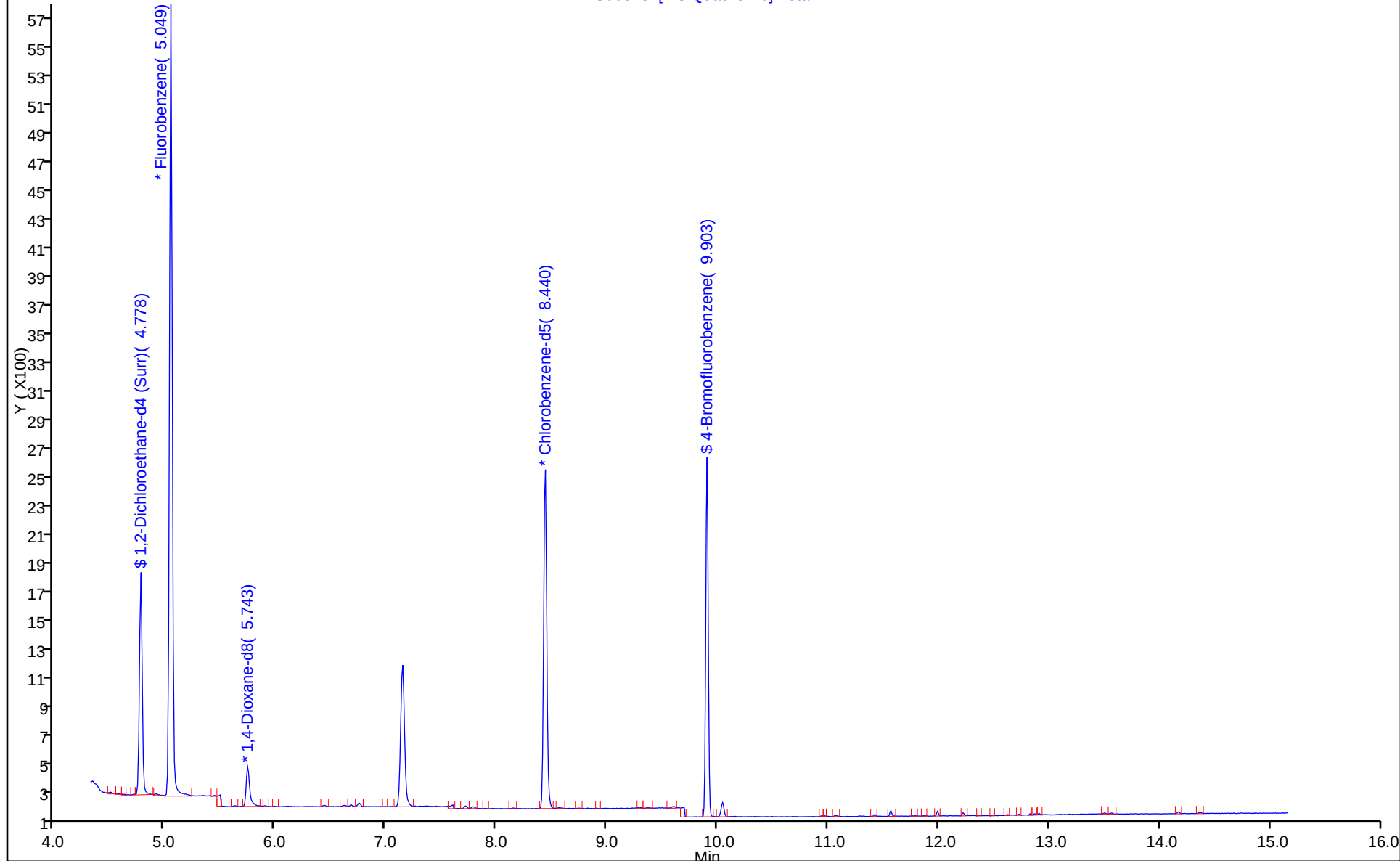
ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

S000134[MS Quad Chro]:Total



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-4D Lab Sample ID: 460-144244-8
Matrix: Water Lab File ID: S000135.D
Analysis Method: 8260C SIM Date Collected: 11/01/2017 12:30
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 15:56
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	119		71-144
460-00-4	4-Bromofluorobenzene	91		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000135.D
 Lims ID: 460-144244-D-8
 Client ID: MW-4D
 Sample Type: Client
 Inject. Date: 03-Nov-2017 15:56:57 ALS Bottle#: 0 Worklist Smp#: 21
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-8
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 00:06:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:10:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7930	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	42	207	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	2948	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.808	-0.029	100	2477	0.5934	
\$ 5 4-Bromofluorobenzene	95	9.897	9.897	0.000	97	2138	0.4542	

Reagents:

SimissurNEW_00010 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171103-62850.b\\S000135.D

Injection Date: 03-Nov-2017 15:56:57

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-8

Lab Sample ID: 460-144244-8

Worklist Smp#: 21

Client ID: MW-4D

Purge Vol: 5.000 mL

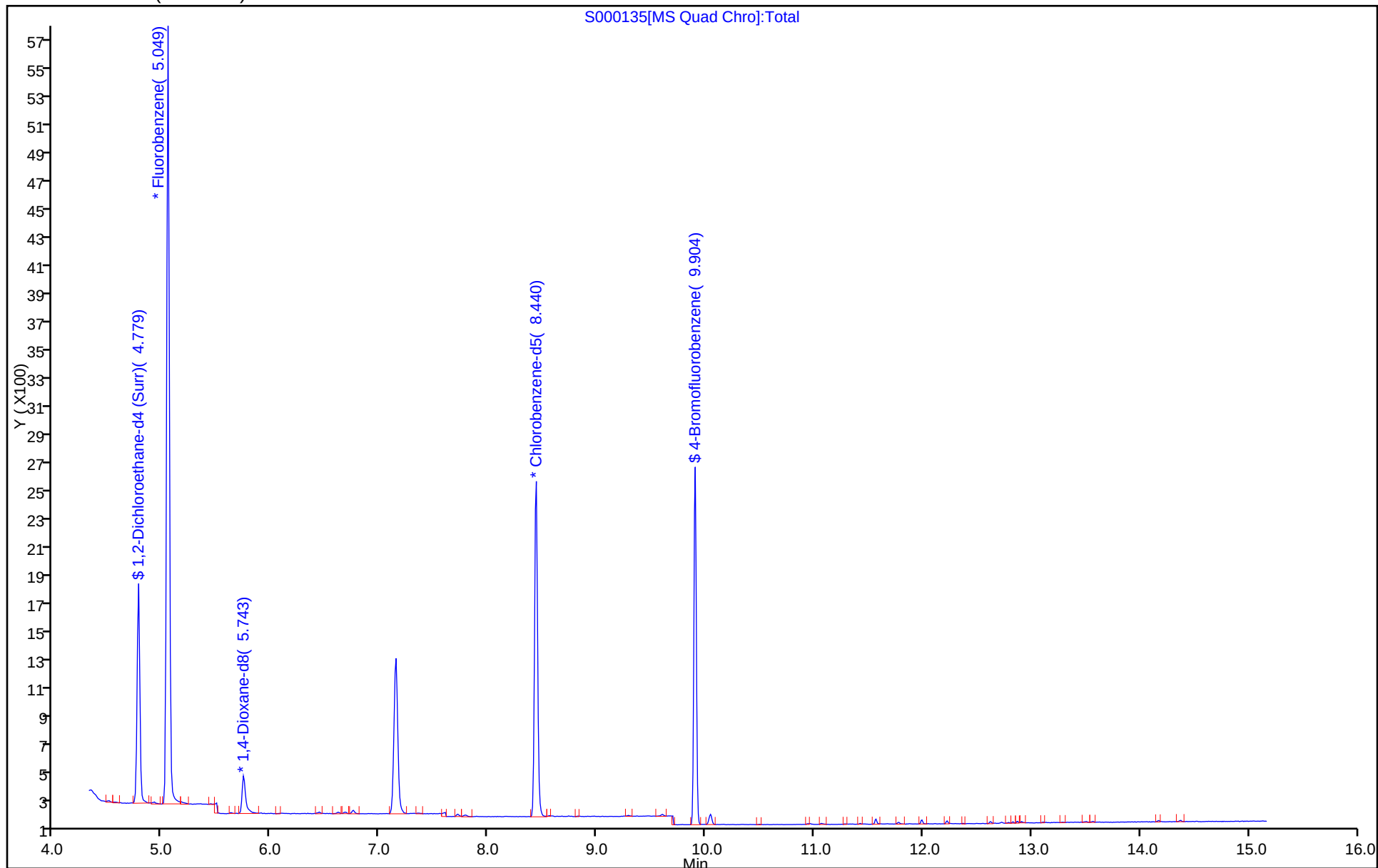
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: NPPRS Lab Sample ID: 460-144244-9
 Matrix: Water Lab File ID: S000136.D
 Analysis Method: 8260C SIM Date Collected: 10/31/2017 12:50
 Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 16:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		71-144
460-00-4	4-Bromofluorobenzene	88		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000136.D
 Lims ID: 460-144244-D-9
 Client ID: NPPRS
 Sample Type: Client
 Inject. Date: 03-Nov-2017 16:20:57 ALS Bottle#: 0 Worklist Smp#: 22
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-9
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 00:06:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:10:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7448	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	43	205	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	2731	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.808	-0.029	100	2269	0.5788	
\$ 5 4-Bromofluorobenzene	95	9.897	9.897	-0.001	98	1911	0.4383	

Reagents:

SimissurNEW_00010 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000136.D

Injection Date: 03-Nov-2017 16:20:57

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-9

Lab Sample ID: 460-144244-9

Worklist Smp#: 22

Client ID: NPPRS

Purge Vol: 5.000 mL

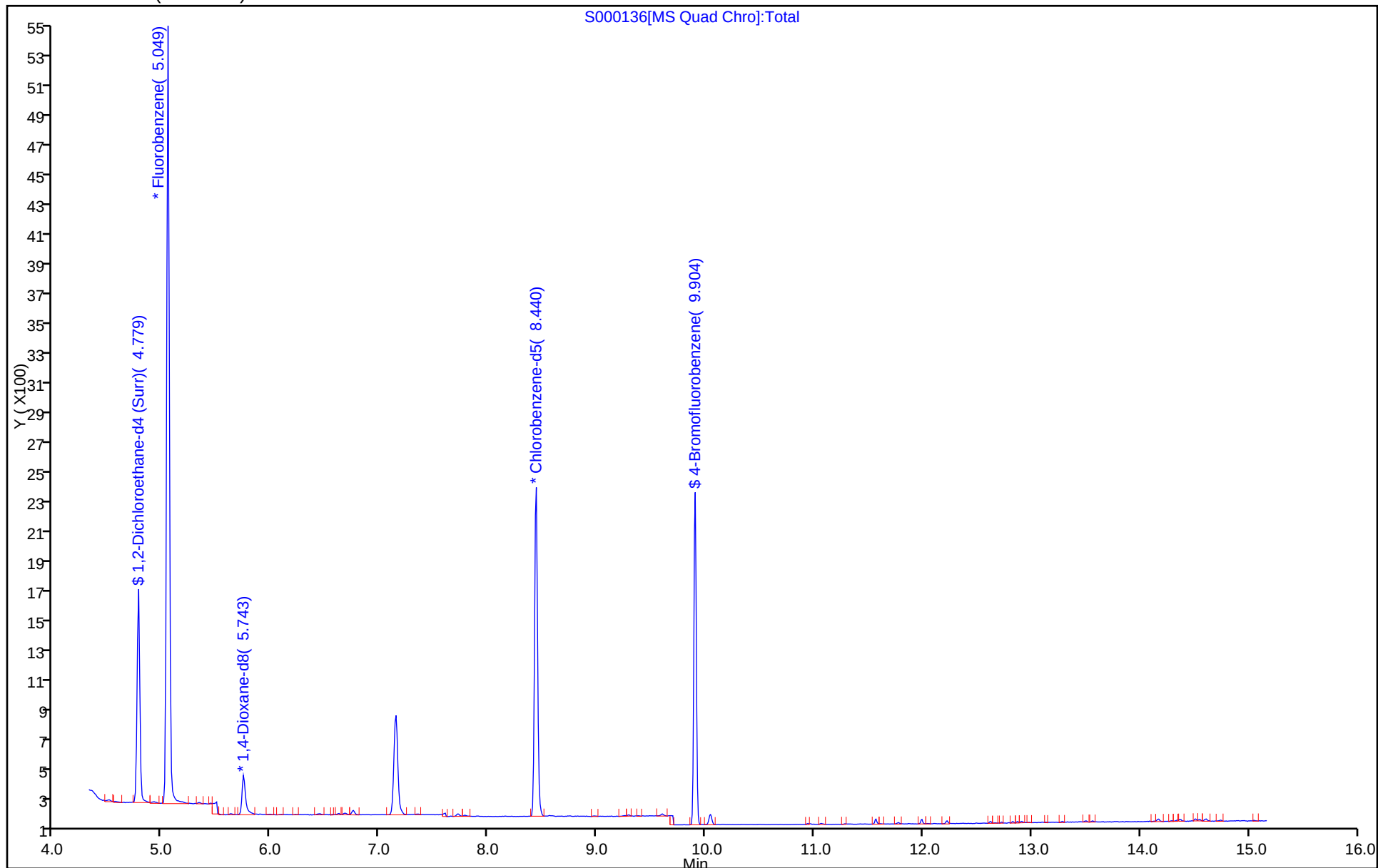
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: SPPRS Lab Sample ID: 460-144244-10
 Matrix: Water Lab File ID: S000137.D
 Analysis Method: 8260C SIM Date Collected: 10/31/2017 12:30
 Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 16:44
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		71-144
460-00-4	4-Bromofluorobenzene	87		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000137.D
 Lims ID: 460-144244-D-10
 Client ID: SPPRS
 Sample Type: Client
 Inject. Date: 03-Nov-2017 17:44:56 ALS Bottle#: 0 Worklist Smp#: 23
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-10
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 06-Nov-2017 11:23:53 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: boykink

Date: 04-Nov-2017 00:11:26

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7004	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	40	204	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.432	-0.001	94	2557	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.808	-0.030	100	2144	0.5816	
\$ 5 4-Bromofluorobenzene	95	9.896	9.897	-0.001	98	1774	0.4345	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000137.D

Injection Date: 03-Nov-2017 17:44:56

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-10

Lab Sample ID: 460-144244-10

Worklist Smp#: 23

Client ID: SPPRS

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

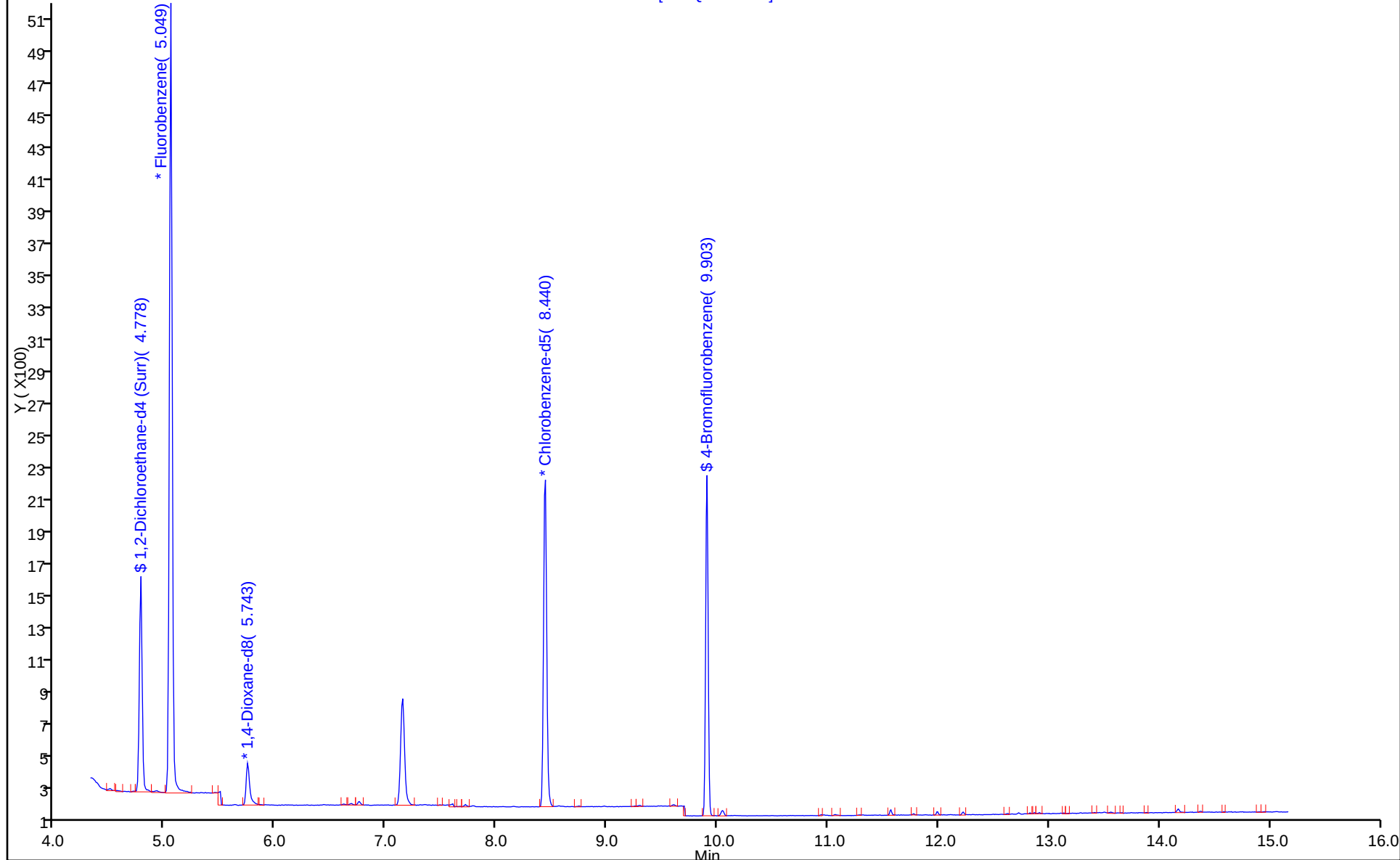
ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

S000137[MS Quad Chro]:Total



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: EB-PROBE Lab Sample ID: 460-144244-11
 Matrix: Water Lab File ID: S000126.D
 Analysis Method: 8260C SIM Date Collected: 10/31/2017 11:10
 Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 12:21
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	112		71-144
460-00-4	4-Bromofluorobenzene	91		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000126.D
 Lims ID: 460-144244-D-11
 Client ID: EB-PROBE
 Sample Type: Client
 Inject. Date: 03-Nov-2017 12:21:17 ALS Bottle#: 0 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-11
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 03-Nov-2017 13:13:29 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: desais

Date: 03-Nov-2017 13:13:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8158	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	46	228	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	3186	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.779	0.000	100	2409	0.5610	
\$ 5 4-Bromofluorobenzene	95	9.897	9.897	-0.001	94	2327	0.4575	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000126.D

Injection Date: 03-Nov-2017 12:21:17

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-11

Lab Sample ID: 460-144244-11

Worklist Smp#: 12

Client ID: EB-PROBE

Purge Vol: 5.000 mL

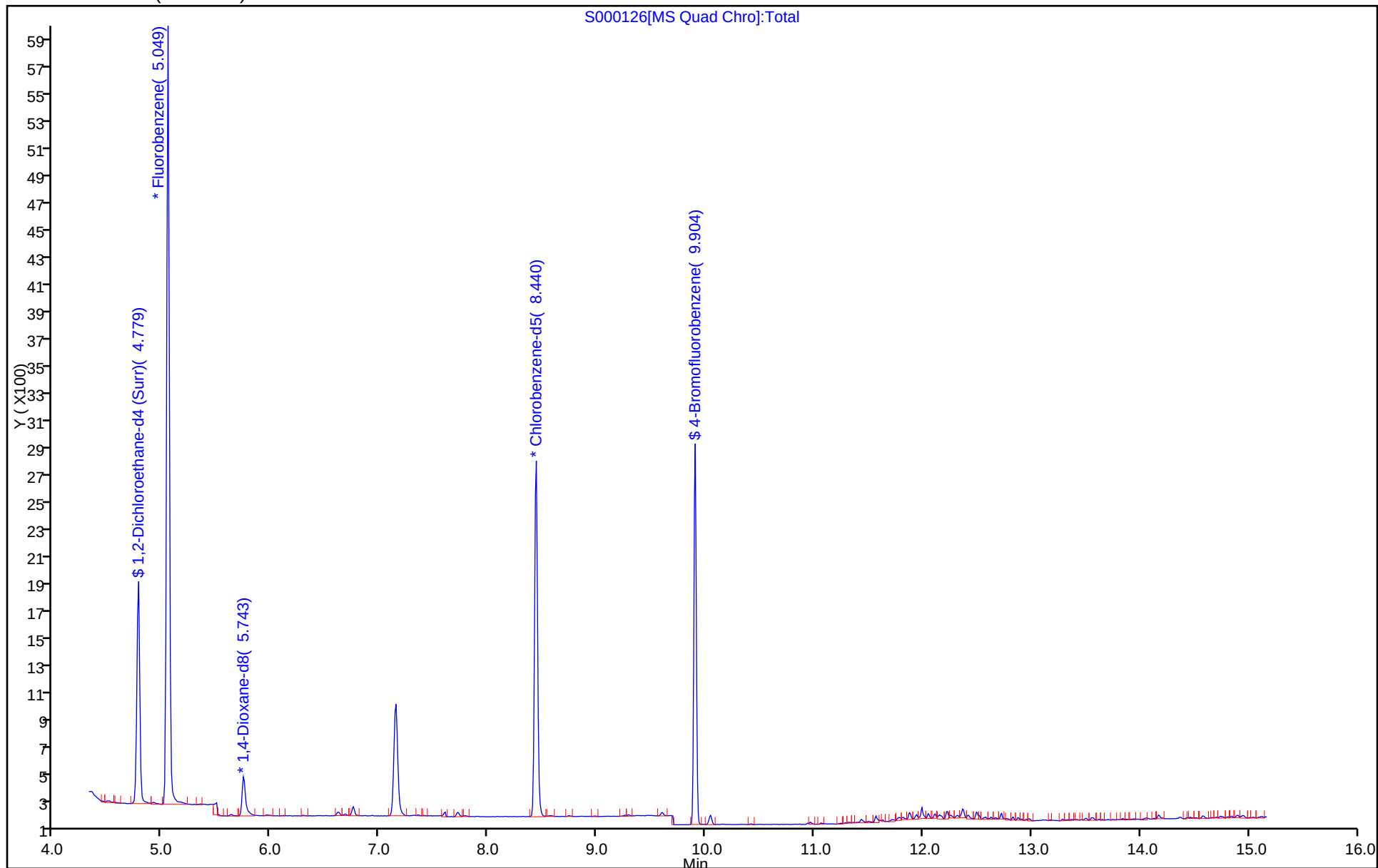
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: EB-TUBING Lab Sample ID: 460-144244-12
 Matrix: Water Lab File ID: S000127.D
 Analysis Method: 8260C SIM Date Collected: 10/31/2017 11:25
 Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 12:45
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	116		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000127.D
 Lims ID: 460-144244-D-12
 Client ID: EB-TUBING
 Sample Type: Client
 Inject. Date: 03-Nov-2017 12:45:15 ALS Bottle#: 0 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-12
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 03-Nov-2017 13:13:29 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: desais

Date: 03-Nov-2017 13:13:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8176	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	46	232	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	3167	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.779	-0.001	100	2502	0.5814	
\$ 5 4-Bromofluorobenzene	95	9.903	9.897	0.006	98	2285	0.4519	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000127.D

Injection Date: 03-Nov-2017 12:45:15

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-12

Lab Sample ID: 460-144244-12

Worklist Smp#: 13

Client ID: EB-TUBING

Purge Vol: 5.000 mL

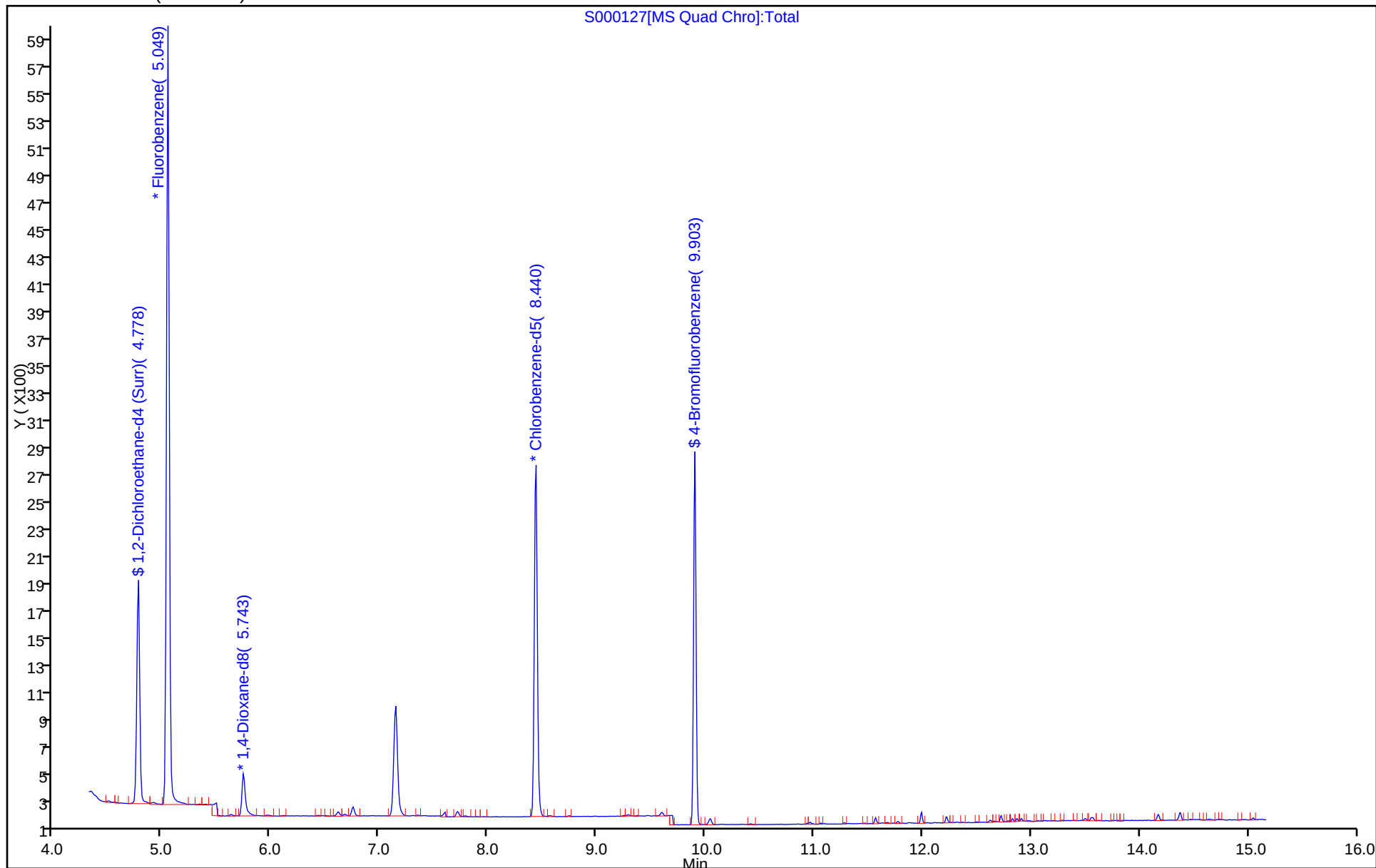
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: FB-X Lab Sample ID: 460-144244-13
Matrix: Water Lab File ID: S000125.D
Analysis Method: 8260C SIM Date Collected: 11/01/2017 13:15
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 11:57
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		71-144
460-00-4	4-Bromofluorobenzene	91		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000125.D
 Lims ID: 460-144244-D-13
 Client ID: FB-X
 Sample Type: Client
 Inject. Date: 03-Nov-2017 11:57:20 ALS Bottle#: 0 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-13
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 03-Nov-2017 13:13:29 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: desais

Date: 03-Nov-2017 13:13:20

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8391	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	48	206	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	3287	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.779	-0.001	100	2452	0.5552	
\$ 5 4-Bromofluorobenzene	95	9.903	9.897	0.006	100	2393	0.4560	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000125.D

Injection Date: 03-Nov-2017 11:57:20

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-13

Lab Sample ID: 460-144244-13

Worklist Smp#: 11

Client ID: FB-X

Purge Vol: 5.000 mL

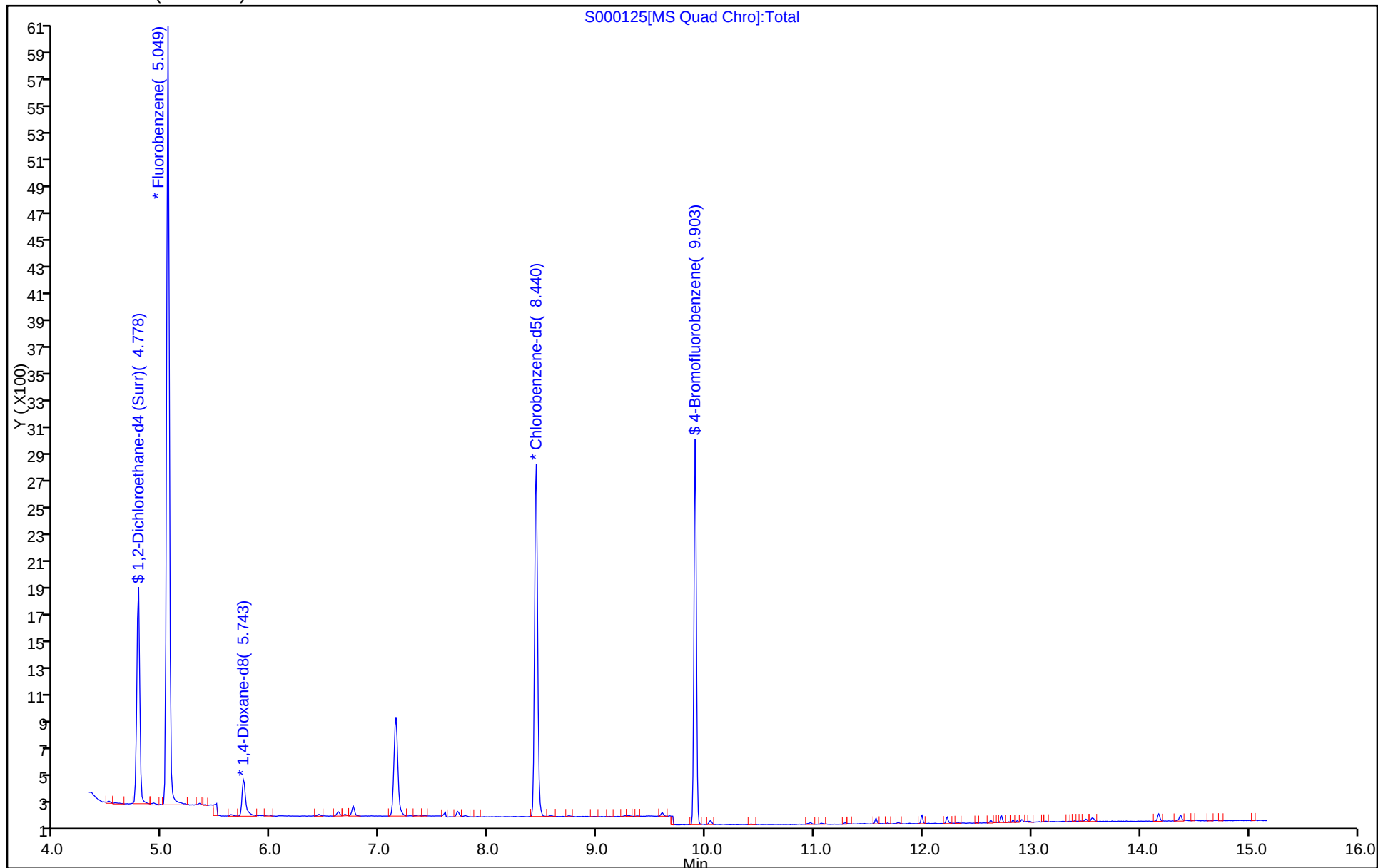
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: Leachate Lab Sample ID: 460-144244-14
Matrix: Water Lab File ID: S000173.D
Analysis Method: 8260C SIM Date Collected: 10/31/2017 12:05
Sample wt/vol: 10 (mL) Date Analyzed: 11/04/2017 08:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	108		71-144
460-00-4	4-Bromofluorobenzene	93		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000173.D
 Lims ID: 460-144244-D-14
 Client ID: Leachate
 Sample Type: Client
 Inject. Date: 04-Nov-2017 08:02:39 ALS Bottle#: 0 Worklist Smp#: 28
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-14
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 08:55:52 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: desais

Date: 04-Nov-2017 08:53:59

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	9868	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	46	257	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.432	-0.001	94	3887	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2818	0.5425	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	96	2879	0.4639	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000173.D

Injection Date: 04-Nov-2017 08:02:39

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-14

Lab Sample ID: 460-144244-14

Worklist Smp#: 28

Client ID: Leachate

Purge Vol: 5.000 mL

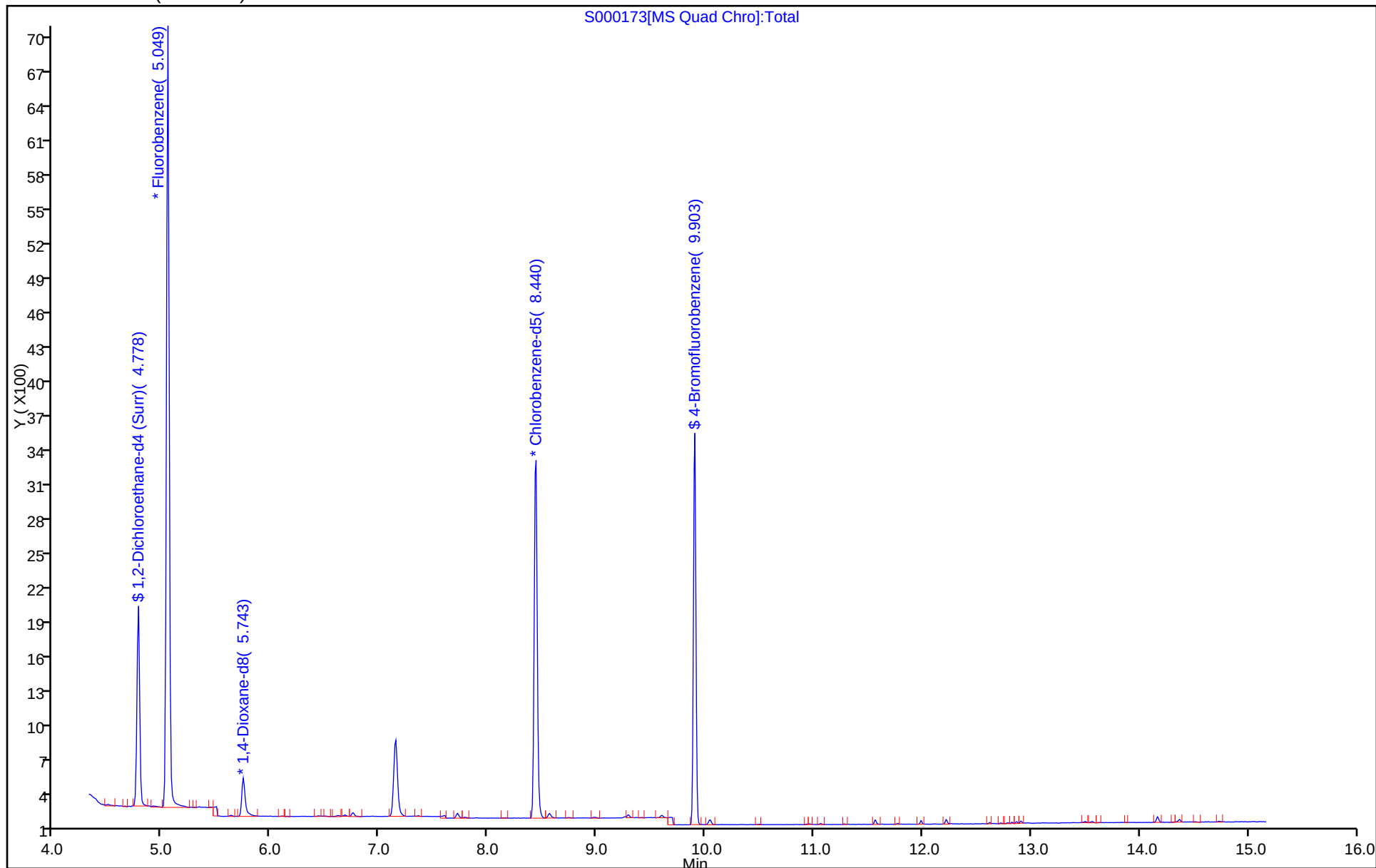
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: MW-X-DUP Lab Sample ID: 460-144244-15
 Matrix: Water Lab File ID: S000139.D
 Analysis Method: 8260C SIM Date Collected: 10/31/2017 00:00
 Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 17:32
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	118		71-144
460-00-4	4-Bromofluorobenzene	87		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000139.D
 Lims ID: 460-144244-D-15
 Client ID: MW-X-DUP
 Sample Type: Client
 Inject. Date: 03-Nov-2017 17:32:51 ALS Bottle#: 0 Worklist Smp#: 25
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-15
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 00:11:40 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 04-Nov-2017 00:11:47

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7726	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	42	210	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	2837	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.808	-0.029	100	2392	0.5882	
\$ 5 4-Bromofluorobenzene	95	9.897	9.897	0.000	98	1963	0.4334	

Reagents:

SimissurNEW_00010 Amount Added: 2.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000139.D

Injection Date: 03-Nov-2017 17:32:51

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-15

Lab Sample ID: 460-144244-15

Worklist Smp#: 25

Client ID: MW-X-DUP

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

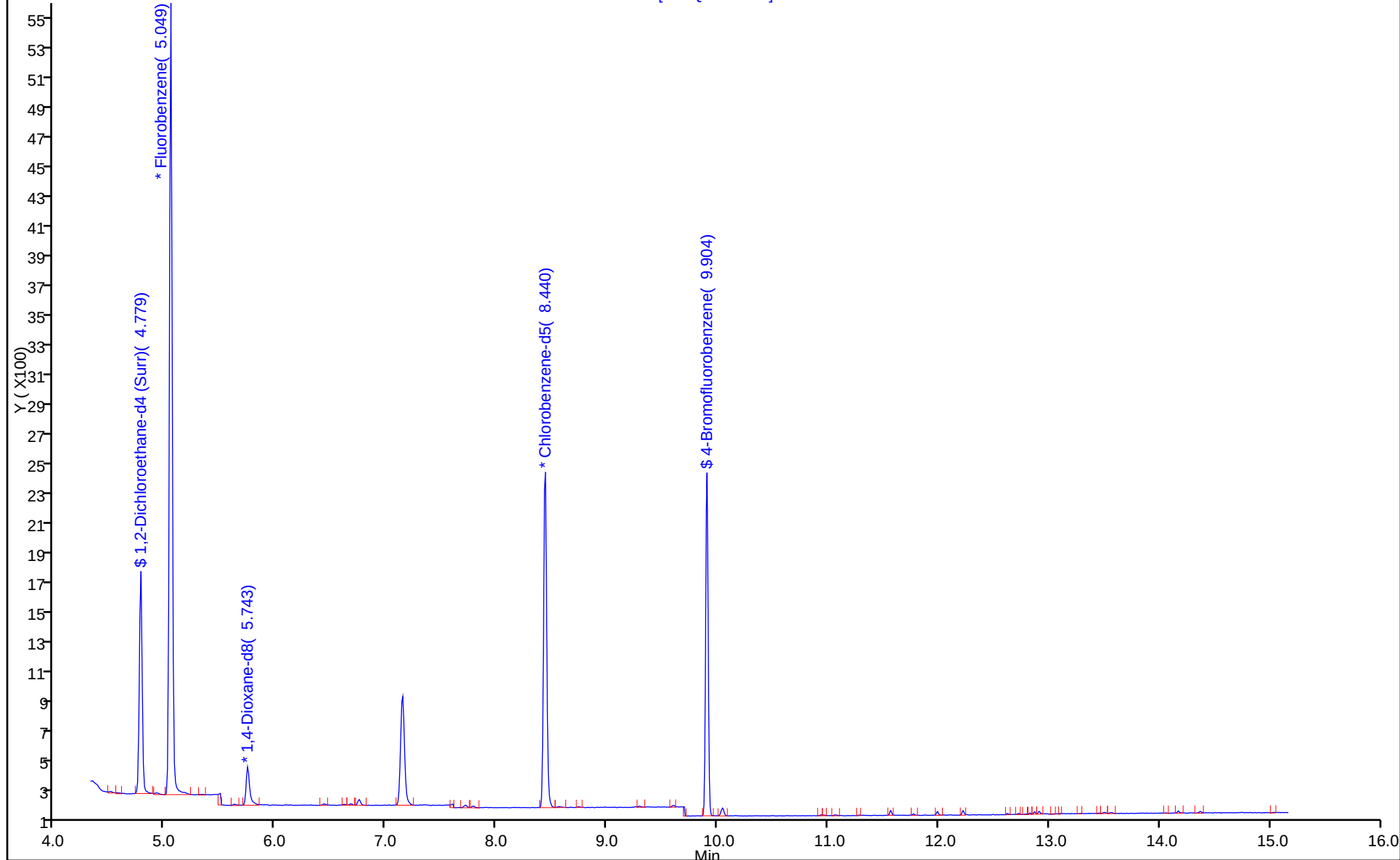
ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)

S000139[MS Quad Chro]:Total



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: Trip Blank Lab Sample ID: 460-144244-16
Matrix: Water Lab File ID: S000124.D
Analysis Method: 8260C SIM Date Collected: 11/01/2017 00:00
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 11:33
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		71-144
460-00-4	4-Bromofluorobenzene	92		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000124.D
 Lims ID: 460-144244-B-16
 Client ID: Trip Blank
 Sample Type: Client
 Inject. Date: 03-Nov-2017 11:33:22 ALS Bottle#: 0 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-B-16
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 03-Nov-2017 13:13:29 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: desais

Date: 03-Nov-2017 13:12:36

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8333	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	41	213	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	3255	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.779	-0.001	100	2432	0.5545	
\$ 5 4-Bromofluorobenzene	95	9.896	9.897	-0.001	93	2398	0.4614	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000124.D

Injection Date: 03-Nov-2017 11:33:22

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-B-16

Lab Sample ID: 460-144244-16

Worklist Smp#: 10

Client ID: Trip Blank

Purge Vol: 5.000 mL

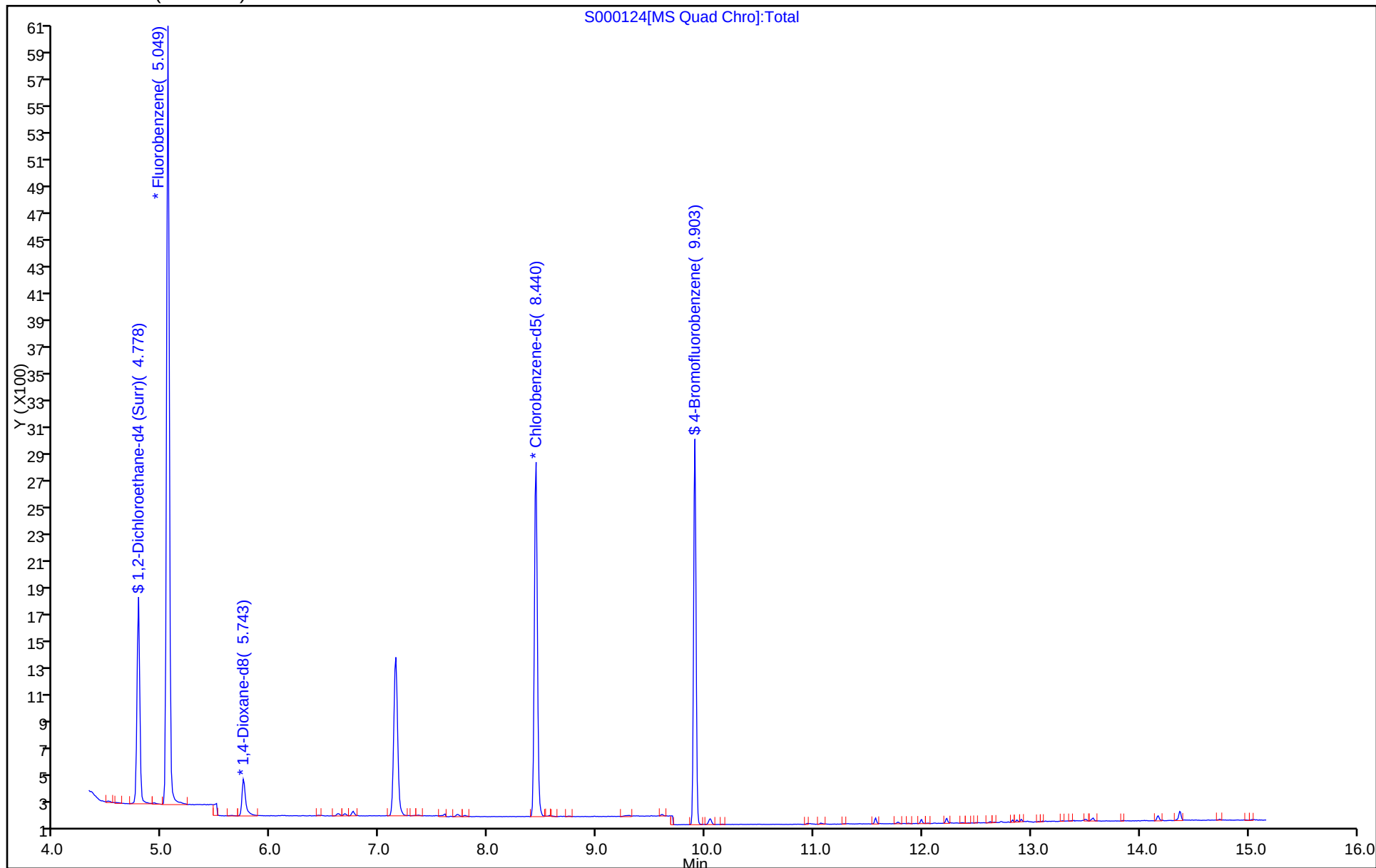
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 473294

SDG No.: _____

Instrument ID: CVOAMS14 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/30/2017 19:28 Calibration End Date: 10/31/2017 01:13 Calibration ID: 64839

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-473294/17	S000096.D
Level 2	STD1 460-473294/3	S000082.D
Level 3	STD5 460-473294/4	S000083.D
Level 4	STD10 460-473294/5	S000084.D
Level 5	STD20 460-473294/6	S000085.D
Level 6	STD30 460-473294/7	S000086.D
Level 7	STD40 460-473294/8	S000087.D
Level 8	STD50 460-473294/9	S000088.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	2.5376 1.8376	2.2830 1.7491	1.9352 1.8044	1.6507	1.7912	Ave		1.9486				15.6		20.0			
Ethylene Dibromide	0.4972 0.4569	0.5336 0.4200	0.5154 0.4367	0.5061	0.4791	Ave		0.4806			0.1000	8.3		20.0			
1,2,3-Trichloropropane	0.2121 0.1923	0.2189 0.1810	0.2075 0.1844	0.2093	0.2049	Ave		0.2013				6.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1326 0.1107	0.1587 0.1028	0.1414 0.1039	0.1325	0.1219	Ave		0.1256			0.0500	15.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2776 0.2624	0.2565 0.2655	0.2552 0.2681	0.2596	0.2606	Ave		0.2632				2.7		20.0			
4-Bromofluorobenzene	0.7510 0.7946	0.8296 0.7915	0.8220 0.7896	0.8074	0.8006	Ave		0.7983				3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 473294

SDG No.: _____

Instrument ID: CVOAMS14 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/30/2017 19:28 Calibration End Date: 10/31/2017 01:13 Calibration ID: 64839

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-473294/17	S000096.D
Level 2	STD1 460-473294/3	S000082.D
Level 3	STD5 460-473294/4	S000083.D
Level 4	STD10 460-473294/5	S000084.D
Level 5	STD20 460-473294/6	S000085.D
Level 6	STD30 460-473294/7	S000086.D
Level 7	STD40 460-473294/8	S000087.D
Level 8	STD50 460-473294/9	S000088.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DXE	Ave	27 1516	71 2057	269 2454	482	1021	0.400 30.0	1.00 40.0	5.00 50.0	10.0	20.0
Ethylene Dibromide	CBNZ d5	Ave	75 1865	195 3519	226 7034	428	774	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2,3-Trichloropropane	CBNZ d5	Ave	32 785	80 1516	91 2970	177	331	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dibromo-3-Chloropropane	CBNZ d5	Ave	20 452	58 861	62 1674	112	197	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	2860 2878	3025 3006	2960 2910	2952	2810	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500
4-Bromofluorobenzene	CBNZ d5	Ave	2833 3245	3791 3317	3606 3181	3415	3235	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000082.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Oct-2017 19:28:20 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 31-Oct-2017 20:43:31 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 30-Oct-2017 19:50:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11785	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	93	311	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4568	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	3025	0.5003	0.4877	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	100	3791	0.5002	0.5198	
7 1,4-Dioxane	88	5.804	5.804	0.000	90	71	1.00	1.17	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	195	0.0400	0.0444	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	80	0.0400	0.0435	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	99	58	0.0400	0.0506	

Reagents:

VMMIX1SIM_00103	Amount Added: 2.00	Units: uL	
SIMDIOX50_00014	Amount Added: 10.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000082.D

Injection Date: 30-Oct-2017 19:28:20

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD1

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

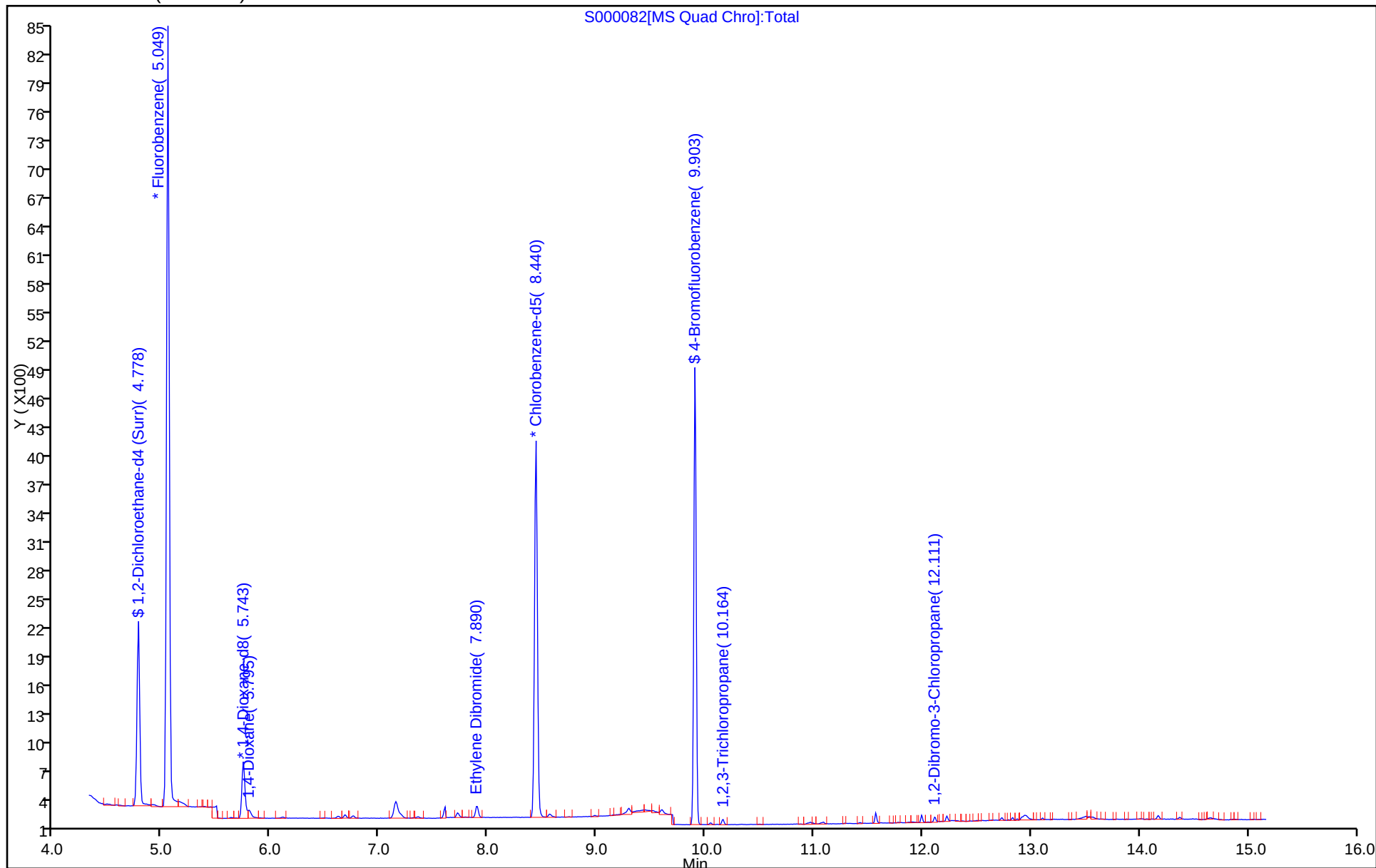
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000083.D
 Lims ID: STD5
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 30-Oct-2017 19:52:25 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 31-Oct-2017 20:43:34 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 30-Oct-2017 20:14:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11593	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	100	278	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4385	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2960	0.5003	0.4851	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	100	3606	0.5002	0.5151	
7 1,4-Dioxane	88	5.804	5.804	0.000	100	269	5.00	4.97	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	226	0.0500	0.0536	
9 1,2,3-Trichloropropane	110	10.164	10.164	0.000	100	91	0.0500	0.0515	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	100	62	0.0500	0.0563	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171030-62642.b\\S000083.D

Injection Date: 30-Oct-2017 19:52:25

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

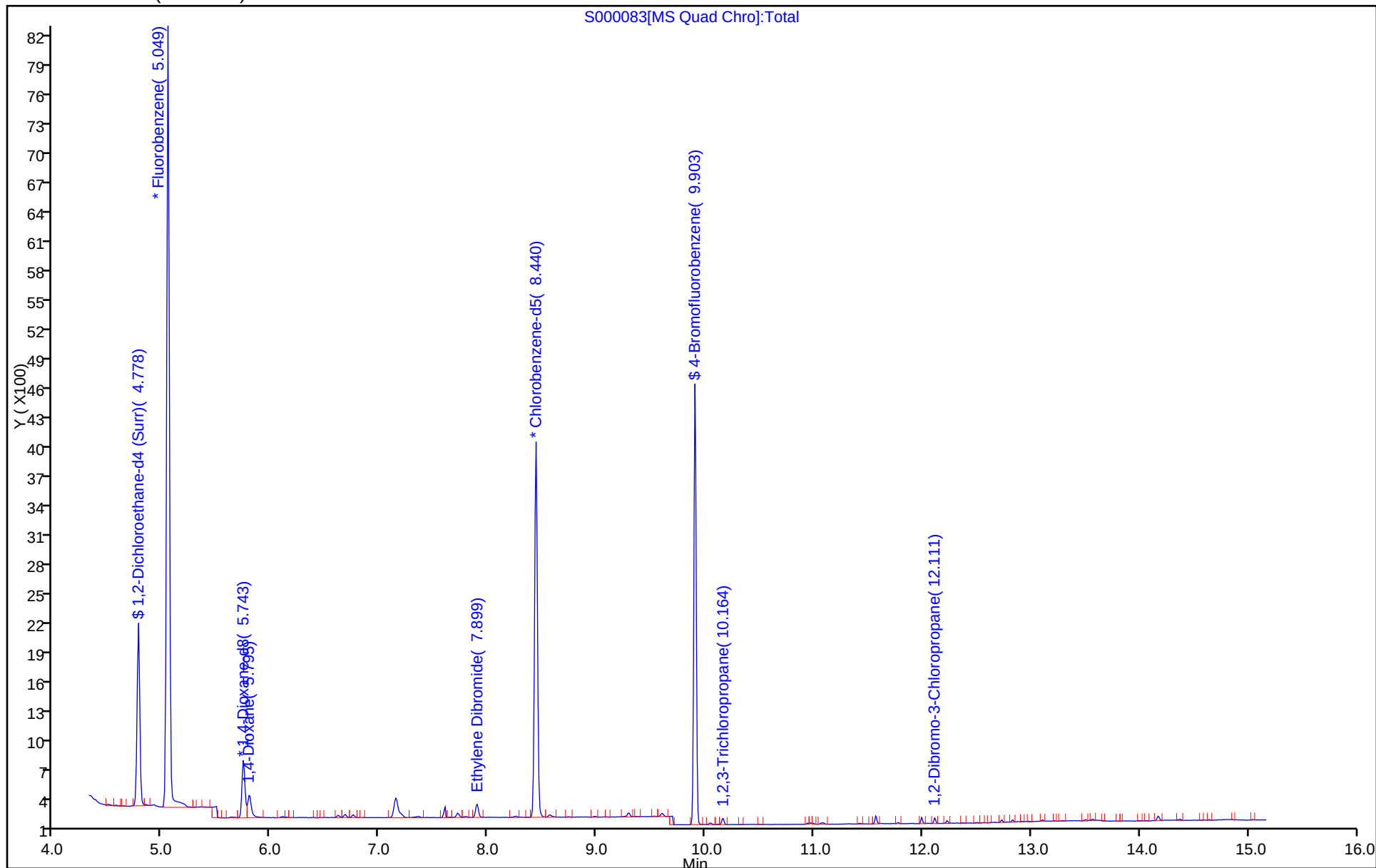
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000084.D
 Lims ID: STD10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Oct-2017 20:16:27 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD10
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 31-Oct-2017 20:53:45 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 30-Oct-2017 20:56:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11365	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	94	292	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4228	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2952	0.5003	0.4935	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	100	3415	0.5002	0.5059	
7 1,4-Dioxane	88	5.804	5.804	0.000	98	482	10.0	8.47	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	428	0.1000	0.1053	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	177	0.1000	0.1040	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	100	112	0.1000	0.1055	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000084.D

Injection Date: 30-Oct-2017 20:16:27

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD10

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

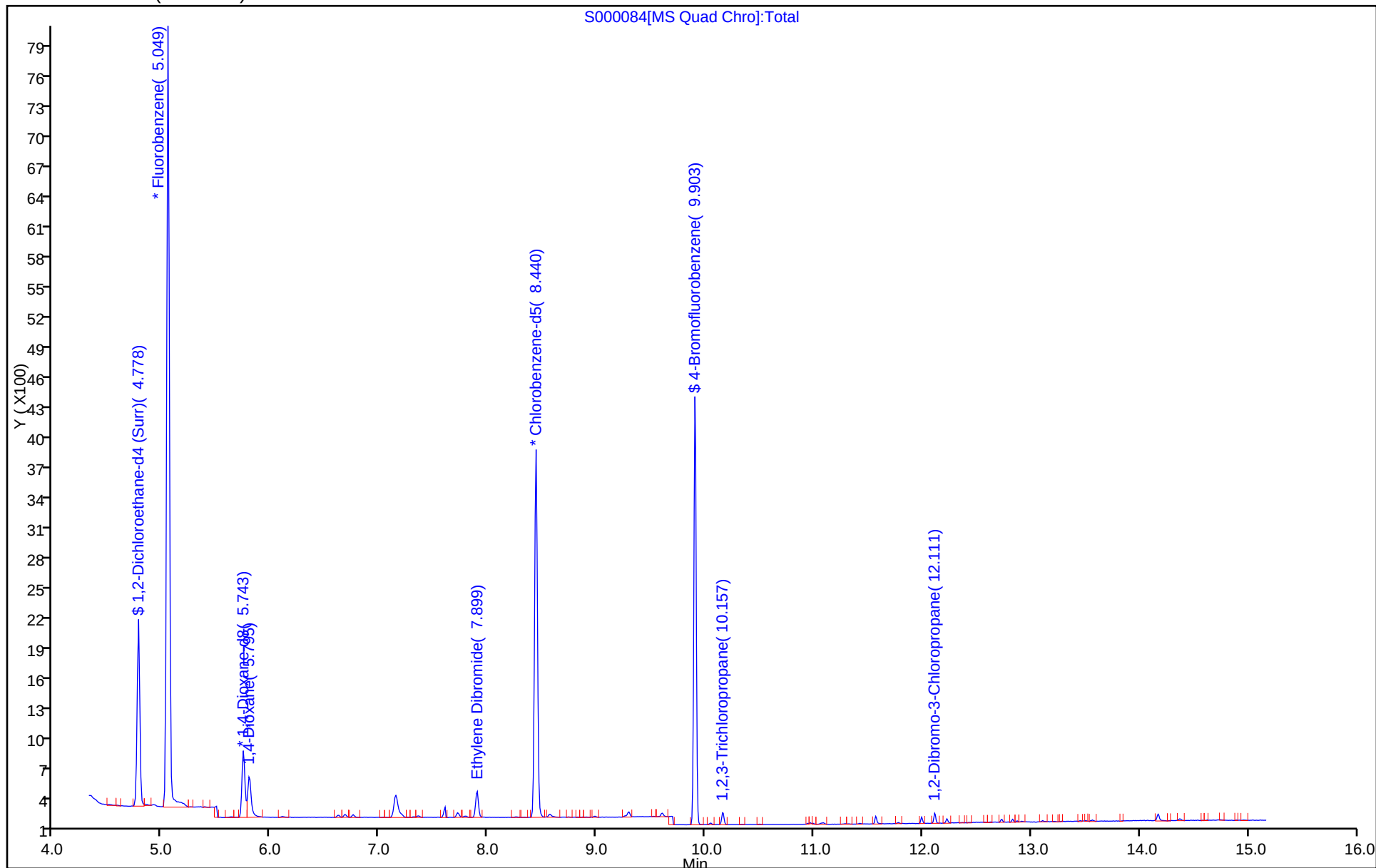
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000085.D
 Lims ID: STD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-Oct-2017 20:40:30 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD20
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 31-Oct-2017 20:53:47 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 30-Oct-2017 22:04:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	10776	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	79	285	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4039	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.778	0.001	100	2810	0.5003	0.4954	
\$ 5 4-Bromofluorobenzene	95	9.904	9.903	0.001	100	3235	0.5002	0.5017	
7 1,4-Dioxane	88	5.795	5.804	-0.009	94	1021	20.0	18.4	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	774	0.2000	0.1994	
9 1,2,3-Trichloropropane	110	10.158	10.164	-0.006	100	331	0.2000	0.2036	
10 1,2-Dibromo-3-Chloropropan	157	12.112	12.111	0.001	99	197	0.2000	0.1942	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171030-62642.b\\S000085.D

Injection Date: 30-Oct-2017 20:40:30

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD20

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

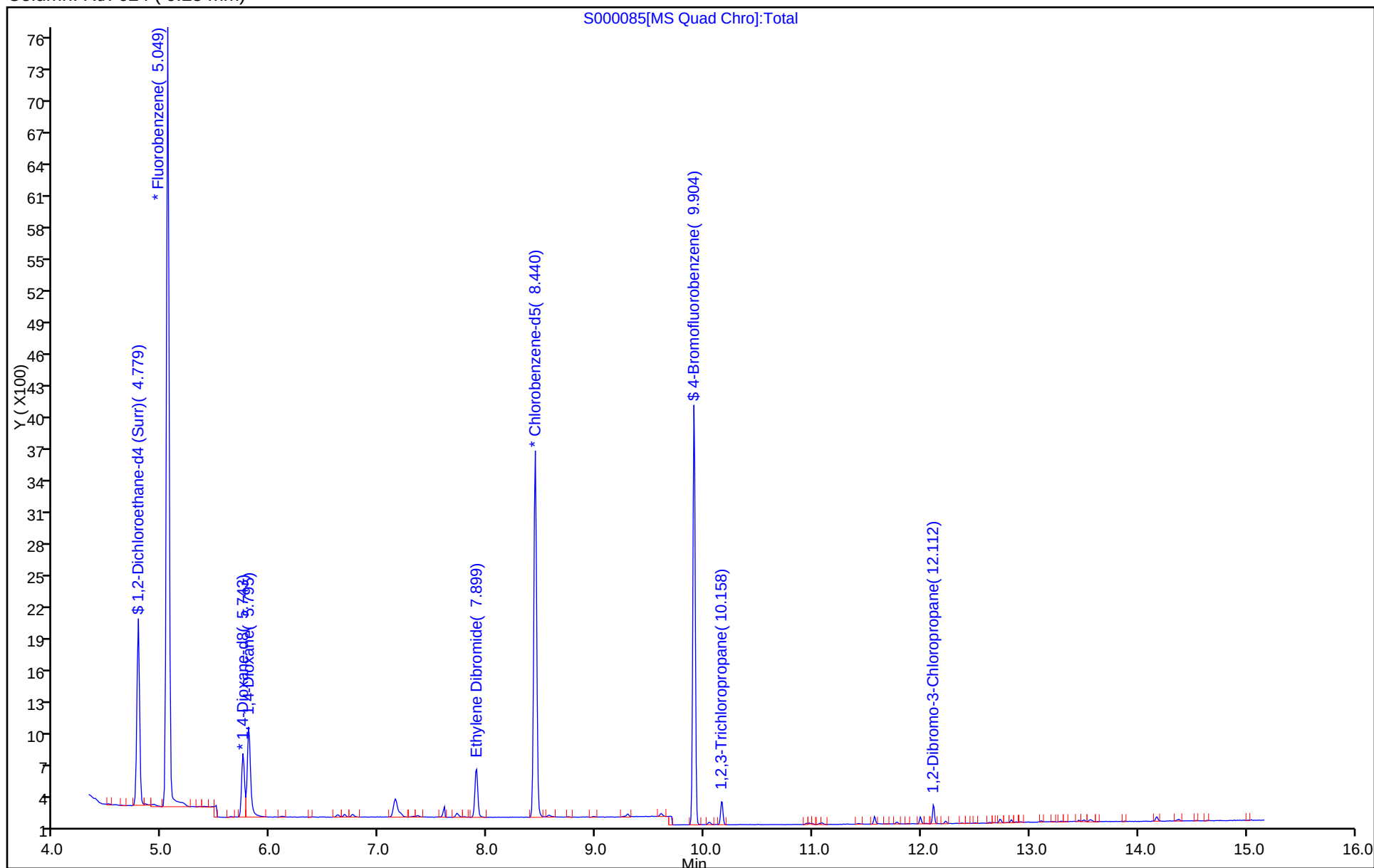
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000086.D
 Lims ID: STD30
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 30-Oct-2017 21:04:34 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD30
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 31-Oct-2017 20:53:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 31-Oct-2017 18:39:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	10961	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	87	275	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4082	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.778	0.001	100	2878	0.5003	0.4988	
\$ 5 4-Bromofluorobenzene	95	9.904	9.903	0.001	100	3245	0.5002	0.4979	
7 1,4-Dioxane	88	5.795	5.804	-0.009	95	1516	30.0	28.3	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	1865	0.5000	0.4753	
9 1,2,3-Trichloropropane	110	10.158	10.164	-0.006	100	785	0.5000	0.4777	
10 1,2-Dibromo-3-Chloropropan	157	12.112	12.111	0.001	99	452	0.5000	0.4409	

Reagents:

VMMIX1SIM_00103	Amount Added: 2.50	Units: uL	
SIMDIOX50_00014	Amount Added: 30.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171030-62642.b\\S000086.D

Injection Date: 30-Oct-2017 21:04:34

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD30

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

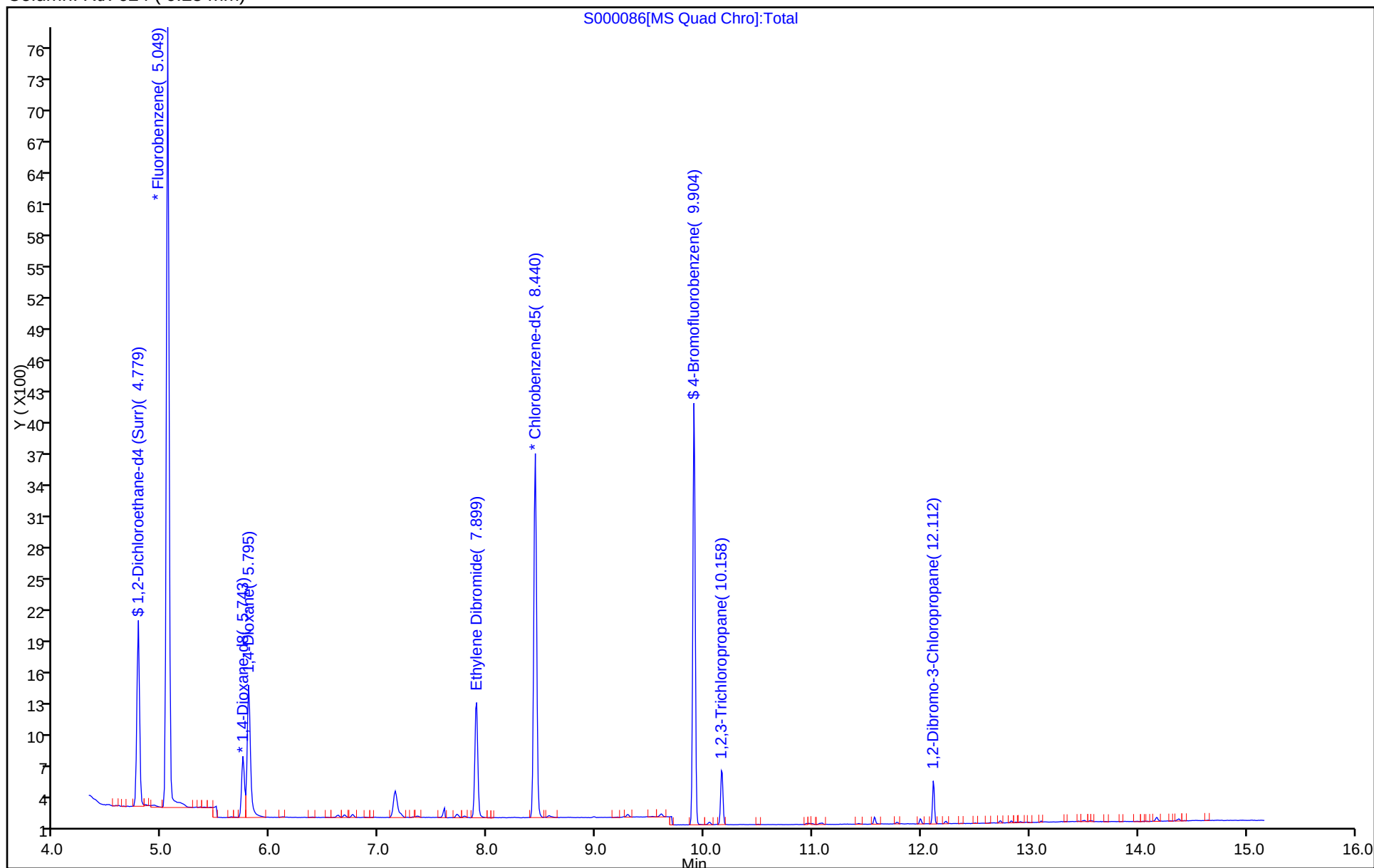
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000087.D
 Lims ID: STD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 30-Oct-2017 21:28:38 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD40
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 31-Oct-2017 20:53:50 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 31-Oct-2017 18:42:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11315	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	84	294	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4189	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.778	0.001	100	3006	0.5003	0.5047	
\$ 5 4-Bromofluorobenzene	95	9.904	9.903	0.001	100	3317	0.5002	0.4960	
7 1,4-Dioxane	88	5.795	5.804	-0.009	95	2057	40.0	35.9	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	3519	1.00	0.8739	
9 1,2,3-Trichloropropane	110	10.158	10.164	-0.006	100	1516	1.00	0.8989	
10 1,2-Dibromo-3-Chloropropan	157	12.112	12.111	0.001	99	861	1.00	0.8185	

Reagents:

VMMIX1SIM_00103	Amount Added: 5.00	Units: uL	
SIMDIOX50_00014	Amount Added: 40.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000087.D

Injection Date: 30-Oct-2017 21:28:38

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD40

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

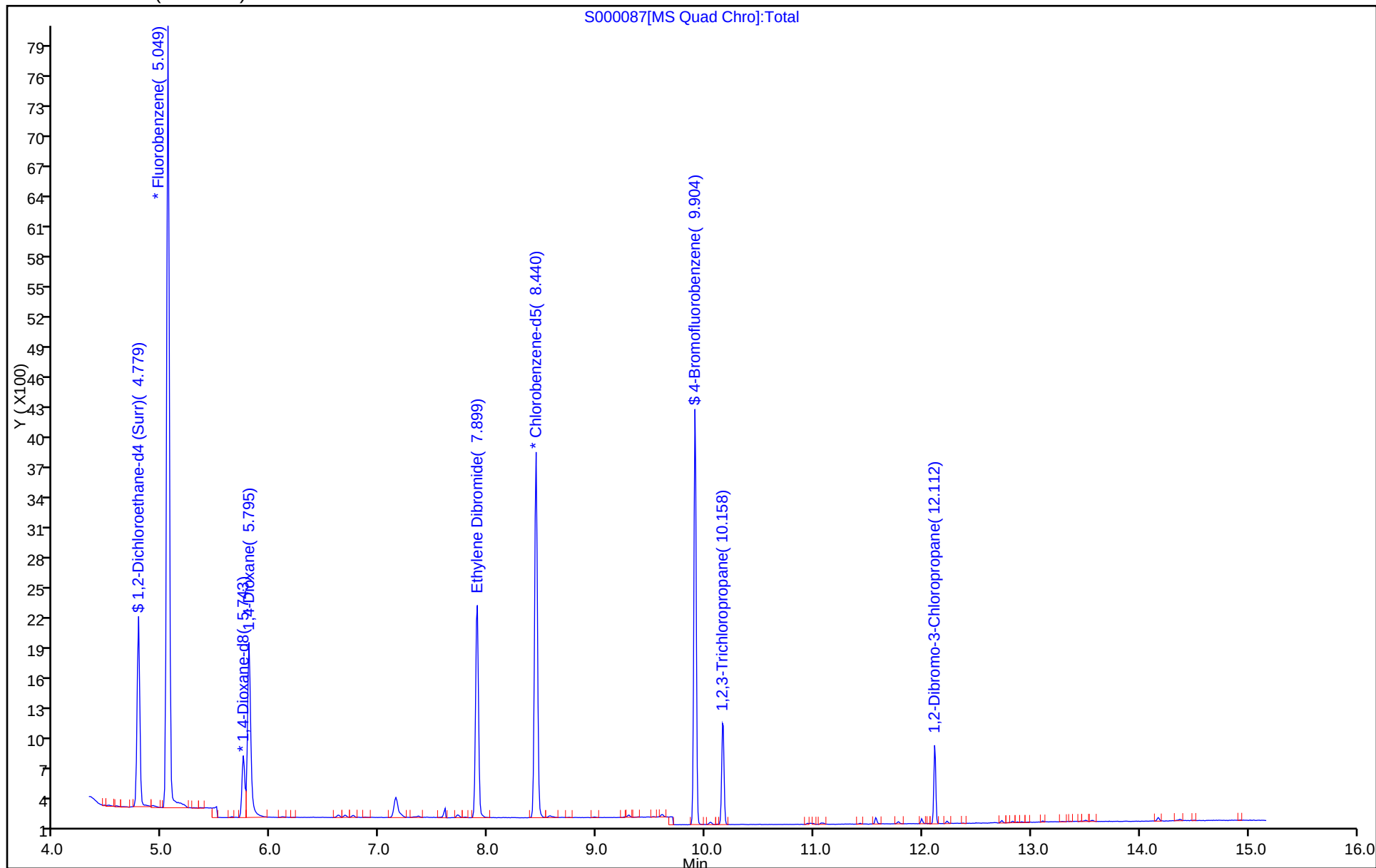
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000088.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 30-Oct-2017 21:52:41 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 31-Oct-2017 20:53:52 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	10848	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	81	272	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4027	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.778	0.000	100	2910	0.5003	0.5096	
\$ 5 4-Bromofluorobenzene	95	9.904	9.903	0.001	100	3181	0.5002	0.4948	
7 1,4-Dioxane	88	5.795	5.804	-0.009	96	2454	50.0	46.3	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	7034	2.00	1.82	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	2970	2.00	1.83	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	99	1674	2.00	1.66	

Reagents:

VMMIX1SIM_00103	Amount Added: 10.00	Units: uL	
SIMDIOX50_00014	Amount Added: 50.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000088.D

Injection Date: 30-Oct-2017 21:52:41

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD50

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

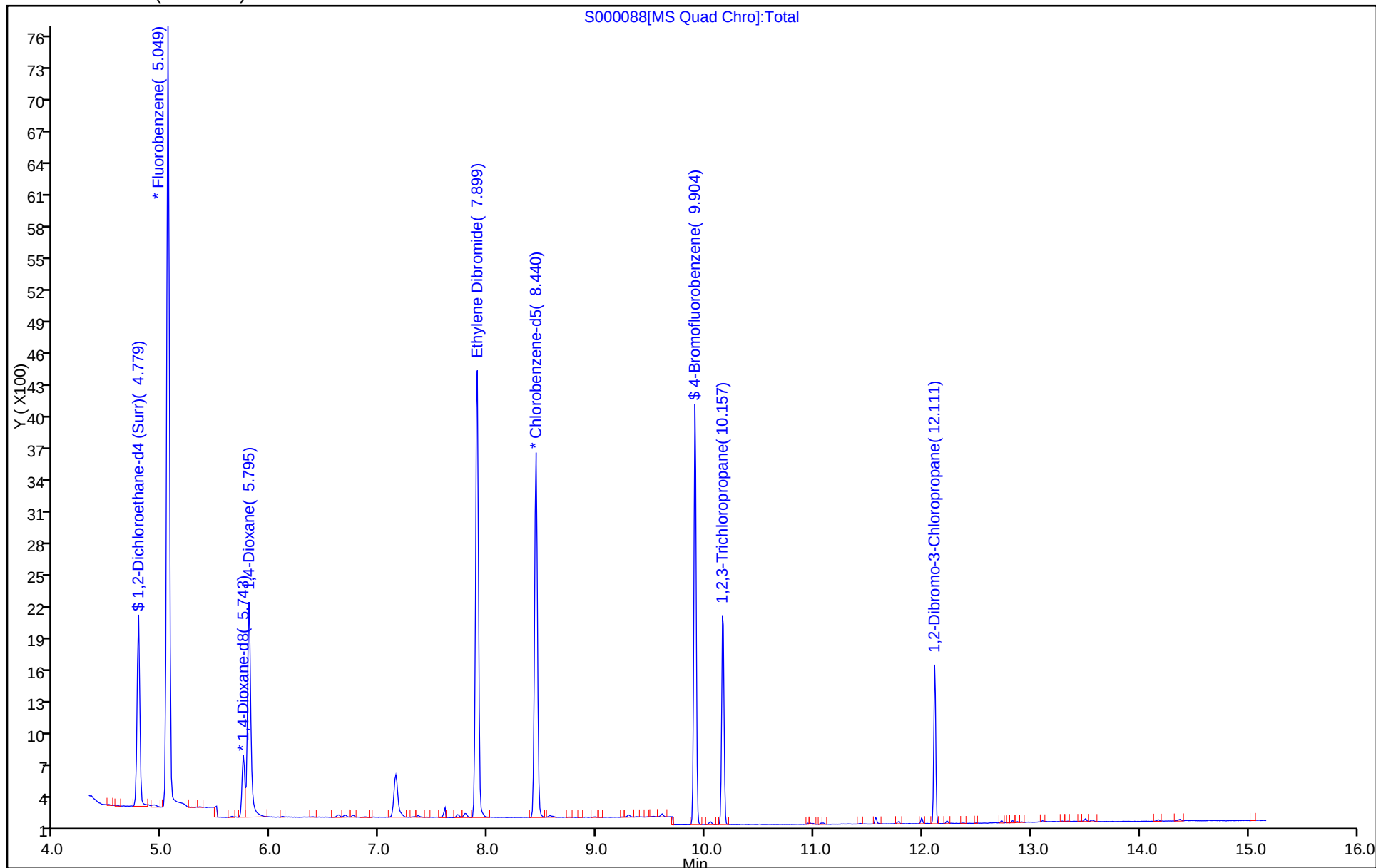
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Lims ID: STD04
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-Oct-2017 01:13:24 ALS Bottle#: 0 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD04
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 31-Oct-2017 20:43:43 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 31-Oct-2017 18:51:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	10296	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	40	266	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	3771	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2860	0.5003	0.5277	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	100	2833	0.5002	0.4705	
7 1,4-Dioxane	88	5.804	5.804	0.000	74	27	0.4000	0.5209	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	75	0.0200	0.0207	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	32	0.0200	0.0211	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	98	20	0.0200	0.0211	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 4.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D

Injection Date: 31-Oct-2017 01:13:24

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD04

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

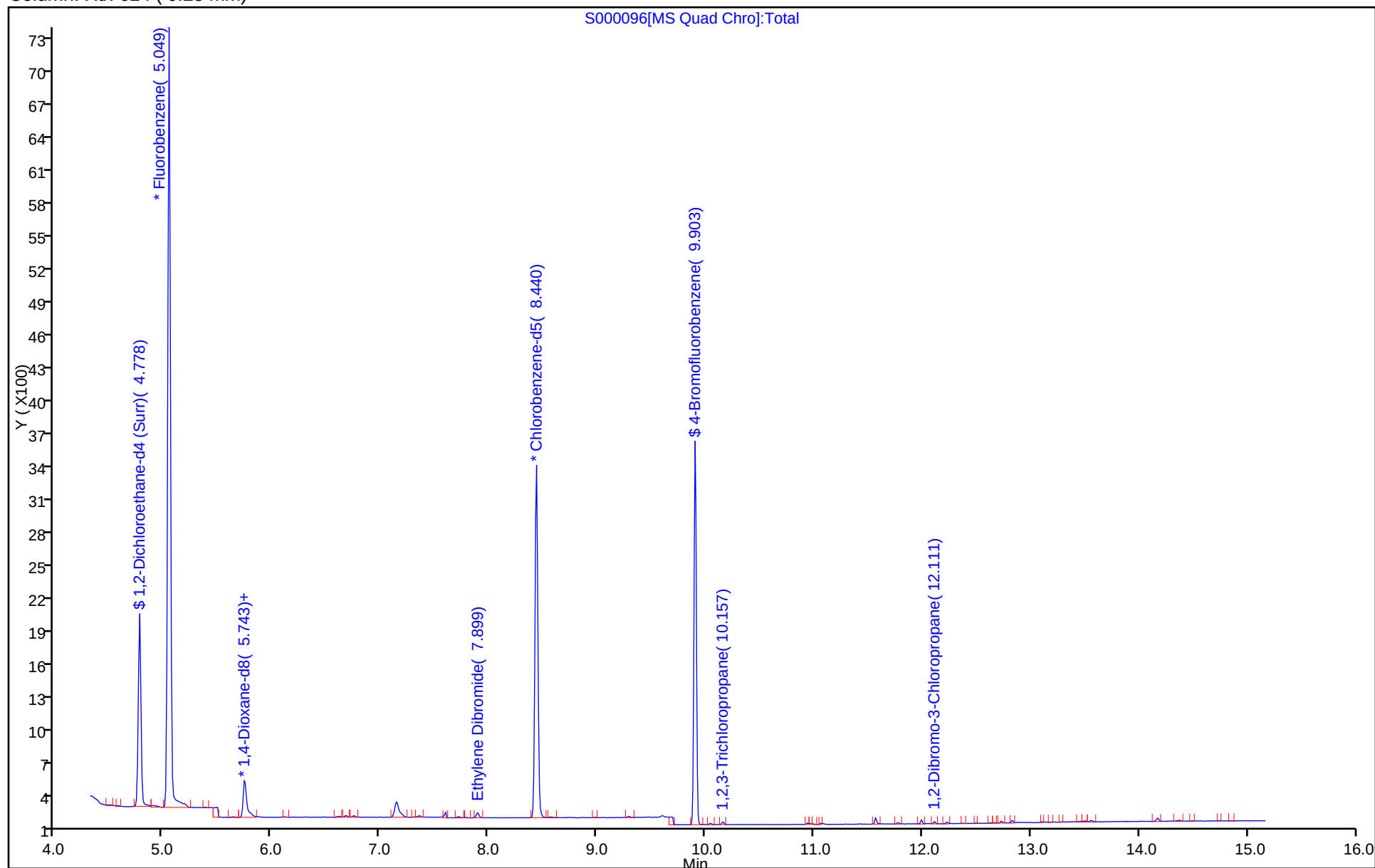
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



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

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 473605

SDG No.: _____

Instrument ID: CVOAMS14 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/30/2017 19:28 Calibration End Date: 10/31/2017 01:13 Calibration ID: 64841

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-473605/17	S000096.D
Level 2	STD1 460-473605/3	S000082.D
Level 3	STD5 460-473605/4	S000083.D
Level 4	STD10 460-473605/5	S000084.D
Level 5	STD20 460-473605/6	S000085.D
Level 6	STD30 460-473605/7	S000086.D
Level 7	STD40 460-473605/8	S000087.D
Level 8	STD50 460-473605/9	S000088.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	2.5376 1.8376	2.2830 1.7491	1.9352 1.8044	1.6507	1.7912	Ave		1.9486				15.6		20.0			
Ethylene Dibromide	0.4972 0.4569	0.5336 0.4200	0.5154 0.4367	0.5061	0.4791	Ave		0.4806			0.1000	8.3		20.0			
1,2,3-Trichloropropane	0.2121 0.1923	0.2189 0.1810	0.2075 0.1844	0.2093	0.2049	Ave		0.2013				6.8		20.0			
1,2-Dibromo-3-Chloropropane	0.1326 0.1107	0.1587 0.1028	0.1414 0.1039	0.1325	0.1219	Ave		0.1256			0.0500	15.5		20.0			
1,2-Dichloroethane-d4 (Surr)	0.2776 0.2624	0.2565 0.2655	0.2552 0.2681	0.2596	0.2606	Ave		0.2632				2.7		20.0			
4-Bromofluorobenzene	0.7510 0.7946	0.8296 0.7915	0.8220 0.7896	0.8074	0.8006	Ave		0.7983				3.0		20.0			

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

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

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 473605

SDG No.: _____

Instrument ID: CVOAMS14 GC Column: Rtx-624 ID: 0.25 (mm) Heated Purge: (Y/N) Y

Calibration Start Date: 10/30/2017 19:28 Calibration End Date: 10/31/2017 01:13 Calibration ID: 64841

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD04 460-473605/17	S000096.D
Level 2	STD1 460-473605/3	S000082.D
Level 3	STD5 460-473605/4	S000083.D
Level 4	STD10 460-473605/5	S000084.D
Level 5	STD20 460-473605/6	S000085.D
Level 6	STD30 460-473605/7	S000086.D
Level 7	STD40 460-473605/8	S000087.D
Level 8	STD50 460-473605/9	S000088.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dioxane	DXE	Ave	27 1516	71 2057	269 2454	482	1021	0.400 30.0	1.00 40.0	5.00 50.0	10.0	20.0
Ethylene Dibromide	CBNZ d5	Ave	75 1865	195 3519	226 7034	428	774	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2,3-Trichloropropane	CBNZ d5	Ave	32 785	80 1516	91 2970	177	331	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dibromo-3-Chloropropane	CBNZ d5	Ave	20 452	58 861	62 1674	112	197	0.0200 0.500	0.0400 1.00	0.0500 2.00	0.100	0.200
1,2-Dichloroethane-d4 (Surr)	FB	Ave	2860 2878	3025 3006	2960 2910	2952	2810	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500
4-Bromofluorobenzene	CBNZ d5	Ave	2833 3245	3791 3317	3606 3181	3415	3235	0.500 0.500	0.500 0.500	0.500 0.500	0.500	0.500

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000082.D
 Lims ID: STD1
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 30-Oct-2017 19:28:20 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD1
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 31-Oct-2017 20:43:31 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 30-Oct-2017 19:50:22

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11785	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	93	311	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4568	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	3025	0.5003	0.4877	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	100	3791	0.5002	0.5198	
7 1,4-Dioxane	88	5.804	5.804	0.000	90	71	1.00	1.17	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	195	0.0400	0.0444	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	80	0.0400	0.0435	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	99	58	0.0400	0.0506	

Reagents:

VMMIX1SIM_00103	Amount Added: 2.00	Units: uL	
SIMDIOX50_00014	Amount Added: 10.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000082.D

Injection Date: 30-Oct-2017 19:28:20

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD1

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

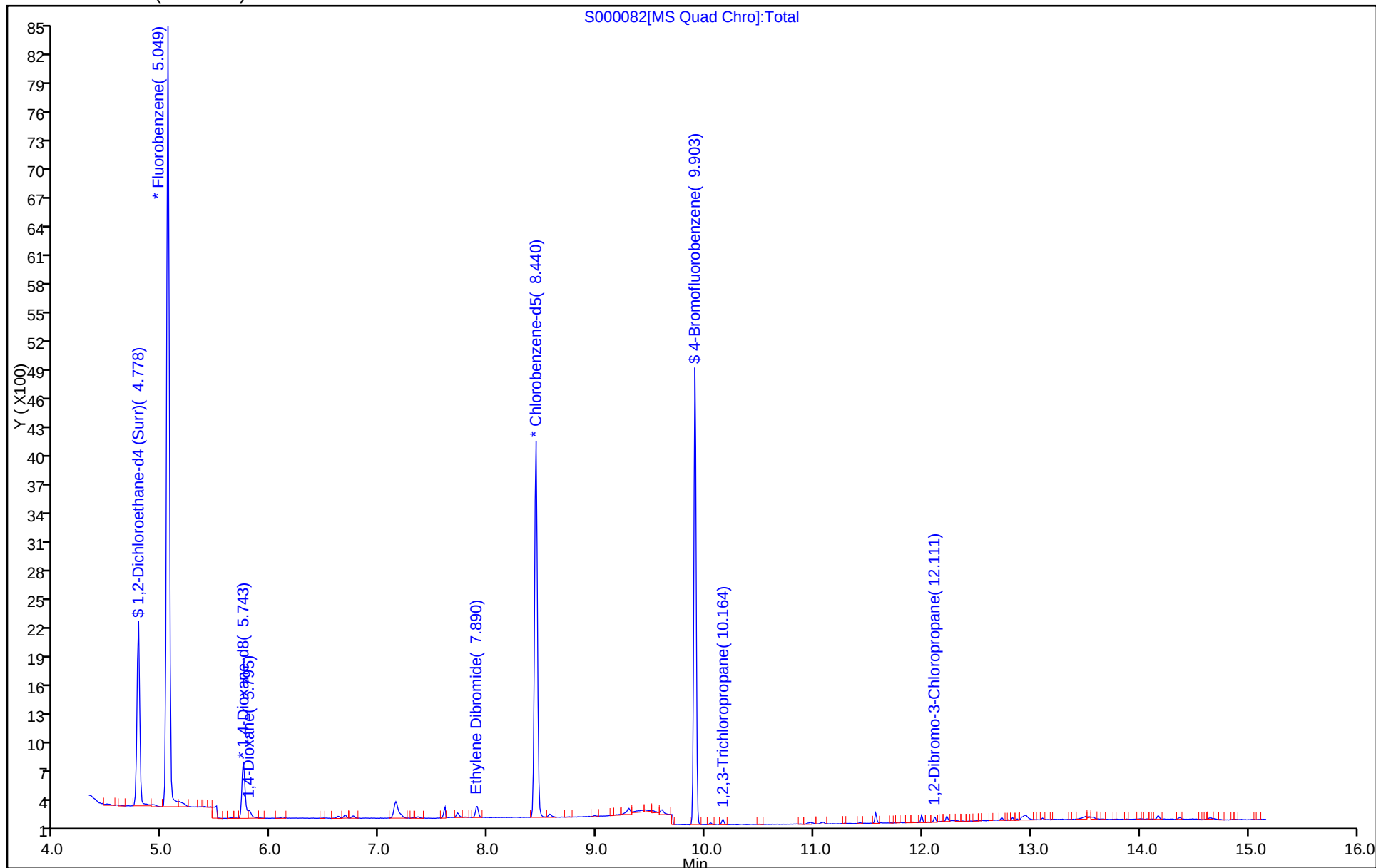
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000083.D
 Lims ID: STD5
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 30-Oct-2017 19:52:25 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD5
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 31-Oct-2017 20:43:34 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 30-Oct-2017 20:14:44

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11593	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	100	278	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4385	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2960	0.5003	0.4851	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	100	3606	0.5002	0.5151	
7 1,4-Dioxane	88	5.804	5.804	0.000	100	269	5.00	4.97	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	226	0.0500	0.0536	
9 1,2,3-Trichloropropane	110	10.164	10.164	0.000	100	91	0.0500	0.0515	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	100	62	0.0500	0.0563	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171030-62642.b\\S000083.D

Injection Date: 30-Oct-2017 19:52:25

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD5

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

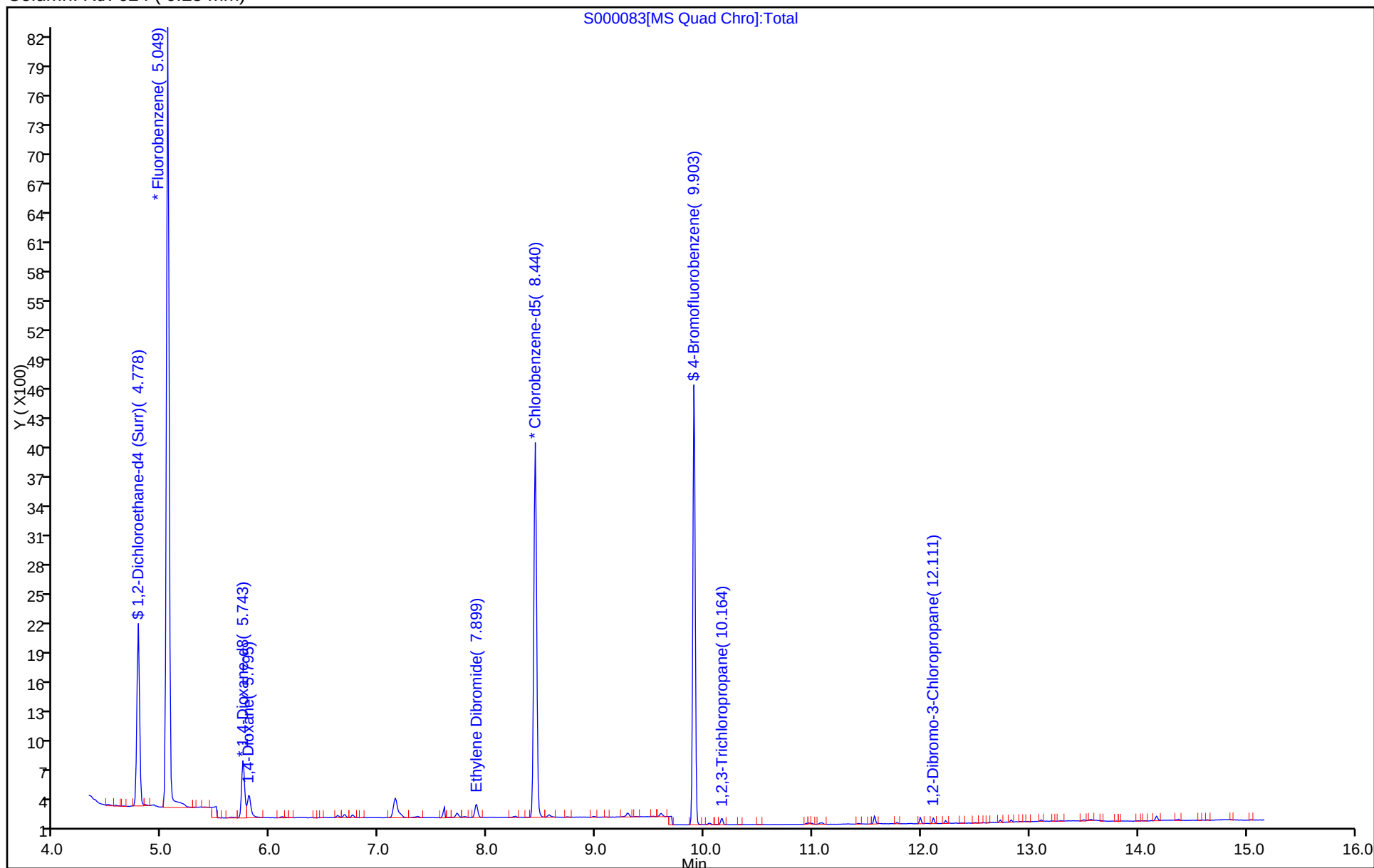
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000084.D
 Lims ID: STD10
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 30-Oct-2017 20:16:27 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD10
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 31-Oct-2017 20:53:45 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 30-Oct-2017 20:56:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11365	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	94	292	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4228	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2952	0.5003	0.4935	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	100	3415	0.5002	0.5059	
7 1,4-Dioxane	88	5.804	5.804	0.000	98	482	10.0	8.47	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	428	0.1000	0.1053	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	177	0.1000	0.1040	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	100	112	0.1000	0.1055	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171030-62642.b\\S000084.D

Injection Date: 30-Oct-2017 20:16:27

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD10

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

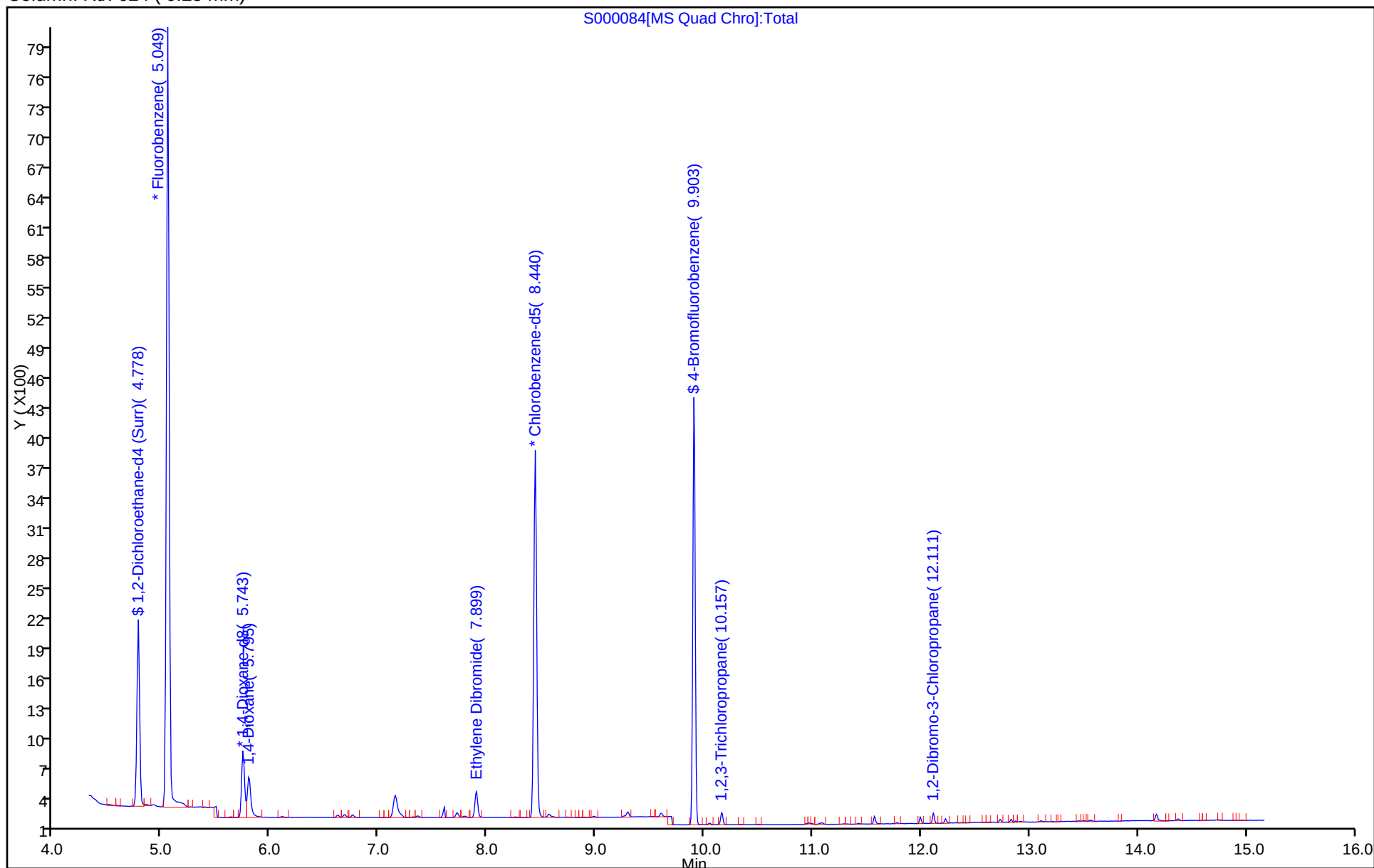
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000085.D
 Lims ID: STD20
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 30-Oct-2017 20:40:30 ALS Bottle#: 0 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD20
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 31-Oct-2017 20:53:47 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 30-Oct-2017 22:04:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	10776	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	79	285	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4039	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.778	0.001	100	2810	0.5003	0.4954	
\$ 5 4-Bromofluorobenzene	95	9.904	9.903	0.001	100	3235	0.5002	0.5017	
7 1,4-Dioxane	88	5.795	5.804	-0.009	94	1021	20.0	18.4	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	774	0.2000	0.1994	
9 1,2,3-Trichloropropane	110	10.158	10.164	-0.006	100	331	0.2000	0.2036	
10 1,2-Dibromo-3-Chloropropan	157	12.112	12.111	0.001	99	197	0.2000	0.1942	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171030-62642.b\\S000085.D

Injection Date: 30-Oct-2017 20:40:30

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD20

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

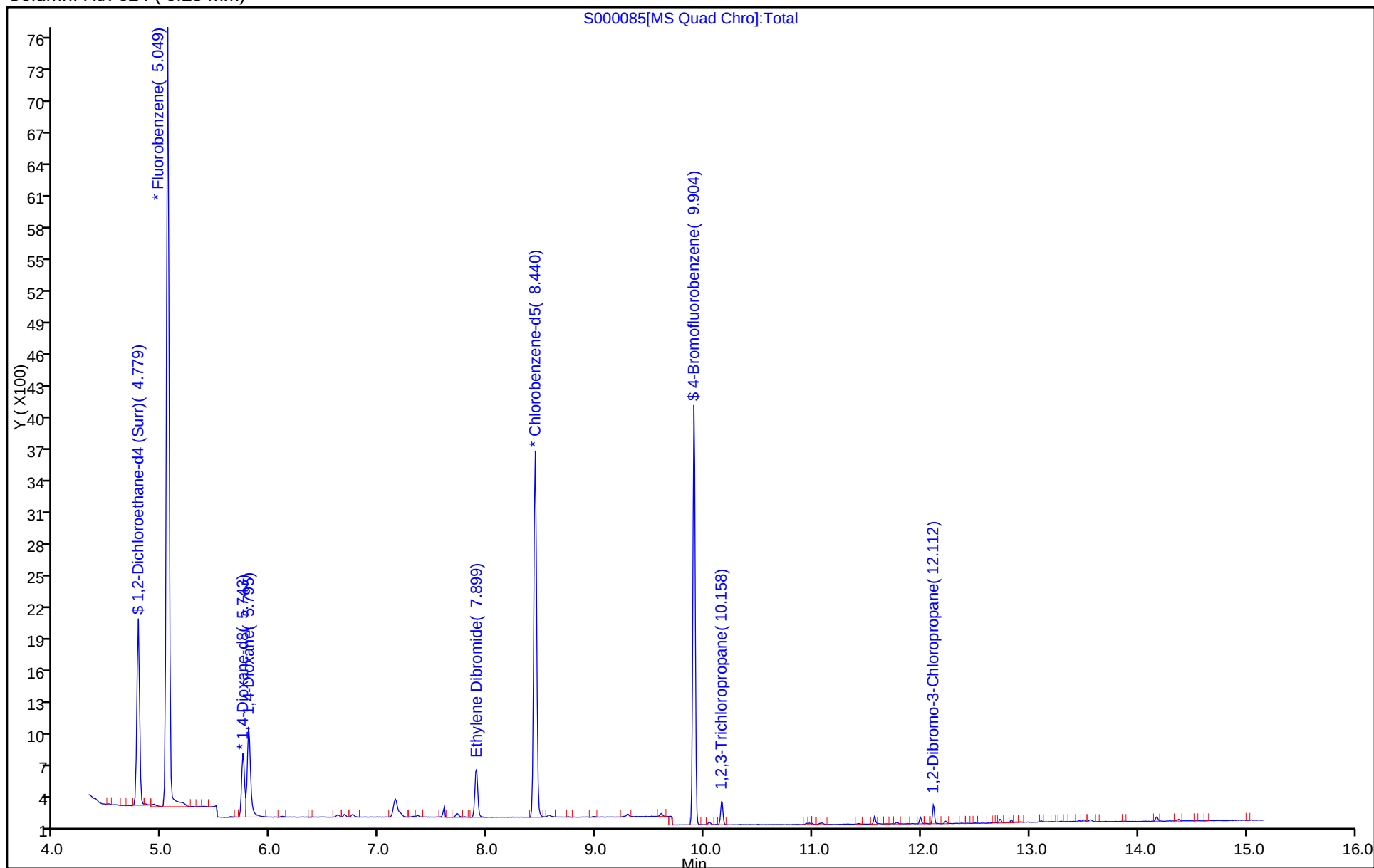
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000086.D
 Lims ID: STD30
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 30-Oct-2017 21:04:34 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD30
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 31-Oct-2017 20:53:48 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 31-Oct-2017 18:39:48

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	10961	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	87	275	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4082	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.778	0.001	100	2878	0.5003	0.4988	
\$ 5 4-Bromofluorobenzene	95	9.904	9.903	0.001	100	3245	0.5002	0.4979	
7 1,4-Dioxane	88	5.795	5.804	-0.009	95	1516	30.0	28.3	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	1865	0.5000	0.4753	
9 1,2,3-Trichloropropane	110	10.158	10.164	-0.006	100	785	0.5000	0.4777	
10 1,2-Dibromo-3-Chloropropan	157	12.112	12.111	0.001	99	452	0.5000	0.4409	

Reagents:

VMMIX1SIM_00103	Amount Added: 2.50	Units: uL	
SIMDIOX50_00014	Amount Added: 30.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171030-62642.b\\S000086.D

Injection Date: 30-Oct-2017 21:04:34

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD30

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

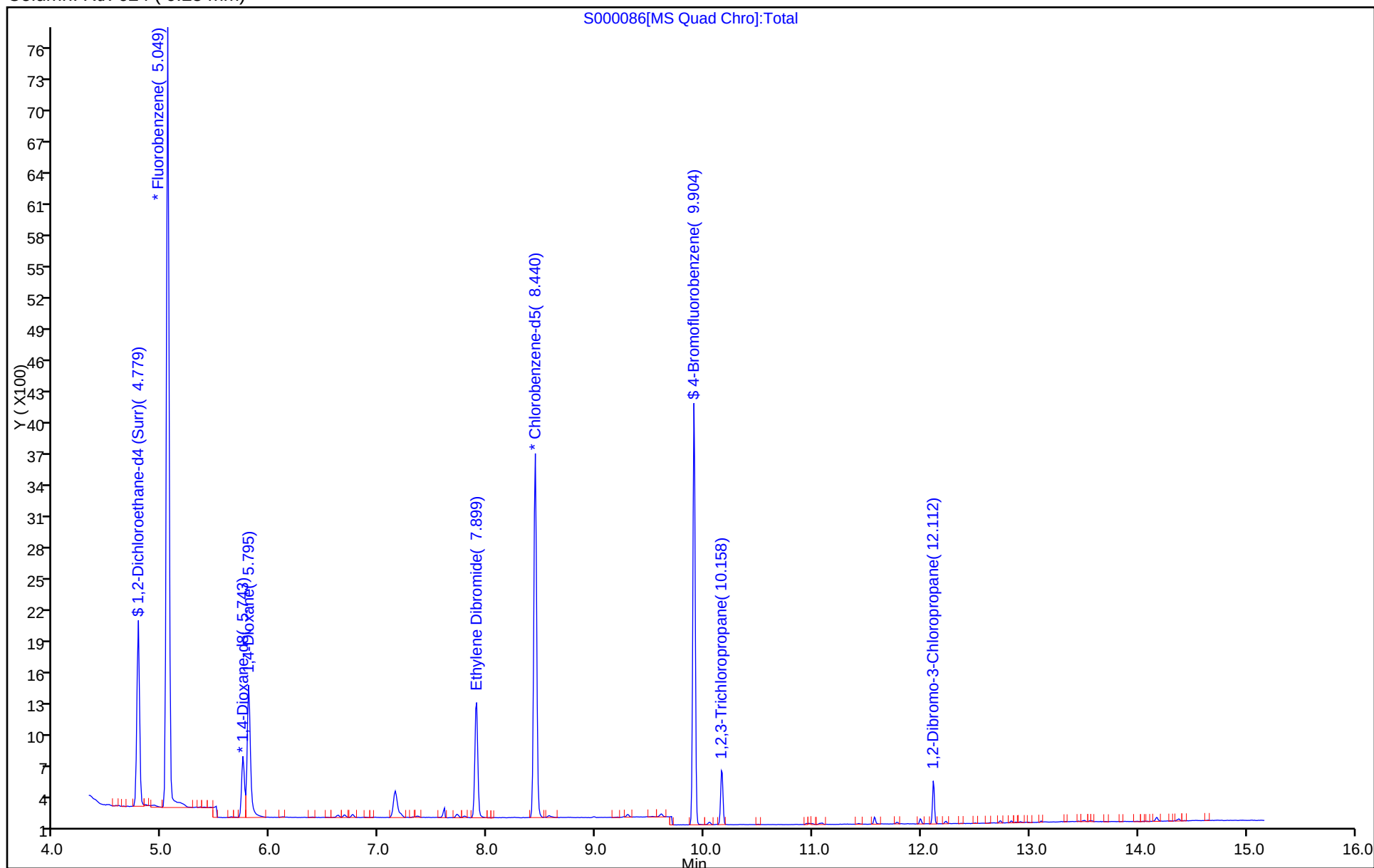
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000087.D
 Lims ID: STD40
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 30-Oct-2017 21:28:38 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD40
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 31-Oct-2017 20:53:50 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 31-Oct-2017 18:42:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11315	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	84	294	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4189	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.778	0.001	100	3006	0.5003	0.5047	
\$ 5 4-Bromofluorobenzene	95	9.904	9.903	0.001	100	3317	0.5002	0.4960	
7 1,4-Dioxane	88	5.795	5.804	-0.009	95	2057	40.0	35.9	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	3519	1.00	0.8739	
9 1,2,3-Trichloropropane	110	10.158	10.164	-0.006	100	1516	1.00	0.8989	
10 1,2-Dibromo-3-Chloropropan	157	12.112	12.111	0.001	99	861	1.00	0.8185	

Reagents:

VMMIX1SIM_00103	Amount Added: 5.00	Units: uL	
SIMDIOX50_00014	Amount Added: 40.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000087.D

Injection Date: 30-Oct-2017 21:28:38

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD40

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

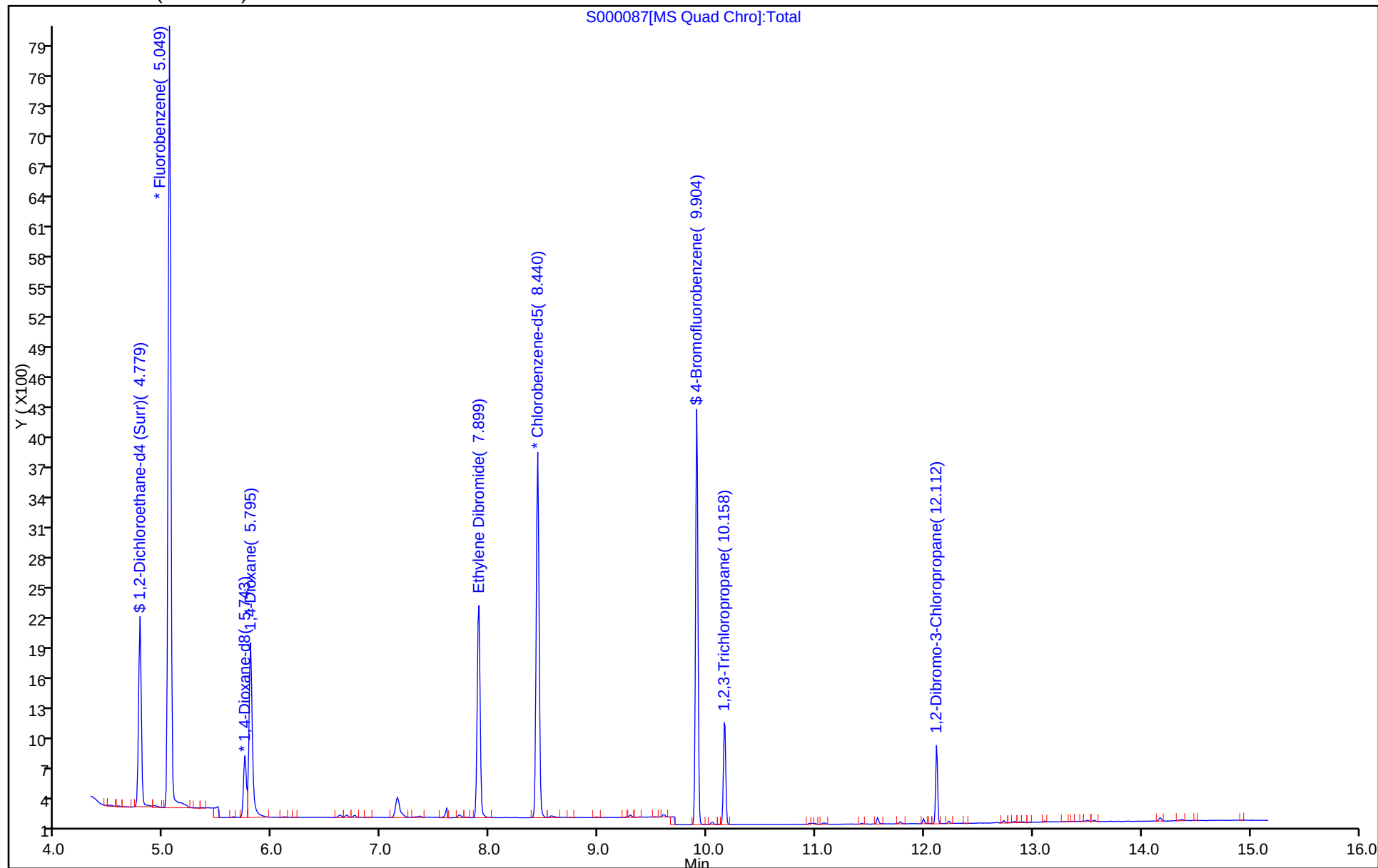
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000088.D
 Lims ID: STD50
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 30-Oct-2017 21:52:41 ALS Bottle#: 0 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD50
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 31-Oct-2017 20:53:52 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	10848	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	81	272	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	4027	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.778	0.000	100	2910	0.5003	0.5096	
\$ 5 4-Bromofluorobenzene	95	9.904	9.903	0.001	100	3181	0.5002	0.4948	
7 1,4-Dioxane	88	5.795	5.804	-0.009	96	2454	50.0	46.3	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	7034	2.00	1.82	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	2970	2.00	1.83	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	99	1674	2.00	1.66	

Reagents:

VMMIX1SIM_00103	Amount Added: 10.00	Units: uL	
SIMDIOX50_00014	Amount Added: 50.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171030-62642.b\\S000088.D

Injection Date: 30-Oct-2017 21:52:41

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD50

Worklist Smp#: 9

Client ID:

Purge Vol: 5.000 mL

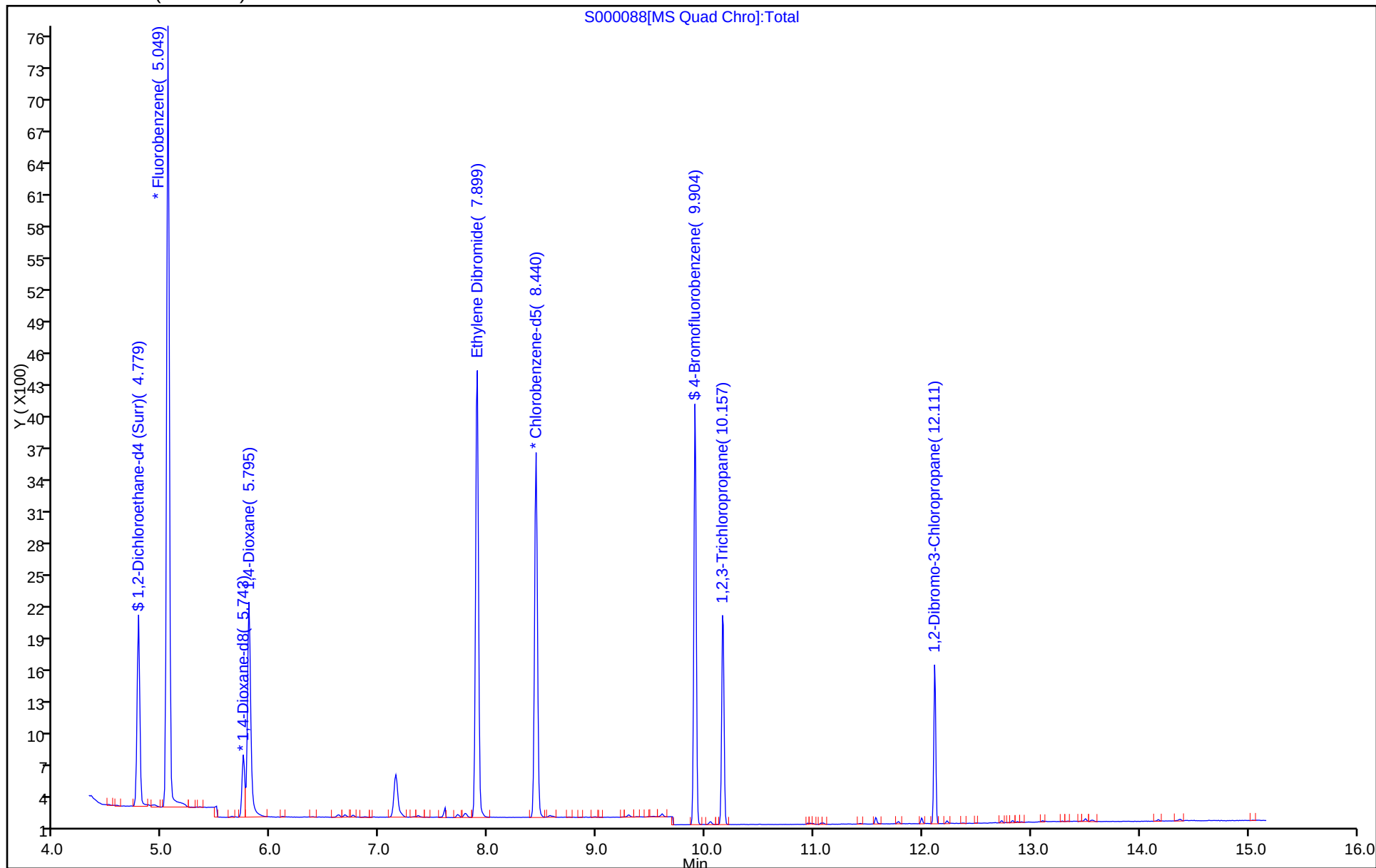
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Lims ID: STD04
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 31-Oct-2017 01:13:24 ALS Bottle#: 0 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: STD04
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 31-Oct-2017 20:43:43 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: kluseys

Date: 31-Oct-2017 18:51:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	10296	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	40	266	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	100	3771	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2860	0.5003	0.5277	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	100	2833	0.5002	0.4705	
7 1,4-Dioxane	88	5.804	5.804	0.000	74	27	0.4000	0.5209	
8 Ethylene Dibromide	109	7.899	7.899	0.000	100	75	0.0200	0.0207	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	32	0.0200	0.0211	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	98	20	0.0200	0.0211	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 4.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D

Injection Date: 31-Oct-2017 01:13:24

Instrument ID: CVOAMS14

Operator ID:

Lims ID: STD04

Worklist Smp#: 17

Client ID:

Purge Vol: 5.000 mL

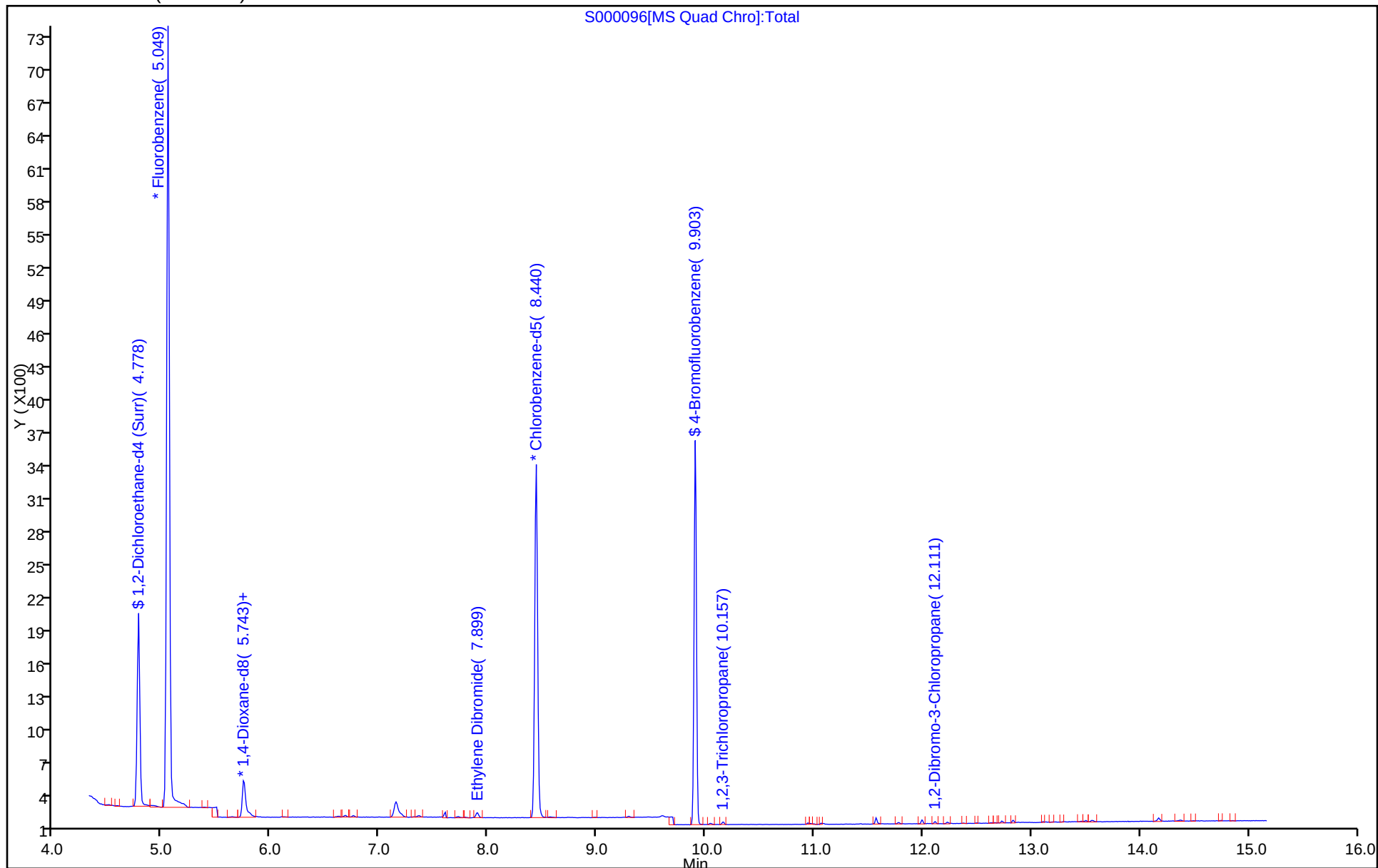
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474314/2 Calibration Date: 11/03/2017 07:27
 Instrument ID: CVOAMS14 Calib Start Date: 10/30/2017 19:28
 GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/31/2017 01:13
 Lab File ID: S000116.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.949	1.613		4.14	5.00	-17.2	50.0
Ethylene Dibromide	Ave	0.4806	0.3938	0.1000	0.0410	0.0500	-18.1	20.0
1,2,3-Trichloropropane	Ave	0.2013	0.1909		0.0474	0.0500	-5.2	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1256	0.1074	0.0500	0.0428	0.0500	-14.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2632	0.2671		0.508	0.500	1.5	20.0
4-Bromofluorobenzene	Ave	0.7983	0.7324		0.459	0.500	-8.3	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000116.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 03-Nov-2017 07:27:59 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 03-Nov-2017 13:13:13 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK024

First Level Reviewer: desais

Date: 03-Nov-2017 13:13:13

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8886	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	21	238	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	100	3352	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.779	0.000	100	2375	0.5003	0.5078	
\$ 5 4-Bromofluorobenzene	95	9.897	9.897	0.000	90	2456	0.5002	0.4589	
7 1,4-Dioxane	88	5.795	5.795	0.000	30	192	5.00	4.14	
8 Ethylene Dibromide	109	7.891	7.891	0.000	99	132	0.0500	0.0410	
9 1,2,3-Trichloropropane	110	10.158	10.158	0.000	100	64	0.0500	0.0474	
10 1,2-Dibromo-3-Chloropropan	157	12.112	12.112	0.000	97	36	0.0500	0.0428	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000116.D

Injection Date: 03-Nov-2017 07:27:59

Instrument ID: CVOAMS14

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

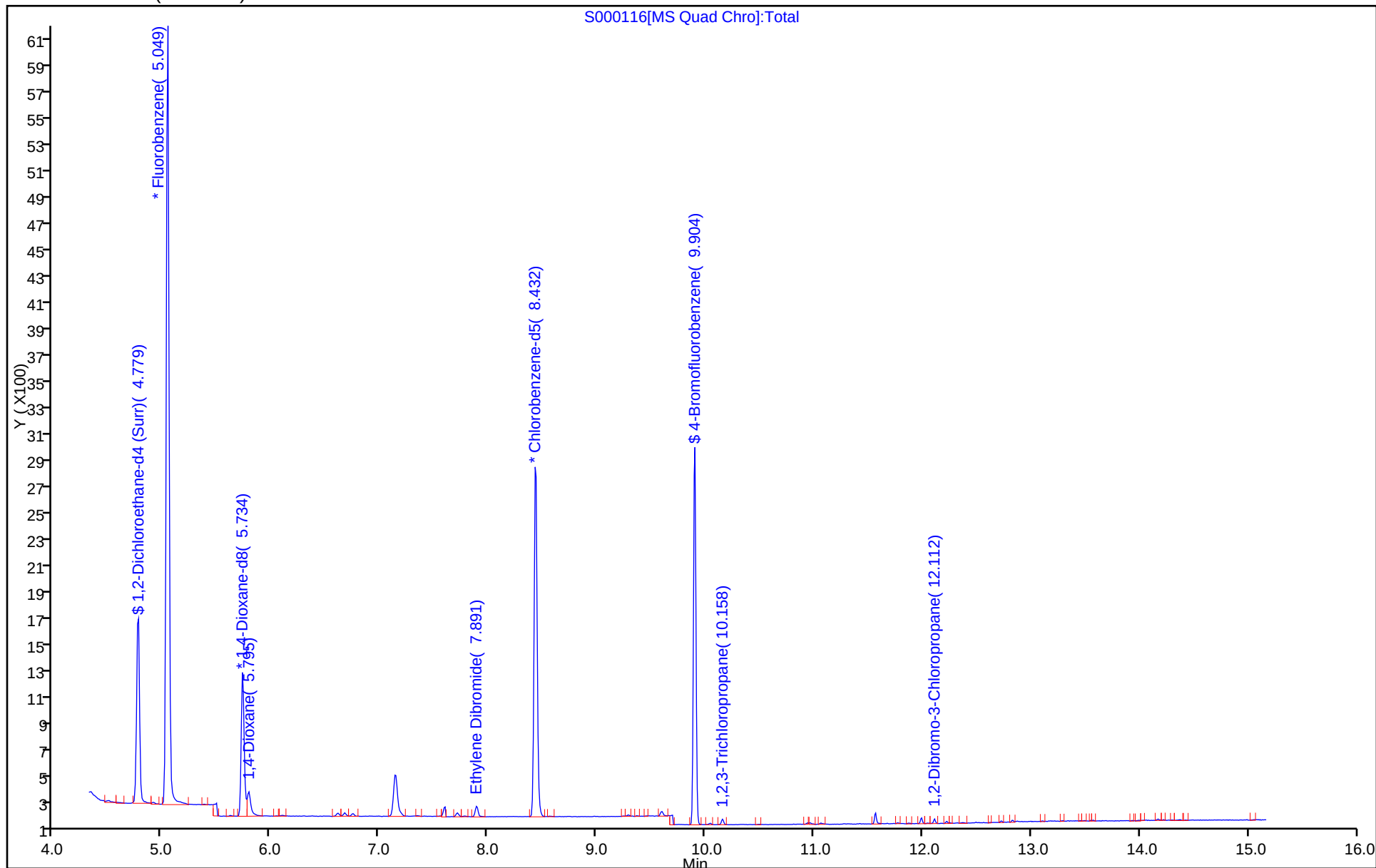
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474523/3 Calibration Date: 11/03/2017 22:02
 Instrument ID: CVOAMS14 Calib Start Date: 10/30/2017 19:28
 GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/31/2017 01:13
 Lab File ID: S000148.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.949	2.000		5.13	5.00	2.6	50.0
Ethylene Dibromide	Ave	0.4806	0.4803	0.1000	0.0500	0.0500	-0.0	20.0
1,2,3-Trichloropropane	Ave	0.2013	0.2007		0.0498	0.0500	-0.3	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1256	0.1086	0.0500	0.0432	0.0500	-13.5	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2632	0.2902		0.552	0.500	10.3	20.0
4-Bromofluorobenzene	Ave	0.7983	0.7231		0.453	0.500	-9.4	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000148.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 03-Nov-2017 23:02:18 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 06-Nov-2017 10:59:32 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: xuyvo

Date: 06-Nov-2017 10:59:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7766	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	66	199	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	94	3040	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2255	0.5003	0.5517	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	98	2199	0.5002	0.4531	
7 1,4-Dioxane	88	5.795	5.795	0.000	80	199	5.00	5.13	
8 Ethylene Dibromide	109	7.890	7.890	0.000	100	146	0.0500	0.0500	
9 1,2,3-Trichloropropane	110	10.157	10.157	0.000	96	61	0.0500	0.0498	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	100	33	0.0500	0.0432	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171103-62890.b\\S000148.D

Injection Date: 03-Nov-2017 23:02:18

Instrument ID: CVOAMS14

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

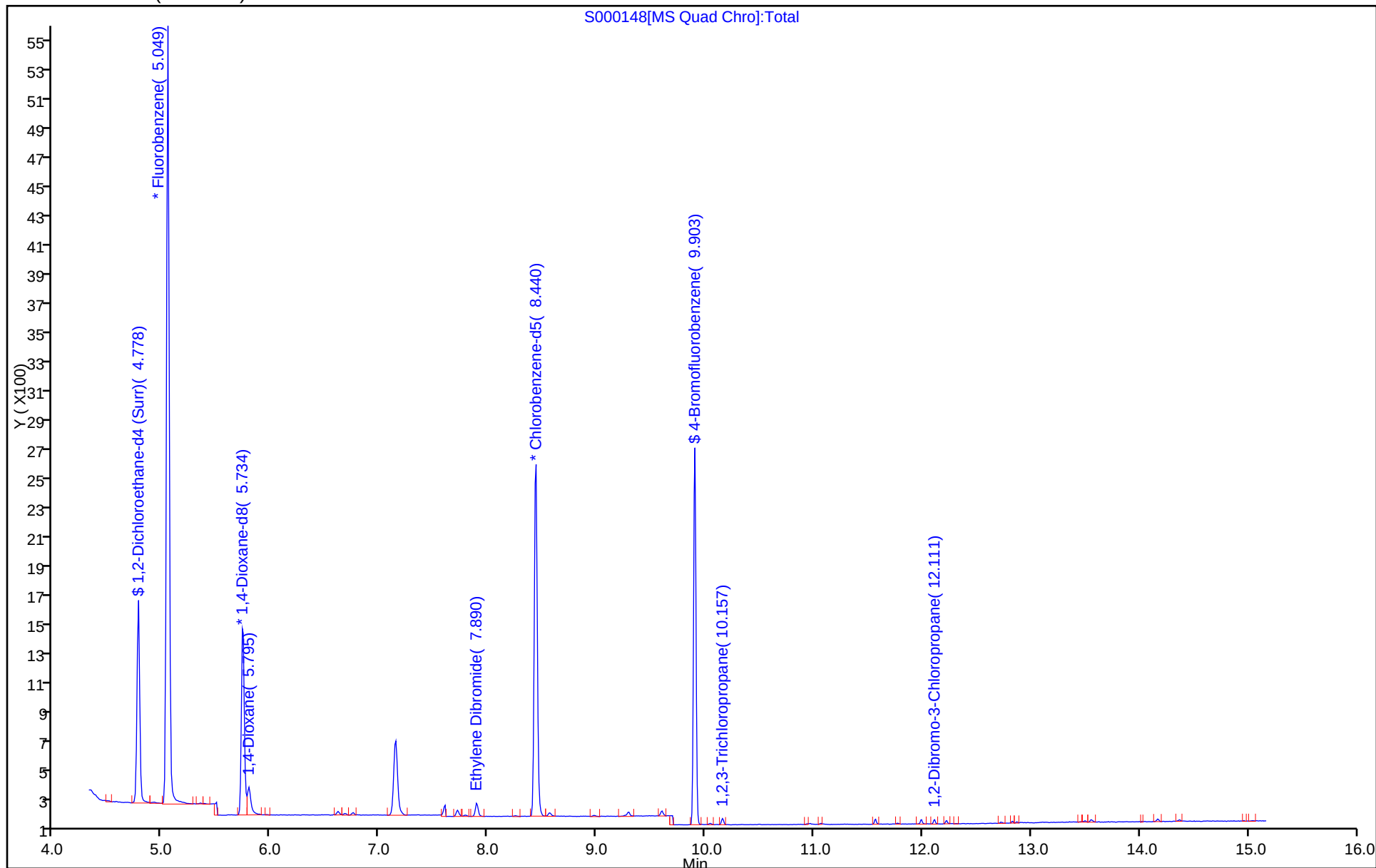
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Lab Sample ID: CCVIS 460-475006/2 Calibration Date: 11/06/2017 21:14
Instrument ID: CVOAMS14 Calib Start Date: 10/30/2017 19:28
GC Column: Rtx-624 ID: 0.25 (mm) Calib End Date: 10/31/2017 01:13
Lab File ID: S000263.D Conc. Units: ug/L Heated Purge: (Y/N) Y

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	Ave	1.949	1.813		4.65	5.00	-6.9	50.0
Ethylene Dibromide	Ave	0.4806	0.4931	0.1000	0.0513	0.0500	2.6	20.0
1,2,3-Trichloropropane	Ave	0.2013	0.2011		0.0500	0.0500	-0.0	20.0
1,2-Dibromo-3-Chloropropane	Ave	0.1256	0.1016	0.0500	0.0405	0.0500	-19.0	50.0
1,2-Dichloroethane-d4 (Surr)	Ave	0.2632	0.2537		0.482	0.500	-3.6	20.0
4-Bromofluorobenzene	Ave	0.7983	0.7335		0.460	0.500	-8.1	20.0

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000263.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 06-Nov-2017 21:14:01 ALS Bottle#: 0 Worklist Smp#: 2
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: CCVIS
 Operator ID: Instrument ID: CVOAMS14
 Sublist: chrom-8260SIM_14*sub1
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 07-Nov-2017 09:58:43 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: boykink

Date: 06-Nov-2017 22:01:17

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	99	12461	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.734	5.734	0.000	44	300	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.431	0.000	98	4624	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.768	4.768	0.000	100	3163	0.5003	0.4822	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	92	3393	0.5002	0.4596	
7 1,4-Dioxane	88	5.786	5.786	0.000	92	272	5.00	4.65	
8 Ethylene Dibromide	109	7.890	7.890	0.000	100	228	0.0500	0.0513	
9 1,2,3-Trichloropropane	110	10.157	10.157	0.000	96	93	0.0500	0.0500	
10 1,2-Dibromo-3-Chloropropan	157	12.104	12.104	0.000	100	47	0.0500	0.0405	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000263.D

Injection Date: 06-Nov-2017 21:14:01

Instrument ID: CVOAMS14

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

Purge Vol: 5.000 mL

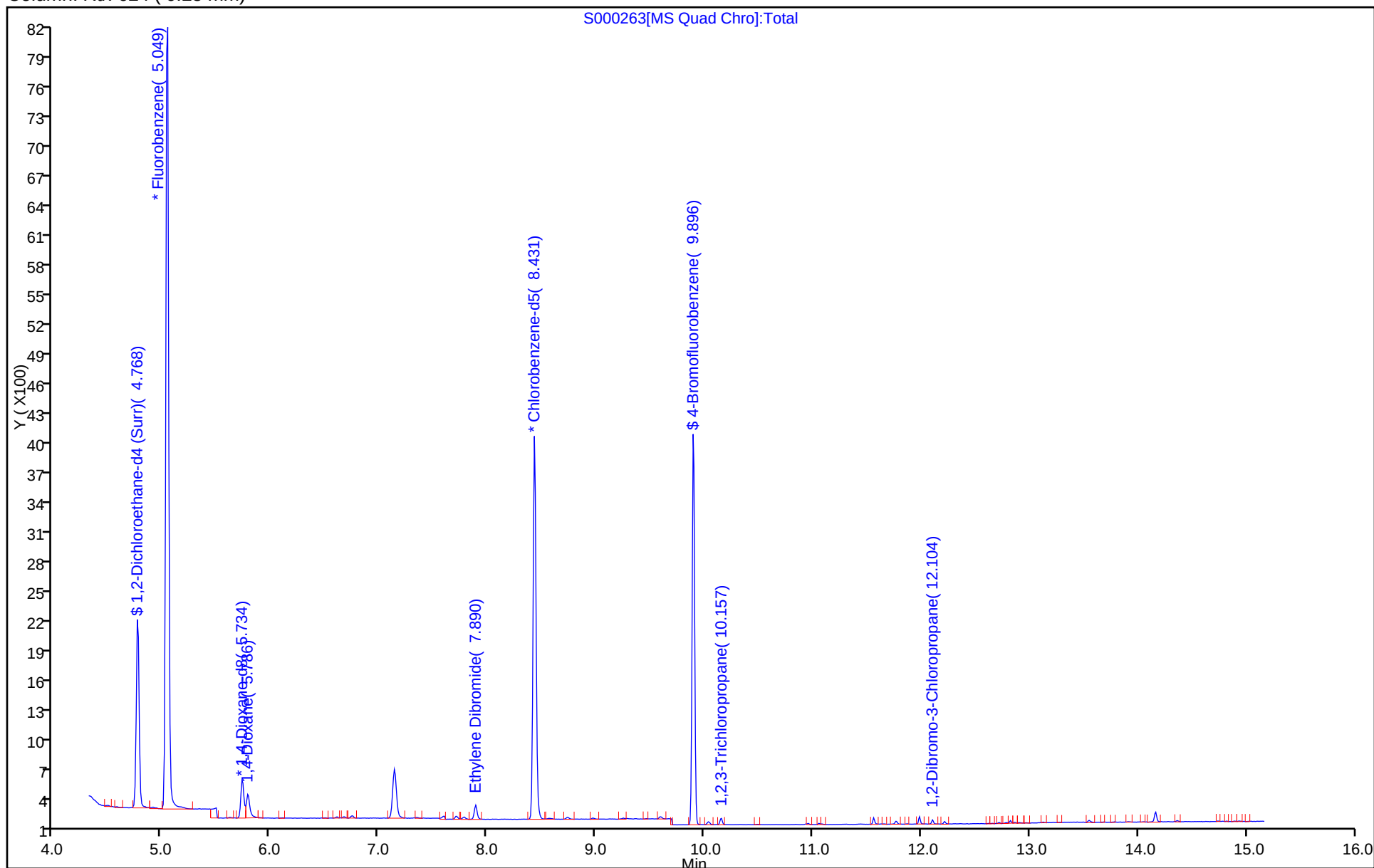
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000080.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Oct-2017 18:35:50 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 10.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: Instrument ID: CVOAMS14
Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 31-Oct-2017 22:12:08 Calib Date: 31-Oct-2017 01:13:24
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: boykink

Date: 31-Oct-2017 22:12:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 6 BFB	95	2.800	2.800	0.000	0	451	NR	NR	8

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

8 - Failed MS Tune Ratio Test

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000080.D

Injection Date: 30-Oct-2017 18:35:50

Instrument ID: CVOAMS14

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

0

Worklist Smp#:

1

Injection Vol: 10.0 mL

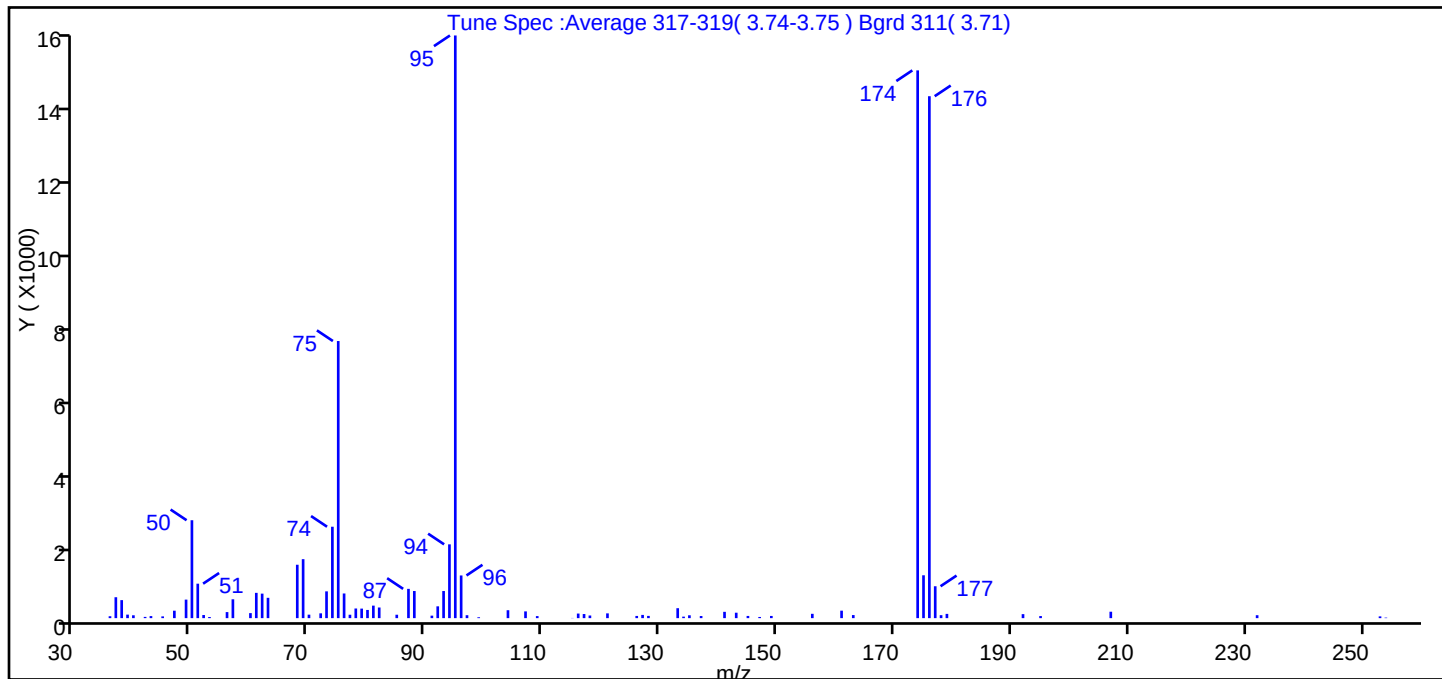
Dil. Factor: 1.0000

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	47.6
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	94.0
175	5 to 9% of m/z 174	7.4 (7.8)
176	Greater than 95% but less than 101% of m/z 174	89.6 (95.3)
177	5 to 9% of m/z 176	5.5 (6.1)

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000080.D\8260SIM_14.rslt\spectra.d
Injection Date: 30-Oct-2017 18:35:50
Spectrum: Tune Spec :Average 317-319(3.74-3.75) Bgrd 311(3.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	52	68.00	1455	94.00	2011	141.00	172
37.00	570	69.00	1607	95.00	15877	143.00	148
38.00	491	70.00	95	96.00	1163	145.00	60
39.00	96	72.00	131	97.00	80	147.00	32
40.00	78	73.00	730	99.00	24	149.00	60
42.00	34	74.00	2491	104.00	216	156.00	118
43.00	56	75.00	7551	107.00	184	161.00	204
45.00	48	76.00	672	109.00	56	163.00	84
47.00	203	77.00	93	115.00	5	174.00	14926
49.00	505	78.00	263	116.00	125	175.00	1168
50.00	2668	79.00	260	117.00	112	176.00	14222
51.00	939	80.00	223	118.00	72	177.00	869
52.00	85	81.00	341	121.00	130	178.00	81
53.00	30	82.00	290	126.00	60	179.00	116
56.00	165	85.00	93	127.00	88	192.00	109
57.00	514	87.00	798	128.00	61	195.00	57
60.00	137	88.00	739	133.00	271	207.00	175
61.00	689	91.00	68	134.00	41	232.00	80
62.00	668	92.00	322	135.00	78	253.00	48
63.00	554	93.00	739	137.00	58	254.00	14

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000080.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 30-Oct-2017 18:35:50 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 10.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: Instrument ID: CVOAMS14
Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\8260SIM_14.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 31-Oct-2017 22:12:08 Calib Date: 31-Oct-2017 01:13:24
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK006

First Level Reviewer: boykink

Date: 31-Oct-2017 22:12:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 6 BFB	95	2.800	2.800	0.000	0	451	NR	NR	8

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

8 - Failed MS Tune Ratio Test

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000080.D

Injection Date: 30-Oct-2017 18:35:50

Instrument ID: CVOAMS14

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 10.0 mL

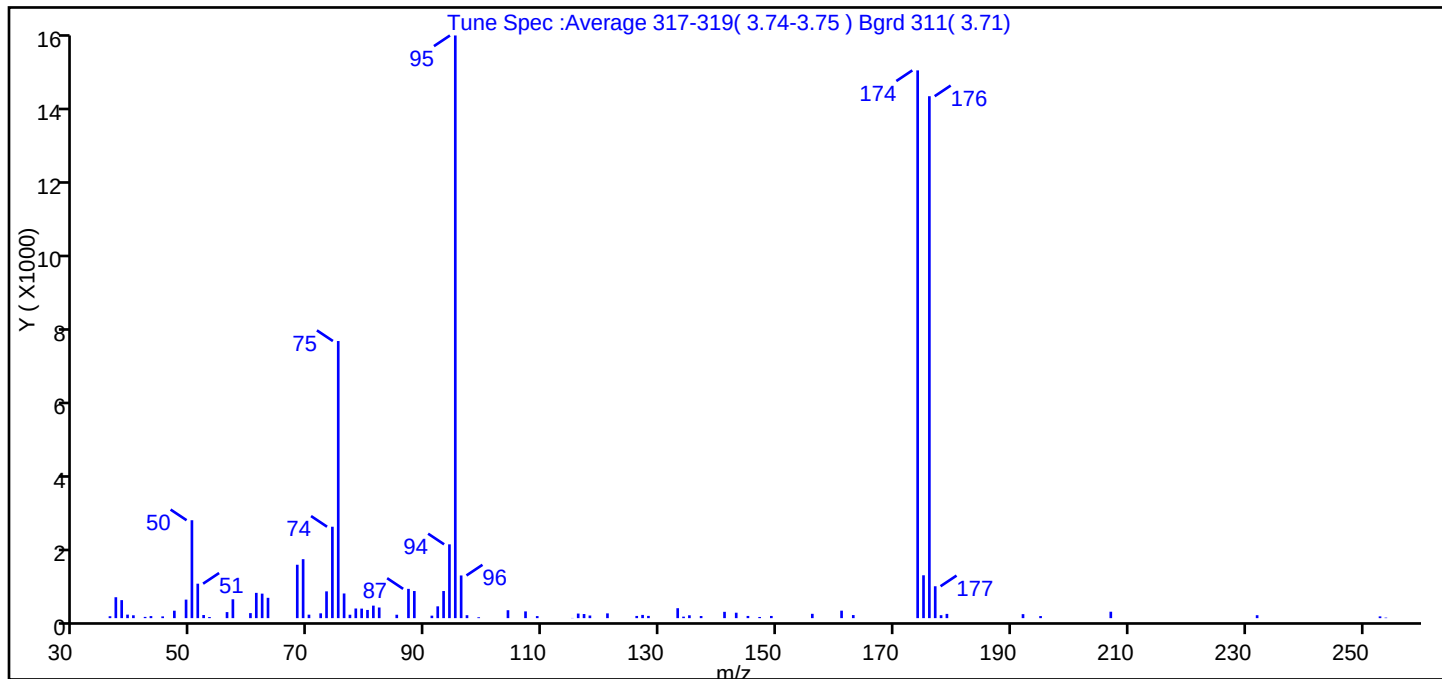
Dil. Factor: 1.0000

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	16.8
75	30 to 60% of m/z 95	47.6
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.0 (0.0)
174	50 to 120% of m/z 95	94.0
175	5 to 9% of m/z 174	7.4 (7.8)
176	Greater than 95% but less than 101% of m/z 174	89.6 (95.3)
177	5 to 9% of m/z 176	5.5 (6.1)

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000080.D\8260SIM_14.rslt\spectra.d
Injection Date: 30-Oct-2017 18:35:50
Spectrum: Tune Spec :Average 317-319(3.74-3.75) Bgrd 311(3.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 80

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	52	68.00	1455	94.00	2011	141.00	172
37.00	570	69.00	1607	95.00	15877	143.00	148
38.00	491	70.00	95	96.00	1163	145.00	60
39.00	96	72.00	131	97.00	80	147.00	32
40.00	78	73.00	730	99.00	24	149.00	60
42.00	34	74.00	2491	104.00	216	156.00	118
43.00	56	75.00	7551	107.00	184	161.00	204
45.00	48	76.00	672	109.00	56	163.00	84
47.00	203	77.00	93	115.00	5	174.00	14926
49.00	505	78.00	263	116.00	125	175.00	1168
50.00	2668	79.00	260	117.00	112	176.00	14222
51.00	939	80.00	223	118.00	72	177.00	869
52.00	85	81.00	341	121.00	130	178.00	81
53.00	30	82.00	290	126.00	60	179.00	116
56.00	165	85.00	93	127.00	88	192.00	109
57.00	514	87.00	798	128.00	61	195.00	57
60.00	137	88.00	739	133.00	271	207.00	175
61.00	689	91.00	68	134.00	41	232.00	80
62.00	668	92.00	322	135.00	78	253.00	48
63.00	554	93.00	739	137.00	58	254.00	14

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000115.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 03-Nov-2017 07:02:39 ALS Bottle#: 0 Worklist Smp#: 1
 Injection Vol: 10.0 mL Dil. Factor: 1.0000
 Sample Info: BFB
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 03-Nov-2017 22:06:06 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK029

First Level Reviewer: boykink

Date: 03-Nov-2017 22:06:06

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.808	4.808	0.000	31	116	NR	NR	
\$ 6 BFB	95	3.749	2.800	0.949	0	171740	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00015

Amount Added: 1.00

Units: uL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000115.D

Injection Date: 03-Nov-2017 07:02:39

Instrument ID: CVOAMS14

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 10.0 mL

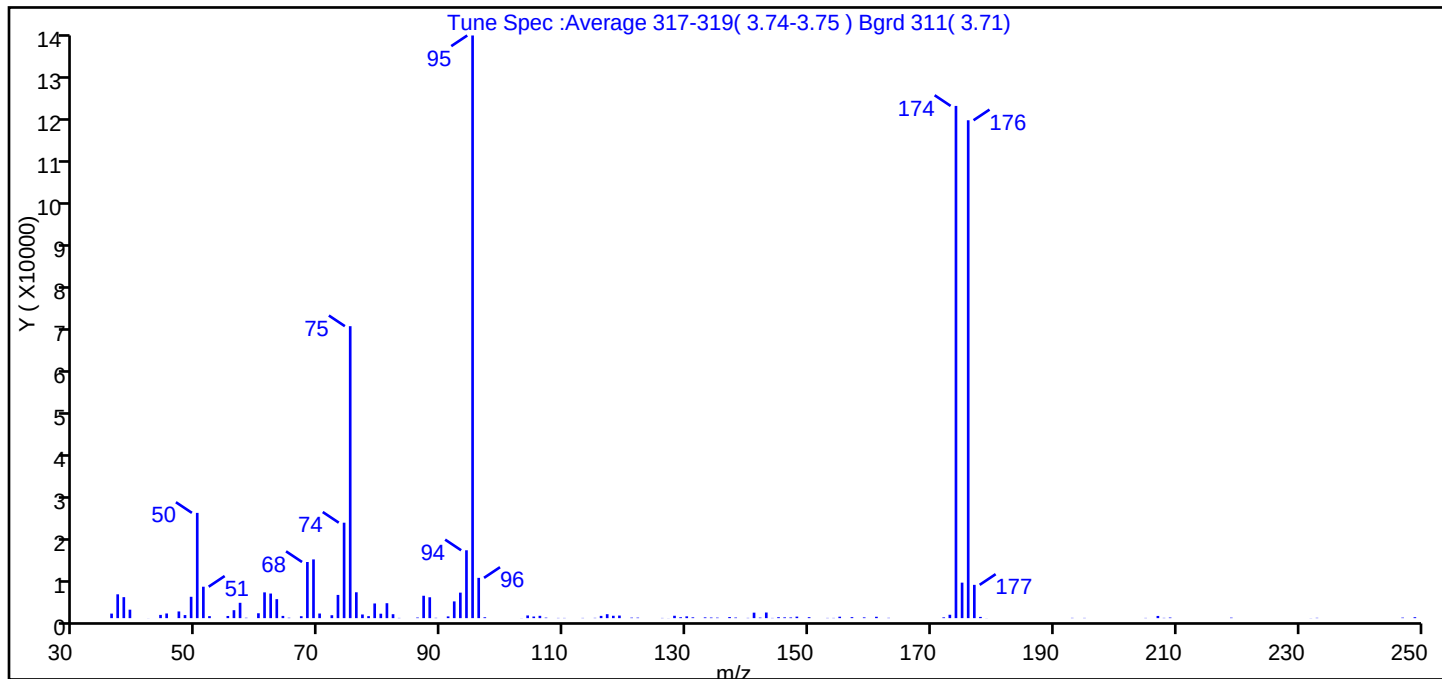
Dil. Factor: 1.0000

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	18.1
75	30 to 60% of m/z 95	50.1
96	5 to 9% of m/z 95	6.9
173	Less than 2% of m/z 174	0.6 (0.7)
174	50 to 120% of m/z 95	87.9
175	5 to 9% of m/z 174	6.1 (6.9)
176	Greater than 95% but less than 101% of m/z 174	85.4 (97.2)
177	5 to 9% of m/z 176	5.7 (6.7)

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000115.D\8260SIM_14.rslt\spectra.d
Injection Date: 03-Nov-2017 07:02:39
Spectrum: Tune Spec :Average 317-319(3.74-3.75) Bgrd 311(3.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 112

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1048	73.00	5362	110.00	51	148.00	349
37.00	5504	74.00	22040	113.00	54	150.00	219
38.00	4846	75.00	67408	115.00	68	153.00	54
39.00	1956	76.00	5975	116.00	523	154.00	55
42.00	16	77.00	844	117.00	910	155.00	330
44.00	751	78.00	460	118.00	550	157.00	230
45.00	1077	79.00	3387	119.00	596	159.00	175
47.00	1547	80.00	1022	121.00	117	161.00	318
48.00	705	81.00	3448	122.00	117	163.00	71
49.00	4928	82.00	907	126.00	50	172.00	181
50.00	24304	83.00	54	127.00	20	173.00	780
51.00	7257	86.00	139	128.00	550	174.00	118264
52.00	465	87.00	5169	129.00	211	175.00	8196
55.00	501	88.00	4822	130.00	412	176.00	114952
56.00	1833	89.00	74	131.00	186	177.00	7688
57.00	3544	91.00	400	133.00	176	178.00	285
58.00	89	92.00	3865	134.00	140	179.00	19
60.00	1129	93.00	5891	135.00	117	193.00	64
61.00	5951	94.00	15669	137.00	249	195.00	57
62.00	5679	95.00	134528	138.00	139	205.00	55
63.00	4385	96.00	9302	140.00	60	207.00	508
64.00	518	97.00	200	141.00	1268	208.00	65
65.00	94	103.00	21	142.00	127	209.00	137
67.00	443	104.00	619	143.00	1302	219.00	111
68.00	12961	105.00	374	144.00	52	232.00	26
69.00	13564	106.00	538	145.00	215	233.00	72
70.00	1068	107.00	121	146.00	180	247.00	123
72.00	675	109.00	53	147.00	160	249.00	214

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000146.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 03-Nov-2017 20:58:20 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 10.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: Instrument ID: CVOAMS14
Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\8260SIM_14.m
Limit Group: VOA - 8260C Water and Solid
Last Update: 04-Nov-2017 08:55:50 Calib Date: 31-Oct-2017 01:13:24
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK010

First Level Reviewer: boykink

Date: 03-Nov-2017 21:17:21

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 6 BFB	95	3.763	3.763	0.000	0	112837	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00015

Amount Added: 1.00

Units: uL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000146.D

Injection Date: 03-Nov-2017 20:58:20

Instrument ID: CVOAMS14

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 10.0 mL

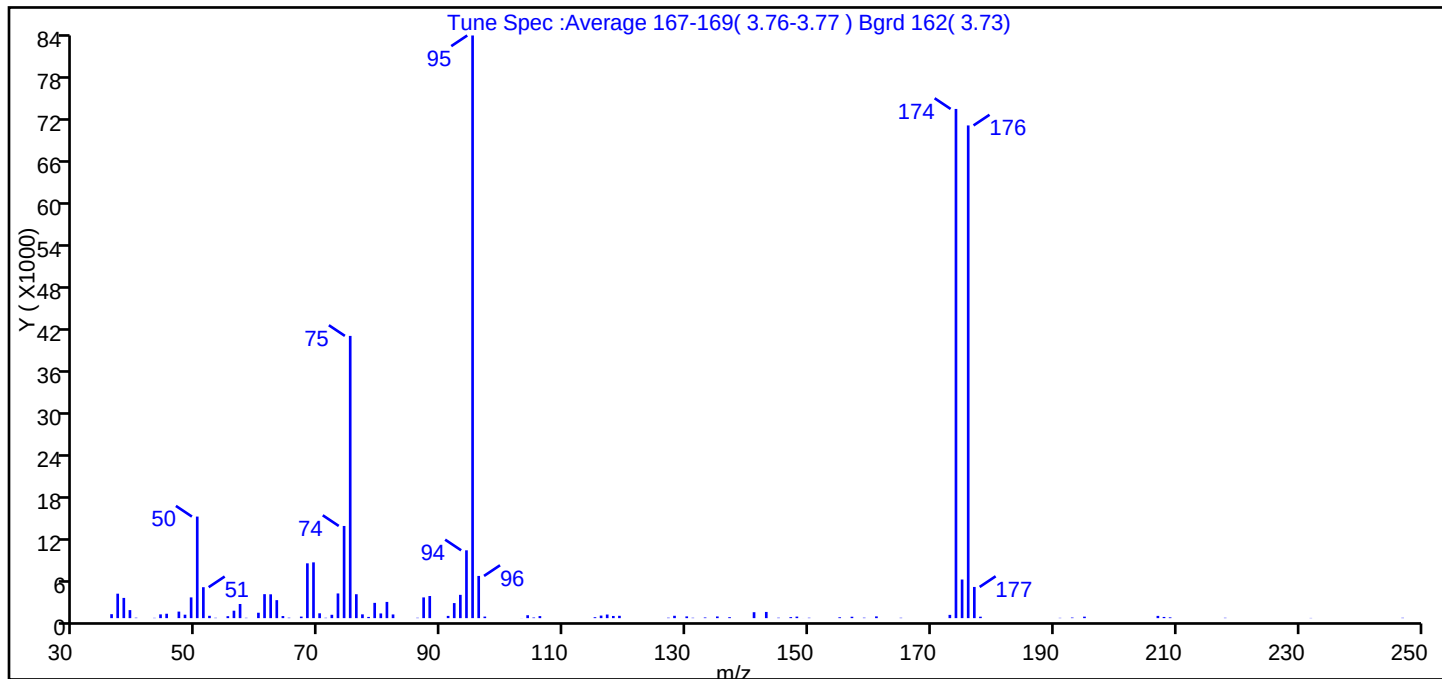
Dil. Factor: 1.0000

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.4
75	30 to 60% of m/z 95	48.4
96	5 to 9% of m/z 95	7.2
173	Less than 2% of m/z 174	0.6 (0.6)
174	50 to 120% of m/z 95	87.4
175	5 to 9% of m/z 174	6.6 (7.6)
176	Greater than 95% but less than 101% of m/z 174	84.6 (96.8)
177	5 to 9% of m/z 176	5.4 (6.3)

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000146.D\8260SIM_14.rslt\spectra.d
Injection Date: 03-Nov-2017 20:58:20
Spectrum: Tune Spec :Average 167-169(3.76-3.77) Bgrd 162(3.73)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 94

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	570	65.00	62	95.00	83632	149.00	2
37.00	3511	67.00	221	96.00	6059	150.00	57
38.00	2905	68.00	7868	97.00	224	155.00	126
39.00	1153	69.00	8006	103.00	9	157.00	202
40.00	64	70.00	695	104.00	418	159.00	64
43.00	41	71.00	53	105.00	89	161.00	251
44.00	541	72.00	482	106.00	293	165.00	53
45.00	631	73.00	3545	115.00	135	173.00	470
47.00	940	74.00	13231	116.00	369	174.00	73088
48.00	495	75.00	40512	117.00	519	175.00	5546
49.00	2977	76.00	3433	118.00	313	176.00	70720
50.00	14578	77.00	544	119.00	336	177.00	4478
51.00	4442	78.00	176	127.00	62	178.00	208
52.00	336	79.00	2193	128.00	339	191.00	42
53.00	51	80.00	675	130.00	250	193.00	84
55.00	281	81.00	2329	131.00	54	195.00	213
56.00	1068	82.00	531	133.00	95	207.00	323
57.00	2033	86.00	52	135.00	241	208.00	171
58.00	50	87.00	2976	137.00	136	209.00	111
60.00	776	88.00	3175	141.00	853	218.00	51
61.00	3441	91.00	322	143.00	891	232.00	29
62.00	3421	92.00	2162	145.00	61	247.00	51
63.00	2583	93.00	3345	147.00	147		
64.00	301	94.00	9736	148.00	220		

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000262.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 06-Nov-2017 20:34:02 ALS Bottle#: 0 Worklist Smp#: 1
Injection Vol: 10.0 mL Dil. Factor: 1.0000
Sample Info: BFB
Operator ID: Instrument ID: CVOAMS14
Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\8260SIM_14.m
Limit Group: VOA - 8260C DKQP Water and Solid
Last Update: 07-Nov-2017 09:58:40 Calib Date: 31-Oct-2017 01:13:24
Integrator: RTE ID Type: RT Order ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
Process Host: XAWRK007

First Level Reviewer: desais

Date: 07-Nov-2017 08:44:42

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
\$ 6 BFB	95	3.742	3.742	0.000	0	185647	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_00015

Amount Added: 1.00

Units: uL

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000262.D

Injection Date: 06-Nov-2017 20:34:02

Instrument ID: CVOAMS14

Lims ID: BFB

Client ID:

Operator ID:

ALS Bottle#:

0

Worklist Smp#: 1

Injection Vol: 10.0 mL

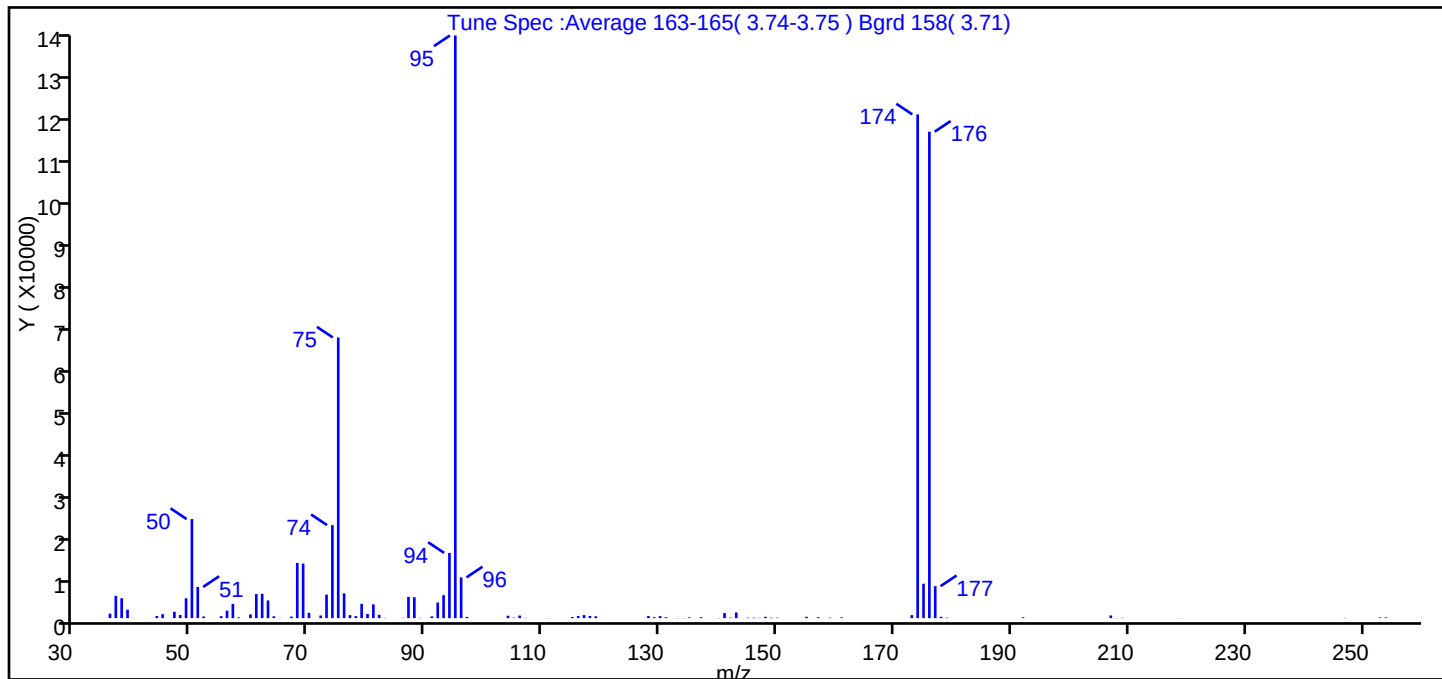
Dil. Factor: 1.0000

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Tune Method: BFB Method 8260

\$ 6 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	17.0
75	30 to 60% of m/z 95	48.2
96	5 to 9% of m/z 95	7.0
173	Less than 2% of m/z 174	0.5 (0.6)
174	50 to 120% of m/z 95	86.5
175	5 to 9% of m/z 174	5.9 (6.8)
176	Greater than 95% but less than 101% of m/z 174	83.5 (96.6)
177	5 to 9% of m/z 176	5.5 (6.6)

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000262.D\8260SIM_14.rslt\spectra.d
Injection Date: 06-Nov-2017 20:34:02
Spectrum: Tune Spec :Average 163-165(3.74-3.75) Bgrd 158(3.71)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 98

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	1057	68.00	13072	97.00	299	147.00	66
37.00	5279	69.00	12923	104.00	574	148.00	328
38.00	4718	70.00	1253	105.00	113	149.00	119
39.00	1994	72.00	630	106.00	612	150.00	107
40.00	45	73.00	5560	107.00	59	155.00	322
43.00	23	74.00	22024	111.00	51	157.00	215
44.00	520	75.00	66424	115.00	282	159.00	110
45.00	937	76.00	5863	116.00	509	161.00	183
47.00	1507	77.00	712	117.00	728	173.00	717
48.00	739	78.00	483	118.00	511	174.00	119232
49.00	4701	79.00	3391	119.00	447	175.00	8143
50.00	23456	80.00	1002	128.00	491	176.00	115144
51.00	7384	81.00	3275	129.00	225	177.00	7568
52.00	400	82.00	784	130.00	479	178.00	315
55.00	466	83.00	62	131.00	230	179.00	119
56.00	1768	86.00	67	133.00	50	192.00	199
57.00	3372	87.00	5041	134.00	53	207.00	634
58.00	192	88.00	4951	135.00	178	208.00	45
60.00	882	89.00	68	137.00	238	209.00	80
61.00	5700	91.00	420	140.00	53	219.00	33
62.00	5775	92.00	3697	141.00	1207	247.00	57
63.00	4196	93.00	5444	142.00	121	253.00	158
64.00	438	94.00	15444	143.00	1354	254.00	164
65.00	50	95.00	137920	145.00	118		
67.00	365	96.00	9641	146.00	120		

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 460-474314/8
Matrix: Water Lab File ID: S000122.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 10:45
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	114		71-144
460-00-4	4-Bromofluorobenzene	91		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000122.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 03-Nov-2017 10:45:18 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 08:58:09 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: desais

Date: 03-Nov-2017 13:12:14

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7917	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	46	201	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	2950	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.808	-0.029	100	2376	0.5003	0.5702	
\$ 5 4-Bromofluorobenzene	95	9.904	9.897	0.007	99	2153	0.5002	0.4571	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000122.D

Injection Date: 03-Nov-2017 10:45:18

Instrument ID: CVOAMS14

Operator ID:

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

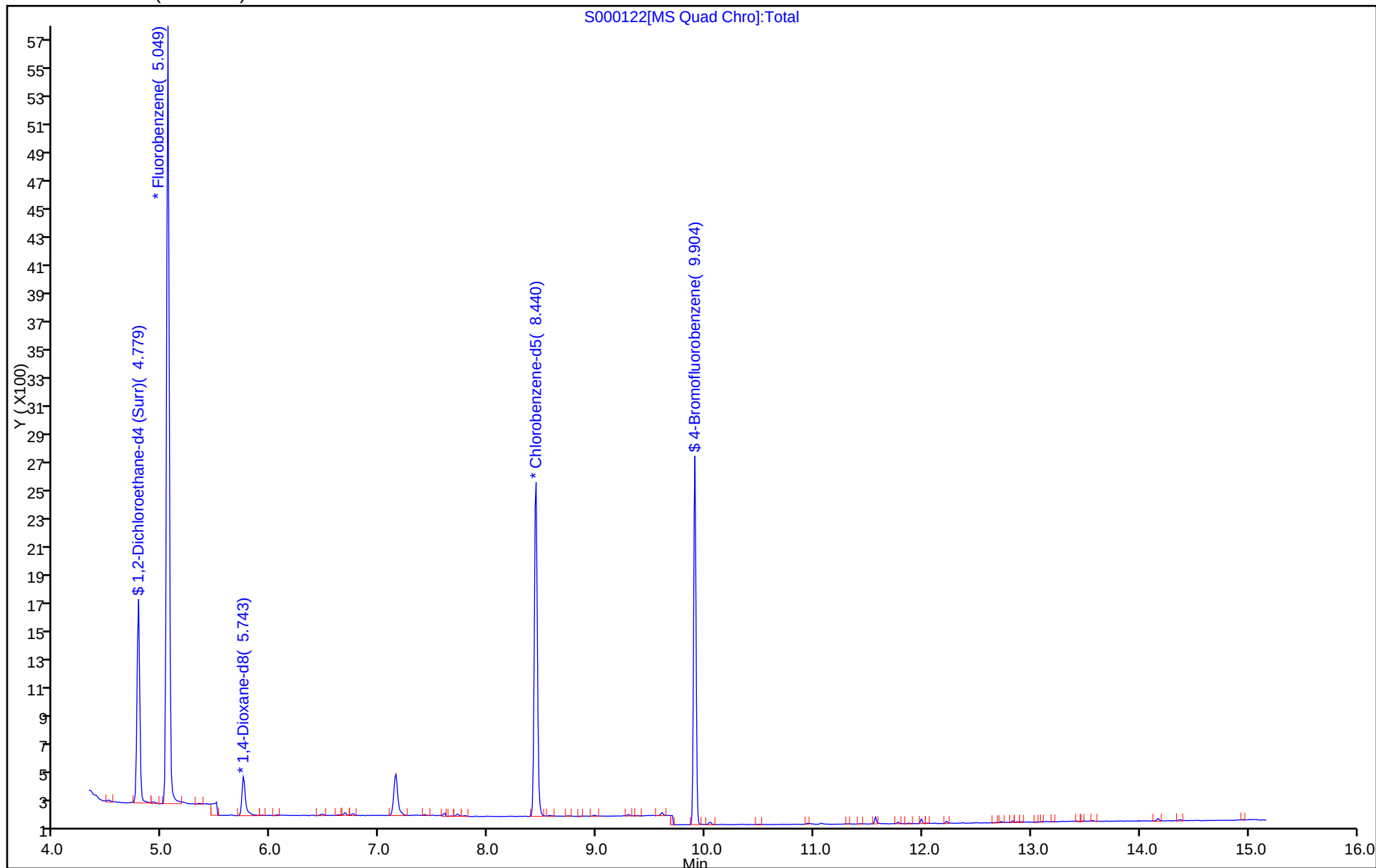
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 460-474523/8
Matrix: Water Lab File ID: S000153.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 11/04/2017 00:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		71-144
460-00-4	4-Bromofluorobenzene	89		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000153.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 04-Nov-2017 00:02:25 ALS Bottle#: 0 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 04-Nov-2017 08:58:27 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK010

First Level Reviewer: desais

Date: 04-Nov-2017 08:38:34

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8511	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	41	207	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	3288	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2397	0.5003	0.5351	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	98	2338	0.5002	0.4454	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000153.D

Injection Date: 04-Nov-2017 00:02:25

Instrument ID: CVOAMS14

Operator ID:

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

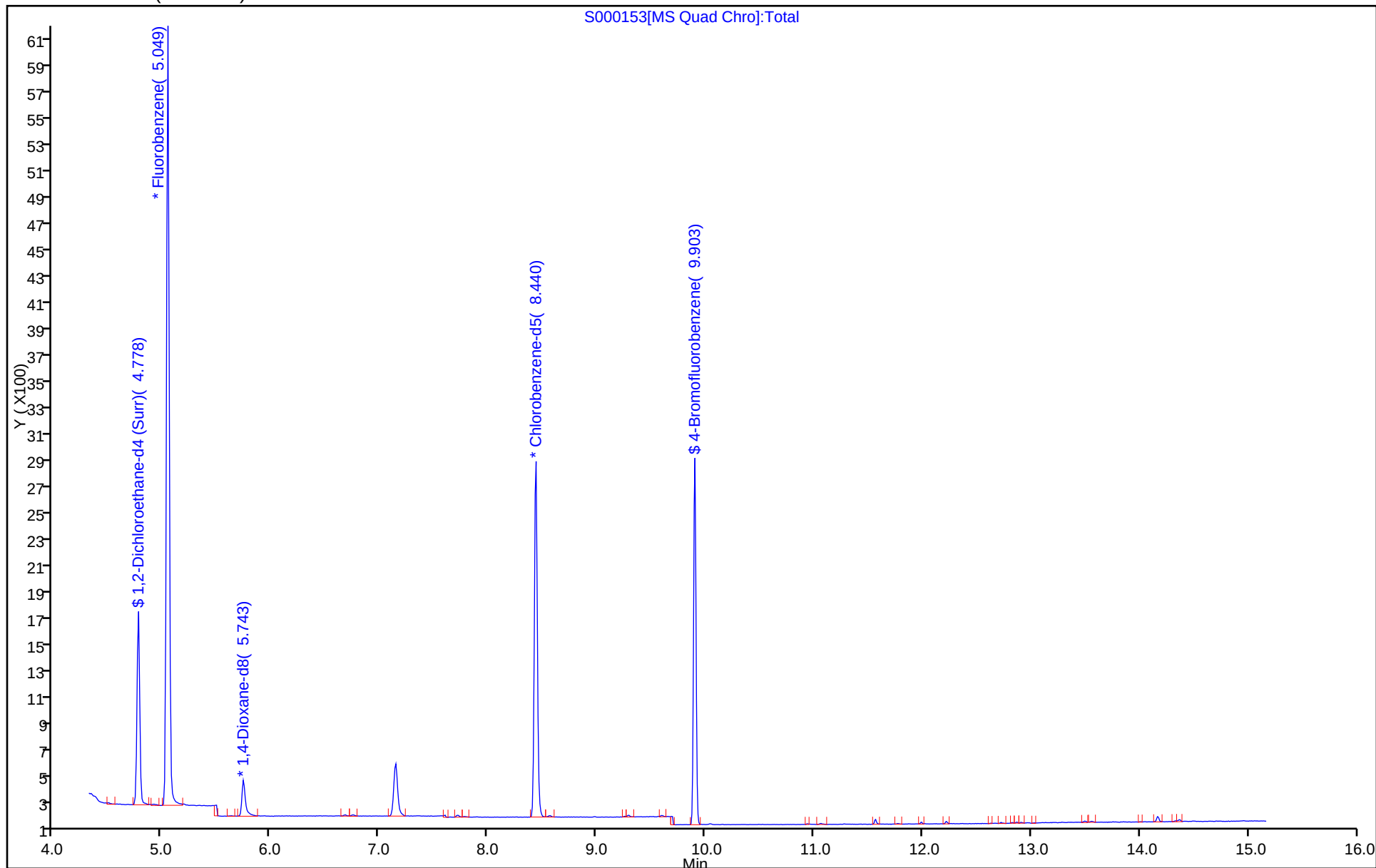
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 460-475006/7
Matrix: Water Lab File ID: S000268.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 11/06/2017 23:14
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 475006 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.40	U	0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000268.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 06-Nov-2017 23:14:22 ALS Bottle#: 0 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: MB
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 07-Nov-2017 09:58:43 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 07-Nov-2017 09:51:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11015	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.734	5.734	0.000	42	291	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.431	0.001	96	4106	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.768	0.010	100	2922	0.5003	0.5040	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	96	2940	0.5002	0.4485	

Reagents:

SimissurNEW_00010

Amount Added: 2.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171106-62997.b\\S000268.D

Injection Date: 06-Nov-2017 23:14:22

Instrument ID: CVOAMS14

Operator ID:

Lims ID: MB

Worklist Smp#: 7

Client ID:

Purge Vol: 5.000 mL

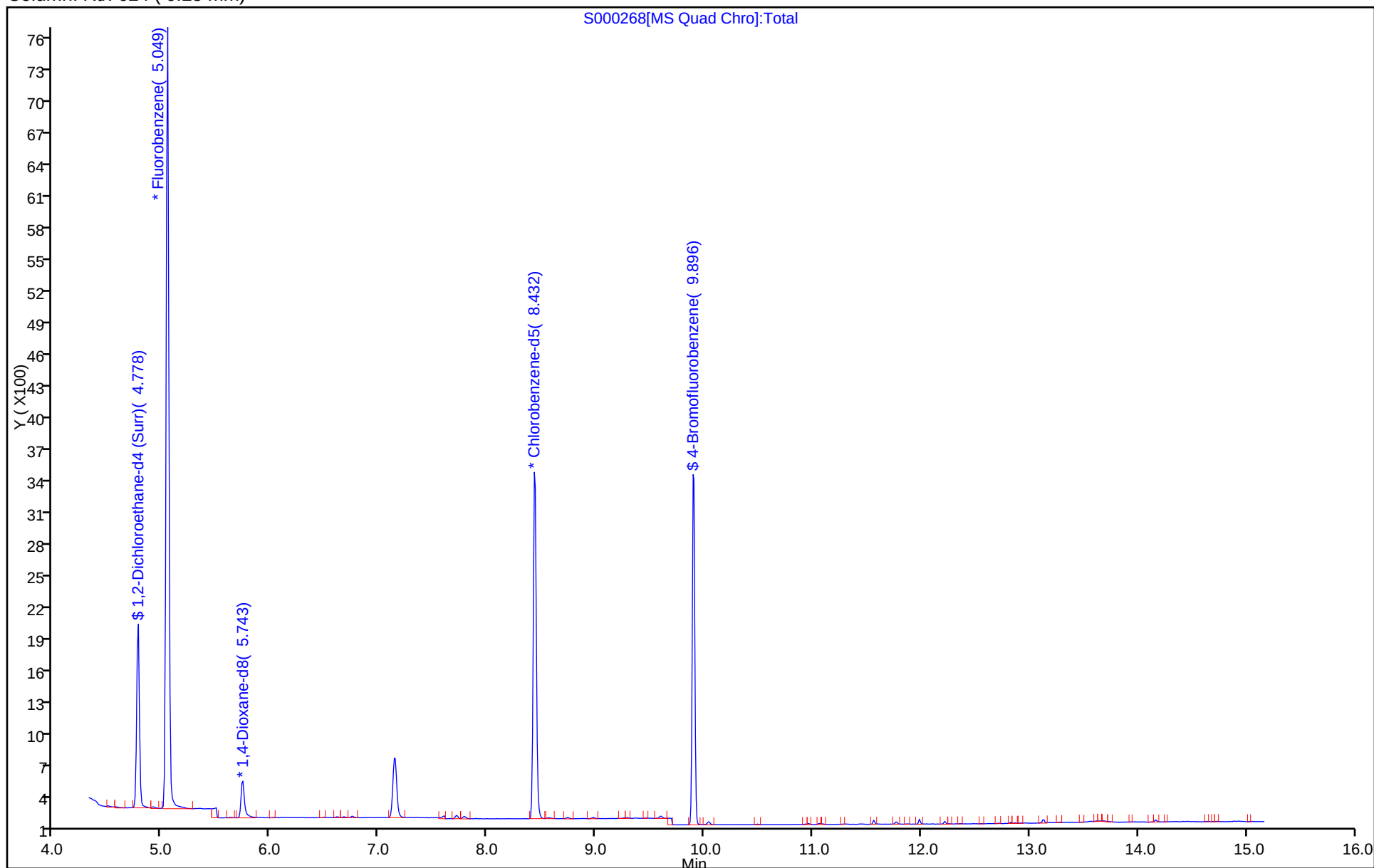
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 460-474314/3
Matrix: Water Lab File ID: S000117.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 08:16
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.66		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	107		71-144
460-00-4	4-Bromofluorobenzene	92		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000117.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Nov-2017 09:16:09 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 06-Nov-2017 11:53:55 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: xuyvo

Date: 06-Nov-2017 11:53:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8562	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	17	228	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.440	-0.009	99	3346	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2423	0.5003	0.5376	
\$ 5 4-Bromofluorobenzene	95	9.896	9.903	-0.007	90	2446	0.5002	0.4579	
7 1,4-Dioxane	88	5.795	5.804	-0.009	29	207	5.00	4.66	
8 Ethylene Dibromide	109	7.890	7.899	-0.009	99	157	0.0500	0.0488	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	72	0.0500	0.0534	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	70	40	0.0500	0.0476	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000117.D

Injection Date: 03-Nov-2017 09:16:09

Instrument ID: CVOAMS14

Operator ID:

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

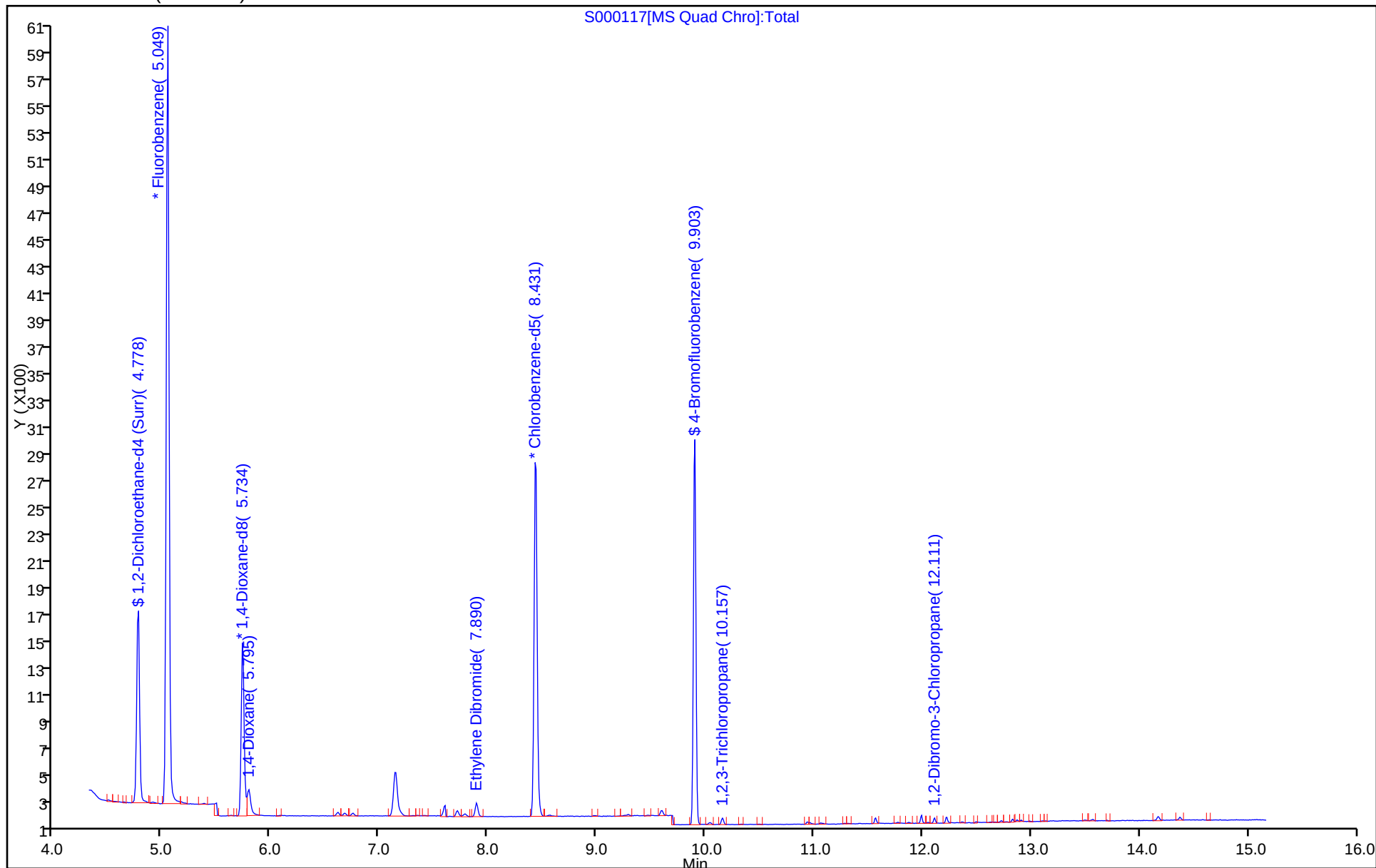
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCS 460-474523/4
Matrix: Water Lab File ID: S000149.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 22:26
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.44		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000149.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 03-Nov-2017 23:26:18 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 06-Nov-2017 11:35:18 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: desais

Date: 04-Nov-2017 08:38:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7259	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	66	223	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.432	0.000	93	2820	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2123	0.5003	0.5556	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	97	2034	0.5002	0.4518	
7 1,4-Dioxane	88	5.795	5.795	0.000	83	193	5.00	4.44	
8 Ethylene Dibromide	109	7.890	7.890	0.000	100	147	0.0500	0.0542	
9 1,2,3-Trichloropropane	110	10.157	10.157	0.000	96	62	0.0500	0.0546	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	100	31	0.0500	0.0438	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000149.D

Injection Date: 03-Nov-2017 23:26:18

Instrument ID: CVOAMS14

Operator ID:

Lims ID: LCS

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

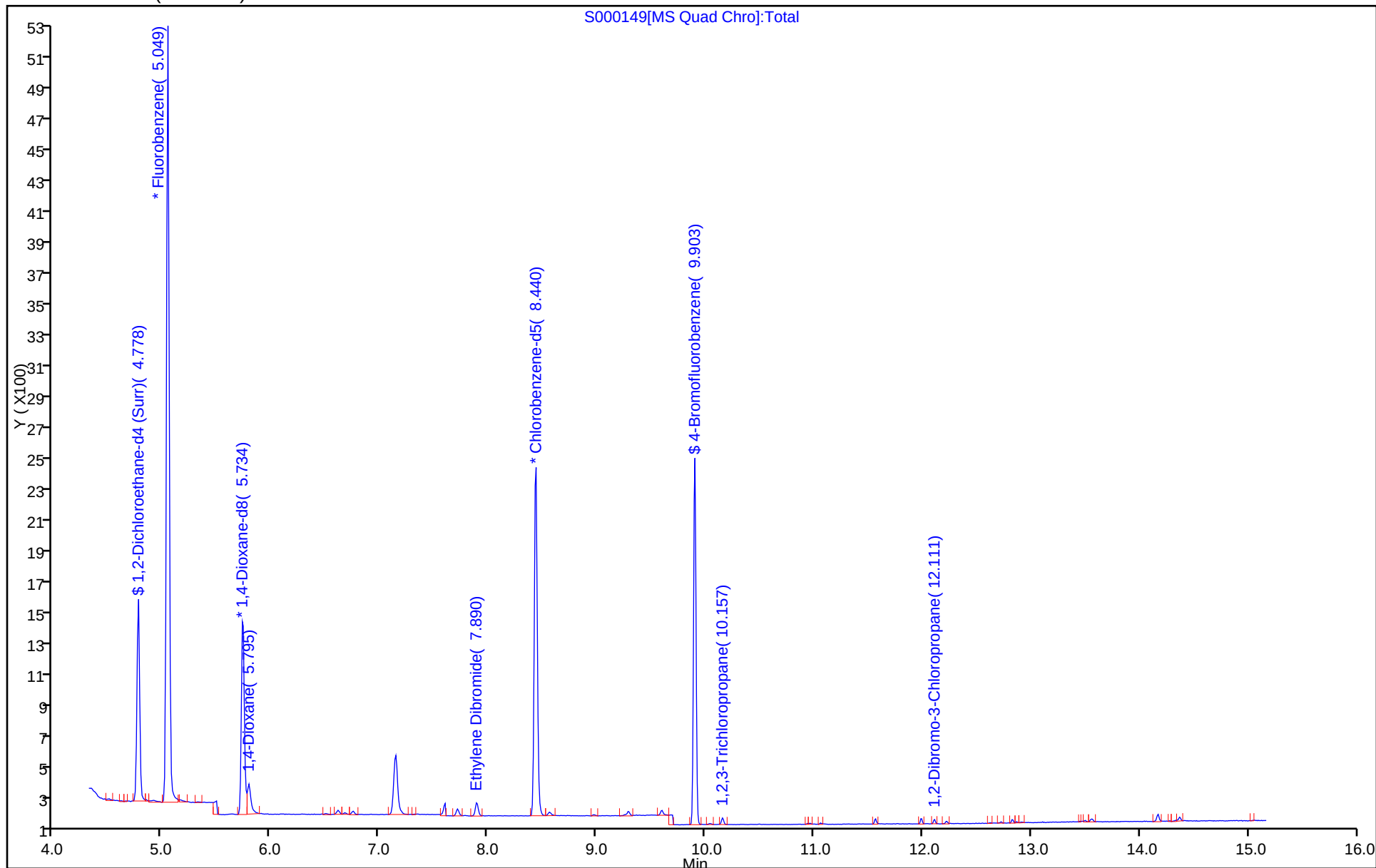
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-475006/3
 Matrix: Water Lab File ID: S000264.D
 Analysis Method: 8260C SIM Date Collected: _____
 Sample wt/vol: 10 (mL) Date Analyzed: 11/06/2017 21:38
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 475006 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.54		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000264.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 06-Nov-2017 21:38:05 ALS Bottle#: 0 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCS
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 07-Nov-2017 09:58:43 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: boykink

Date: 06-Nov-2017 22:01:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11632	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.734	5.734	0.000	42	293	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.431	0.001	96	4295	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.768	0.010	100	3009	0.5003	0.4915	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	94	3091	0.5002	0.4508	
7 1,4-Dioxane	88	5.795	5.786	0.009	93	259	5.00	4.54	
8 Ethylene Dibromide	109	7.890	7.890	0.000	100	206	0.0500	0.0499	
9 1,2,3-Trichloropropane	110	10.157	10.157	0.000	96	88	0.0500	0.0509	
10 1,2-Dibromo-3-Chloropropan	157	12.104	12.104	0.000	99	40	0.0500	0.0371	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171106-62997.b\\S000264.D

Injection Date: 06-Nov-2017 21:38:05

Instrument ID: CVOAMS14

Operator ID:

Lims ID: LCS

Worklist Smp#: 3

Client ID:

Purge Vol: 5.000 mL

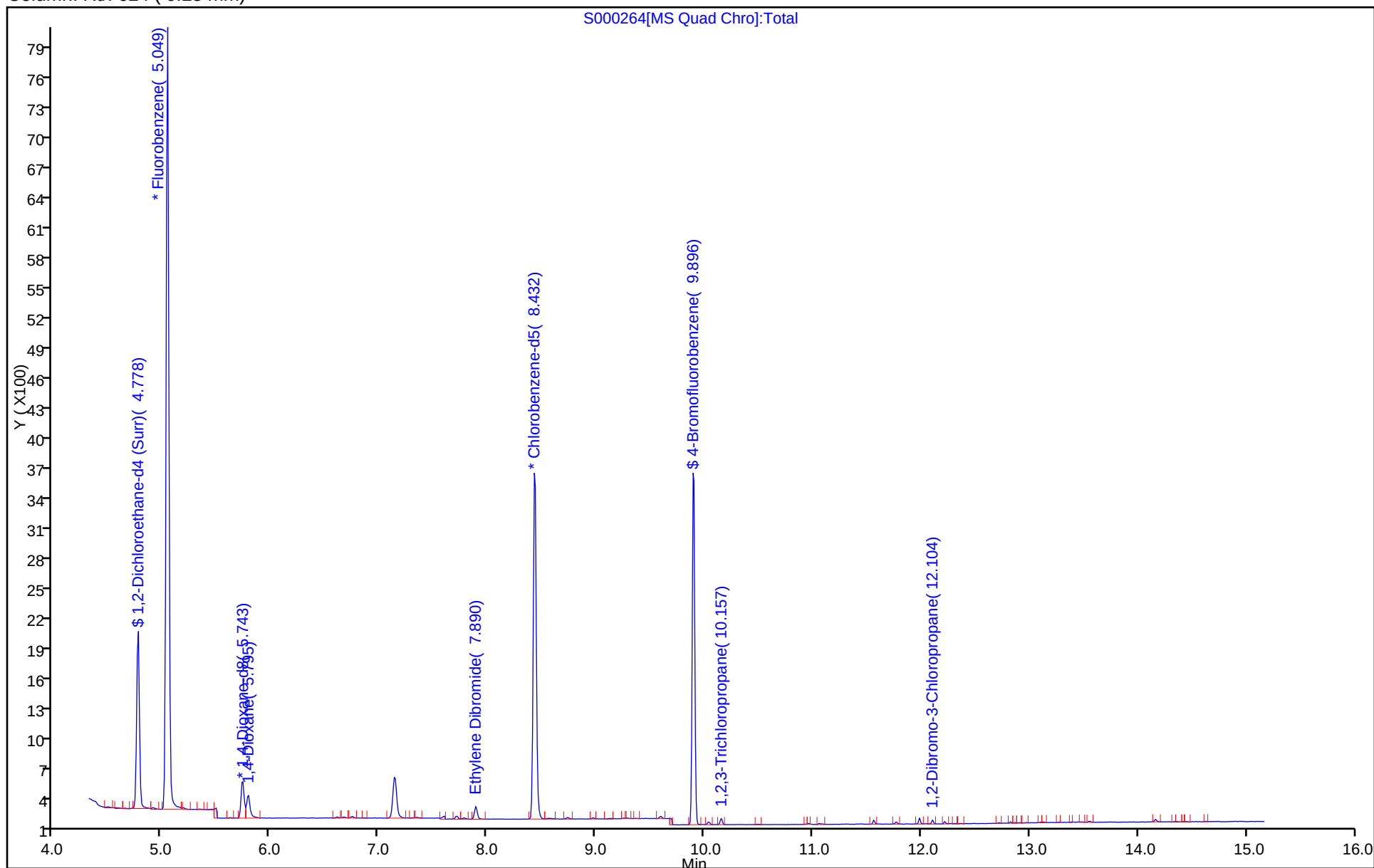
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 460-474314/4
Matrix: Water Lab File ID: S000118.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 08:40
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474314 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.01		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		71-144
460-00-4	4-Bromofluorobenzene	91		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000118.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Nov-2017 09:40:37 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 06-Nov-2017 11:54:18 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: xuyvo

Date: 06-Nov-2017 11:54:18

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	8020	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	15	203	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.440	8.440	0.000	94	3077	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2340	0.5003	0.5543	
\$ 5 4-Bromofluorobenzene	95	9.903	9.903	0.000	79	2235	0.5002	0.4549	
7 1,4-Dioxane	88	5.795	5.804	-0.009	33	198	5.00	5.01	
8 Ethylene Dibromide	109	7.899	7.899	0.000	98	145	0.0500	0.0490	
9 1,2,3-Trichloropropane	110	10.157	10.164	-0.007	100	66	0.0500	0.0533	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	70	36	0.0500	0.0466	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62850.b\S000118.D

Injection Date: 03-Nov-2017 09:40:37

Instrument ID: CVOAMS14

Operator ID:

Lims ID: LCSD

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

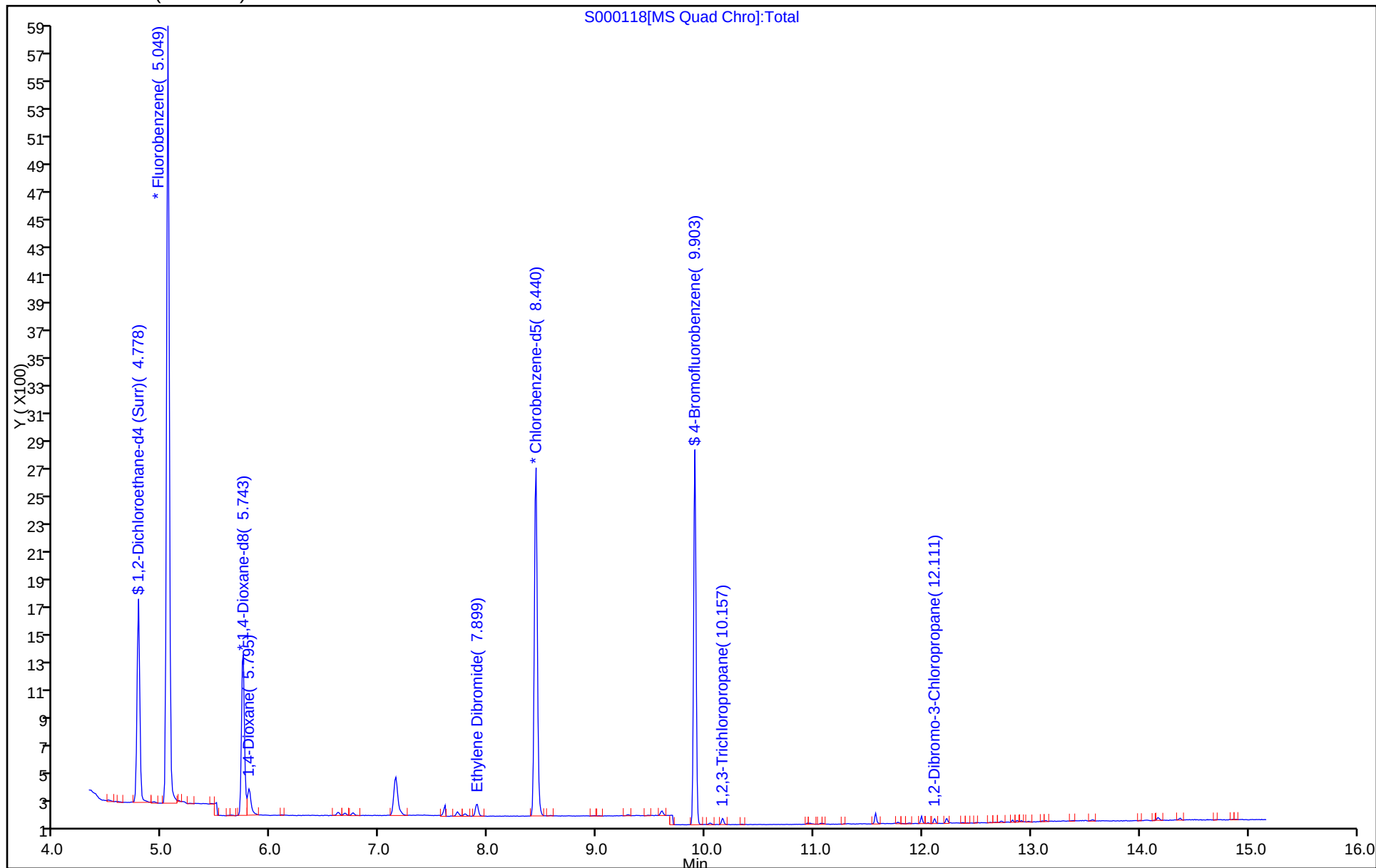
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 460-474523/5
Matrix: Water Lab File ID: S000150.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 11/03/2017 22:50
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 474523 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.80		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	111		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000150.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 03-Nov-2017 23:50:23 ALS Bottle#: 0 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\8260SIM_14.m
 Limit Group: VOA - 8260C Water and Solid
 Last Update: 06-Nov-2017 11:35:18 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK014

First Level Reviewer: desais

Date: 04-Nov-2017 08:38:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	7969	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.743	5.743	0.000	66	219	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.432	-0.001	93	3106	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.778	0.000	100	2329	0.5003	0.5552	
\$ 5 4-Bromofluorobenzene	95	9.903	9.896	0.007	85	2227	0.5002	0.4491	
7 1,4-Dioxane	88	5.795	5.795	0.000	81	205	5.00	4.80	
8 Ethylene Dibromide	109	7.890	7.890	0.000	100	145	0.0500	0.0486	
9 1,2,3-Trichloropropane	110	10.157	10.157	0.000	96	63	0.0500	0.0504	
10 1,2-Dibromo-3-Chloropropan	157	12.111	12.111	0.000	98	30	0.0500	0.0385	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171103-62890.b\S000150.D

Injection Date: 03-Nov-2017 23:50:23

Instrument ID: CVOAMS14

Operator ID:

Lims ID: LCSD

Worklist Smp#: 5

Client ID:

Purge Vol: 5.000 mL

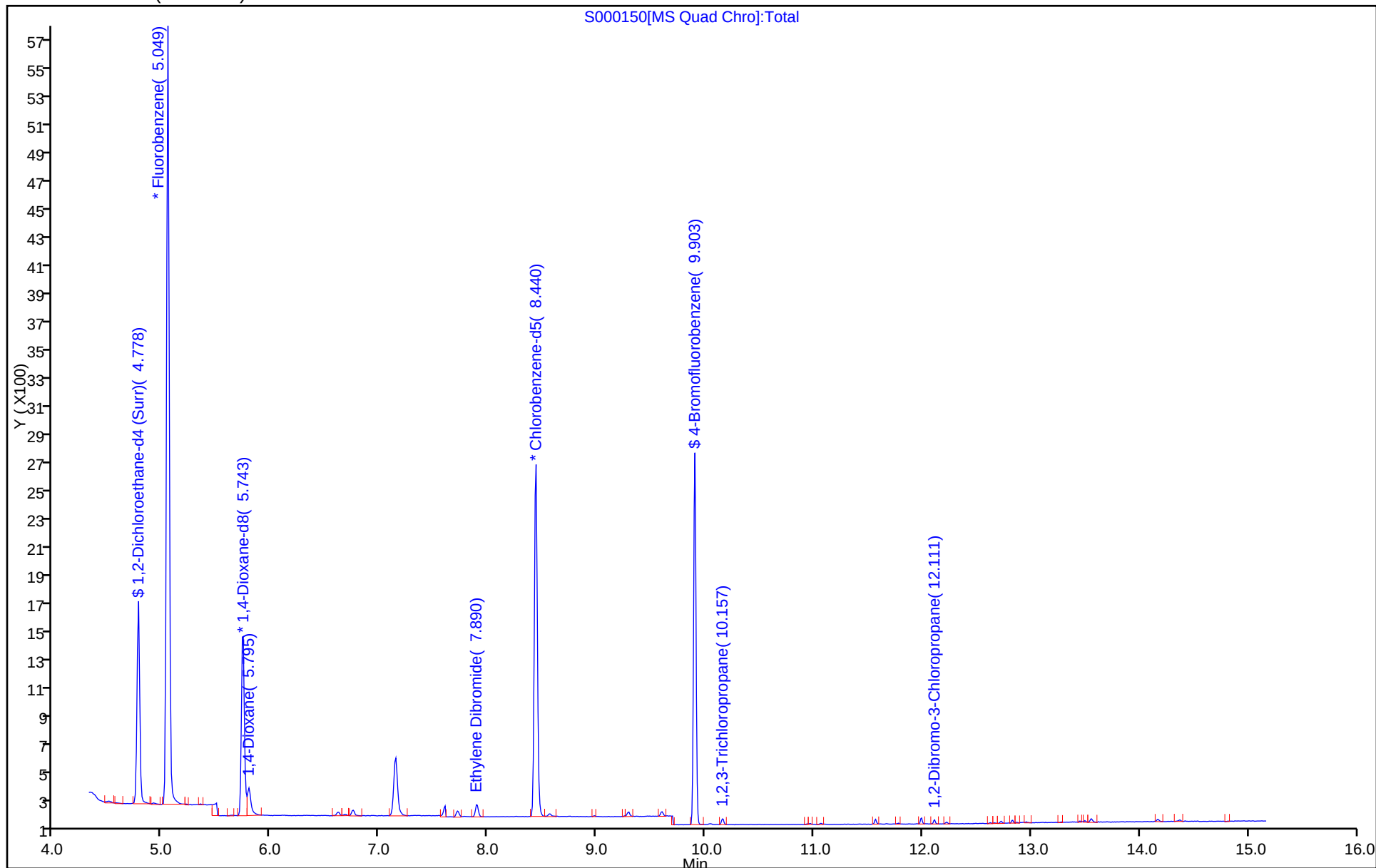
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: LCSD 460-475006/4
Matrix: Water Lab File ID: S000265.D
Analysis Method: 8260C SIM Date Collected: _____
Sample wt/vol: 10 (mL) Date Analyzed: 11/06/2017 22:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 475006 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.65		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		71-144
460-00-4	4-Bromofluorobenzene	94		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000265.D
 Lims ID: LCSD
 Client ID:
 Sample Type: LCSD
 Inject. Date: 06-Nov-2017 22:02:07 ALS Bottle#: 0 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: LCSD
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 07-Nov-2017 09:58:43 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 07-Nov-2017 08:45:56

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	11583	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.734	5.734	0.000	43	289	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.431	0.000	96	4379	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.768	0.010	100	3064	0.5003	0.5026	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	94	3294	0.5002	0.4712	
7 1,4-Dioxane	88	5.795	5.786	0.009	94	262	5.00	4.65	
8 Ethylene Dibromide	109	7.890	7.890	0.000	100	211	0.0500	0.0501	
9 1,2,3-Trichloropropane	110	10.157	10.157	0.000	96	86	0.0500	0.0488	
10 1,2-Dibromo-3-Chloropropan	157	12.104	12.104	0.000	99	38	0.0500	0.0346	

Reagents:

VMMIX1SIM_00103	Amount Added: 1.00	Units: uL	
SIMDIOX50_00014	Amount Added: 20.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CVOAMS14\\20171106-62997.b\\S000265.D

Injection Date: 06-Nov-2017 22:02:07

Instrument ID: CVOAMS14

Operator ID:

Lims ID: LCSD

Worklist Smp#: 4

Client ID:

Purge Vol: 5.000 mL

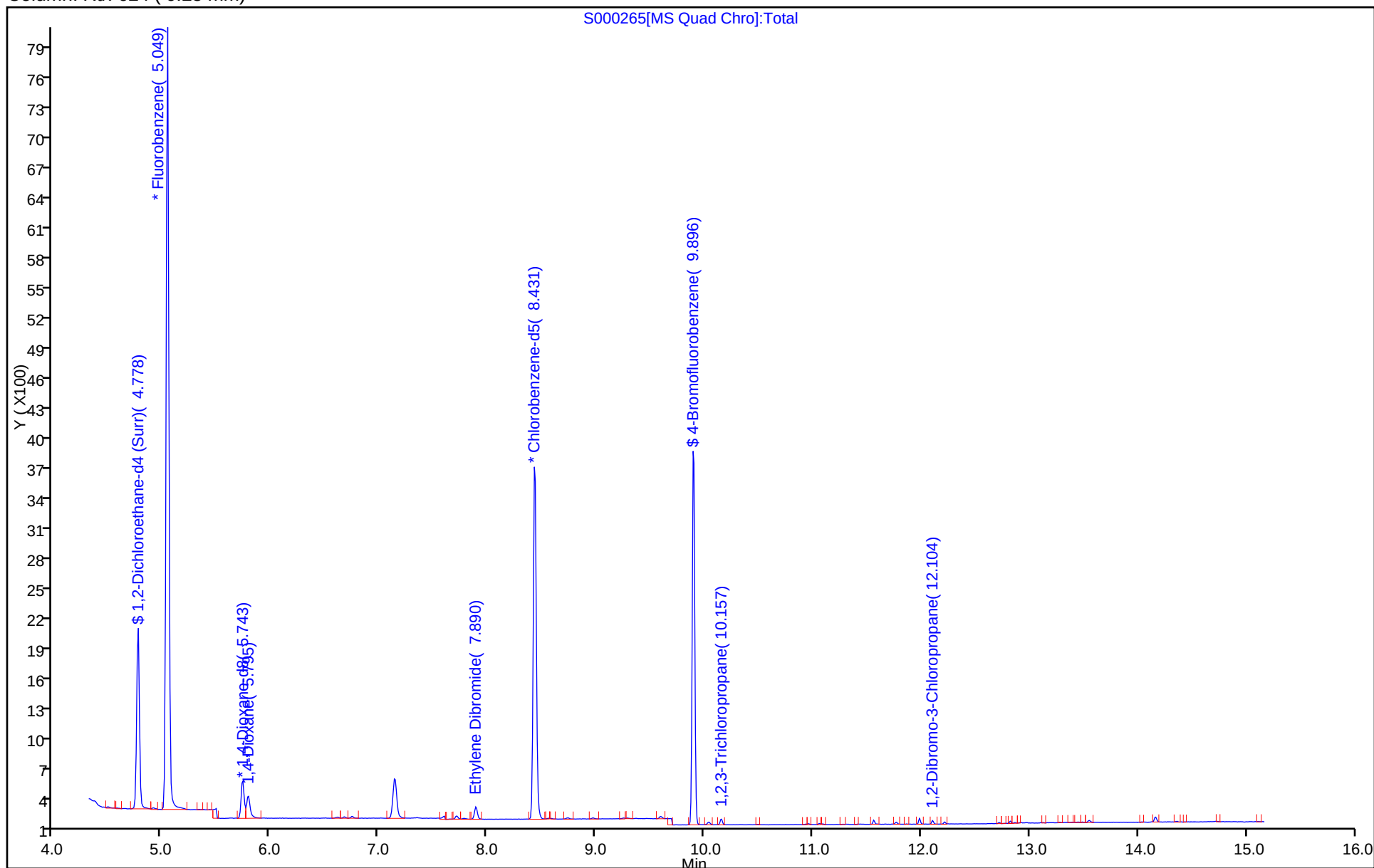
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: MW-1S MS Lab Sample ID: 460-144244-1 MS
 Matrix: Water Lab File ID: S000287.D
 Analysis Method: 8260C SIM Date Collected: 10/31/2017 15:25
 Sample wt/vol: 10 (mL) Date Analyzed: 11/07/2017 07:05
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 475006 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	5.28		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	105		71-144
460-00-4	4-Bromofluorobenzene	95		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000287.D
 Lims ID: 460-144244-D-1 MS
 Client ID: MW-1S
 Sample Type: MS
 Inject. Date: 07-Nov-2017 07:05:53 ALS Bottle#: 0 Worklist Smp#: 26
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-1 MS
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 07-Nov-2017 09:58:43 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 07-Nov-2017 09:57:32

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	99	8862	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.734	5.734	0.000	43	236	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.432	8.431	0.001	96	3360	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.779	4.768	0.011	40	2451	0.5003	0.5254	
\$ 5 4-Bromofluorobenzene	95	9.897	9.896	0.001	96	2536	0.5002	0.4727	
7 1,4-Dioxane	88	5.795	5.786	0.009	89	243	5.00	5.28	
8 Ethylene Dibromide	109	7.891	7.890	0.001	100	191	0.0500	0.0591	
9 1,2,3-Trichloropropane	110	10.158	10.157	0.001	96	82	0.0500	0.0606	
10 1,2-Dibromo-3-Chloropropan	157	12.105	12.104	0.001	100	39	0.0500	0.0462	

Reagents:

VMMIX1SIM_00103	Amount Added: 0.50	Units: uL	
SIMDIOX50_00014	Amount Added: 10.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000287.D

Injection Date: 07-Nov-2017 07:05:53

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-1 MS

Worklist Smp#: 26

Client ID: MW-1S

Purge Vol: 5.000 mL

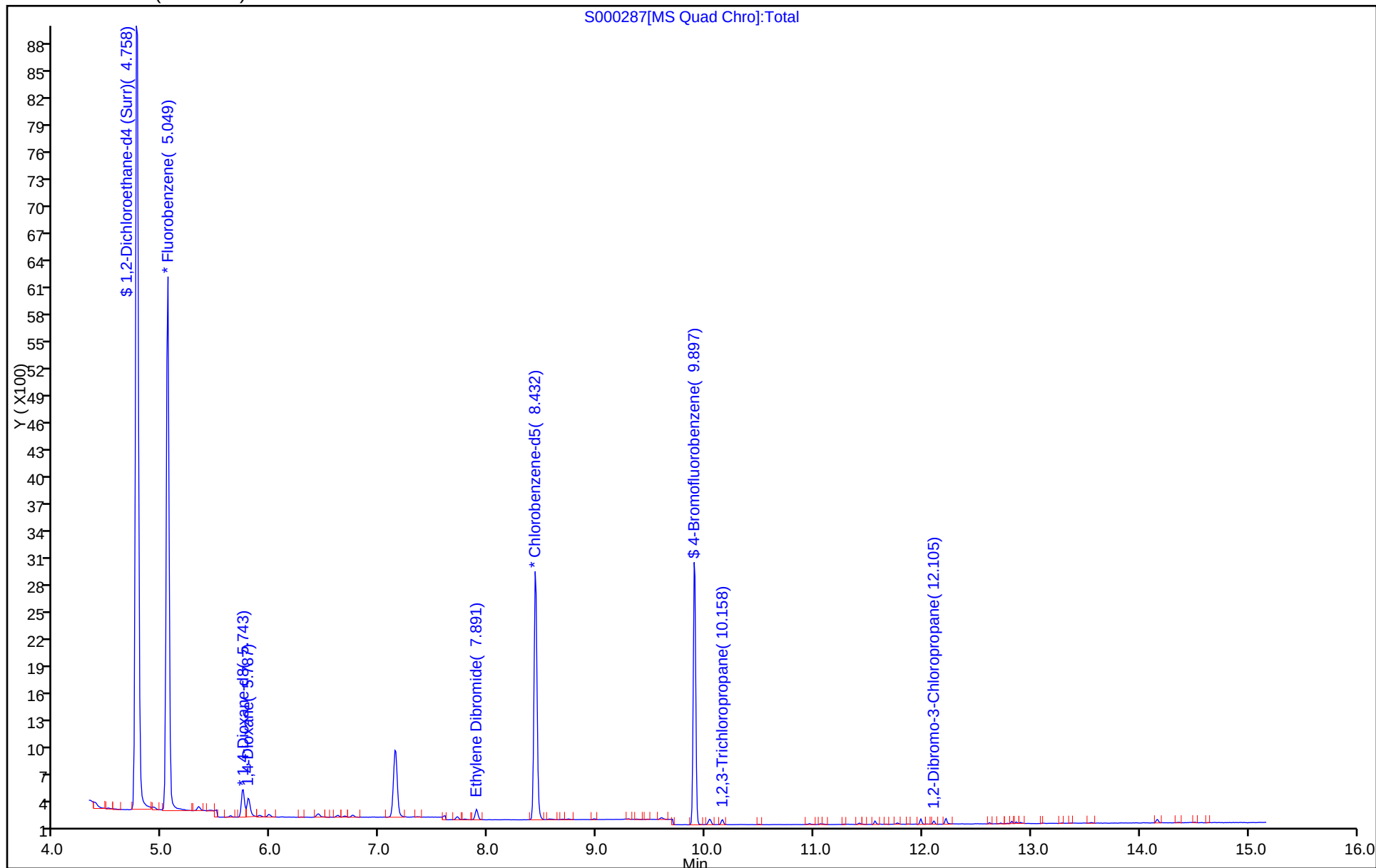
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: MW-1S MSD Lab Sample ID: 460-144244-1 MSD
 Matrix: Water Lab File ID: S000288.D
 Analysis Method: 8260C SIM Date Collected: 10/31/2017 15:25
 Sample wt/vol: 10 (mL) Date Analyzed: 11/07/2017 07:29
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: Rtx-624 ID: 0.25 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 475006 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	4.00		0.40	0.20

CAS NO.	SURROGATE	%REC	Q	LIMITS
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		71-144
460-00-4	4-Bromofluorobenzene	90		72-133

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000288.D
 Lims ID: 460-144244-D-1 MSD
 Client ID: MW-1S
 Sample Type: MSD
 Inject. Date: 07-Nov-2017 07:29:52 ALS Bottle#: 0 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 460-144244-D-1 MSD
 Operator ID: Instrument ID: CVOAMS14
 Method: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\8260SIM_14.m
 Limit Group: VOA - 8260C DKQP Water and Solid
 Last Update: 07-Nov-2017 09:58:43 Calib Date: 31-Oct-2017 01:13:24
 Integrator: RTE ID Type: RT Order ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CVOAMS14\20171030-62642.b\S000096.D
 Column 1 : Rtx-624 (0.25 mm) Det: MS SCAN
 Process Host: XAWRK007

First Level Reviewer: desais

Date: 07-Nov-2017 09:58:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags
* 1 Fluorobenzene	96	5.049	5.049	0.000	100	9169	0.5000	0.5000	
* 2 1,4-Dioxane-d8	64	5.734	5.734	0.000	40	298	10.0	10.0	
* 3 Chlorobenzene-d5	82	8.431	8.431	0.000	96	3399	0.5000	0.5000	
\$ 4 1,2-Dichloroethane-d4 (Sur	65	4.778	4.768	0.010	57	2439	0.5003	0.5054	
\$ 5 4-Bromofluorobenzene	95	9.896	9.896	0.000	93	2444	0.5002	0.4504	
7 1,4-Dioxane	88	5.795	5.786	0.009	91	232	5.00	4.00	
8 Ethylene Dibromide	109	7.890	7.890	0.000	100	145	0.0500	0.0444	
9 1,2,3-Trichloropropane	110	10.157	10.157	0.000	96	71	0.0500	0.0519	
10 1,2-Dibromo-3-Chloropropan	157	12.104	12.104	0.000	99	33	0.0500	0.0387	

Reagents:

VMMIX1SIM_00103	Amount Added: 0.50	Units: uL	
SIMDIOX50_00014	Amount Added: 10.00	Units: uL	
SimissurNEW_00010	Amount Added: 2.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CVOAMS14\20171106-62997.b\S000288.D

Injection Date: 07-Nov-2017 07:29:52

Instrument ID: CVOAMS14

Operator ID:

Lims ID: 460-144244-D-1 MSD

Worklist Smp#: 27

Client ID: MW-1S

Purge Vol: 5.000 mL

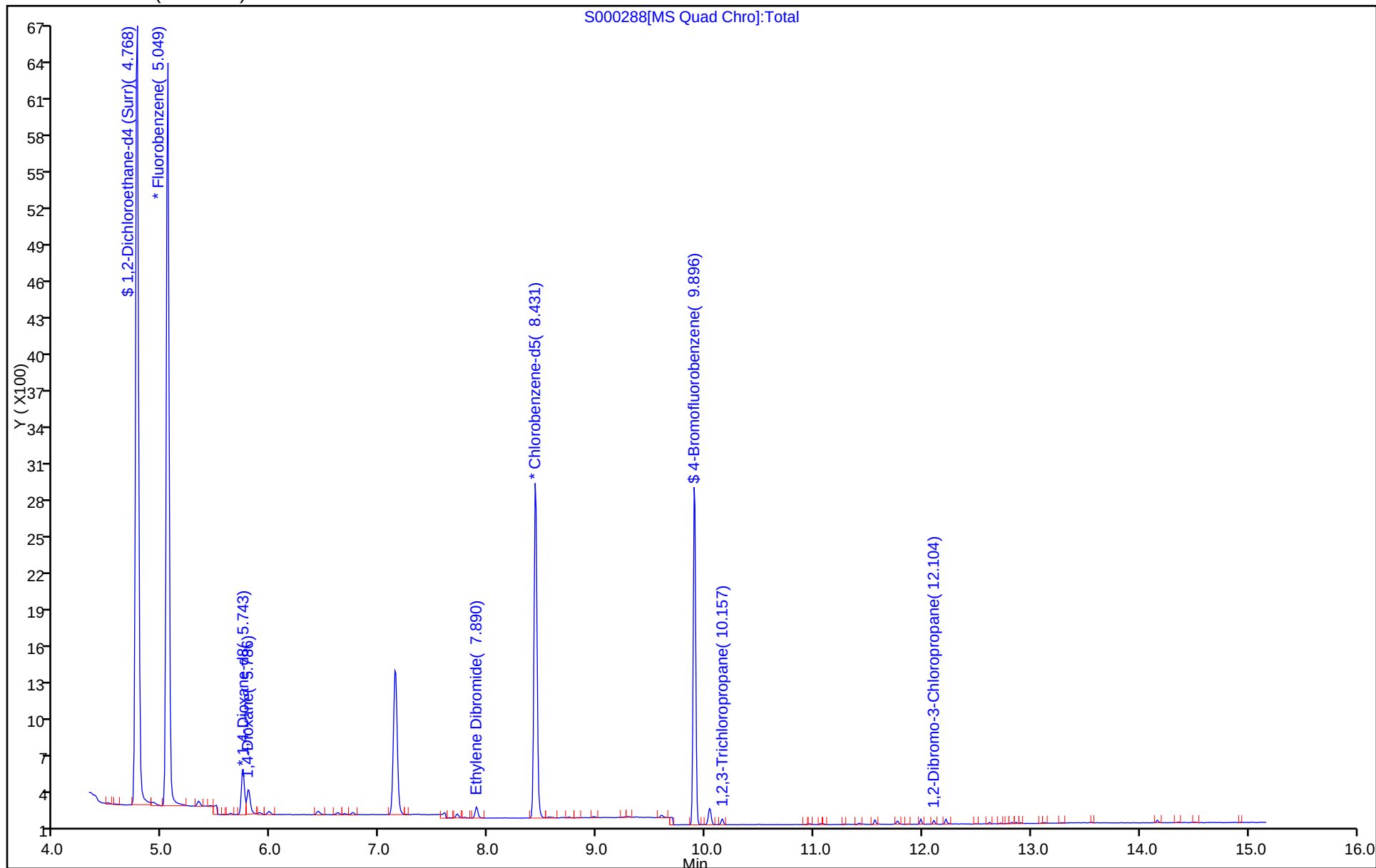
Dil. Factor: 1.0000

ALS Bottle#: 0

Method: 8260SIM_14

Limit Group: VOA - 8260C DKQP Water and Solid

Column: Rtx-624 (0.25 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-144244-1

SDG No.: _____

Instrument ID: CVOAMS14 Start Date: 10/30/2017 18:35Analysis Batch Number: 473294 End Date: 10/31/2017 01:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-473294/1		10/30/2017 18:35	1	S000080.D	Rtx-624 0.25 (mm)
STD1 460-473294/3 IC		10/30/2017 19:28	1	S000082.D	Rtx-624 0.25 (mm)
STD5 460-473294/4 ICIS		10/30/2017 19:52	1	S000083.D	Rtx-624 0.25 (mm)
STD10 460-473294/5 IC		10/30/2017 20:16	1	S000084.D	Rtx-624 0.25 (mm)
STD20 460-473294/6 IC		10/30/2017 20:40	1	S000085.D	Rtx-624 0.25 (mm)
STD30 460-473294/7 IC		10/30/2017 21:04	1	S000086.D	Rtx-624 0.25 (mm)
STD40 460-473294/8 IC		10/30/2017 21:28	1	S000087.D	Rtx-624 0.25 (mm)
STD50 460-473294/9 IC		10/30/2017 21:52	1	S000088.D	Rtx-624 0.25 (mm)
STD04 460-473294/17 IC		10/31/2017 01:13	1	S000096.D	Rtx-624 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-144244-1

SDG No.: _____

Instrument ID: CVOAMS14 Start Date: 10/30/2017 18:35Analysis Batch Number: 473605 End Date: 10/31/2017 01:13

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-473605/1		10/30/2017 18:35	1	S000080.D	Rtx-624 0.25 (mm)
STD1 460-473605/3 IC		10/30/2017 19:28	1	S000082.D	Rtx-624 0.25 (mm)
STD5 460-473605/4 ICIS		10/30/2017 19:52	1	S000083.D	Rtx-624 0.25 (mm)
STD10 460-473605/5 IC		10/30/2017 20:16	1	S000084.D	Rtx-624 0.25 (mm)
STD20 460-473605/6 IC		10/30/2017 20:40	1	S000085.D	Rtx-624 0.25 (mm)
STD30 460-473605/7 IC		10/30/2017 21:04	1	S000086.D	Rtx-624 0.25 (mm)
STD40 460-473605/8 IC		10/30/2017 21:28	1	S000087.D	Rtx-624 0.25 (mm)
STD50 460-473605/9 IC		10/30/2017 21:52	1	S000088.D	Rtx-624 0.25 (mm)
STD04 460-473605/17 IC		10/31/2017 01:13	1	S000096.D	Rtx-624 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-144244-1

SDG No.: _____

Instrument ID: CVOAMS14Start Date: 11/03/2017 07:02Analysis Batch Number: 474314End Date: 11/03/2017 19:32

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-474314/1		11/03/2017 07:02	1	S000115.D	Rtx-624 0.25 (mm)
CCVIS 460-474314/2		11/03/2017 07:27	1	S000116.D	Rtx-624 0.25 (mm)
LCS 460-474314/3		11/03/2017 08:16	1	S000117.D	Rtx-624 0.25 (mm)
LCSD 460-474314/4		11/03/2017 08:40	1	S000118.D	Rtx-624 0.25 (mm)
ICV 460-474314/5		11/03/2017 09:22	1		Rtx-624 0.25 (mm)
MB 460-474314/8		11/03/2017 10:45	1	S000122.D	Rtx-624 0.25 (mm)
460-144244-16		11/03/2017 11:33	1	S000124.D	Rtx-624 0.25 (mm)
460-144244-13		11/03/2017 11:57	1	S000125.D	Rtx-624 0.25 (mm)
460-144244-11		11/03/2017 12:21	1	S000126.D	Rtx-624 0.25 (mm)
460-144244-12		11/03/2017 12:45	1	S000127.D	Rtx-624 0.25 (mm)
460-144244-1		11/03/2017 13:09	1	S000128.D	Rtx-624 0.25 (mm)
460-144244-2		11/03/2017 13:33	1	S000129.D	Rtx-624 0.25 (mm)
460-144244-3		11/03/2017 13:57	1	S000130.D	Rtx-624 0.25 (mm)
460-144244-4		11/03/2017 14:21	1	S000131.D	Rtx-624 0.25 (mm)
460-144244-5		11/03/2017 14:45	1	S000132.D	Rtx-624 0.25 (mm)
460-144244-6		11/03/2017 15:08	1	S000133.D	Rtx-624 0.25 (mm)
460-144244-7		11/03/2017 15:32	1	S000134.D	Rtx-624 0.25 (mm)
460-144244-8		11/03/2017 15:56	1	S000135.D	Rtx-624 0.25 (mm)
460-144244-9		11/03/2017 16:20	1	S000136.D	Rtx-624 0.25 (mm)
460-144244-10		11/03/2017 16:44	1	S000137.D	Rtx-624 0.25 (mm)
460-144244-15		11/03/2017 17:32	1	S000139.D	Rtx-624 0.25 (mm)
ZZZZZ		11/03/2017 17:56	1		Rtx-624 0.25 (mm)
ZZZZZ		11/03/2017 18:20	1		Rtx-624 0.25 (mm)
ZZZZZ		11/03/2017 19:08	1		Rtx-624 0.25 (mm)
ZZZZZ		11/03/2017 19:32	1		Rtx-624 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-144244-1

SDG No.: _____

Instrument ID: CVOAMS14 Start Date: 11/03/2017 20:58Analysis Batch Number: 474523 End Date: 11/04/2017 08:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-474523/1		11/03/2017 20:58	1	S000146.D	Rtx-624 0.25 (mm)
CCVIS 460-474523/3		11/03/2017 22:02	1	S000148.D	Rtx-624 0.25 (mm)
LCS 460-474523/4		11/03/2017 22:26	1	S000149.D	Rtx-624 0.25 (mm)
LCSD 460-474523/5		11/03/2017 22:50	1	S000150.D	Rtx-624 0.25 (mm)
MB 460-474523/8		11/04/2017 00:02	1	S000153.D	Rtx-624 0.25 (mm)
460-144244-14		11/04/2017 08:02	1	S000173.D	Rtx-624 0.25 (mm)
ZZZZZ		11/04/2017 08:26	1		Rtx-624 0.25 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-144244-1

SDG No.: _____

Instrument ID: CVOAMS14 Start Date: 11/06/2017 20:34Analysis Batch Number: 475006 End Date: 11/07/2017 07:29

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 460-475006/1		11/06/2017 20:34	1	S000262.D	Rtx-624 0.25 (mm)
CCVIS 460-475006/2		11/06/2017 21:14	1	S000263.D	Rtx-624 0.25 (mm)
LCS 460-475006/3		11/06/2017 21:38	1	S000264.D	Rtx-624 0.25 (mm)
LCSD 460-475006/4		11/06/2017 22:02	1	S000265.D	Rtx-624 0.25 (mm)
MB 460-475006/7		11/06/2017 23:14	1	S000268.D	Rtx-624 0.25 (mm)
ZZZZZ		11/06/2017 23:53	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 00:17	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 00:41	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 01:05	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 01:29	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 01:53	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 02:17	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 02:41	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 03:05	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 03:29	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 03:53	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 04:17	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 04:41	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 05:05	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 05:29	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 05:53	1		Rtx-624 0.25 (mm)
ZZZZZ		11/07/2017 06:17	5		Rtx-624 0.25 (mm)
460-144244-1 MS		11/07/2017 07:05	1	S000287.D	Rtx-624 0.25 (mm)
460-144244-1 MSD		11/07/2017 07:29	1	S000288.D	Rtx-624 0.25 (mm)

8082A

**Polychlorinated Biphenyls (PCBs) by
Gas Chromatography**

FORM II
PCBS SURROGATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Matrix: Water Level: Low
 GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

Client Sample ID	Lab Sample ID	DCBP1 #	DCBP2 #
MW-1S	460-144244-1	40	40
MW-1D	460-144244-2	54	54
MW-2S	460-144244-3	62	62
MW-2D	460-144244-4	47	49
MW-3S	460-144244-5	35	37
MW-3D	460-144244-6	45	46
MW-4S	460-144244-7	39	45
MW-4D	460-144244-8	34	45
NPPRS	460-144244-9	56	55
SPPRS	460-144244-10	47	46
Leachate	460-144244-14	40	42
MW-X-DUP	460-144244-15	45	46
	MB 460-474606/1-A	89	82
	LCS 460-474606/2-A	91	88
MW-1S MS	460-144244-1 MS	43	44
MW-1S MSD	460-144244-1 MSD	43	46

DCBP = DCB Decachlorobiphenyl

QC LIMITS
10-150

Column to be used to flag recovery values

FORM III
PCBS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 7R009994.D
Lab ID: LCS 460-474606/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Aroclor 1016	4.00	4.58	114	77-150	
Aroclor 1016	4.00	4.45	111	77-150	
Aroclor 1260	4.00	4.72	118	80-150	
Aroclor 1260	4.00	4.80	120	80-150	

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: 7R009995.D
Lab ID: 460-144244-1 MS Client ID: MW-1S MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Aroclor 1016	4.00	0.40 U	3.13	78	77-150	
Aroclor 1016	4.00	0.40 U	2.99	75	77-150	*
Aroclor 1260	4.00	0.40 U	2.68	67	80-150	*
Aroclor 1260	4.00	0.40 U	2.50	62	80-150	*

Column to be used to flag recovery and RPD values

FORM III
PCBS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 7R009996.D
 Lab ID: 460-144244-1 MSD Client ID: MW-1S MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Aroclor 1016	4.00	3.10	78	1	30	77-150	
Aroclor 1016	4.00	2.88	72	4	30	77-150	*
Aroclor 1260	4.00	2.67	67	0	30	80-150	*
Aroclor 1260	4.00	2.40	60	4	30	80-150	*

Column to be used to flag recovery and RPD values

FORM IV
PCBS METHOD BLANK SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Lab Sample ID: MB 460-474606/1-A
Matrix: Water Date Extracted: 11/04/2017 09:36
Lab File ID: (1) 7R009993.D Lab File ID: (2) 7R009993.D
Date Analyzed: (1) 11/06/2017 09:33 Date Analyzed: (2) 11/06/2017 09:33
Instrument ID: (1) CPESTGC7 Instrument ID: (2) CPESTGC7
GC Column: (1) CLP-1 ID: 0.53 (mm) GC Column: (2) CLP-2 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 460-474606/2-A	11/06/2017 09:57	11/06/2017 09:57
MW-1S MS	460-144244-1 MS	11/06/2017 10:20	11/06/2017 10:20
MW-1S MSD	460-144244-1 MSD	11/06/2017 10:44	11/06/2017 10:44
MW-1S	460-144244-1	11/06/2017 11:08	11/06/2017 11:08
MW-1D	460-144244-2	11/06/2017 20:03	11/06/2017 20:03
MW-2S	460-144244-3	11/06/2017 20:27	11/06/2017 20:27
MW-2D	460-144244-4	11/06/2017 20:50	11/06/2017 20:50
MW-3S	460-144244-5	11/06/2017 21:14	11/06/2017 21:14
MW-3D	460-144244-6	11/06/2017 21:37	11/06/2017 21:37
MW-4S	460-144244-7	11/06/2017 22:00	11/06/2017 22:00
MW-4D	460-144244-8	11/06/2017 22:24	11/06/2017 22:24
NPPRS	460-144244-9	11/06/2017 22:48	11/06/2017 22:48
Leachate	460-144244-14	11/07/2017 03:11	11/07/2017 03:11
MW-X-DUP	460-144244-15	11/07/2017 03:35	11/07/2017 03:35
SPPRS	460-144244-10	11/07/2017 14:03	11/07/2017 14:03

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Sample No.: CCVIS 460-474852/2 Date Analyzed: 11/06/2017 08:36
 Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm)
 Lab File ID (Standard): 7R009992.D Heated Purge: (Y/N) N
 Calibration ID: 63458

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		61711	3.38				
UPPER LIMIT		123422	3.45				
LOWER LIMIT		30856	3.31				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-474606/1-A		69871	3.39				
LCS 460-474606/2-A		64780	3.37				
460-144244-1 MS	MW-1S MS	62642	3.38				
460-144244-1 MSD	MW-1S MSD	63190	3.38				
460-144244-1	MW-1S	68019	3.38				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Sample No.: CCVIS 460-474852/2 Date Analyzed: 11/06/2017 08:36
 Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm)
 Lab File ID (Standard): 7R009992.D Heated Purge: (Y/N) N
 Calibration ID: 63459

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		29272	2.77				
UPPER LIMIT		58544	2.84				
LOWER LIMIT		14636	2.70				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 460-474606/1-A		32257	2.76				
LCS 460-474606/2-A		31477	2.76				
460-144244-1 MS	MW-1S MS	30910	2.77				
460-144244-1 MSD	MW-1S MSD	32133	2.77				
460-144244-1	MW-1S	32634	2.77				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Sample No.: CCVIS 460-474852/21 Date Analyzed: 11/06/2017 17:41
 Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm)
 Lab File ID (Standard): 7R010011.D Heated Purge: (Y/N) N
 Calibration ID: 63458

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		67679	3.39				
UPPER LIMIT		135358	3.46				
LOWER LIMIT		33840	3.32				
LAB SAMPLE ID	CLIENT SAMPLE ID						
460-144244-2	MW-1D	56182	3.38				
460-144244-3	MW-2S	54096	3.38				
460-144244-4	MW-2D	54035	3.38				
460-144244-5	MW-3S	54076	3.38				
460-144244-6	MW-3D	52021	3.37				
460-144244-7	MW-4S	53847	3.38				
460-144244-8	MW-4D	57371	3.38				
460-144244-9	NPPRS	51860	3.38				
460-144244-14	Leachate	57581	3.39				
460-144244-15	MW-X-DUP	56078	3.38				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Sample No.: CCVIS 460-474852/21 Date Analyzed: 11/06/2017 17:41
 Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm)
 Lab File ID (Standard): 7R010011.D Heated Purge: (Y/N) N
 Calibration ID: 63459

		BNB					
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		31313	2.76				
UPPER LIMIT		62626	2.83				
LOWER LIMIT		15657	2.69				
LAB SAMPLE ID	CLIENT SAMPLE ID						
460-144244-2	MW-1D	27238	2.76				
460-144244-3	MW-2S	26497	2.76				
460-144244-4	MW-2D	27217	2.76				
460-144244-5	MW-3S	26661	2.76				
460-144244-6	MW-3D	25649	2.77				
460-144244-7	MW-4S	29336	2.76				
460-144244-8	MW-4D	35992	2.76				
460-144244-9	NPPRS	24429	2.76				
460-144244-14	Leachate	28310	2.75				
460-144244-15	MW-X-DUP	28291	2.76				

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
 RT Limit = $\pm$ 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Sample No.: CCVIS 460-475107/2 Date Analyzed: 11/07/2017 08:44
Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm)
Lab File ID (Standard): 7R010036.D Heated Purge: (Y/N) N
Calibration ID: 63458

	BNB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	64537	3.38				
UPPER LIMIT	129074	3.45				
LOWER LIMIT	32269	3.31				
LAB SAMPLE ID	CLIENT SAMPLE ID					
460-144244-10	SPPRS		56349	3.38		

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = $\pm$ 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
PCBS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Sample No.: CCVIS 460-475107/2 Date Analyzed: 11/07/2017 08:44
Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm)
Lab File ID (Standard): 7R010036.D Heated Purge: (Y/N) N
Calibration ID: 63459

	BNB					
	AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD	30828	2.77				
UPPER LIMIT	61656	2.84				
LOWER LIMIT	15414	2.70				
LAB SAMPLE ID	CLIENT SAMPLE ID					
460-144244-10	SPPRS		26766	2.76		

BNB = 1-Bromo-2-nitrobenzene

Area Limit = 50%-200% of internal standard area
RT Limit = $\pm$ 0.07 minutes of internal standard RT

Column used to flag values outside QC limits

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: MW-1S MS Lab Sample ID: 460-144244-1 MS
 Instrument ID (1): CPESTGC7 Instrument ID (2): CPESTGC7
 Date Analyzed (1): 11/06/2017 10:20 Date Analyzed (2): 11/06/2017 10:20
 GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor 1016	1	1	4.86	4.79	4.93	2.82	2.99	4.6
		2	5.50	5.43	5.57	2.93		
		3	5.84	5.77	5.91	3.05		
		4	6.31	6.24	6.38	2.58		
		5	6.54	6.46	6.60	2.80		
		6	6.63	6.57	6.71	3.37		
		7	7.24	7.17	7.31	3.06		
		8	7.88	7.81	7.95	3.29		
	2	1	6.21	6.14	6.28	2.93	3.13	
		2	6.98	6.91	7.05	2.90		
		3	7.80	7.73	7.87	3.01		
		4	8.04	7.98	8.12	3.00		
		5	8.22	8.15	8.29	3.19		
		6	8.87	8.80	8.94	3.12		
		7	9.08	9.01	9.15	3.29		
		8	9.59	9.52	9.66	3.61		
Aroclor 1260	1	1	9.26	9.19	9.33	2.79	2.50	7.1
		2	10.16	10.08	10.22	2.83		
		3	10.36	10.29	10.43	2.34		
		4	10.80	10.73	10.87	2.42		
		5	11.48	11.40	11.54	2.45		
		6	12.16	12.09	12.23	2.31		
		7	12.41	12.34	12.48	2.53		
		8	13.90	13.83	13.97	2.31		
	2	1	10.82	10.75	10.89	2.76	2.68	
		2	11.16	11.09	11.23	2.93		
		3	11.67	11.60	11.74	2.80		
		4	12.92	12.85	12.99	2.66		
		5	13.71	13.64	13.78	2.49		
		6	14.37	14.30	14.44	2.62		
		7	15.20	15.13	15.27	2.67		
		8	16.31	16.24	16.38	2.54		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: MW-1S MSD Lab Sample ID: 460-144244-1 MSD
 Instrument ID (1): CPESTGC7 Instrument ID (2): CPESTGC7
 Date Analyzed (1): 11/06/2017 10:44 Date Analyzed (2): 11/06/2017 10:44
 GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor 1016	1	1	4.86	4.79	4.93	2.71	2.88	7.3
		2	5.50	5.43	5.57	2.83		
		3	5.84	5.77	5.91	2.95		
		4	6.31	6.24	6.38	2.51		
		5	6.54	6.46	6.60	2.70		
		6	6.63	6.57	6.71	3.30		
		7	7.24	7.17	7.31	2.99		
		8	7.88	7.81	7.95	3.09		
	2	1	6.21	6.14	6.28	2.80	3.10	
		2	6.98	6.91	7.05	2.86		
		3	7.80	7.73	7.87	3.02		
		4	8.04	7.98	8.12	3.01		
		5	8.22	8.15	8.29	3.19		
		6	8.87	8.80	8.94	3.06		
		7	9.08	9.01	9.15	3.28		
		8	9.59	9.52	9.66	3.59		
Aroclor 1260	1	1	9.26	9.19	9.33	2.68	2.40	10.7
		2	10.16	10.08	10.22	2.70		
		3	10.36	10.29	10.43	2.30		
		4	10.80	10.73	10.87	2.32		
		5	11.48	11.40	11.54	2.34		
		6	12.16	12.09	12.23	2.21		
		7	12.41	12.34	12.48	2.44		
		8	13.90	13.83	13.97	2.23		
	2	1	10.82	10.75	10.89	2.79	2.67	
		2	11.16	11.09	11.23	2.94		
		3	11.67	11.60	11.74	2.81		
		4	12.92	12.85	12.99	2.65		
		5	13.71	13.64	13.78	2.42		
		6	14.37	14.30	14.44	2.60		
		7	15.20	15.13	15.27	2.66		
		8	16.31	16.24	16.38	2.53		

FORM X
IDENTIFICATION SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-474606/2-A
 Instrument ID (1): CPESTGC7 Instrument ID (2): CPESTGC7
 Date Analyzed (1): 11/06/2017 09:57 Date Analyzed (2): 11/06/2017 09:57
 GC Column (1): CLP-1 ID: 0.53 (mm) GC Column (2): CLP-2 ID: 0.53 (mm)

ANALYTE	COL	PEAK	RT	RT WINDOW		CONCENTRATION		RPD
				FROM	TO	PEAK	MEAN	
Aroclor 1016	1	1	4.85	4.79	4.93	4.31	4.45	2.8
		2	5.50	5.43	5.57	4.40		
		3	5.84	5.77	5.91	4.54		
		4	6.30	6.24	6.38	4.18		
		5	6.53	6.46	6.60	4.22		
		6	6.63	6.57	6.71	4.63		
		7	7.24	7.17	7.31	4.57		
		8	7.87	7.81	7.95	4.75		
	2	1	6.21	6.14	6.28	4.34	4.58	
		2	6.98	6.91	7.05	4.21		
		3	7.80	7.73	7.87	4.54		
		4	8.04	7.98	8.12	4.43		
		5	8.22	8.15	8.29	4.75		
		6	8.87	8.80	8.94	4.51		
		7	9.08	9.01	9.15	4.83		
		8	9.59	9.52	9.66	5.02		
Aroclor 1260	1	1	9.26	9.19	9.33	4.74	4.80	1.7
		2	10.15	10.08	10.22	5.09		
		3	10.36	10.29	10.43	4.40		
		4	10.80	10.73	10.87	4.64		
		5	11.48	11.40	11.54	4.84		
		6	12.16	12.09	12.23	4.60		
		7	12.41	12.34	12.48	5.25		
		8	13.90	13.83	13.97	4.82		
	2	1	10.82	10.75	10.89	4.46	4.72	
		2	11.16	11.09	11.23	4.60		
		3	11.67	11.60	11.74	4.65		
		4	12.92	12.85	12.99	4.82		
		5	13.71	13.64	13.78	4.50		
		6	14.37	14.30	14.44	4.83		
		7	15.20	15.13	15.27	4.95		
		8	16.31	16.24	16.38	4.93		

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-1S Lab Sample ID: 460-144244-1
Matrix: Water Lab File ID: 7R009997.D
Analysis Method: 8082A Date Collected: 10/31/2017 15:25
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 11:08
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	40		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009997.D
 Lims ID: 460-144244-G-1-A
 Client ID: MW-1S
 Sample Type: Client
 Inject. Date: 06-Nov-2017 11:08:01 ALS Bottle#: 10 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-007
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: patelji Date: 06-Nov-2017 13:06:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.380	3.380	0.000	68019	20.0
2	2.767	2.767	0.000	32634	20.0

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	100151	33.5
2	4.143	4.140	0.003	51918	29.7

RPD = 11.81

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009997.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	95540	40.4
2	15.017	15.013	0.004	76797	40.3

RPD = 0.22

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009997.D

Injection Date: 06-Nov-2017 11:08:01

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-1-A

Lab Sample ID: 460-144244-1

Worklist Smp#: 7

Client ID: MW-1S

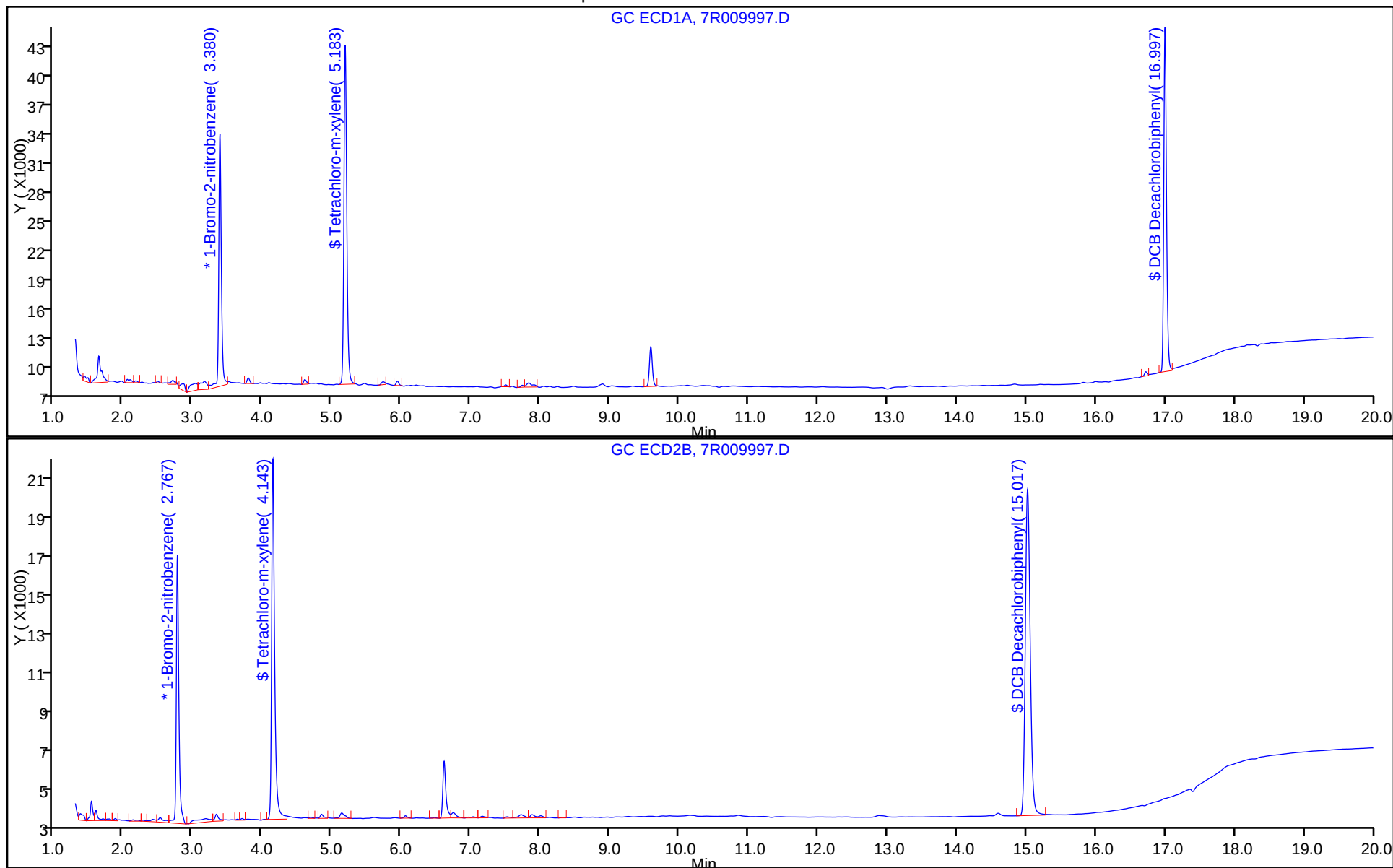
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1S</u>	Lab Sample ID: <u>460-144244-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R009997.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 11:08</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	40		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009997.D
Lims ID: 460-144244-G-1-A
Client ID: MW-1S
Sample Type: Client
Inject. Date: 06-Nov-2017 11:08:01 ALS Bottle#: 10 Worklist Smp#: 7
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-007
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK012

First Level Reviewer: patelji Date: 06-Nov-2017 13:06:27

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.380	3.380	0.000	68019	20.0
2	2.767	2.767	0.000	32634	20.0

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	100151	33.5
2	4.143	4.140	0.003	51918	29.7

RPD = 11.81

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009997.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	95540	40.4
2	15.017	15.013	0.004	76797	40.3

RPD = 0.22

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009997.D

Injection Date: 06-Nov-2017 11:08:01

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-1-A

Lab Sample ID: 460-144244-1

Worklist Smp#: 7

Client ID: MW-1S

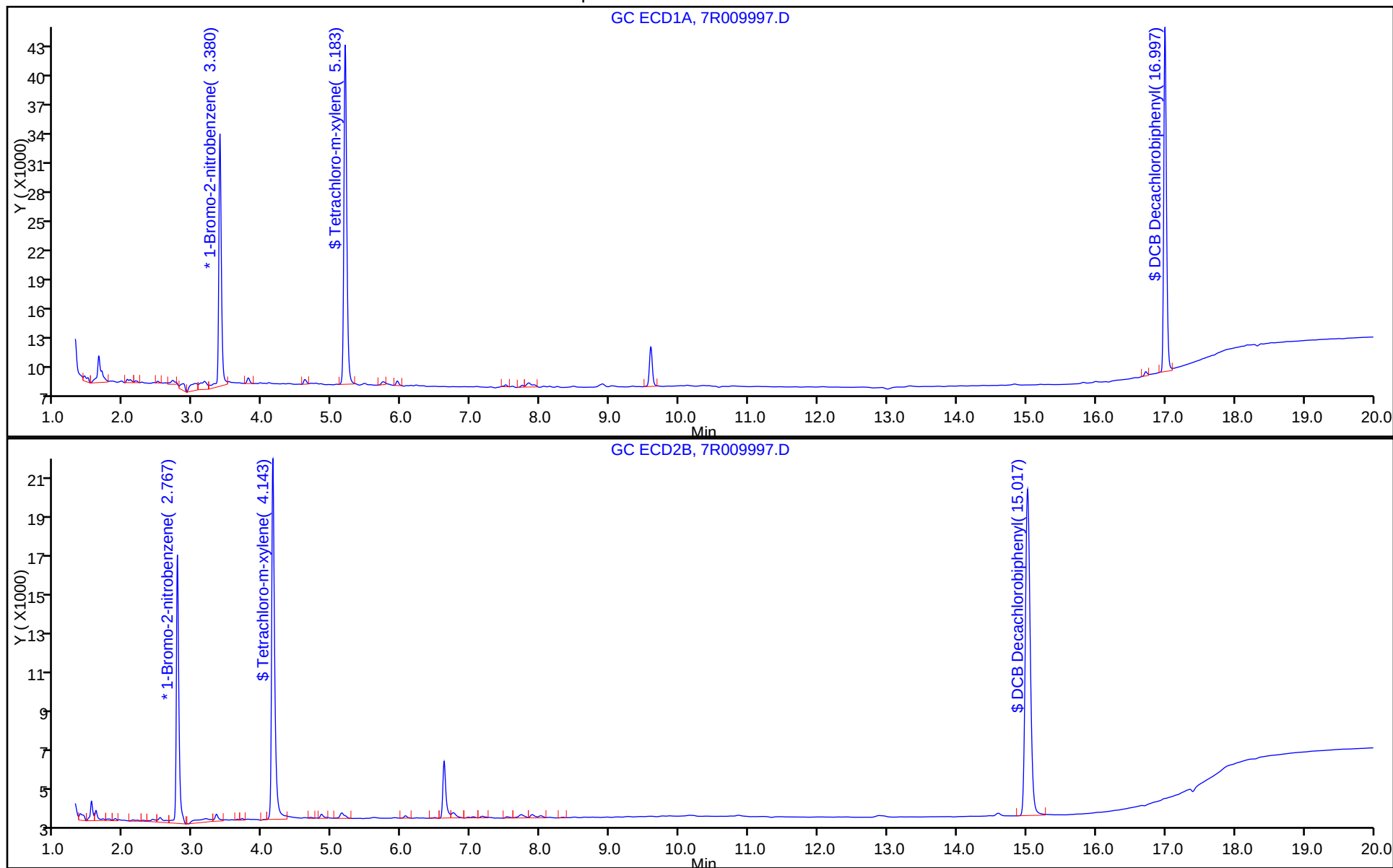
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 10

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-1D Lab Sample ID: 460-144244-2
Matrix: Water Lab File ID: 7R010017.D
Analysis Method: 8082A Date Collected: 10/31/2017 15:25
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 20:03
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	54		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010017.D
Lims ID: 460-144244-F-2-A
Client ID: MW-1D
Sample Type: Client
Inject. Date: 06-Nov-2017 20:03:22 ALS Bottle#: 30 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-027
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji Date: 07-Nov-2017 12:24:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	56182	20.0
2	2.763	2.760	0.003	27238	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	106117	54.3
2	15.013	15.013	0.000	86380	54.3

RPD = 0.00

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010017.D

Injection Date: 06-Nov-2017 20:03:22

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-2-A

Lab Sample ID: 460-144244-2

Worklist Smp#: 27

Client ID: MW-1D

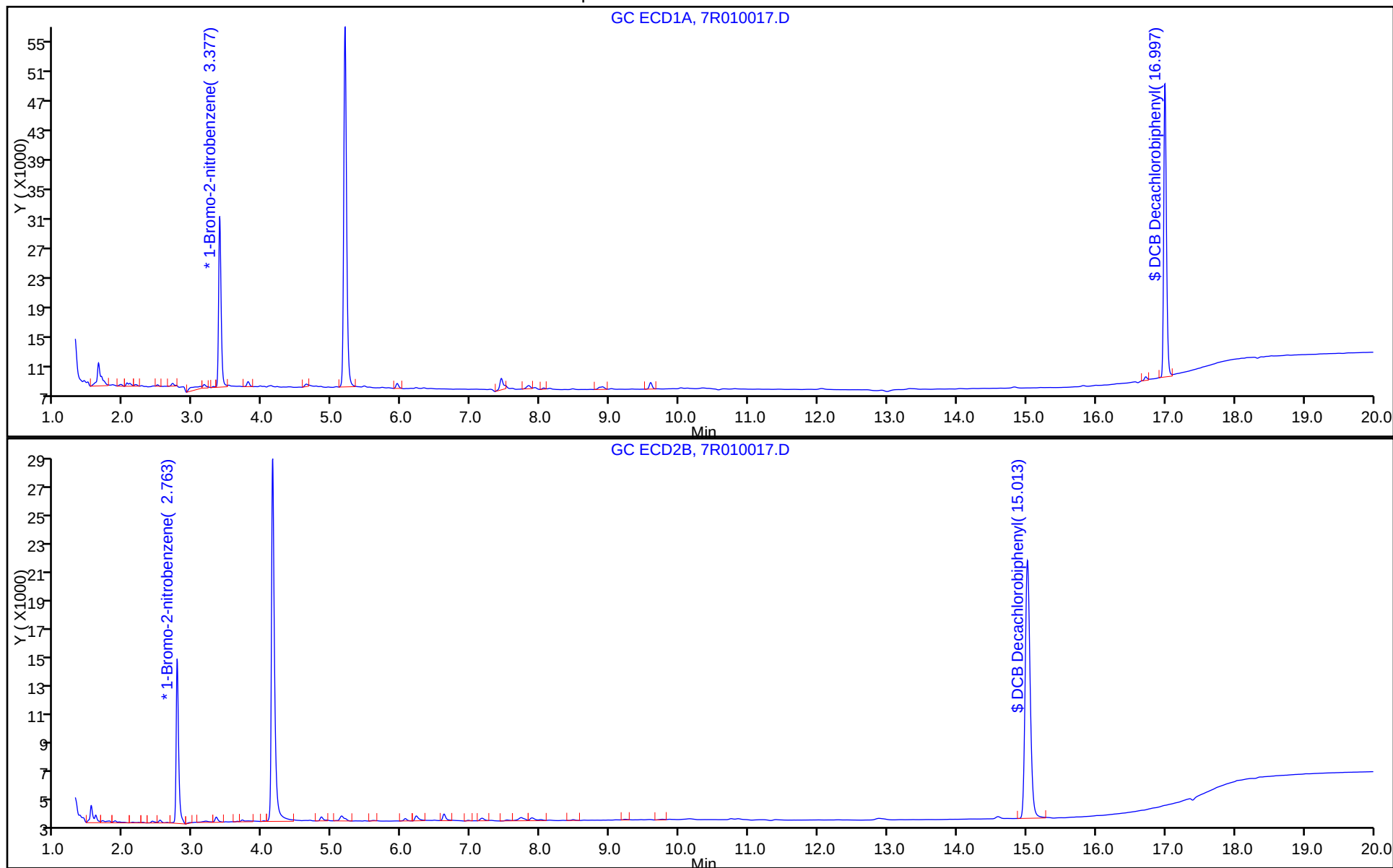
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 30

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1D</u>	Lab Sample ID: <u>460-144244-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010017.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 20:03</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	54		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010017.D
Lims ID: 460-144244-F-2-A
Client ID: MW-1D
Sample Type: Client
Inject. Date: 06-Nov-2017 20:03:22 ALS Bottle#: 30 Worklist Smp#: 27
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-027
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji

Date: 07-Nov-2017 12:24:52

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	56182	20.0
2	2.763	2.760	0.003	27238	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	106117	54.3
2	15.013	15.013	0.000	86380	54.3

RPD = 0.00

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010017.D

Injection Date: 06-Nov-2017 20:03:22

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-2-A

Lab Sample ID: 460-144244-2

Worklist Smp#: 27

Client ID: MW-1D

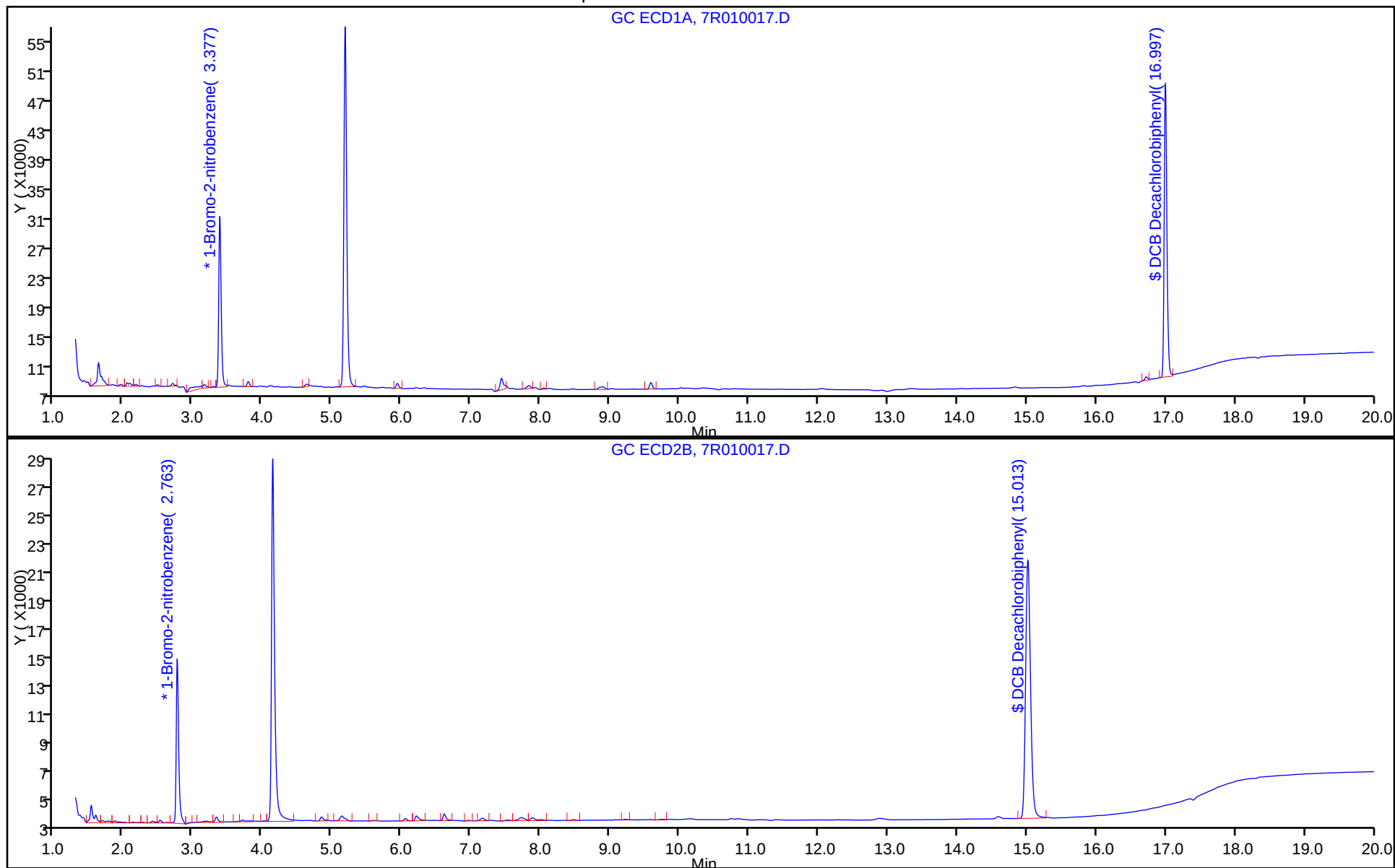
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 30

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-2S Lab Sample ID: 460-144244-3
Matrix: Water Lab File ID: 7R010018.D
Analysis Method: 8082A Date Collected: 11/01/2017 10:25
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 20:27
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	62		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010018.D
Lims ID: 460-144244-F-3-A
Client ID: MW-2S
Sample Type: Client
Inject. Date: 06-Nov-2017 20:27:10 ALS Bottle#: 31 Worklist Smp#: 28
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-028
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji

Date: 07-Nov-2017 12:24:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	54096	20.0
2	2.763	2.760	0.003	26497	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	117363	62.4
2	15.017	15.013	0.004	95604	61.8

RPD = 0.96

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010018.D

Injection Date: 06-Nov-2017 20:27:10

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-3-A

Lab Sample ID: 460-144244-3

Worklist Smp#: 28

Client ID: MW-2S

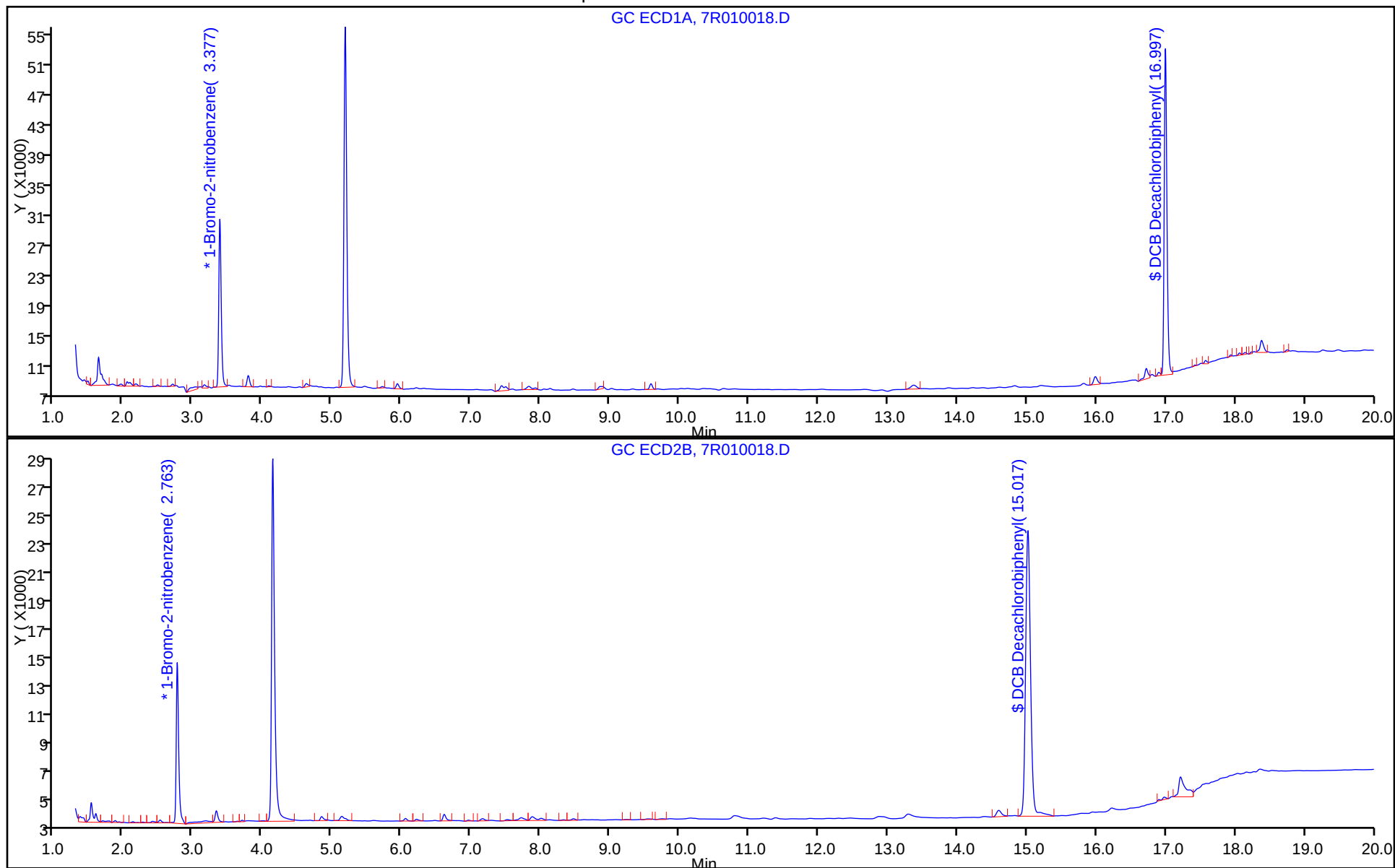
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 31

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2S</u>	Lab Sample ID: <u>460-144244-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010018.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/01/2017 10:25</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 20:27</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	62		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010018.D
 Lims ID: 460-144244-F-3-A
 Client ID: MW-2S
 Sample Type: Client
 Inject. Date: 06-Nov-2017 20:27:10 ALS Bottle#: 31 Worklist Smp#: 28
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-028
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji

Date: 07-Nov-2017 12:24:49

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	54096	20.0	
2	2.763	2.760	0.003	26497	20.0	
RPD = 0.00						

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	117363	62.4	
2	15.017	15.013	0.004	95604	61.8	
RPD = 0.96						

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010018.D

Injection Date: 06-Nov-2017 20:27:10

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-3-A

Lab Sample ID: 460-144244-3

Worklist Smp#: 28

Client ID: MW-2S

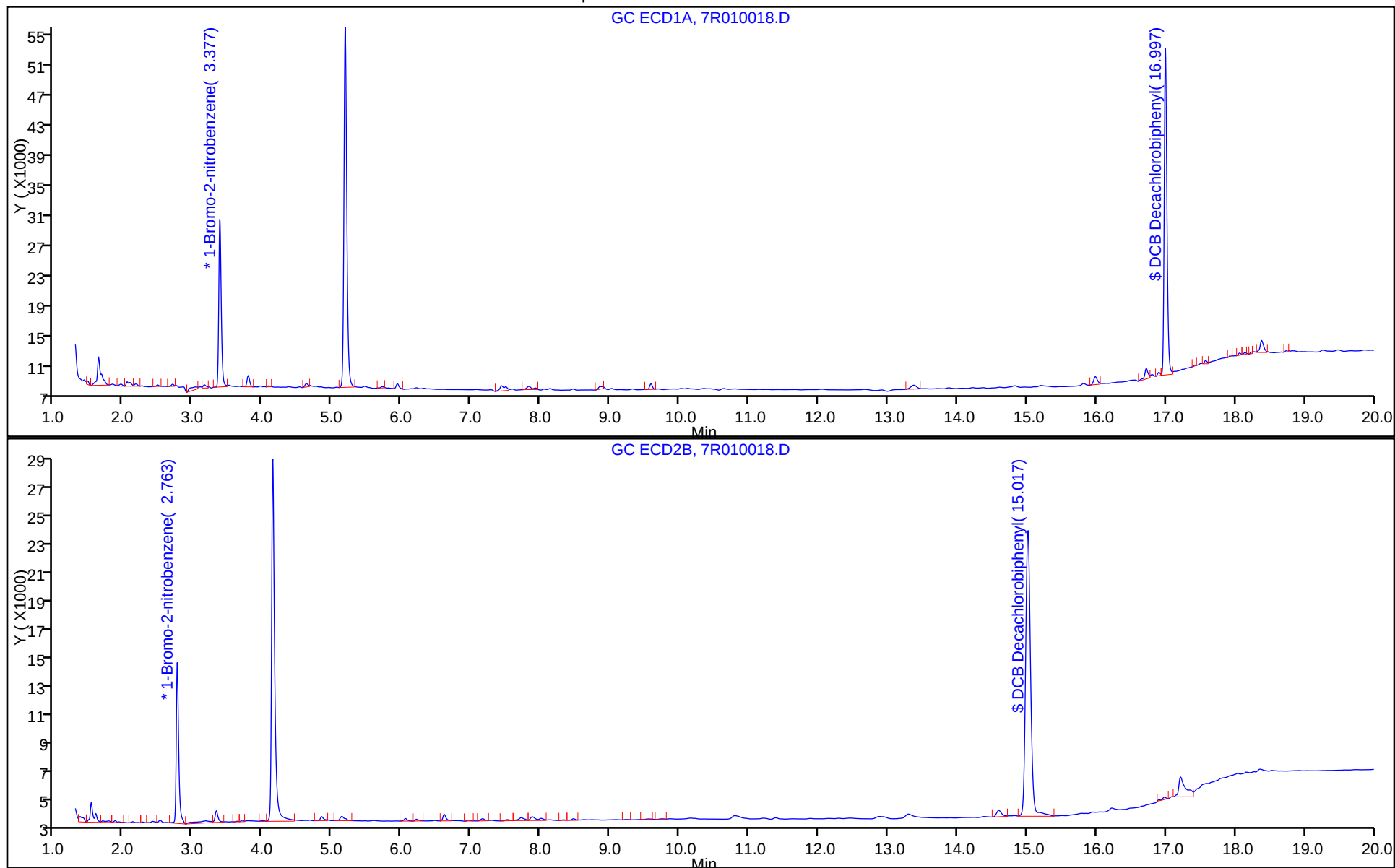
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 31

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-2D Lab Sample ID: 460-144244-4
Matrix: Water Lab File ID: 7R010019.D
Analysis Method: 8082A Date Collected: 11/01/2017 10:40
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 20:50
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	49		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010019.D
Lims ID: 460-144244-G-4-A
Client ID: MW-2D
Sample Type: Client
Inject. Date: 06-Nov-2017 20:50:38 ALS Bottle#: 32 Worklist Smp#: 29
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-029
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B
Process Host: XAWRK011

First Level Reviewer: patelji Date: 07-Nov-2017 12:24:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	54035	20.0
2	2.763	2.760	0.003	27217	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	91871	48.9
2	15.017	15.013	0.004	74106	46.7

RPD = 4.73

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010019.D

Injection Date: 06-Nov-2017 20:50:38

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-4-A

Lab Sample ID: 460-144244-4

Worklist Smp#: 29

Client ID: MW-2D

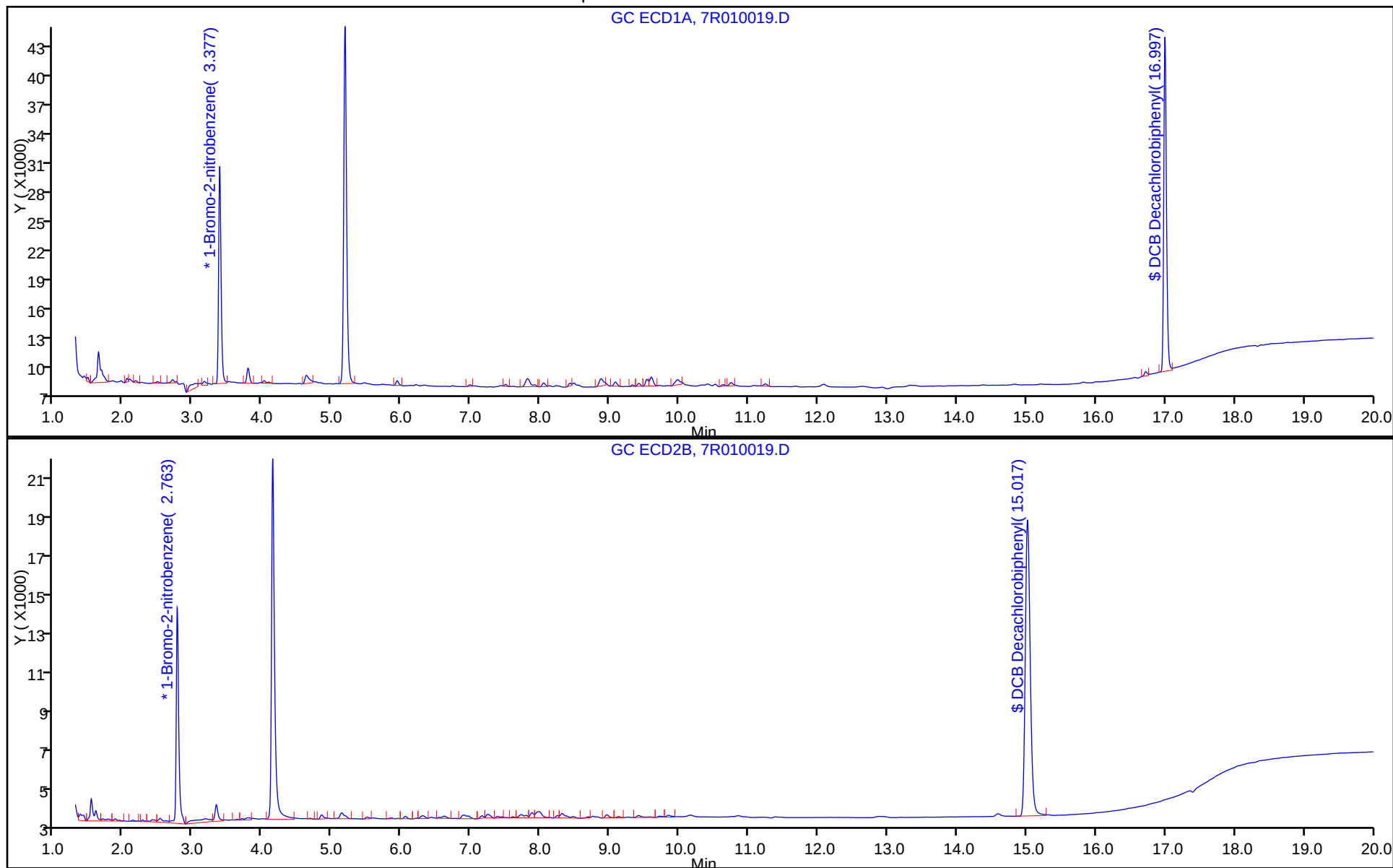
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 32

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2D</u>	Lab Sample ID: <u>460-144244-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010019.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/01/2017 10:40</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 20:50</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	47		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010019.D
 Lims ID: 460-144244-G-4-A
 Client ID: MW-2D
 Sample Type: Client
 Inject. Date: 06-Nov-2017 20:50:38 ALS Bottle#: 32 Worklist Smp#: 29
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-029
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji Date: 07-Nov-2017 12:24:44

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	54035	20.0
2	2.763	2.760	0.003	27217	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	91871	48.9
2	15.017	15.013	0.004	74106	46.7

RPD = 4.73

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010019.D

Injection Date: 06-Nov-2017 20:50:38

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-4-A

Lab Sample ID: 460-144244-4

Worklist Smp#: 29

Client ID: MW-2D

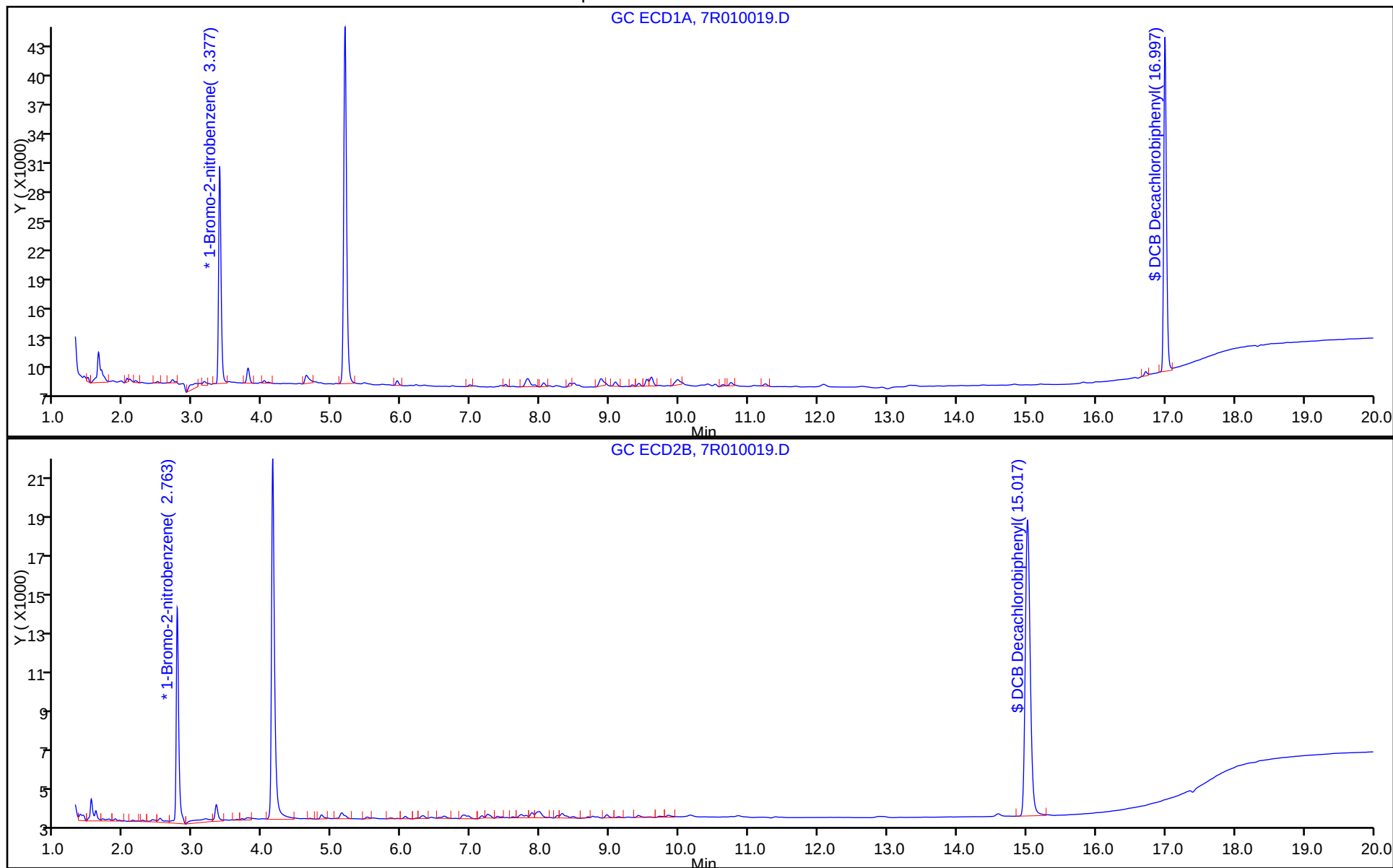
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 32

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-3S Lab Sample ID: 460-144244-5
Matrix: Water Lab File ID: 7R010020.D
Analysis Method: 8082A Date Collected: 10/31/2017 17:10
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 21:14
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	37		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010020.D
 Lims ID: 460-144244-G-5-A
 Client ID: MW-3S
 Sample Type: Client
 Inject. Date: 06-Nov-2017 21:14:08 ALS Bottle#: 33 Worklist Smp#: 30
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-030
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji

Date: 07-Nov-2017 12:24:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	54076	20.0
2	2.763	2.760	0.003	26661	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	69603	37.0
2	15.017	15.013	0.004	54838	35.2

RPD = 4.95

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010020.D

Injection Date: 06-Nov-2017 21:14:08

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-5-A

Lab Sample ID: 460-144244-5

Worklist Smp#: 30

Client ID: MW-3S

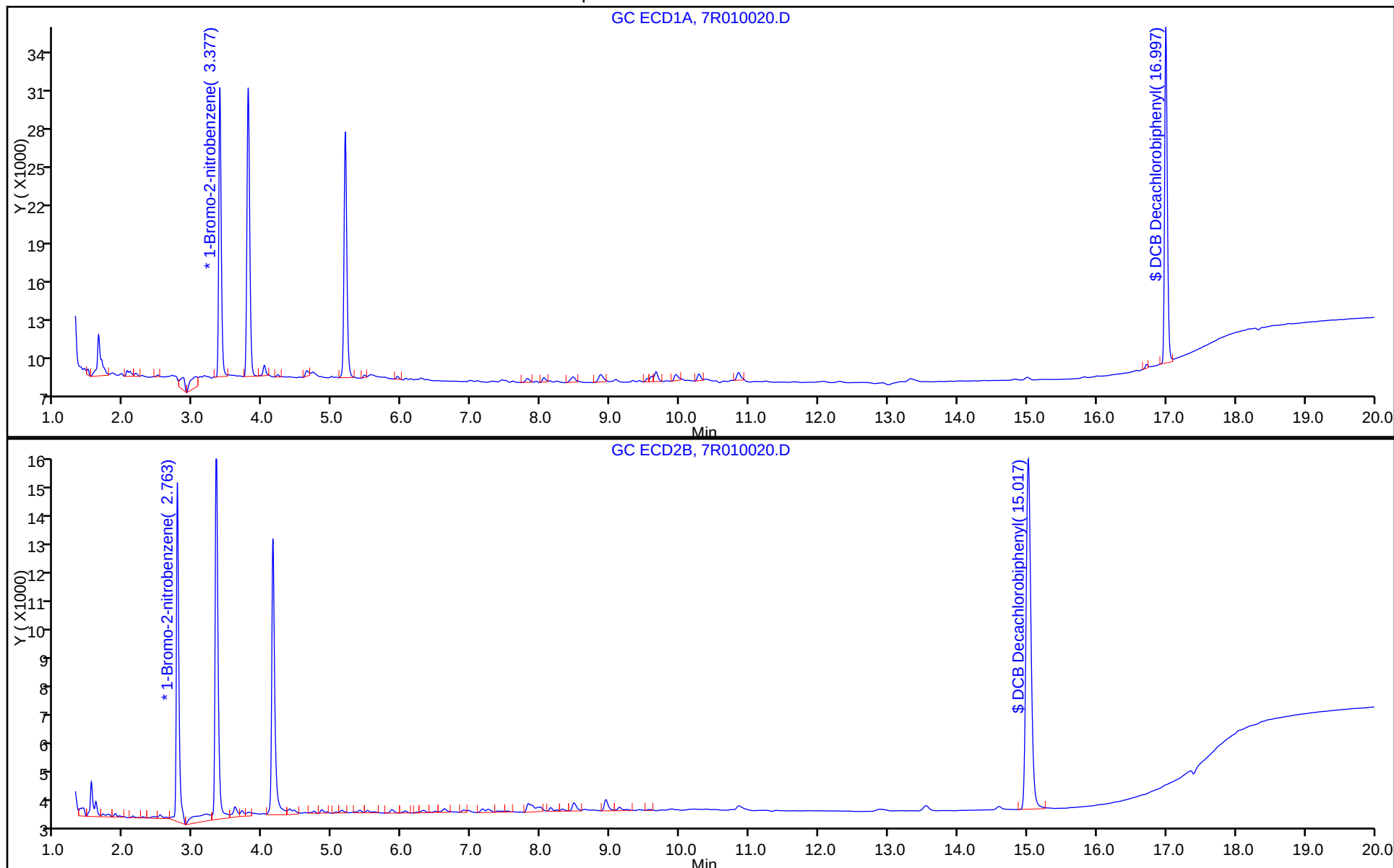
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 33

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-3S</u>	Lab Sample ID: <u>460-144244-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010020.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 17:10</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 21:14</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	35		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010020.D
 Lims ID: 460-144244-G-5-A
 Client ID: MW-3S
 Sample Type: Client
 Inject. Date: 06-Nov-2017 21:14:08 ALS Bottle#: 33 Worklist Smp#: 30
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-030
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji

Date: 07-Nov-2017 12:24:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	54076	20.0	
2	2.763	2.760	0.003	26661	20.0	
RPD = 0.00						

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	69603	37.0	
2	15.017	15.013	0.004	54838	35.2	
RPD = 4.95						

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010020.D

Injection Date: 06-Nov-2017 21:14:08

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-5-A

Lab Sample ID: 460-144244-5

Worklist Smp#: 30

Client ID: MW-3S

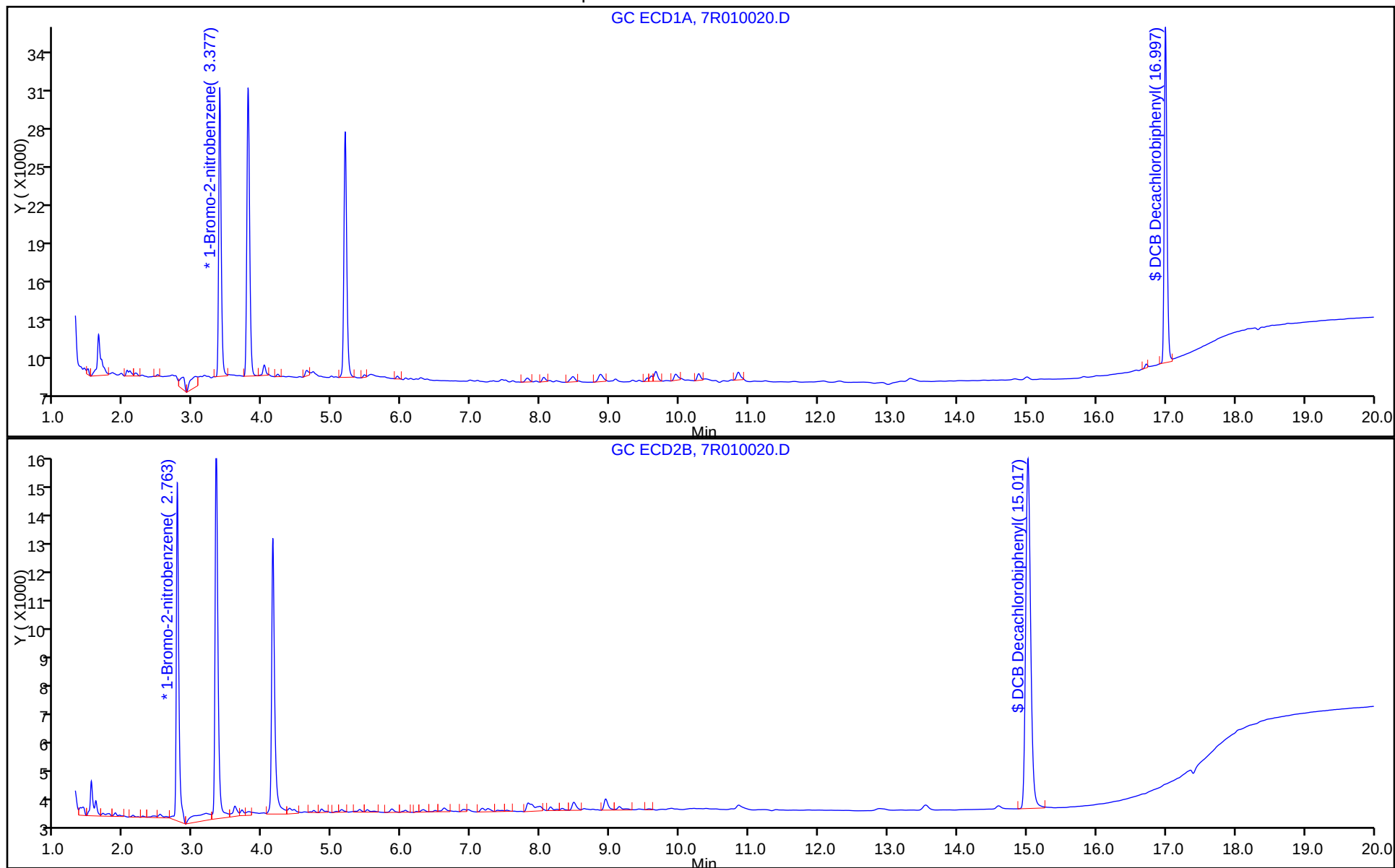
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 33

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-3D Lab Sample ID: 460-144244-6
Matrix: Water Lab File ID: 7R010021.D
Analysis Method: 8082A Date Collected: 11/01/2017 12:55
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 21:37
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	46		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010021.D
Lims ID: 460-144244-G-6-A
Client ID: MW-3D
Sample Type: Client
Inject. Date: 06-Nov-2017 21:37:23 ALS Bottle#: 34 Worklist Smp#: 31
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-031
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.373	3.390	-0.017	52021	20.0
2	2.767	2.760	0.007	25649	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	83809	46.4
2	15.017	15.013	0.004	67009	44.8

RPD = 3.48

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010021.D

Injection Date: 06-Nov-2017 21:37:23

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-6-A

Lab Sample ID: 460-144244-6

Worklist Smp#: 31

Client ID: MW-3D

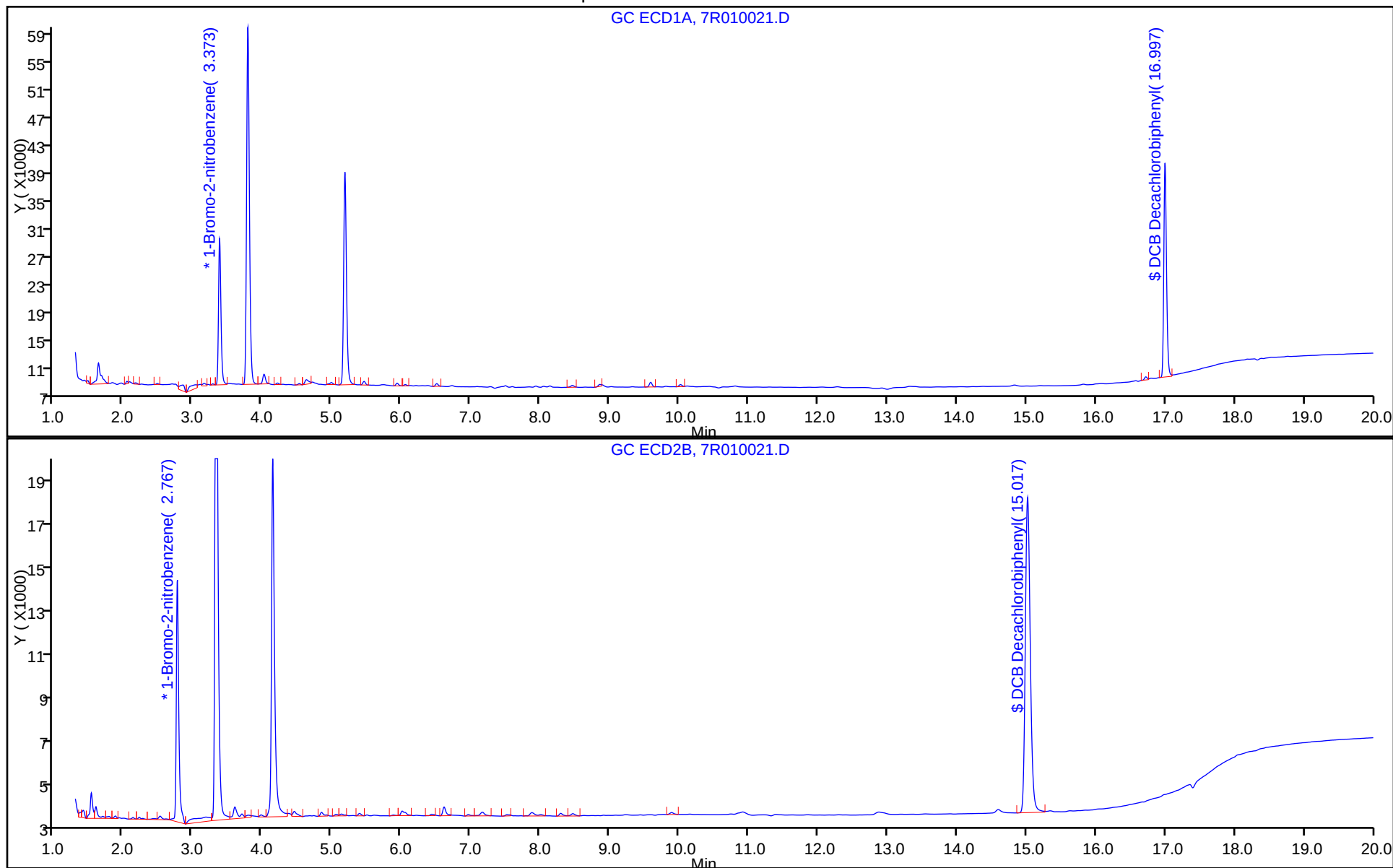
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 34

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-3D</u>	Lab Sample ID: <u>460-144244-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010021.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/01/2017 12:55</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 21:37</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	45		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010021.D
 Lims ID: 460-144244-G-6-A
 Client ID: MW-3D
 Sample Type: Client
 Inject. Date: 06-Nov-2017 21:37:23 ALS Bottle#: 34 Worklist Smp#: 31
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-031
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B

Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.373	3.390	-0.017	52021	20.0
2	2.767	2.760	0.007	25649	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	83809	46.4
2	15.017	15.013	0.004	67009	44.8

RPD = 3.48

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010021.D

Injection Date: 06-Nov-2017 21:37:23

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-6-A

Lab Sample ID: 460-144244-6

Worklist Smp#: 31

Client ID: MW-3D

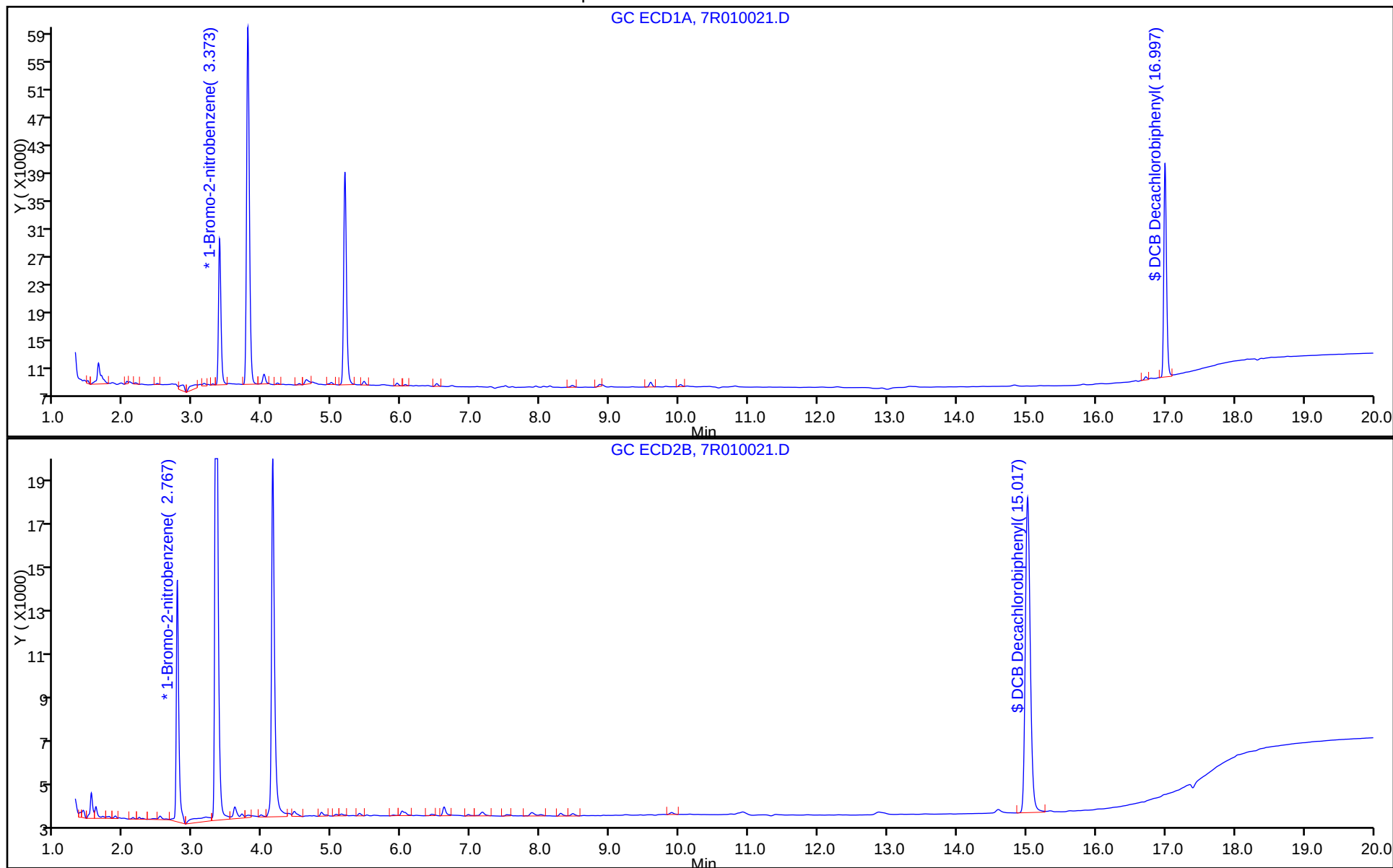
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 34

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-4S Lab Sample ID: 460-144244-7
Matrix: Water Lab File ID: 7R010022.D
Analysis Method: 8082A Date Collected: 11/01/2017 12:20
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 22:00
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	45		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010022.D
Lims ID: 460-144244-G-7-A
Client ID: MW-4S
Sample Type: Client
Inject. Date: 06-Nov-2017 22:00:56 ALS Bottle#: 35 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-032
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	53847	20.0
2	2.763	2.760	0.003	29336	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	84110	44.9
2	15.017	15.013	0.004	67193	39.2

RPD = 13.53

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010022.D

Injection Date: 06-Nov-2017 22:00:56

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-7-A

Lab Sample ID: 460-144244-7

Worklist Smp#: 32

Client ID: MW-4S

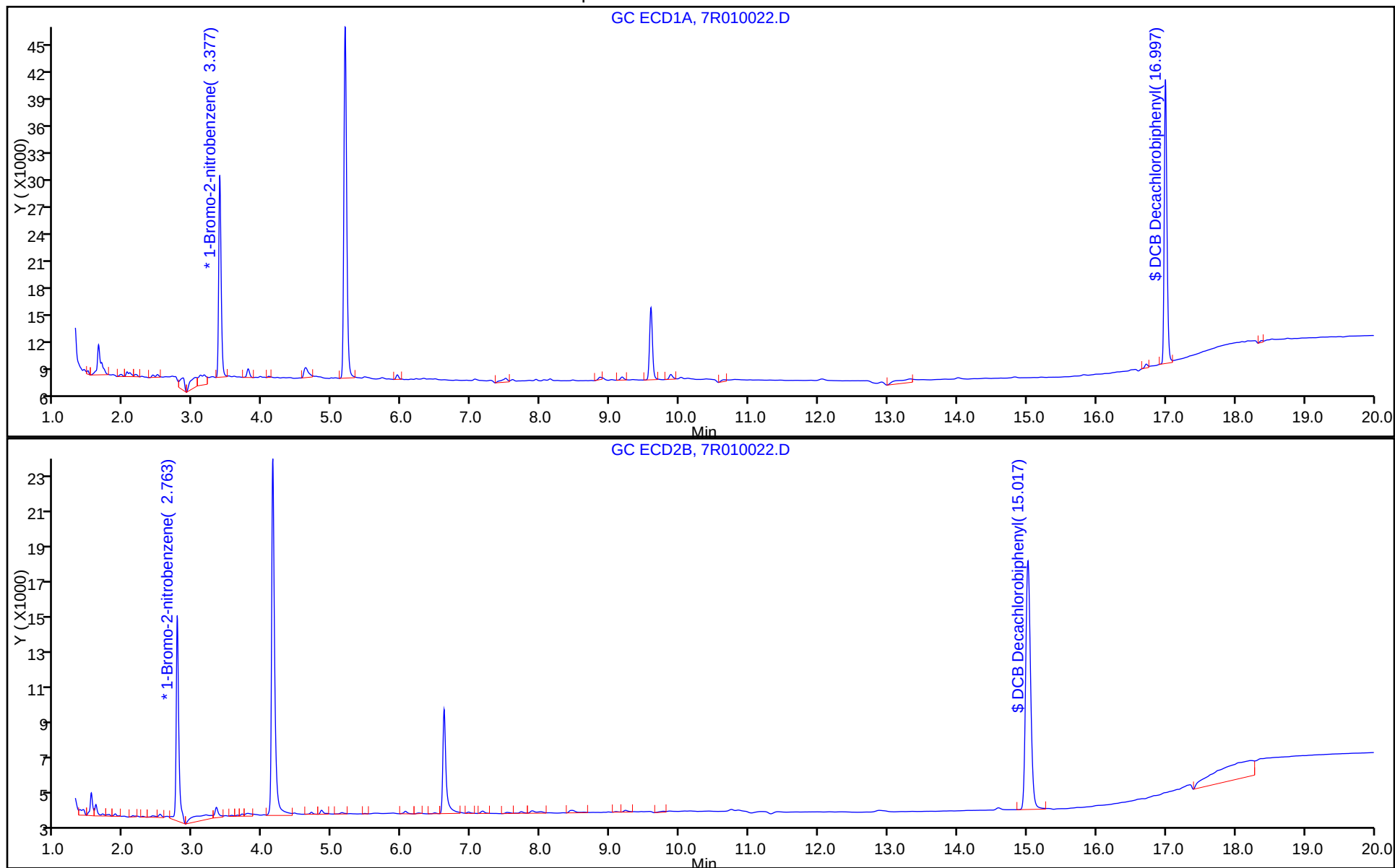
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 35

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-4S</u>	Lab Sample ID: <u>460-144244-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010022.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/01/2017 12:20</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 22:00</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	39		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010022.D
Lims ID: 460-144244-G-7-A
Client ID: MW-4S
Sample Type: Client
Inject. Date: 06-Nov-2017 22:00:56 ALS Bottle#: 35 Worklist Smp#: 32
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-032
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	53847	20.0
2	2.763	2.760	0.003	29336	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	84110	44.9
2	15.017	15.013	0.004	67193	39.2

RPD = 13.53

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010022.D

Injection Date: 06-Nov-2017 22:00:56

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-G-7-A

Lab Sample ID: 460-144244-7

Worklist Smp#: 32

Client ID: MW-4S

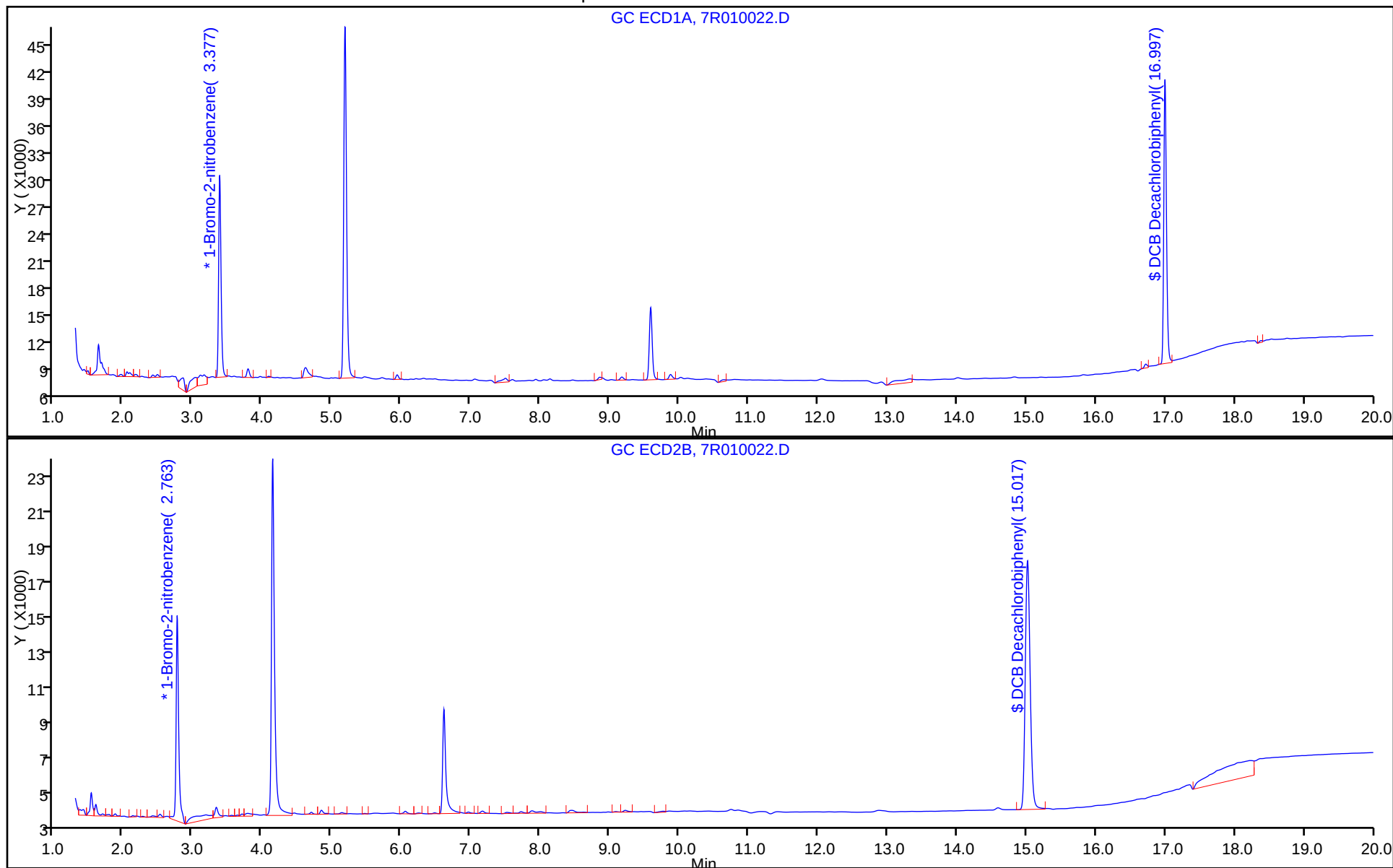
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 35

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-4D Lab Sample ID: 460-144244-8
Matrix: Water Lab File ID: 7R010023.D
Analysis Method: 8082A Date Collected: 11/01/2017 12:30
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 22:24
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	45		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010023.D
 Lims ID: 460-144244-F-8-A
 Client ID: MW-4D
 Sample Type: Client
 Inject. Date: 06-Nov-2017 22:24:30 ALS Bottle#: 36 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-033
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji Date: 07-Nov-2017 12:24:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	57371	20.0
2	2.763	2.760	0.003	35992	20.0
RPD = 0.00					

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	89891	45.1
2	15.017	15.013	0.004	70982	33.8
RPD = 28.62					

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010023.D

Injection Date: 06-Nov-2017 22:24:30

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-8-A

Lab Sample ID: 460-144244-8

Worklist Smp#: 33

Client ID: MW-4D

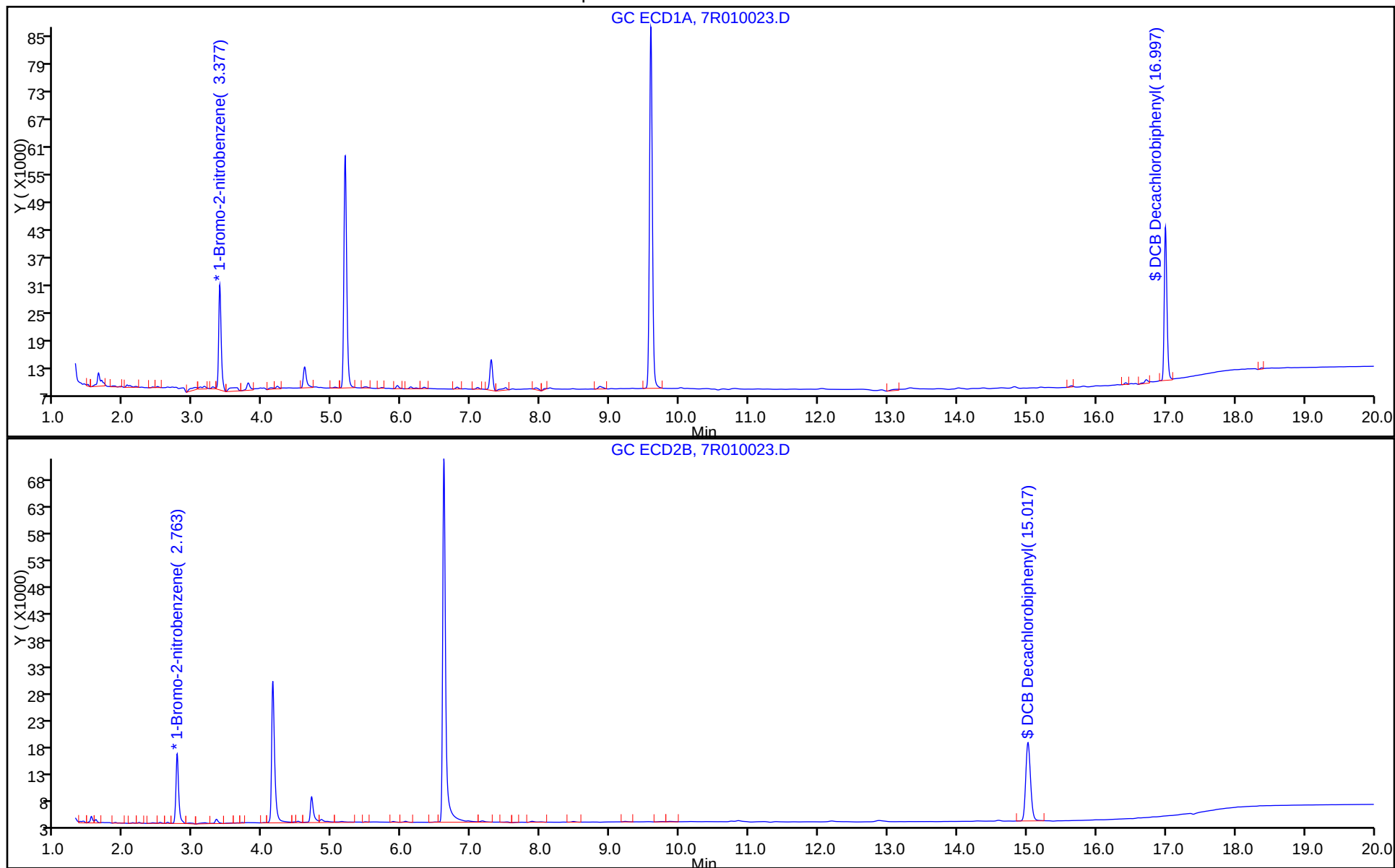
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 36

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-4D</u>	Lab Sample ID: <u>460-144244-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010023.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>11/01/2017 12:30</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 22:24</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	34		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010023.D
 Lims ID: 460-144244-F-8-A
 Client ID: MW-4D
 Sample Type: Client
 Inject. Date: 06-Nov-2017 22:24:30 ALS Bottle#: 36 Worklist Smp#: 33
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-033
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji Date: 07-Nov-2017 12:24:11

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	57371	20.0
2	2.763	2.760	0.003	35992	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	89891	45.1
2	15.017	15.013	0.004	70982	33.8

RPD = 28.62

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010023.D

Injection Date: 06-Nov-2017 22:24:30

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-8-A

Lab Sample ID: 460-144244-8

Worklist Smp#: 33

Client ID: MW-4D

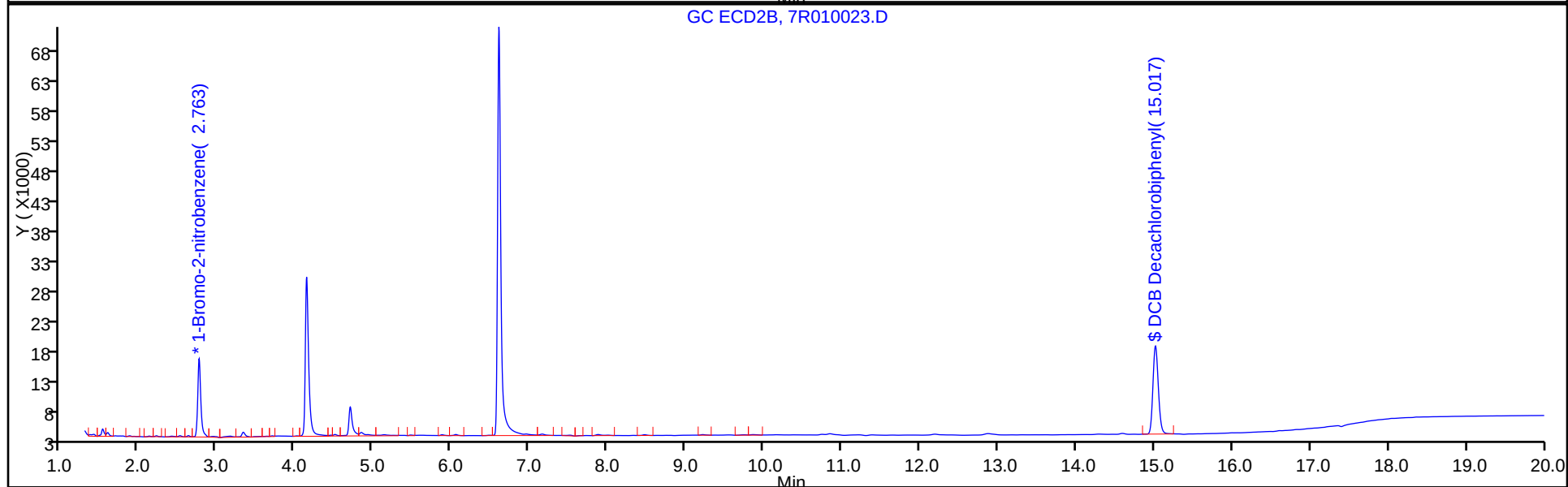
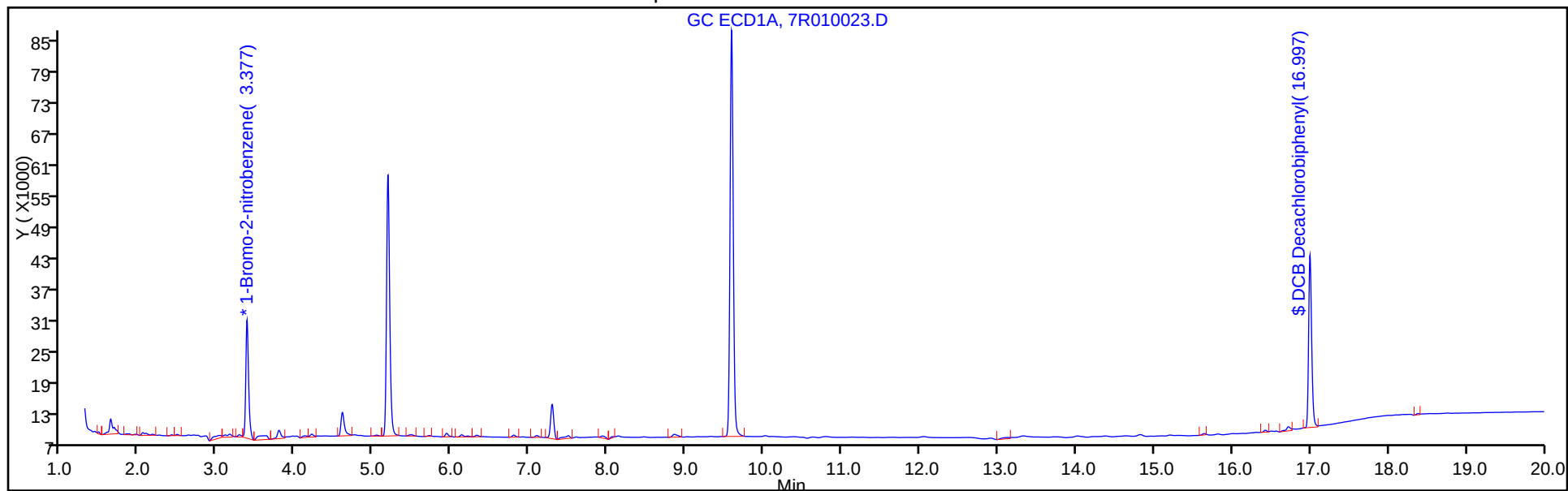
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 36

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: NPPRS Lab Sample ID: 460-144244-9
Matrix: Water Lab File ID: 7R010024.D
Analysis Method: 8082A Date Collected: 10/31/2017 12:50
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 22:48
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	55		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010024.D
Lims ID: 460-144244-F-9-A
Client ID: NPPRS
Sample Type: Client
Inject. Date: 06-Nov-2017 22:48:12 ALS Bottle#: 37 Worklist Smp#: 34
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-034
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	51860	20.0
2	2.763	2.760	0.003	24429	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	98944	54.9
2	15.017	15.013	0.004	79922	56.1

RPD = 2.10

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010024.D

Injection Date: 06-Nov-2017 22:48:12

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-9-A

Lab Sample ID: 460-144244-9

Worklist Smp#: 34

Client ID: NPPRS

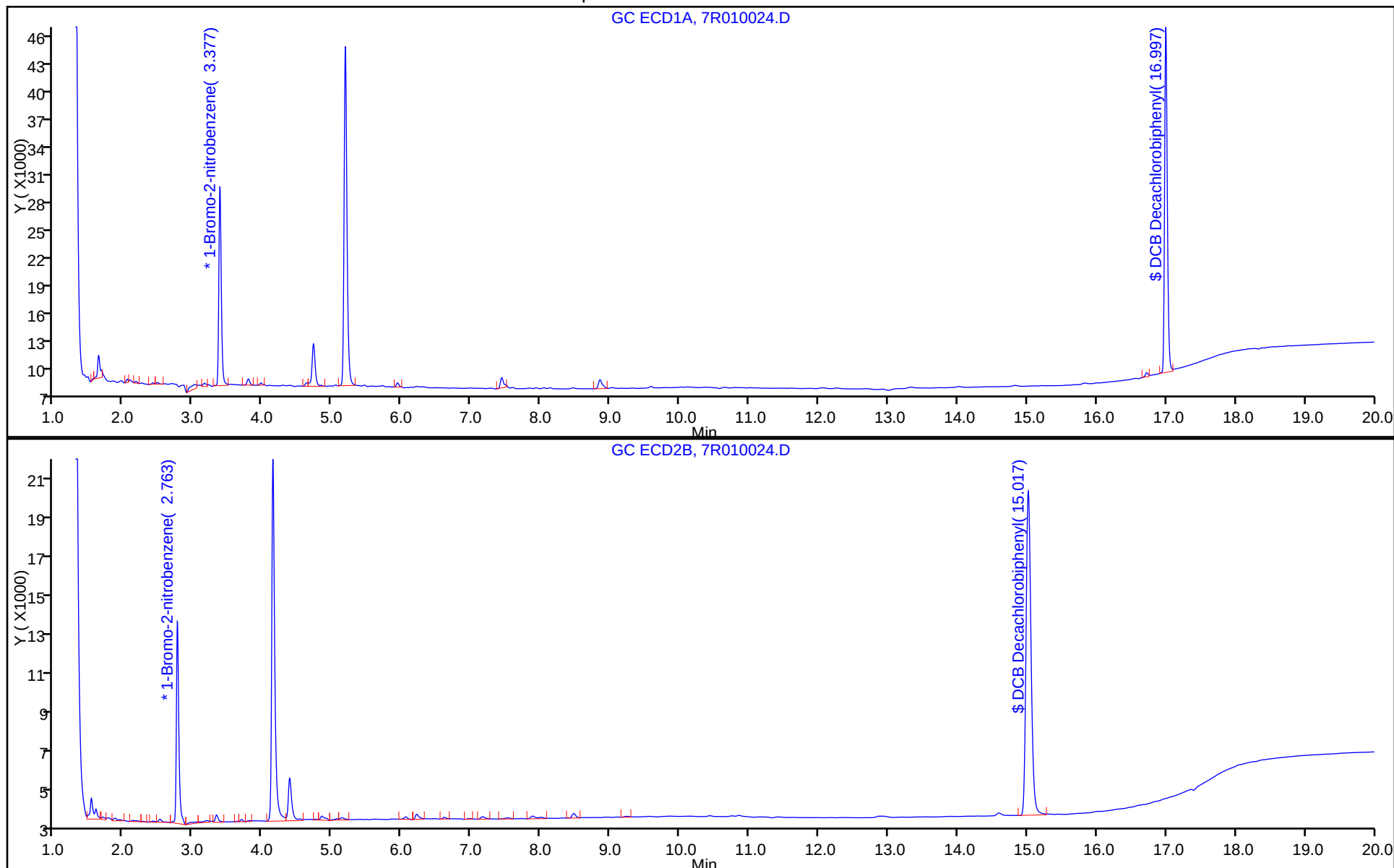
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 37

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>NPPRS</u>	Lab Sample ID: <u>460-144244-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010024.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 12:50</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 22:48</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	56		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010024.D
 Lims ID: 460-144244-F-9-A
 Client ID: NPPRS
 Sample Type: Client
 Inject. Date: 06-Nov-2017 22:48:12 ALS Bottle#: 37 Worklist Smp#: 34
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-034
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B

Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	51860	20.0
2	2.763	2.760	0.003	24429	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	98944	54.9
2	15.017	15.013	0.004	79922	56.1

RPD = 2.10

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010024.D

Injection Date: 06-Nov-2017 22:48:12

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-9-A

Lab Sample ID: 460-144244-9

Worklist Smp#: 34

Client ID: NPPRS

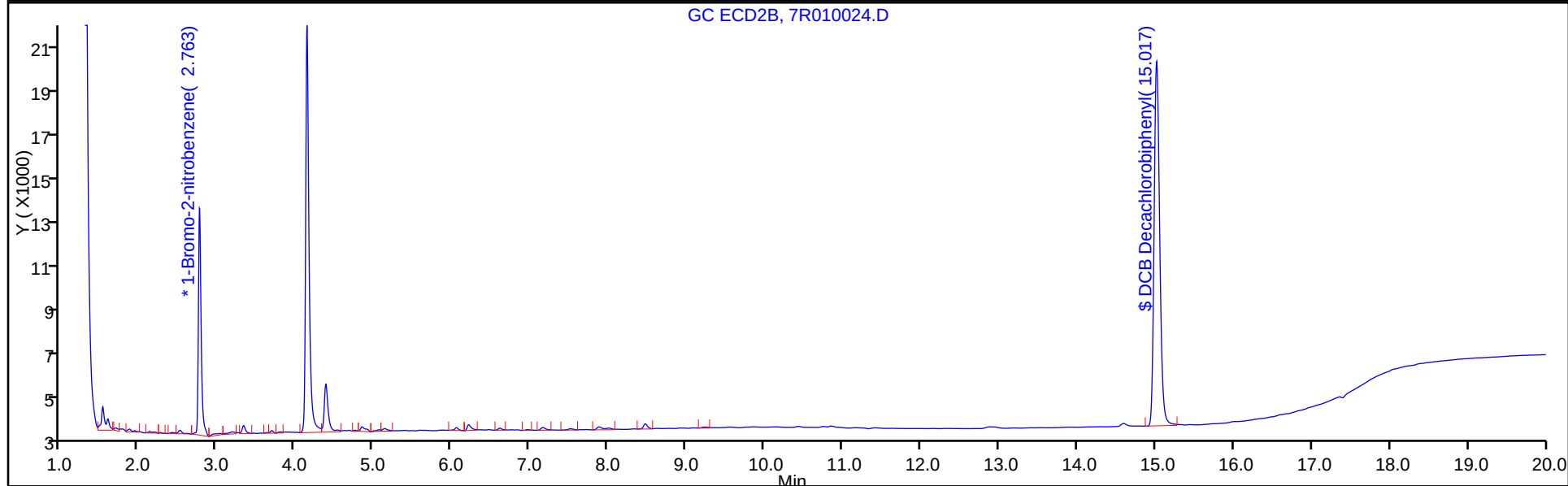
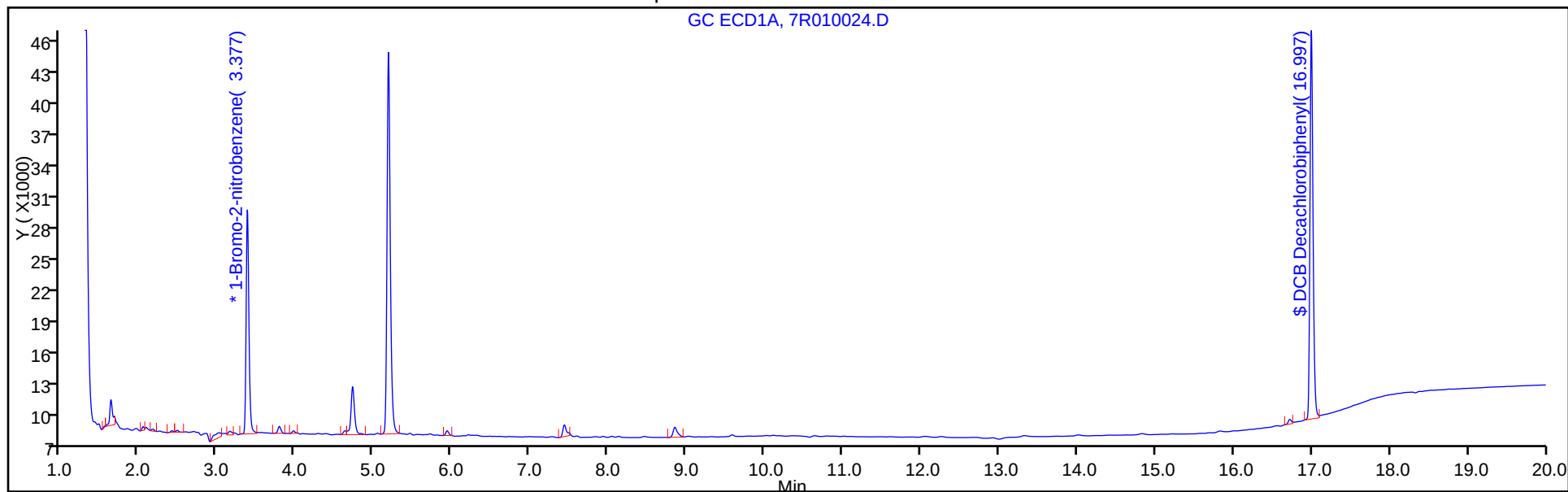
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 37

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: SPPRS Lab Sample ID: 460-144244-10
Matrix: Water Lab File ID: 7R010047.D
Analysis Method: 8082A Date Collected: 10/31/2017 12:30
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/07/2017 14:03
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 475107 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	46		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\7R010047.D
Lims ID: 460-144244-F-10-A
Client ID: SPPRS
Sample Type: Client
Inject. Date: 07-Nov-2017 14:03:04 ALS Bottle#: 60 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 15:40:21 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK017

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.380	3.380	0.000	56349	20.0
2	2.763	2.767	-0.004	26766	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	90409	46.2
2	15.013	15.013	0.000	73445	47.0

RPD = 1.84

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171107-63022.b\\7R010047.D

Injection Date: 07-Nov-2017 14:03:04

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-10-A

Lab Sample ID: 460-144244-10

Worklist Smp#: 13

Client ID: SPPRS

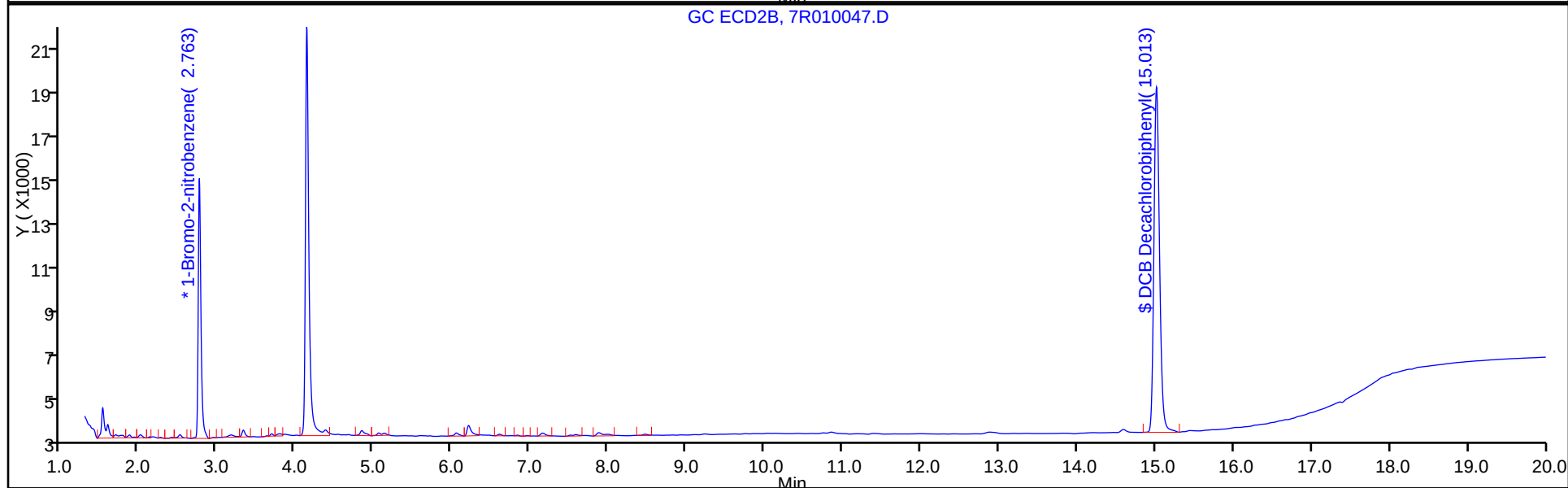
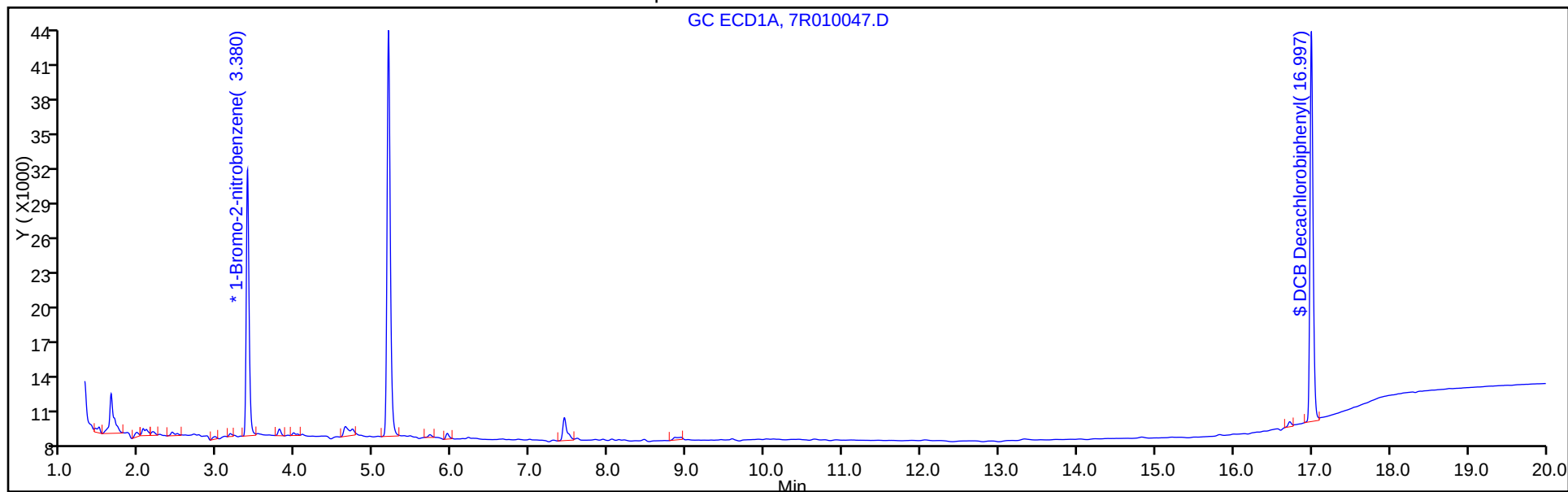
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 60

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>SPPRS</u>	Lab Sample ID: <u>460-144244-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010047.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 12:30</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/07/2017 14:03</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>475107</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	47		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\7R010047.D
Lims ID: 460-144244-F-10-A
Client ID: SPPRS
Sample Type: Client
Inject. Date: 07-Nov-2017 14:03:04 ALS Bottle#: 60 Worklist Smp#: 13
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 15:40:21 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK017

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.380	3.380	0.000	56349	20.0
2	2.763	2.767	-0.004	26766	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	90409	46.2
2	15.013	15.013	0.000	73445	47.0

RPD = 1.84

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\7R010047.D

Injection Date: 07-Nov-2017 14:03:04

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-10-A

Lab Sample ID: 460-144244-10

Worklist Smp#: 13

Client ID: SPPRS

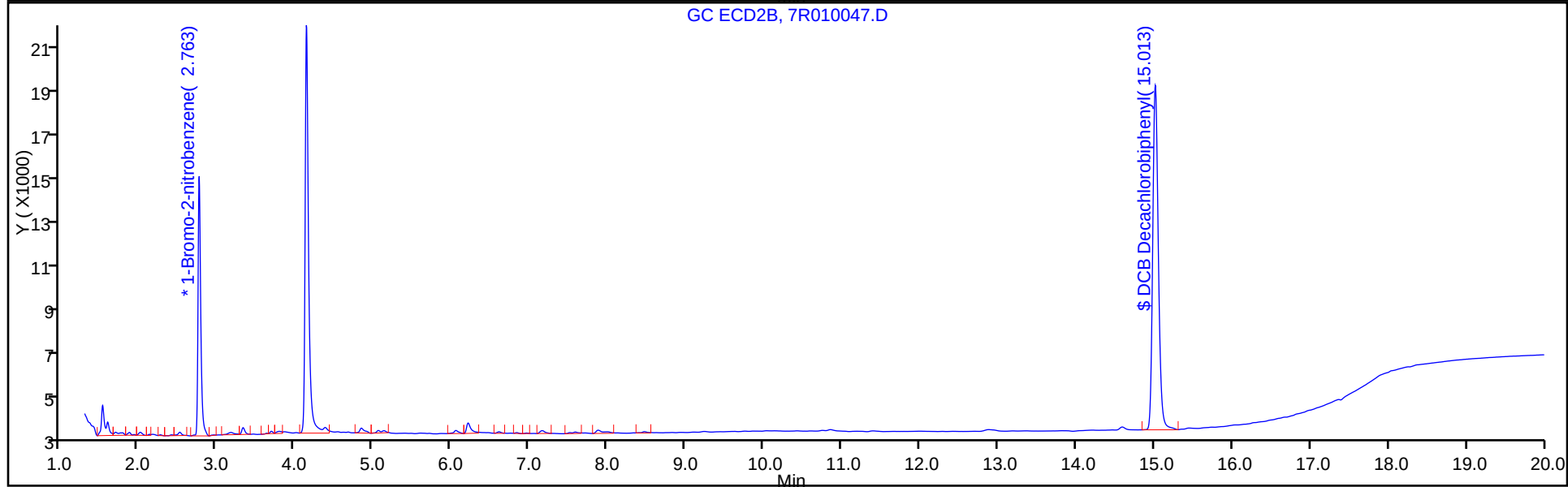
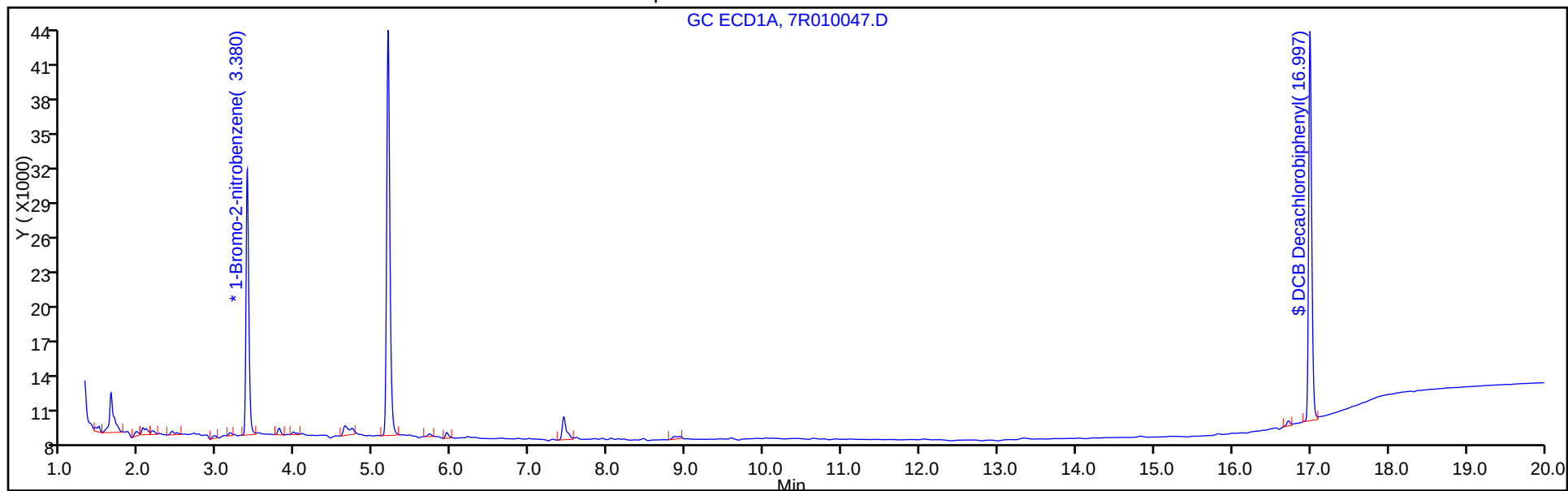
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 60

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: Leachate Lab Sample ID: 460-144244-14
Matrix: Water Lab File ID: 7R010026.D
Analysis Method: 8082A Date Collected: 10/31/2017 12:05
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/07/2017 03:11
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	42		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010026.D
Lims ID: 460-144244-F-14-A
Client ID: Leachate
Sample Type: Client
Inject. Date: 07-Nov-2017 03:11:47 ALS Bottle#: 39 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-036
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.390	3.390	0.000	57581	20.0
2	2.753	2.760	-0.007	28310	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	17.000	16.997	0.003	83431	41.7
2	15.013	15.013	0.000	65794	39.8

RPD = 4.57

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010026.D

Injection Date: 07-Nov-2017 03:11:47

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-14-A

Lab Sample ID: 460-144244-14

Worklist Smp#: 36

Client ID: Leachate

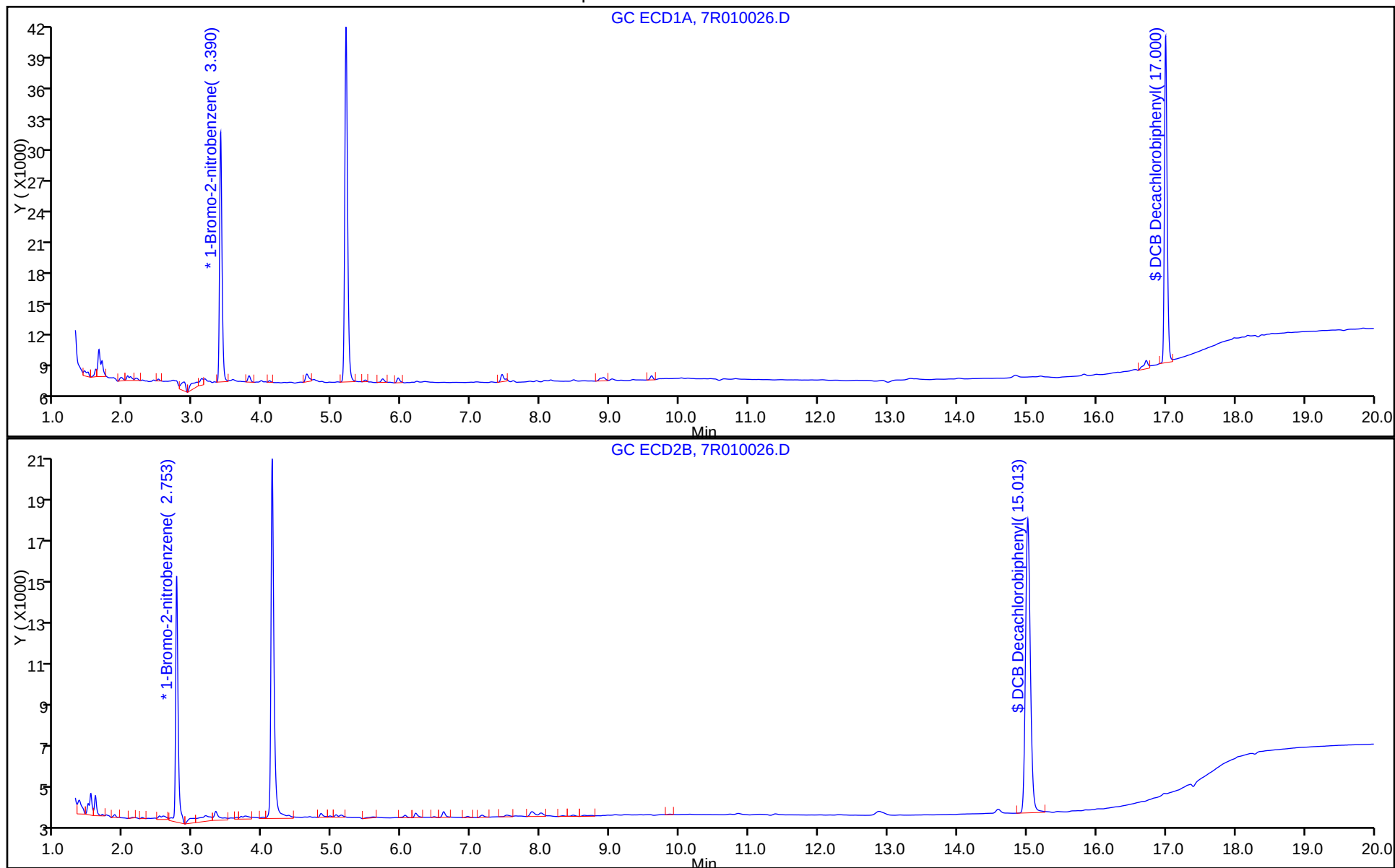
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 39

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>Leachate</u>	Lab Sample ID: <u>460-144244-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010026.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 12:05</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/07/2017 03:11</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	40		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010026.D
Lims ID: 460-144244-F-14-A
Client ID: Leachate
Sample Type: Client
Inject. Date: 07-Nov-2017 03:11:47 ALS Bottle#: 39 Worklist Smp#: 36
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info: 460-0062962-036
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK011

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.390	3.390	0.000	57581	20.0
2	2.753	2.760	-0.007	28310	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	17.000	16.997	0.003	83431	41.7
2	15.013	15.013	0.000	65794	39.8

RPD = 4.57

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010026.D

Injection Date: 07-Nov-2017 03:11:47

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-14-A

Lab Sample ID: 460-144244-14

Worklist Smp#: 36

Client ID: Leachate

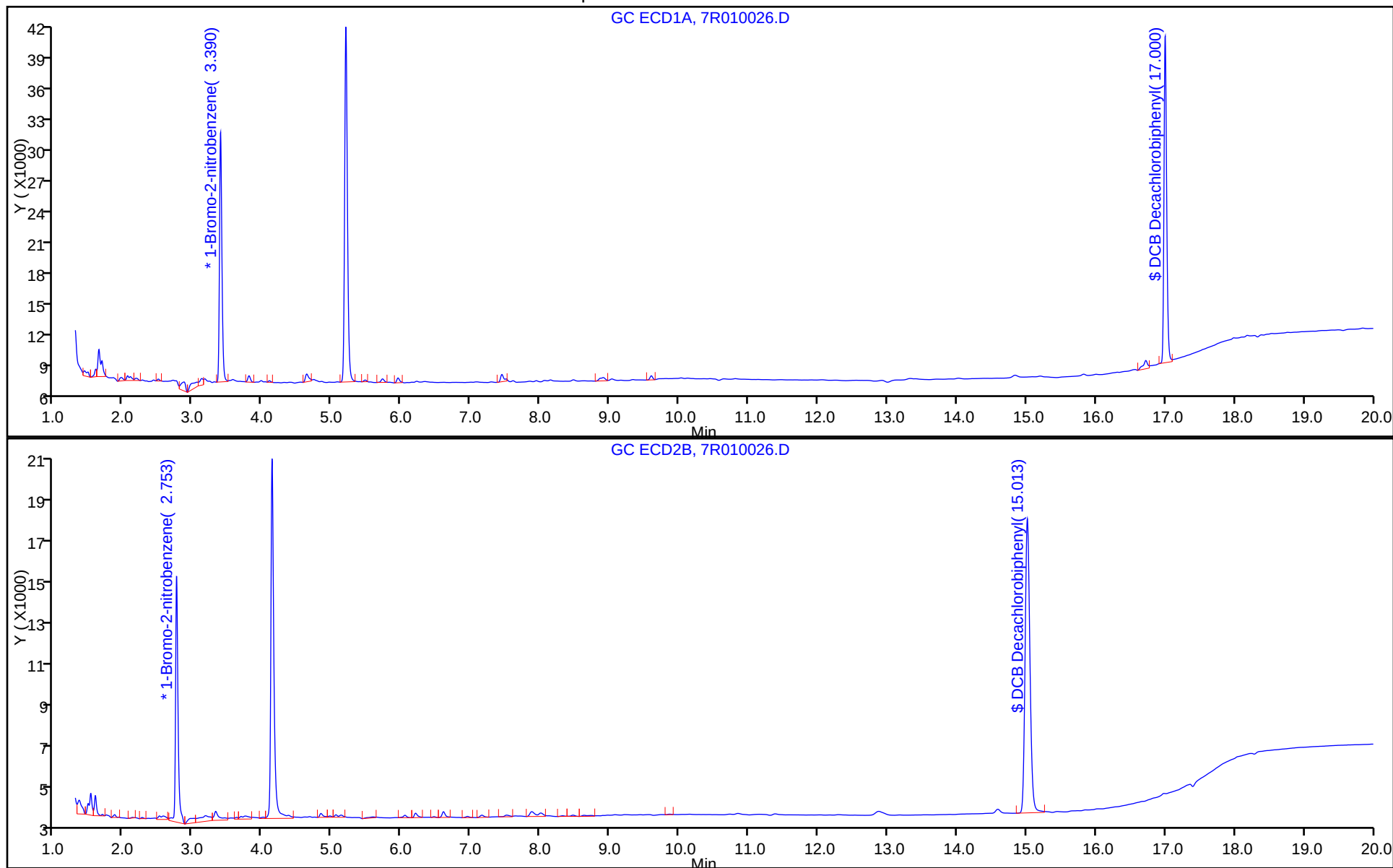
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 39

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: MW-X-DUP Lab Sample ID: 460-144244-15
Matrix: Water Lab File ID: 7R010027.D
Analysis Method: 8082A Date Collected: 10/31/2017 00:00
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/07/2017 03:35
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	46		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010027.D
 Lims ID: 460-144244-F-15-A
 Client ID: MW-X-DUP
 Sample Type: Client
 Inject. Date: 07-Nov-2017 03:35:27 ALS Bottle#: 40 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-037
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji Date: 07-Nov-2017 12:23:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	56078	20.0
2	2.763	2.760	0.003	28291	20.0
RPD = 0.00					

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	90600	46.5
2	15.013	15.013	0.000	73480	44.5
RPD = 4.35					

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010027.D

Injection Date: 07-Nov-2017 03:35:27

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-15-A

Lab Sample ID: 460-144244-15

Worklist Smp#: 37

Client ID: MW-X-DUP

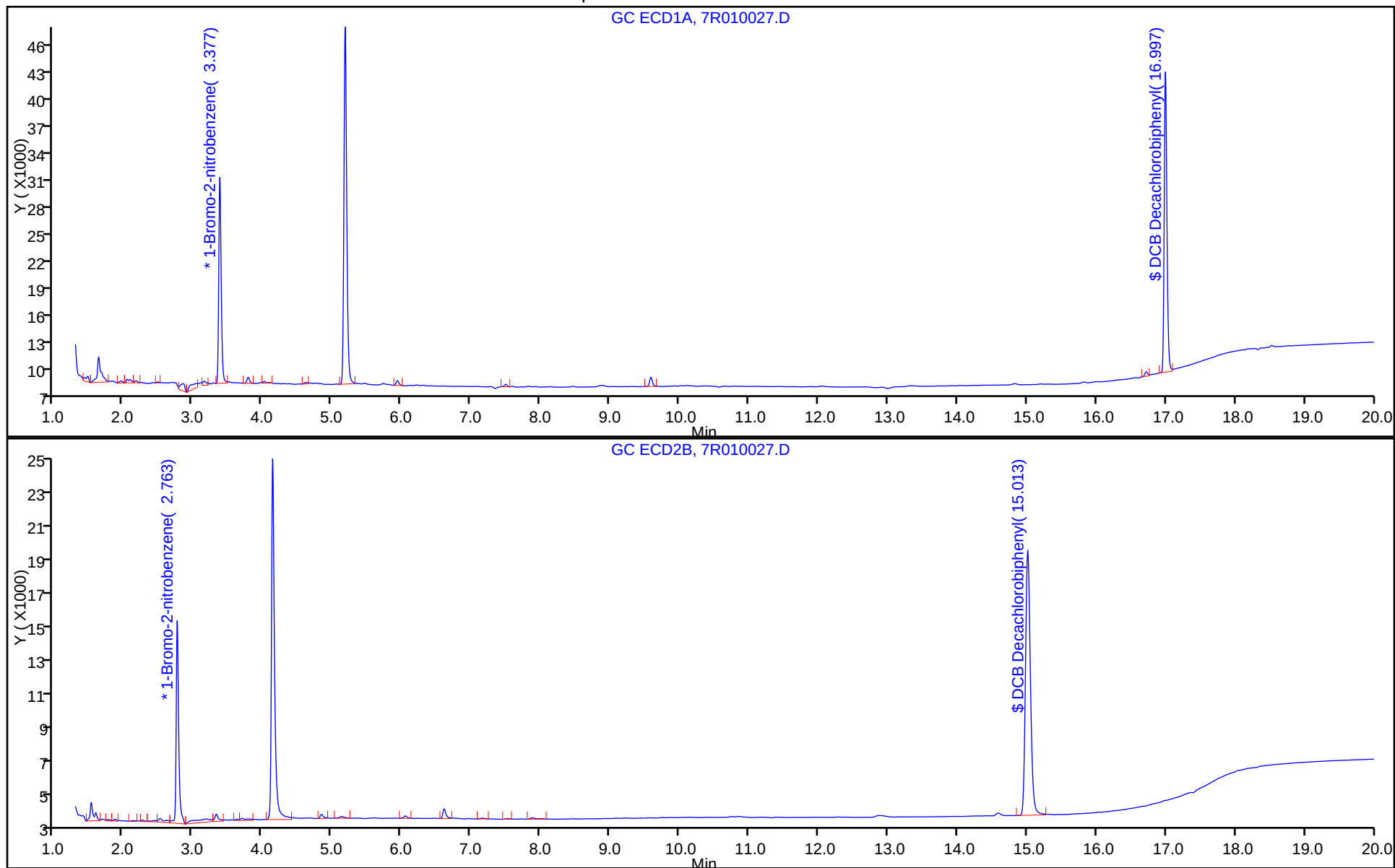
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 40

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-X-DUP</u>	Lab Sample ID: <u>460-144244-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R010027.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 00:00</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/07/2017 03:35</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	45		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010027.D
 Lims ID: 460-144244-F-15-A
 Client ID: MW-X-DUP
 Sample Type: Client
 Inject. Date: 07-Nov-2017 03:35:27 ALS Bottle#: 40 Worklist Smp#: 37
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-037
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji Date: 07-Nov-2017 12:23:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.390	-0.013	56078	20.0
2	2.763	2.760	0.003	28291	20.0

RPD = 0.00

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	90600	46.5
2	15.013	15.013	0.000	73480	44.5

RPD = 4.35

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010027.D

Injection Date: 07-Nov-2017 03:35:27

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-15-A

Lab Sample ID: 460-144244-15

Worklist Smp#: 37

Client ID: MW-X-DUP

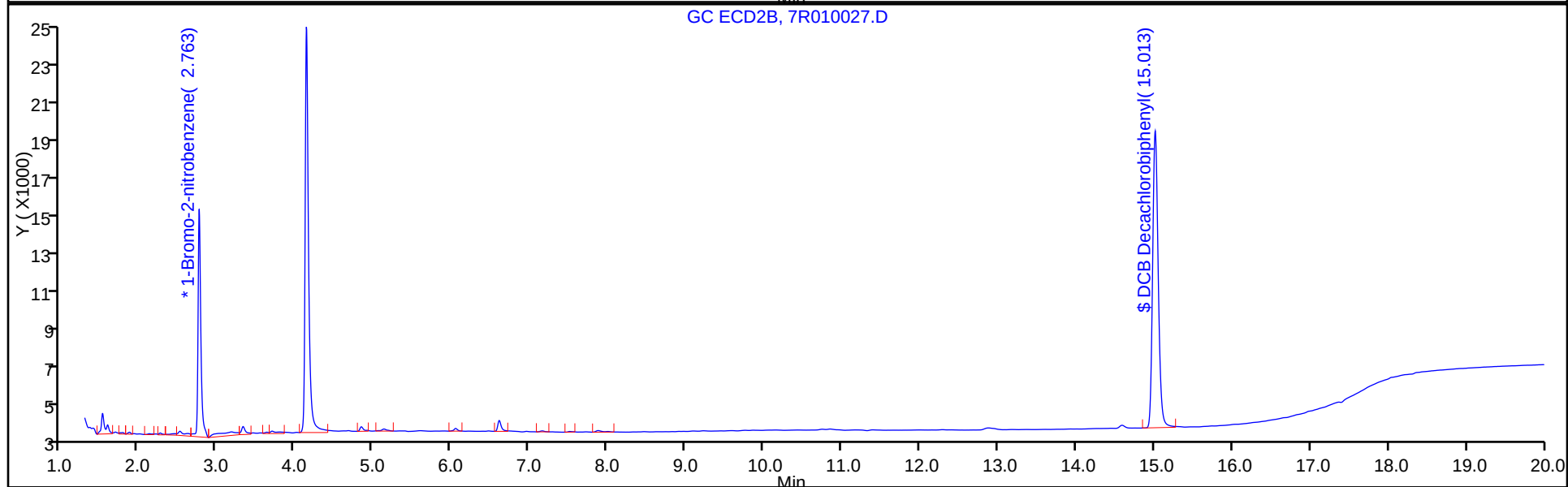
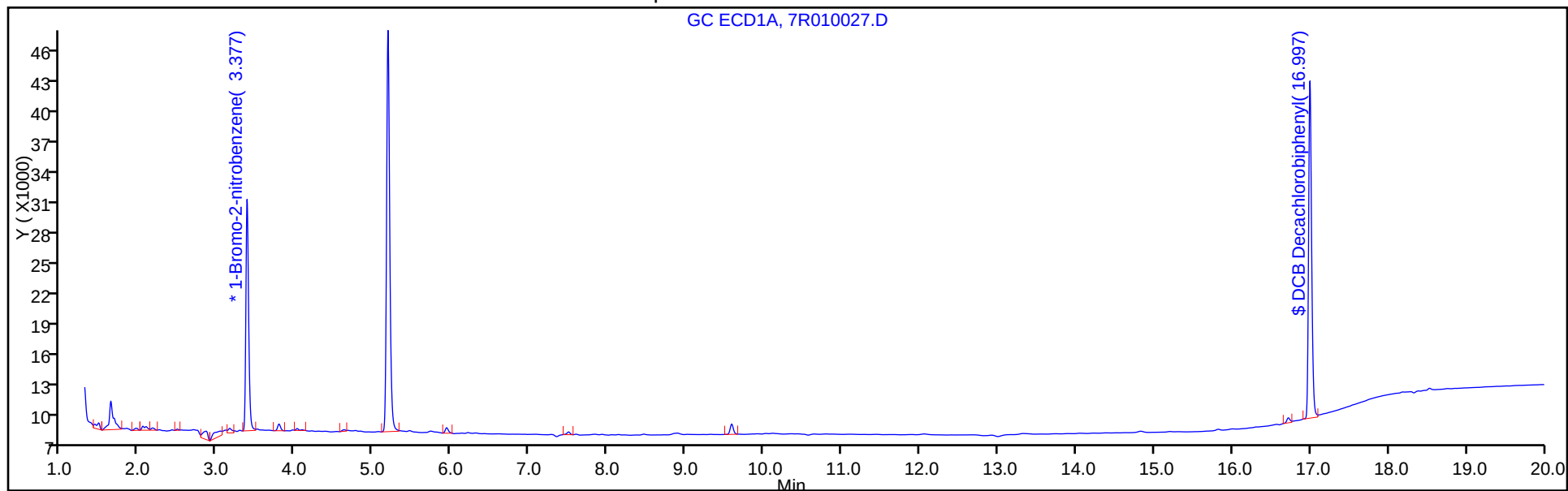
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 40

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 11:50 Calibration End Date: 07/29/2017 13:25 Calibration ID: 63416

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/2	7R006190.D
Level 2	IC 460-452720/3	7R006191.D
Level 3	IC 460-452720/4	7R006192.D
Level 4	IC 460-452720/5	7R006193.D
Level 5	IC 460-452720/6	7R006194.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0234	0.0208	0.0207	0.0185	0.0182	Ave		0.0203				10.4		20.0			0.9900
PCB-1016 Peak 2	0.0422	0.0426	0.0425	0.0381	0.0376	Ave		0.0406				6.2		20.0			0.9900
PCB-1016 Peak 3	0.0921	0.0812	0.0798	0.0714	0.0707	Ave		0.0791				11.0		20.0			0.9900
PCB-1016 Peak 4	0.0460	0.0377	0.0361	0.0321	0.0316	Ave		0.0367				15.8		20.0			0.9900
PCB-1016 Peak 5	0.0298	0.0284	0.0283	0.0256	0.0256	Ave		0.0275				6.8		20.0			0.9900
PCB-1016 Peak 6	0.0322	0.0279	0.0270	0.0239	0.0234	Ave		0.0269				13.2		20.0			0.9900
PCB-1016 Peak 7	0.0310	0.0293	0.0290	0.0262	0.0264	Ave		0.0284				7.2		20.0			0.9900
PCB-1016 Peak 8	0.0262	0.0288	0.0275	0.0246	0.0238	Ave		0.0262				7.8		20.0			0.9900
PCB-1260 Peak 1	0.0301	0.0294	0.0288	0.0254	0.0255	Ave		0.0279				8.1		20.0			0.9900
PCB-1260 Peak 2	0.0643	0.0609	0.0588	0.0524	0.0516	Ave		0.0576				9.6		20.0			0.9900
PCB-1260 Peak 3	0.0744	0.0708	0.0696	0.0623	0.0618	Ave		0.0678				8.1		20.0			0.9900
PCB-1260 Peak 4	0.0498	0.0498	0.0505	0.0462	0.0460	Ave		0.0485				4.5		20.0			0.9900
PCB-1260 Peak 5	0.0467	0.0483	0.0492	0.0450	0.0451	Ave		0.0469				4.0		20.0			0.9900
PCB-1260 Peak 6	0.1026	0.0989	0.1008	0.0912	0.0922	Ave		0.0971				5.3		20.0			0.9900
PCB-1260 Peak 7	0.0684	0.0718	0.0737	0.0670	0.0676	Ave		0.0697				4.2		20.0			0.9900
PCB-1260 Peak 8	0.0234	0.0243	0.0248	0.0227	0.0230	Ave		0.0236				3.6		20.0			0.9900
Tetrachloro-m-xylene	0.8619	0.8609	0.9087	0.8601	0.9084	Ave		0.8800				3.0		20.0			0.9900
DCB Decachlorobiphenyl	0.7610	0.6881	0.6904	0.6508	0.6853	Ave		0.6951				5.8		20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 11:50 Calibration End Date: 07/29/2017 13:25 Calibration ID: 63416

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/2	7R006190.D
Level 2	IC 460-452720/3	7R006191.D
Level 3	IC 460-452720/4	7R006192.D
Level 4	IC 460-452720/5	7R006193.D
Level 5	IC 460-452720/6	7R006194.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	2830	24860	49182	66792	105119	50.0	500	1000	1500	2500
PCB-1016 Peak 2	BNB	Ave	5102	50965	101100	137720	217261	50.0	500	1000	1500	2500
PCB-1016 Peak 3	BNB	Ave	11133	97204	189911	258161	408335	50.0	500	1000	1500	2500
PCB-1016 Peak 4	BNB	Ave	5558	45183	85823	116054	182475	50.0	500	1000	1500	2500
PCB-1016 Peak 5	BNB	Ave	3597	34049	67244	92488	147511	50.0	500	1000	1500	2500
PCB-1016 Peak 6	BNB	Ave	3888	33363	64137	86296	135236	50.0	500	1000	1500	2500
PCB-1016 Peak 7	BNB	Ave	3745	35095	68999	94624	152344	50.0	500	1000	1500	2500
PCB-1016 Peak 8	BNB	Ave	3165	34444	65470	88743	137569	50.0	500	1000	1500	2500
PCB-1260 Peak 1	BNB	Ave	3643	35218	68556	91923	147002	50.0	500	1000	1500	2500
PCB-1260 Peak 2	BNB	Ave	7774	72902	139866	189260	297645	50.0	500	1000	1500	2500
PCB-1260 Peak 3	BNB	Ave	8993	84827	165659	225287	356926	50.0	500	1000	1500	2500
PCB-1260 Peak 4	BNB	Ave	6017	59653	120217	167063	265770	50.0	500	1000	1500	2500
PCB-1260 Peak 5	BNB	Ave	5647	57873	117113	162721	260296	50.0	500	1000	1500	2500
PCB-1260 Peak 6	BNB	Ave	12401	118401	239825	329685	532186	50.0	500	1000	1500	2500
PCB-1260 Peak 7	BNB	Ave	8268	86025	175464	242316	390502	50.0	500	1000	1500	2500
PCB-1260 Peak 8	BNB	Ave	2826	29056	58895	82158	132875	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave	26040	103082	216225	310880	419548	12.5	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	22991	82400	164270	235252	316500	12.5	50.0	100	150	200

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006190.D
 Lims ID: IC PCB 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 29-Jul-2017 11:50:51 ALS Bottle#: 5 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:28:48 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 12:30:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene M
 1 3.523 3.523 0.000 48339 20.0 20.0 M
 2 2.917 2.913 0.004 25678 20.0 20.0
 RPD = 0.00
 \$ 2 Tetrachloro-m-xylene M
 1 5.367 5.367 0.000 26040 12.5 12.2
 2 4.330 4.327 0.003 14320 12.5 10.4 M
 RPD = 16.07

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.410	6.410	0.000	2830	50.0	57.7	M
1	7.197	7.197	0.000	5102	50.0	52.0	M
1	8.027	8.027	0.000	11133	50.0	58.3	M
1	8.273	8.273	0.000	5558	50.0	62.7	M
1	8.453	8.453	0.000	3597	50.0	54.1	M
1	9.107	9.107	0.000	3888	50.0	59.9	M
1	9.317	9.317	0.000	3745	50.0	54.6	M
1	9.837	9.833	0.004	3165	50.0	50.0	M

Average of Peak Amounts =

56.1

2	5.063	5.060	0.003	1943	50.0	55.3	M
2	5.720	5.717	0.003	3710	50.0	55.6	M
2	6.070	6.067	0.003	2234	50.0	54.2	M
2	6.537	6.537	0.000	6682	50.0	53.1	M
2	6.773	6.770	0.003	3029	50.0	55.3	M
2	6.873	6.873	0.000	1921	50.0	57.2	M
2	7.483	7.483	0.000	2628	50.0	49.4	
2	8.130	8.127	0.003	1867	50.0	58.4	M

Average of Peak Amounts =

54.8

RPD = 2.39

8 PCB-1260

							M
1	11.137	11.137	0.000	3643	50.0	54.1	M
1	11.503	11.500	0.003	7774	50.0	55.9	M
1	12.057	12.053	0.004	8993	50.0	54.9	
1	13.333	13.333	0.000	6017	50.0	51.4	M
1	14.093	14.093	0.000	5647	50.0	49.8	M
1	14.733	14.730	0.003	12401	50.0	52.8	
1	15.550	15.550	0.000	8268	50.0	49.1	M
1	16.533	16.533	0.000	2826	50.0	49.5	M

Average of Peak Amounts =

52.2

2	9.527	9.523	0.004	4363	50.0	54.3	M
2	10.447	10.447	0.000	6675	50.0	51.1	M
2	10.670	10.670	0.000	3329	50.0	52.5	M
2	11.157	11.153	0.004	3436	50.0	51.6	M
2	11.897	11.897	0.000	7447	50.0	49.4	M
2	12.650	12.650	0.000	3717	50.0	47.6	M
2	12.910	12.910	0.000	1791	50.0	46.1	M
2	14.327	14.323	0.004	1740	50.0	45.5	

Average of Peak Amounts =

49.8

RPD = 4.75

\$ 11 DCB Decachlorobiphenyl

							M
1	17.187	17.187	0.000	22991	12.5	13.7	
2	15.400	15.397	0.003	18920	12.5	12.6	M

RPD = 8.05

S 12 Polychlorinated biphenyls, Total

1						108.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660(LVI)L1_00011

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC PCB 1

Worklist Smp#: 2

Client ID:

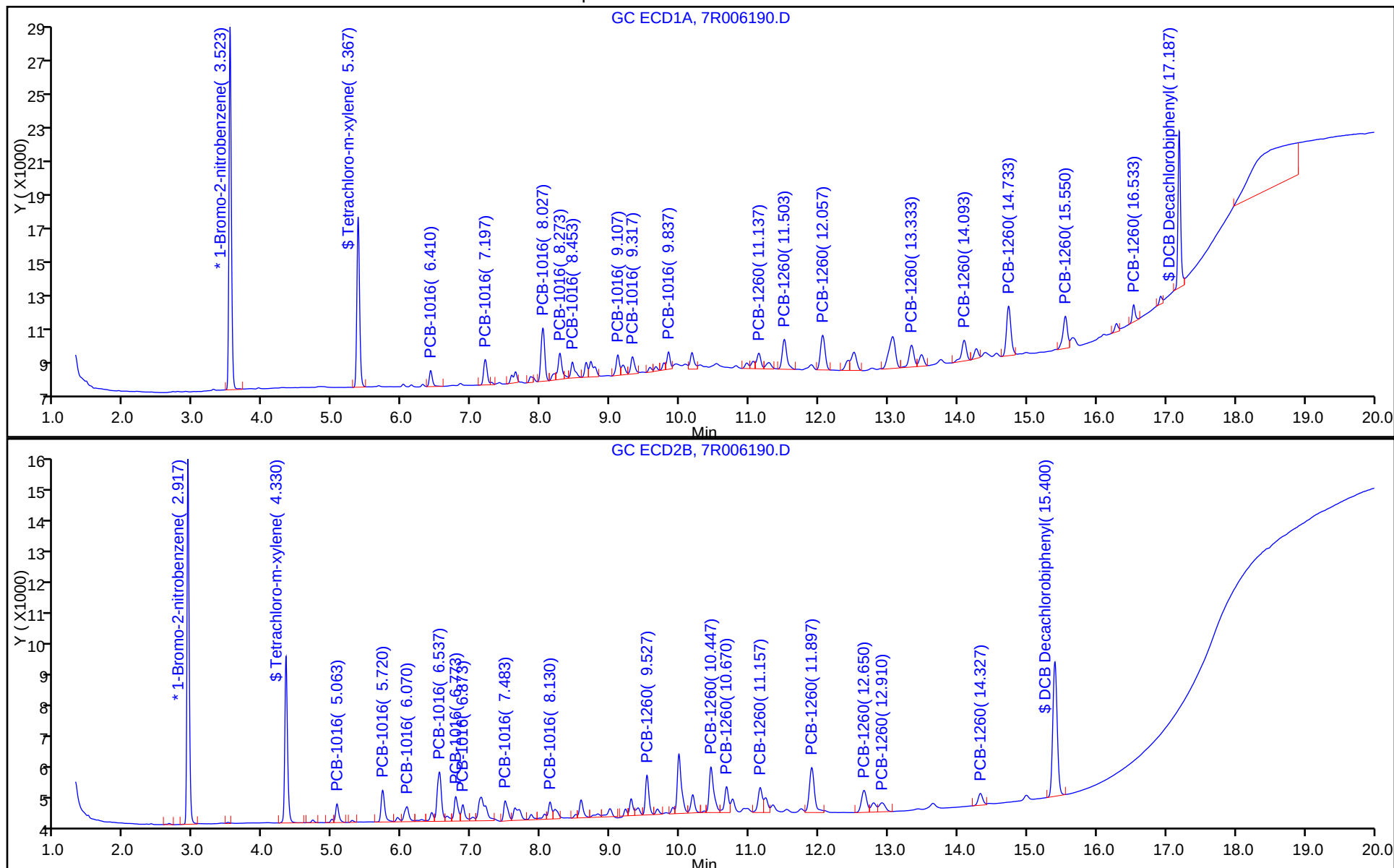
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

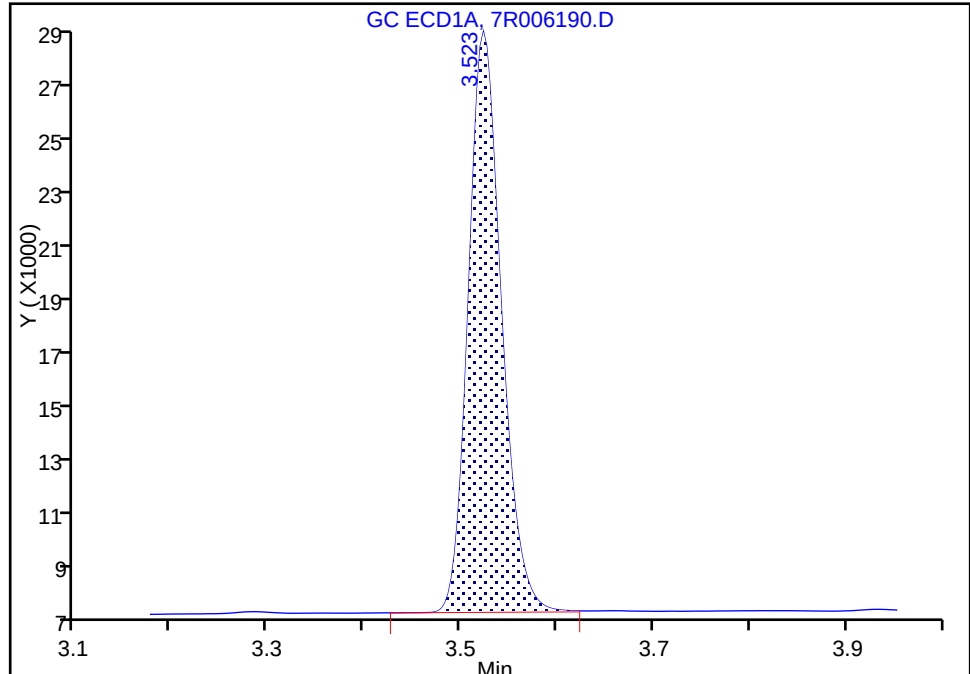
Detector GC ECD1A

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

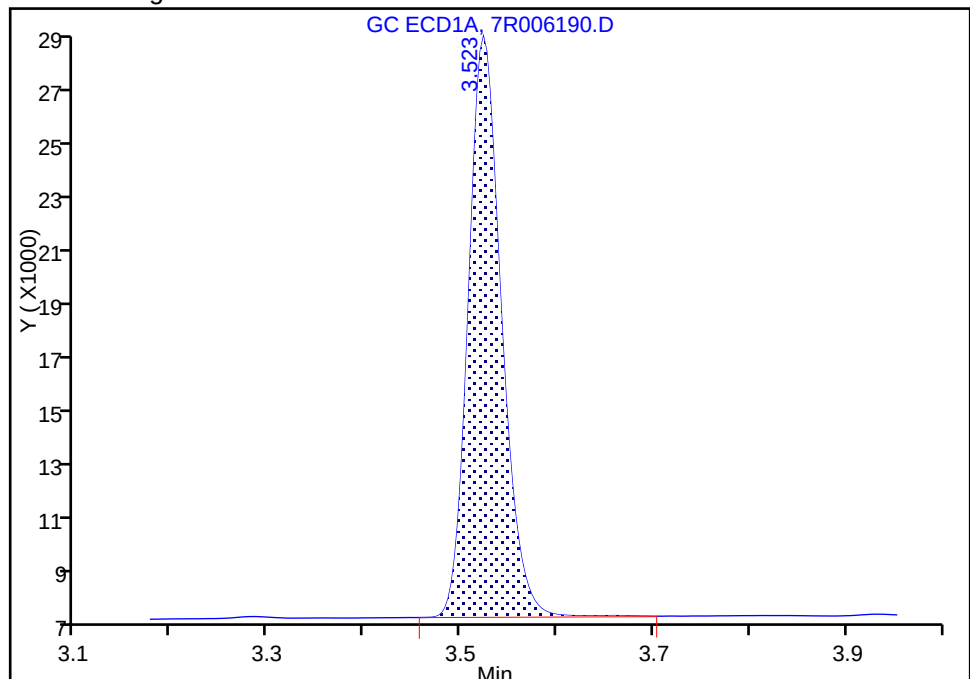
RT: 3.52
Area: 48136
Amount: 20.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.52
Area: 48339
Amount: 20.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:50:06

Audit Action: Manually Integrated

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

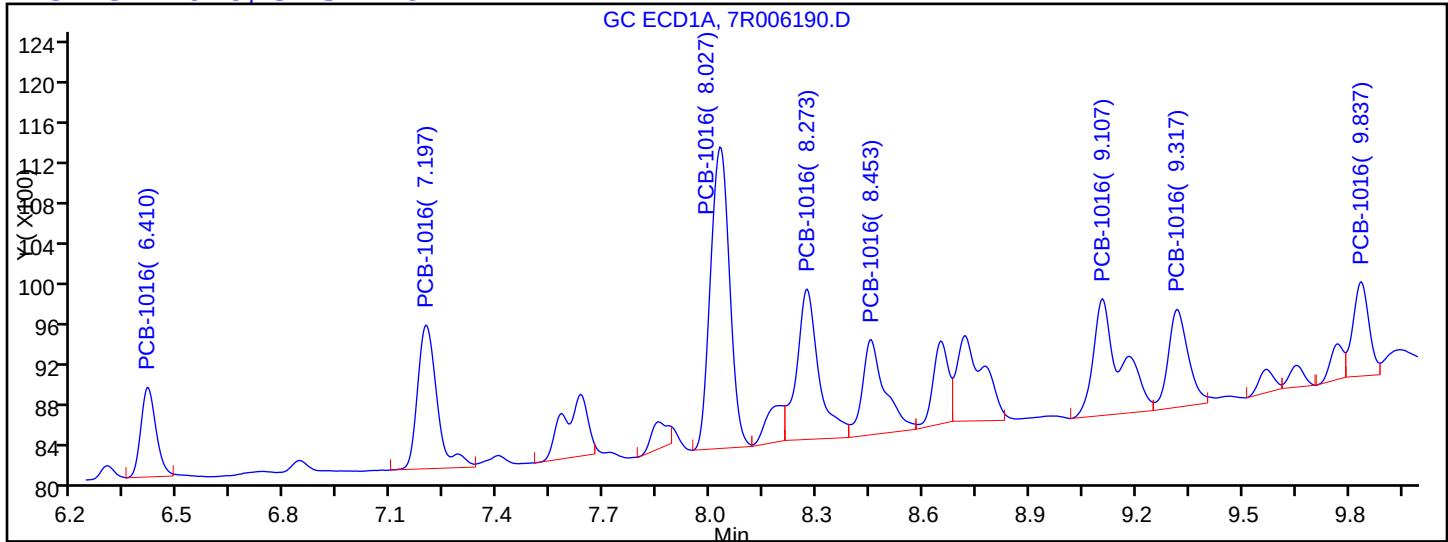
GC 8082A PCB ISTD

Column:

Detector

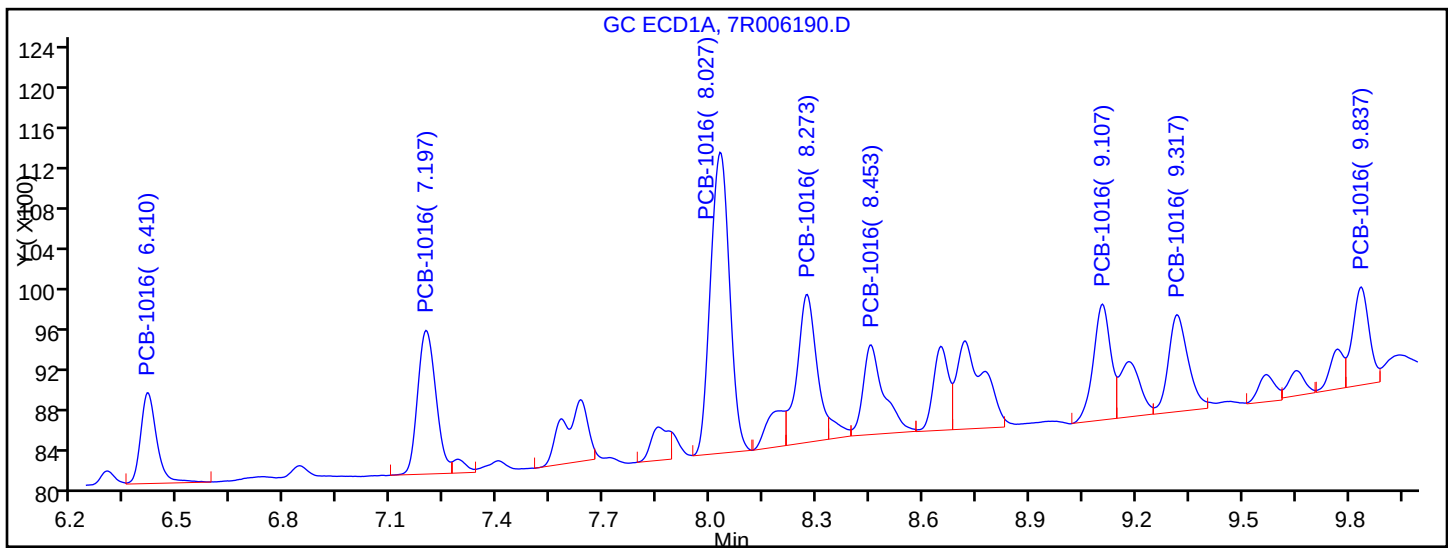
GC ECD1A

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



Processing Integration Results

6.410	Response = 2625
7.197	Response = 5449
8.027	Response = 11183
8.273	Response = 6426
8.453	Response = 4176
9.107	Response = 6206
9.317	Response = 3814
9.837	Response = 2962



Manual Integration Results

6.410	Response = 2830	M
7.197	Response = 5102	M
8.027	Response = 11133	M
8.273	Response = 5558	M
8.453	Response = 3597	M
9.107	Response = 3888	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

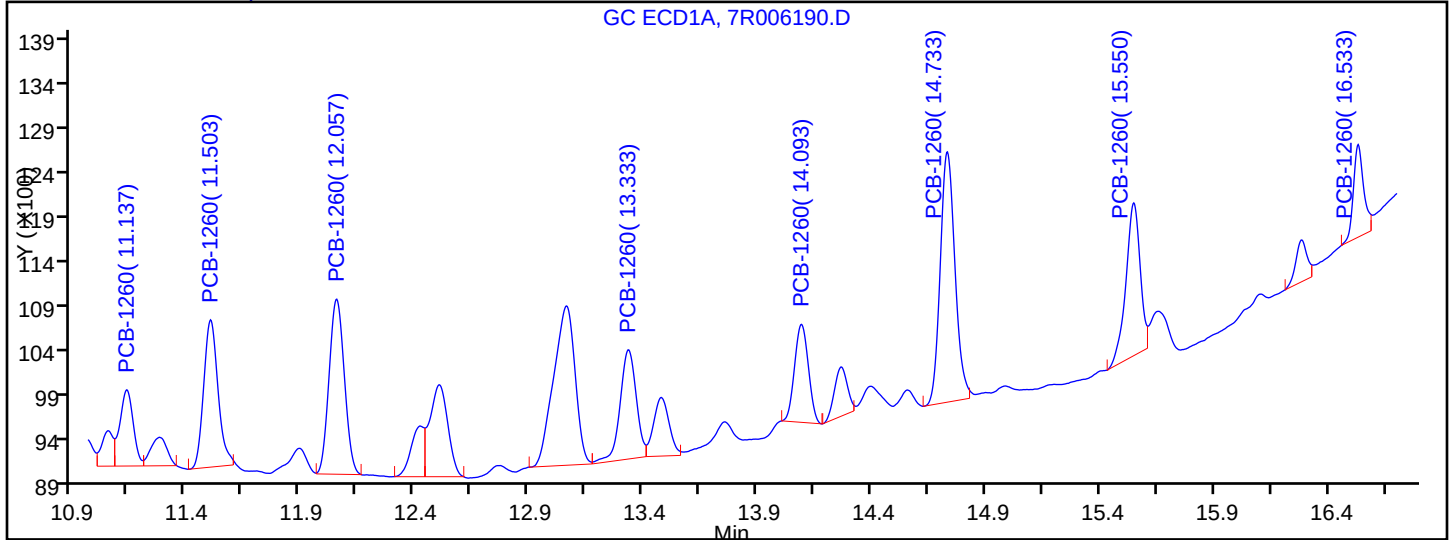
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

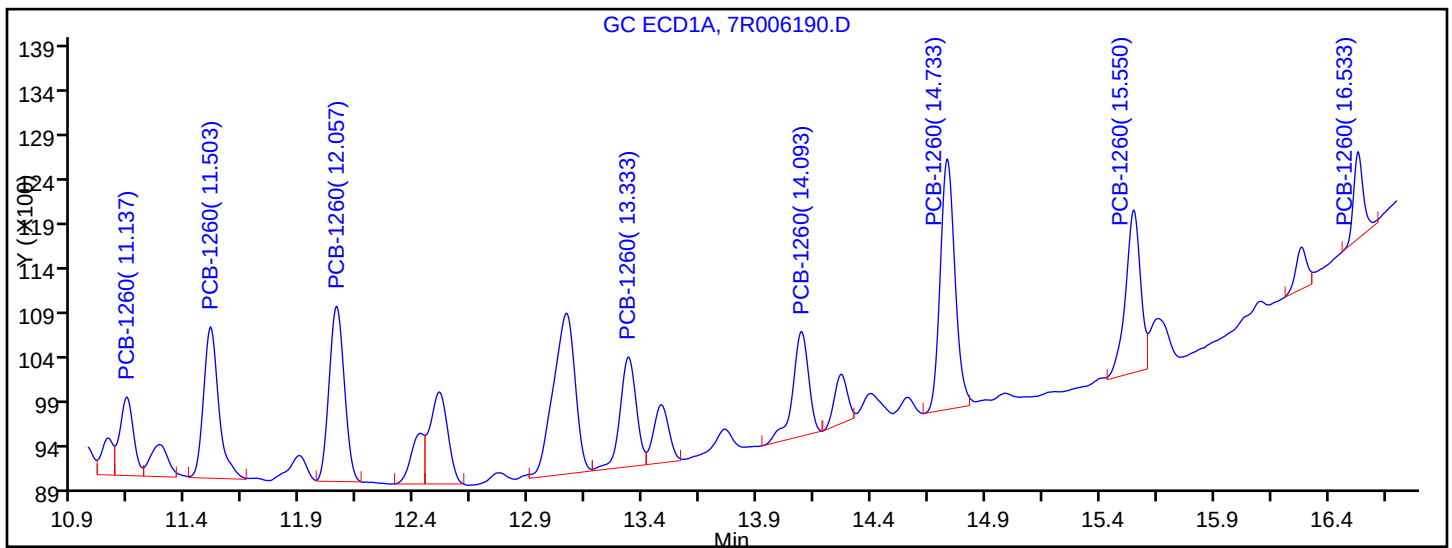
Detector GC ECD1A

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



Processing Integration Results

11.137	Response = 3445
11.503	Response = 7098
12.057	Response = 8993
13.333	Response = 5974
14.093	Response = 4557
14.733	Response = 12401
15.550	Response = 7345
16.533	Response = 3197



Manual Integration Results

11.137	Response = 3643	M
11.503	Response = 7774	M
12.057	Response = 8993	
13.333	Response = 6017	M
14.093	Response = 5647	M
14.733	Response = 12401	

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006191.D
 Lims ID: IC PCB 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 29-Jul-2017 12:14:30 ALS Bottle#: 6 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-003
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:28:52 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 12:42:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	47897	20.0	20.0	
2	2.917	2.913	0.004	25385	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.367	5.367	0.000	103082	50.0	48.9	
2	4.327	4.327	0.000	64763	50.0	47.7	
RPD = 2.56							

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006191.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.413	6.410	0.003	24860	500.0	511.2	M
1	7.197	7.197	0.000	50965	500.0	524.1	M
1	8.027	8.027	0.000	97204	500.0	513.4	M
1	8.273	8.273	0.000	45183	500.0	514.0	M
1	8.453	8.453	0.000	34049	500.0	516.6	M
1	9.107	9.107	0.000	33363	500.0	518.7	M
1	9.317	9.317	0.000	35095	500.0	516.5	M
1	9.833	9.833	0.000	34444	500.0	549.6	M

Average of Peak Amounts =

520.5

2	5.063	5.060	0.003	17474	500.0	503.3	
2	5.720	5.717	0.003	33513	500.0	508.4	
2	6.070	6.067	0.003	20098	500.0	492.9	
2	6.537	6.537	0.000	62300	500.0	501.1	M
2	6.770	6.770	0.000	26793	500.0	495.2	
2	6.873	6.873	0.000	15715	500.0	473.2	
2	7.483	7.483	0.000	26405	500.0	502.1	M
2	8.130	8.127	0.003	15860	500.0	501.9	M

Average of Peak Amounts =

497.3

RPD = 4.57

8 PCB-1260

							M
1	11.137	11.137	0.000	35218	500.0	528.0	M
1	11.500	11.500	0.000	72902	500.0	528.7	M
1	12.053	12.053	0.000	84827	500.0	522.4	M
1	13.333	13.333	0.000	59653	500.0	513.8	M
1	14.093	14.093	0.000	57873	500.0	515.5	M
1	14.730	14.730	0.000	118401	500.0	509.0	M
1	15.550	15.550	0.000	86025	500.0	515.1	
1	16.533	16.533	0.000	29056	500.0	513.4	

Average of Peak Amounts =

518.2

2	9.523	9.523	0.000	40799	500.0	513.7	M
2	10.447	10.447	0.000	64954	500.0	503.1	M
2	10.670	10.670	0.000	32441	500.0	517.5	M
2	11.153	11.153	0.000	33578	500.0	510.2	M
2	11.897	11.897	0.000	74513	500.0	499.8	M
2	12.650	12.650	0.000	37859	500.0	490.4	
2	12.910	12.910	0.000	19233	500.0	500.3	
2	14.327	14.323	0.004	18796	500.0	496.8	M

Average of Peak Amounts =

504.0

RPD = 2.79

\$ 11 DCB Decachlorobiphenyl

							M
1	17.187	17.187	0.000	82400	50.0	49.5	
2	15.397	15.397	0.000	72896	50.0	49.2	M

RPD = 0.59

S 12 Polychlorinated biphenyls, Total

1						1038.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L2_00024

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

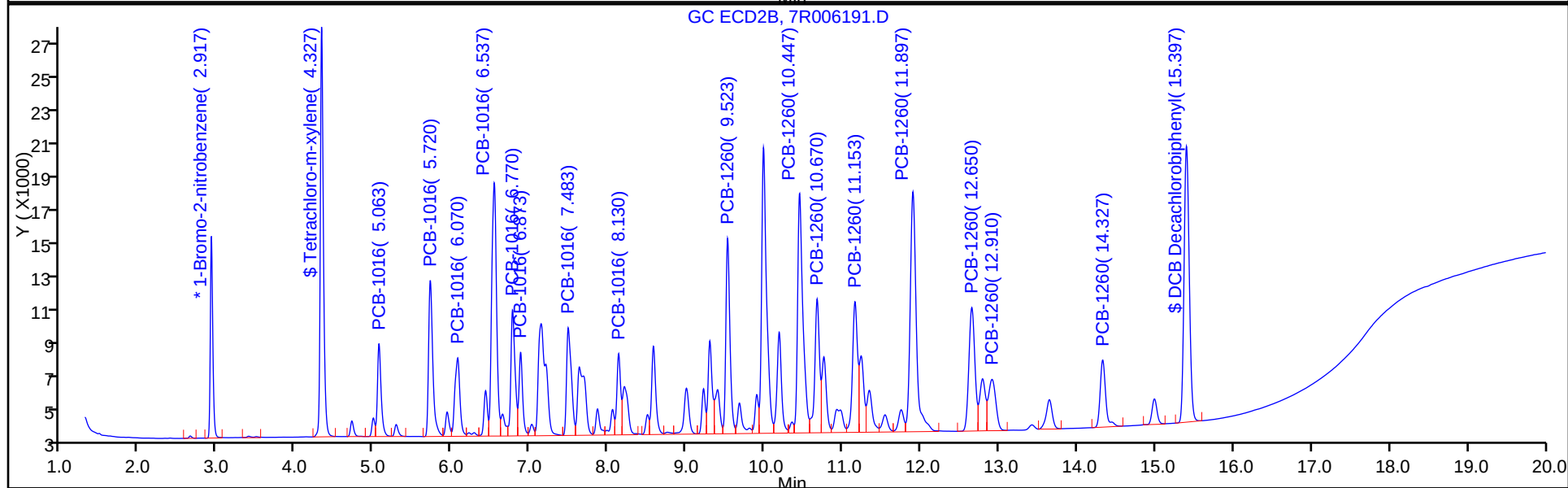
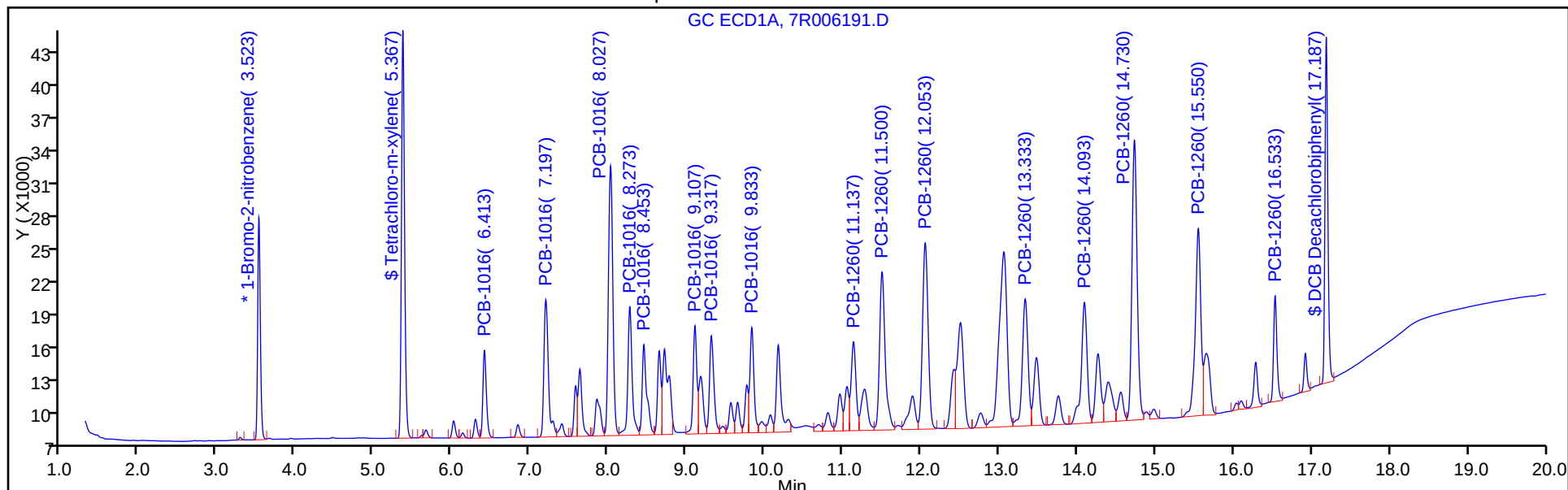
Operator ID:

Worklist Smp#: 3

Client ID:

ALS Bottle#: 6

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006191.D

Injection Date: 29-Jul-2017 12:14:30

Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#:

3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

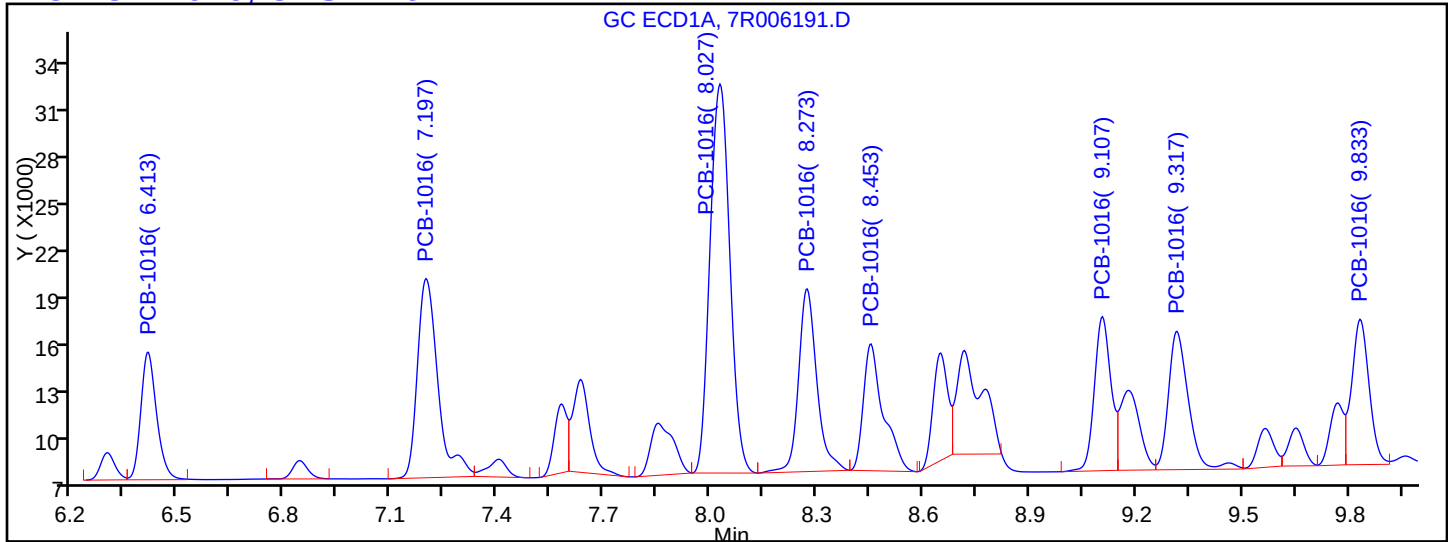
GC 8082A PCB ISTD

Column:

Detector

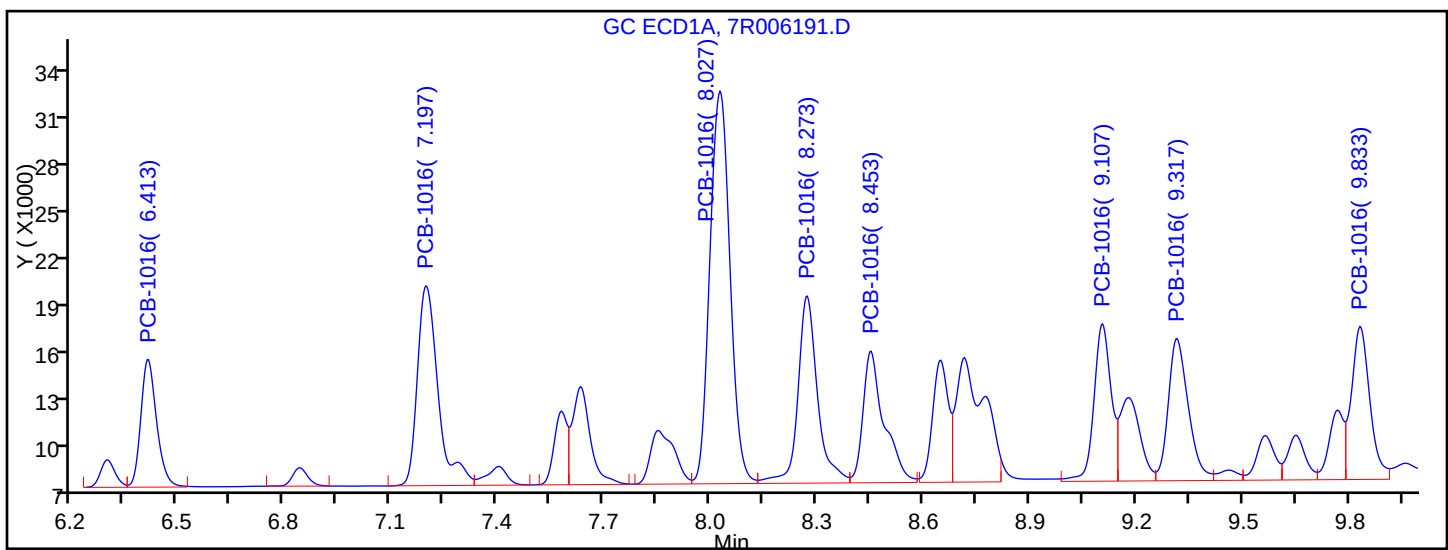
GC ECD1A

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



Processing Integration Results

6.413	Response = 24733
7.197	Response = 50220
8.027	Response = 94790
8.273	Response = 41002
8.453	Response = 30874
9.107	Response = 31524
9.317	Response = 33969
9.833	Response = 30892



Manual Integration Results

6.413	Response = 24860	M
7.197	Response = 50965	M
8.027	Response = 97204	M
8.273	Response = 45183	M
8.453	Response = 34049	M
9.107	Response = 33363	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006191.D

Injection Date: 29-Jul-2017 12:14:30

Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#:

3

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

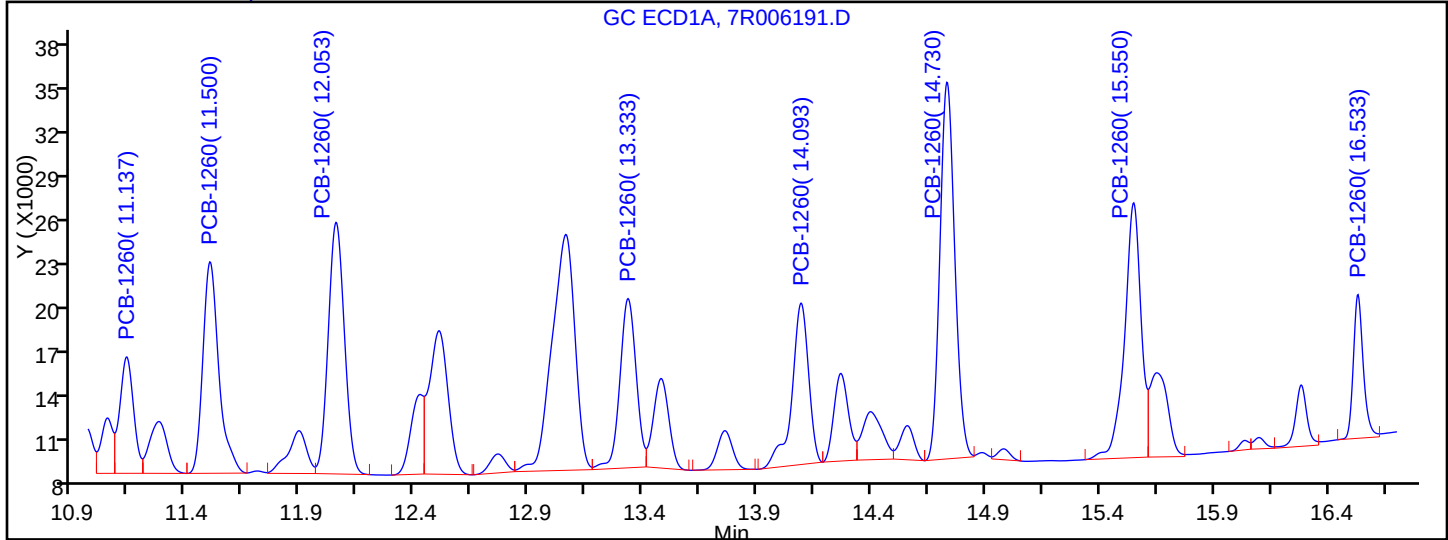
GC 8082A PCB ISTD

Column:

Detector

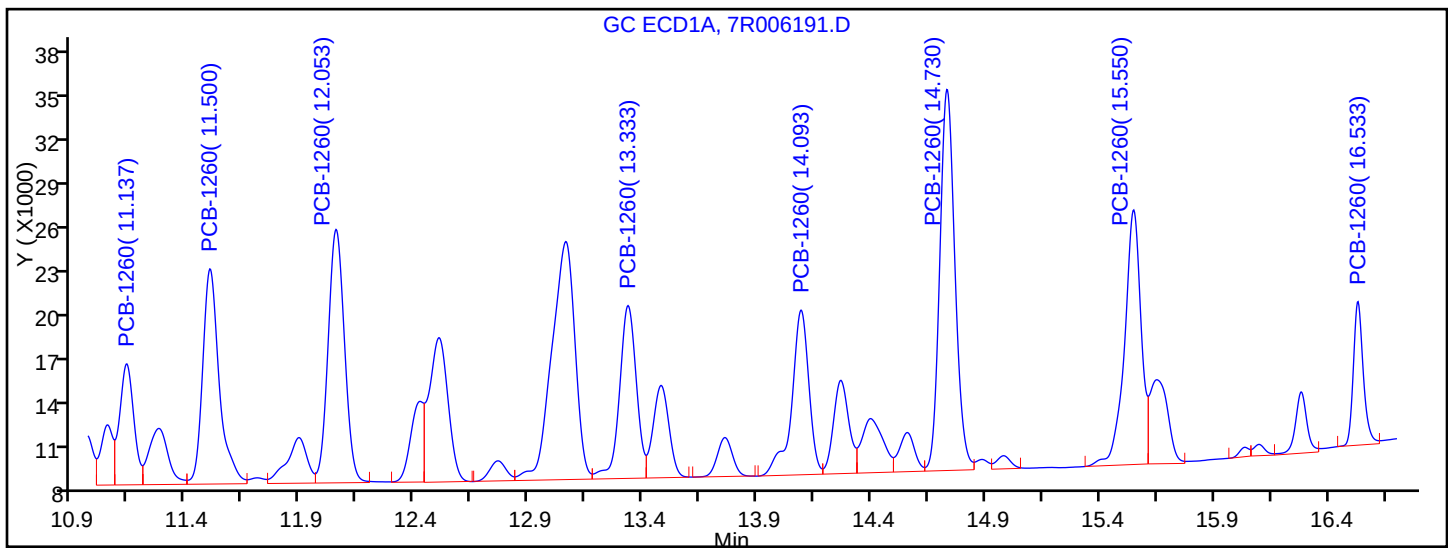
GC ECD1A

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



Processing Integration Results

11.137	Response = 32895
11.500	Response = 68763
12.053	Response = 83037
13.333	Response = 56373
14.093	Response = 54974
14.730	Response = 114176
15.550	Response = 86025
16.533	Response = 29056



Manual Integration Results

11.137	Response = 35218	M
11.500	Response = 72902	M
12.053	Response = 84827	M
13.333	Response = 59653	M
14.093	Response = 57873	M
14.730	Response = 118401	M

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006192.D
 Lims ID: IC PCB 3
 Client ID:
 Sample Type: ICRT Calib Level: 3
 Inject. Date: 29-Jul-2017 12:38:08 ALS Bottle#: 7 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-004
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:28:56 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 13:06:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.527	3.527	0.000	47588	20.0	20.0	
2	2.917	2.917	0.000	25317	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.367	5.367	0.000	216225	100.0	103.3	M
2	4.327	4.327	0.000	144945	100.0	107.0	M
RPD = 3.54							

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006192.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.410	6.410	0.000	49182	1000.0	1017.9	M
1	7.197	7.197	0.000	101100	1000.0	1046.5	
1	8.027	8.027	0.000	189911	1000.0	1009.6	M
1	8.273	8.273	0.000	85823	1000.0	982.8	M
1	8.453	8.453	0.000	67244	1000.0	1026.9	M
1	9.107	9.107	0.000	64137	1000.0	1003.6	M
1	9.317	9.317	0.000	68999	1000.0	1022.0	M
1	9.833	9.833	0.000	65470	1000.0	1051.4	M

Average of Peak Amounts =

1020.1

2	5.060	5.060	0.000	35733	1000.0	1032.1	M
2	5.717	5.717	0.000	67552	1000.0	1027.6	M
2	6.067	6.067	0.000	41762	1000.0	1026.9	M
2	6.537	6.537	0.000	128657	1000.0	1037.6	M
2	6.770	6.770	0.000	54968	1000.0	1018.6	M
2	6.873	6.873	0.000	33112	1000.0	999.6	M
2	7.483	7.483	0.000	55389	1000.0	1056.2	M
2	8.127	8.127	0.000	31581	1000.0	1002.1	M

Average of Peak Amounts =

1025.1

RPD = 0.49

8 PCB-1260

							M
1	11.137	11.137	0.000	68556	1000.0	1034.4	M
1	11.500	11.500	0.000	139866	1000.0	1020.8	M
1	12.053	12.053	0.000	165659	1000.0	1026.8	M
1	13.333	13.333	0.000	120217	1000.0	1042.2	
1	14.093	14.093	0.000	117113	1000.0	1050.0	
1	14.730	14.730	0.000	239825	1000.0	1037.6	
1	15.550	15.550	0.000	175464	1000.0	1057.4	
1	16.533	16.533	0.000	58895	1000.0	1047.5	M

Average of Peak Amounts =

1039.6

2	9.523	9.523	0.000	81890	1000.0	1033.8	M
2	10.447	10.447	0.000	135050	1000.0	1048.8	M
2	10.670	10.670	0.000	64544	1000.0	1032.3	M
2	11.153	11.153	0.000	68050	1000.0	1036.8	M
2	11.897	11.897	0.000	156931	1000.0	1055.4	M
2	12.650	12.650	0.000	81518	1000.0	1058.7	
2	12.910	12.910	0.000	41045	1000.0	1070.5	
2	14.323	14.323	0.000	40333	1000.0	1068.9	M

Average of Peak Amounts =

1050.7

RPD = 1.06

\$ 11 DCB Decachlorobiphenyl

							M
1	17.187	17.187	0.000	164270	100.0	99.3	M
2	15.397	15.397	0.000	151425	100.0	102.5	M

RPD = 3.14

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L3_00030	Amount Added: 1.00	Units: mL	
SG1260ResPCB_00001	Amount Added: 1.00	Units: ml	
SGPCBISTD_00008	Amount Added: 20.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC PCB 3

Worklist Smp#: 4

Client ID:

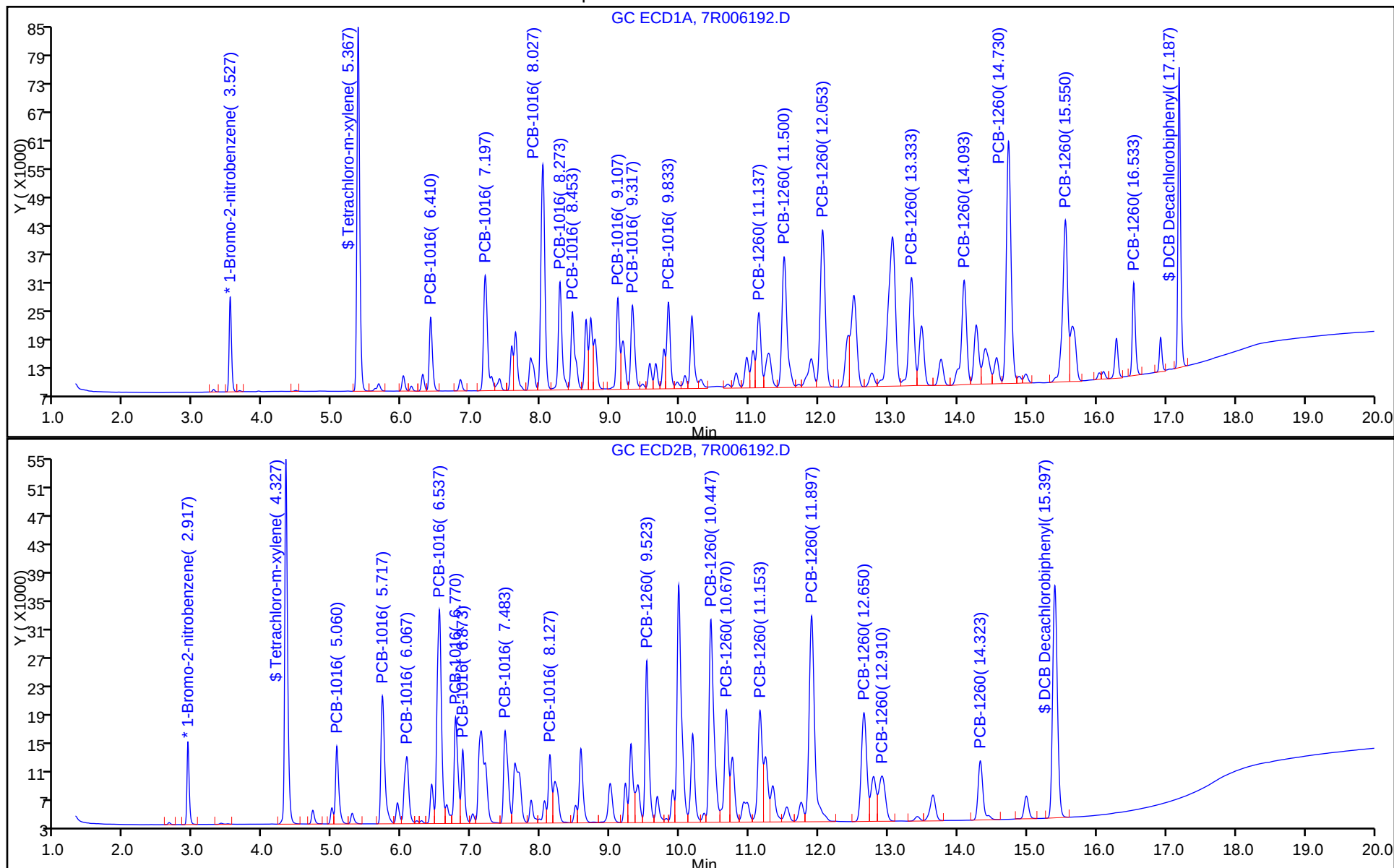
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

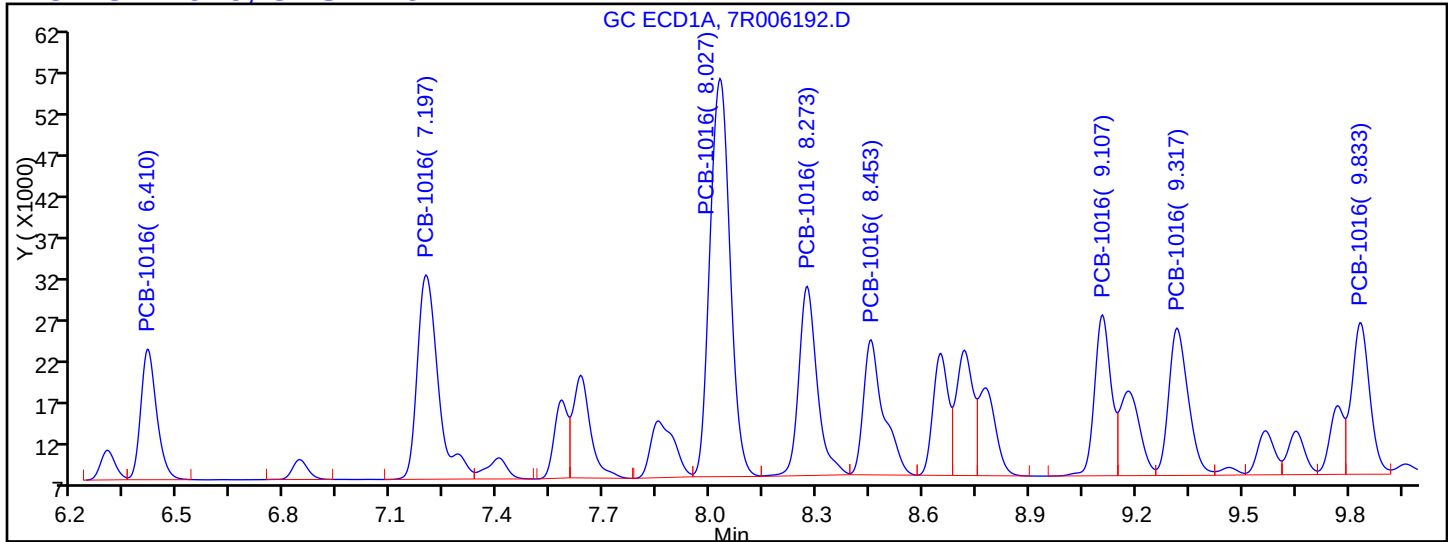
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

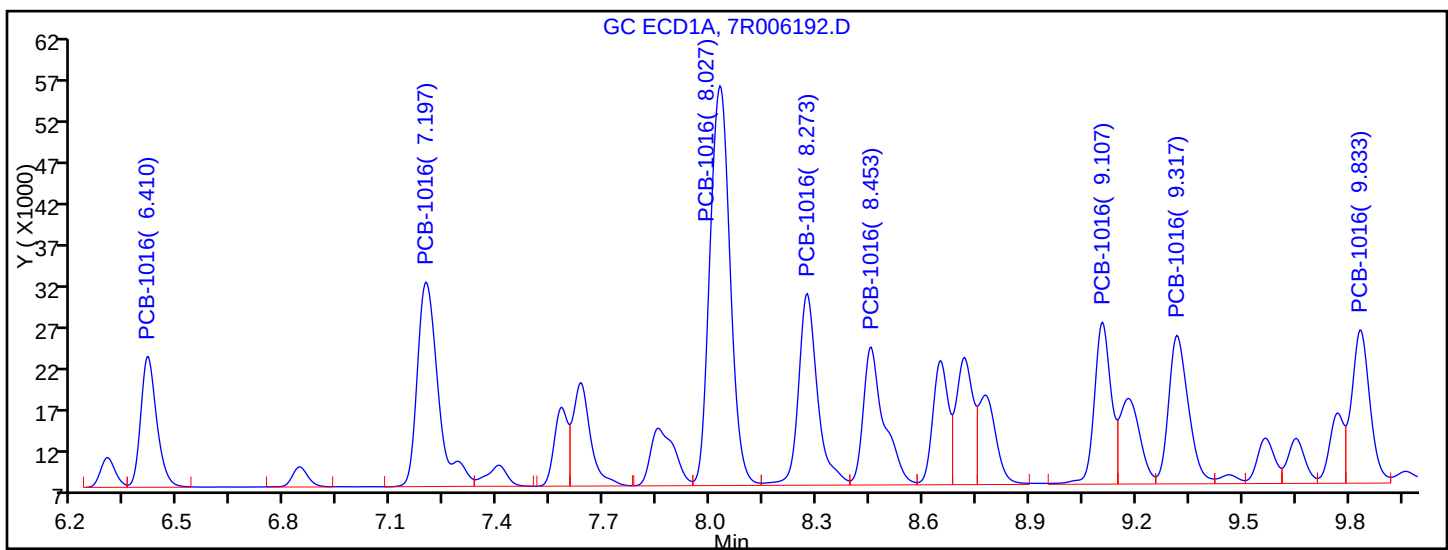
Detector GC ECD1A

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



Processing Integration Results

6.410	Response = 48852
7.197	Response = 101100
8.027	Response = 187660
8.273	Response = 81578
8.453	Response = 63567
9.107	Response = 62674
9.317	Response = 67689
9.833	Response = 64003



Manual Integration Results

6.410	Response = 49182	M
7.197	Response = 101100	
8.027	Response = 189911	M
8.273	Response = 85823	M
8.453	Response = 67244	M
9.107	Response = 64137	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

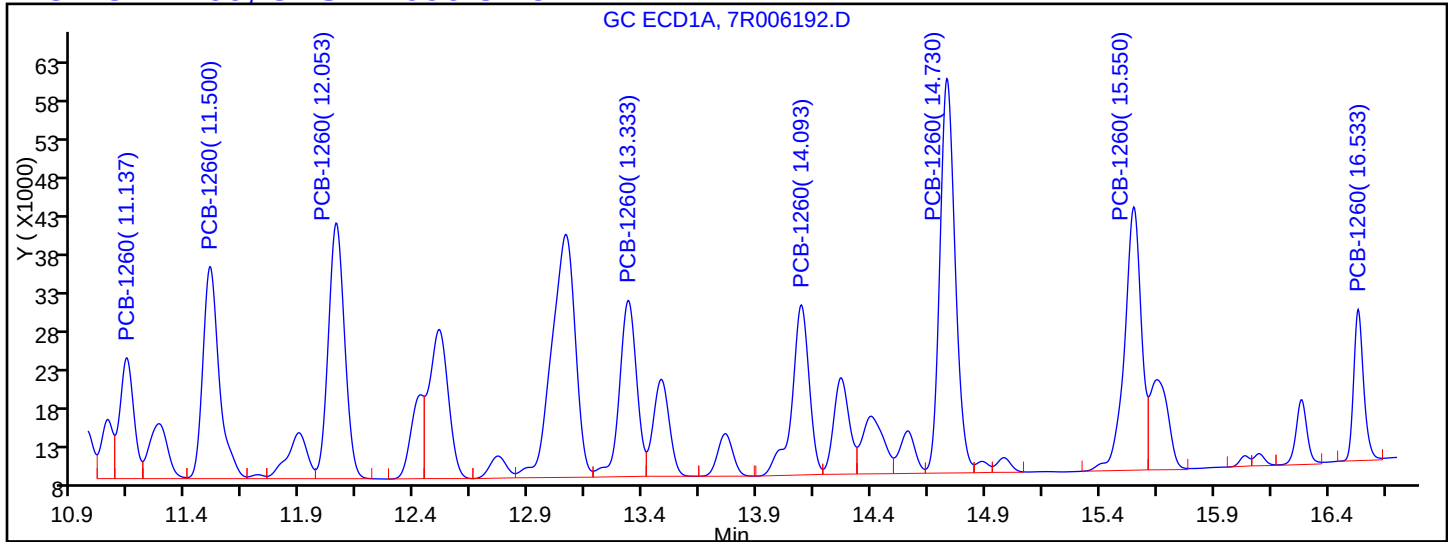
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

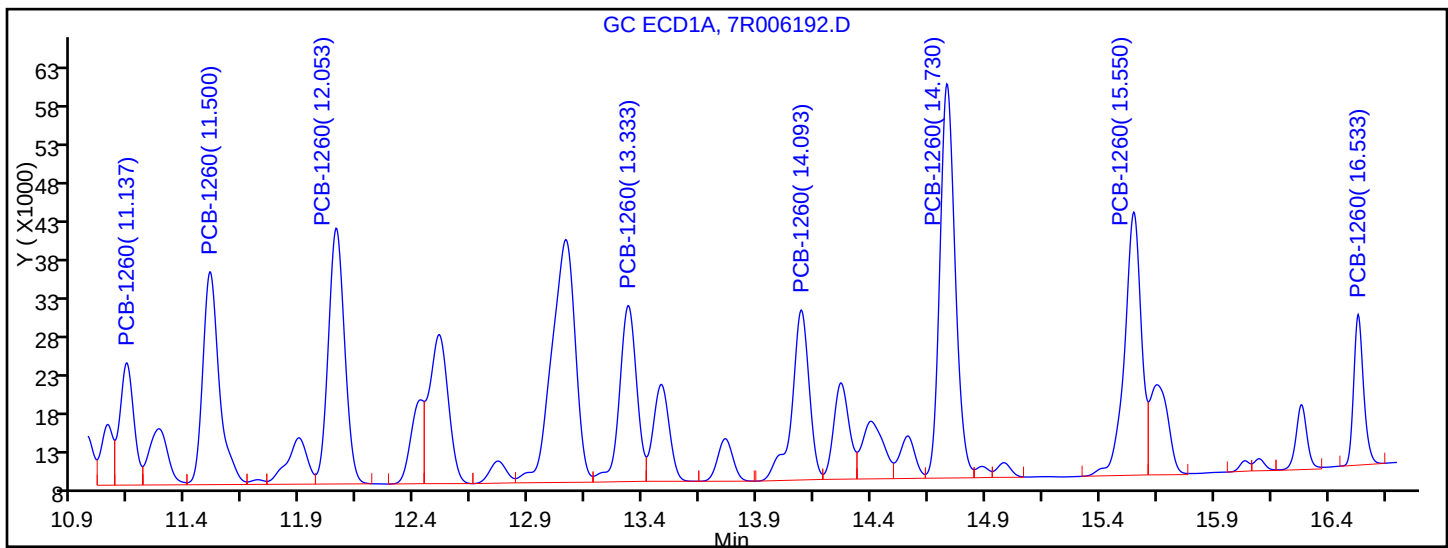
Detector GC ECD1A

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



Processing Integration Results

11.137	Response = 67183
11.500	Response = 137939
12.053	Response = 165215
13.333	Response = 120217
14.093	Response = 117113
14.730	Response = 239825
15.550	Response = 175464
16.533	Response = 59809



Manual Integration Results

11.137	Response = 68556	M
11.500	Response = 139866	M
12.053	Response = 165659	M
13.333	Response = 120217	
14.093	Response = 117113	
14.730	Response = 239825	

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

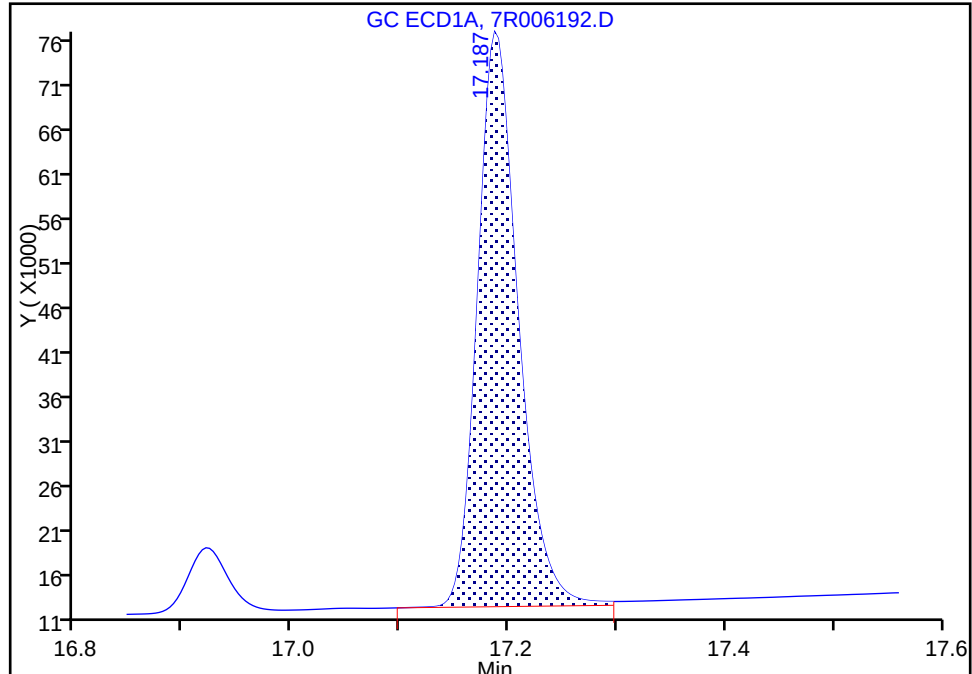
Detector GC ECD1A

\$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 1

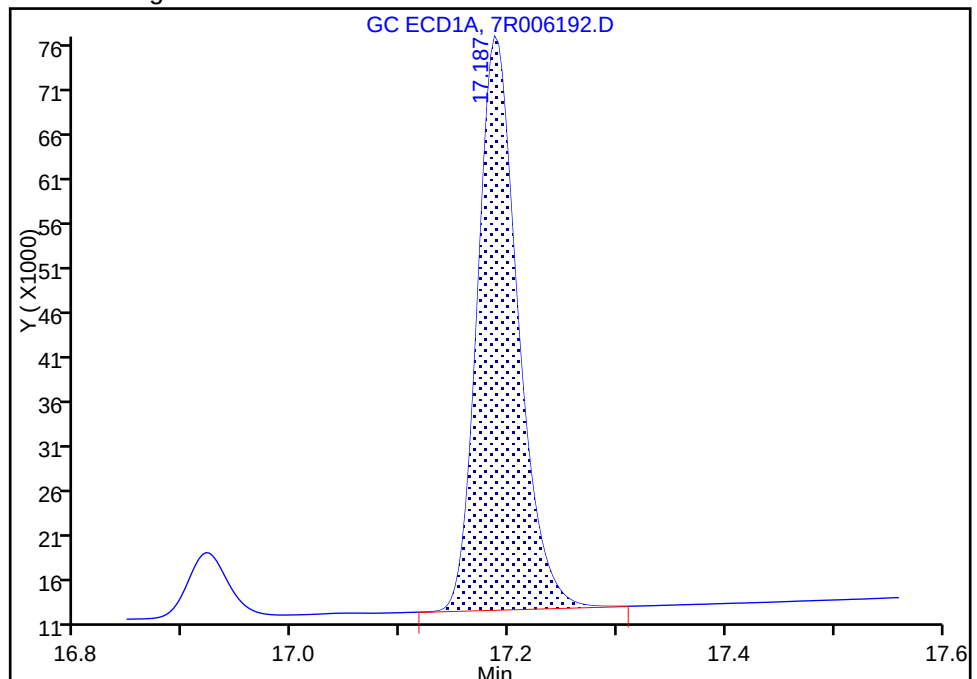
RT: 17.19
Area: 166200
Amount: 97.426406
Amount Units: ug/l

Processing Integration Results



RT: 17.19
Area: 164270
Amount: 99.316298
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:16:52

Audit Action: Manually Integrated

Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006193.D
 Lims ID: IC PCB 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 29-Jul-2017 13:01:42 ALS Bottle#: 8 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-005
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:00 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 13:46:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.527	-0.004	48194	20.0	20.0
2	2.917	2.917	0.000	25756	20.0	20.0

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

M

1	5.367	5.367	0.000	310880	150.0	146.6	M
2	4.327	4.327	0.000	213680	150.0	155.0	M

RPD = 5.59

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.410	6.410	0.000	66792	1500.0	1364.9	M
1	7.197	7.197	0.000	137720	1500.0	1407.6	M
1	8.027	8.027	0.000	258161	1500.0	1355.2	M
1	8.270	8.273	-0.003	116054	1500.0	1312.2	M
1	8.450	8.453	-0.003	92488	1500.0	1394.7	M
1	9.103	9.107	-0.004	86296	1500.0	1333.4	M
1	9.317	9.317	0.000	94624	1500.0	1384.0	M
1	9.833	9.833	0.000	88743	1500.0	1407.2	M

Average of Peak Amounts = 1369.9

2	5.060	5.060	0.000	49118	1500.0	1394.5	M
2	5.717	5.717	0.000	92641	1500.0	1385.2	M
2	6.067	6.067	0.000	58480	1500.0	1413.5	M
2	6.537	6.537	0.000	178511	1500.0	1415.1	M
2	6.770	6.770	0.000	76420	1500.0	1392.0	M
2	6.873	6.873	0.000	46724	1500.0	1386.5	M
2	7.483	7.483	0.000	76899	1500.0	1441.3	M
2	8.127	8.127	0.000	43721	1500.0	1363.7	M

Average of Peak Amounts = 1399.0

RPD = 2.10

8 PCB-1260

							M
1	11.133	11.137	-0.004	91923	1500.0	1369.6	M
1	11.500	11.500	0.000	189260	1500.0	1364.0	M
1	12.053	12.053	0.000	225287	1500.0	1378.8	M
1	13.333	13.333	0.000	167063	1500.0	1430.1	M
1	14.090	14.093	-0.003	162721	1500.0	1440.5	M
1	14.730	14.730	0.000	329685	1500.0	1408.5	
1	15.547	15.550	-0.003	242316	1500.0	1442.0	
1	16.533	16.533	0.000	82158	1500.0	1442.9	

Average of Peak Amounts = 1409.5

2	9.520	9.523	-0.003	111902	1500.0	1388.6	M
2	10.443	10.447	-0.004	186860	1500.0	1426.4	M
2	10.667	10.670	-0.003	89849	1500.0	1412.6	M
2	11.150	11.153	-0.003	95164	1500.0	1425.2	M
2	11.893	11.897	-0.004	218709	1500.0	1445.7	M
2	12.647	12.650	-0.003	115601	1500.0	1475.8	
2	12.907	12.910	-0.003	57128	1500.0	1464.6	
2	14.323	14.323	0.000	57238	1500.0	1491.0	

Average of Peak Amounts = 1441.2

RPD = 2.22

\$ 11 DCB Decachlorobiphenyl

1	17.187	17.187	0.000	235252	150.0	140.4	
2	15.397	15.397	0.000	218632	150.0	145.5	

RPD = 3.51

S 12 Polychlorinated biphenyls, Total

1						2779.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L4_00023

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Injection Date: 29-Jul-2017 13:01:42

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC PCB 4

Worklist Smp#: 5

Client ID:

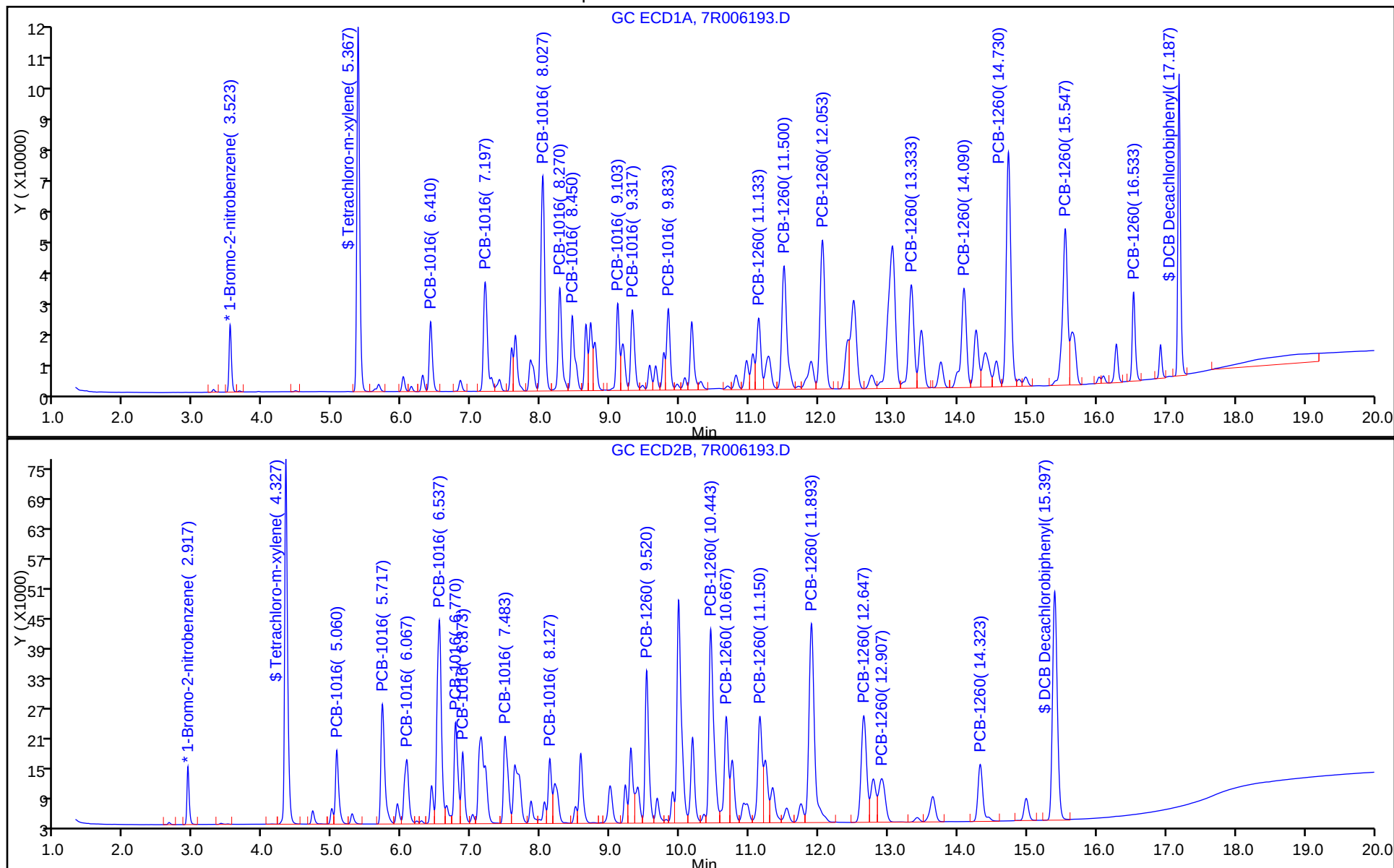
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006193.D

Injection Date: 29-Jul-2017 13:01:42

Instrument ID: CPESTGC7

Lims ID: IC PCB 4

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

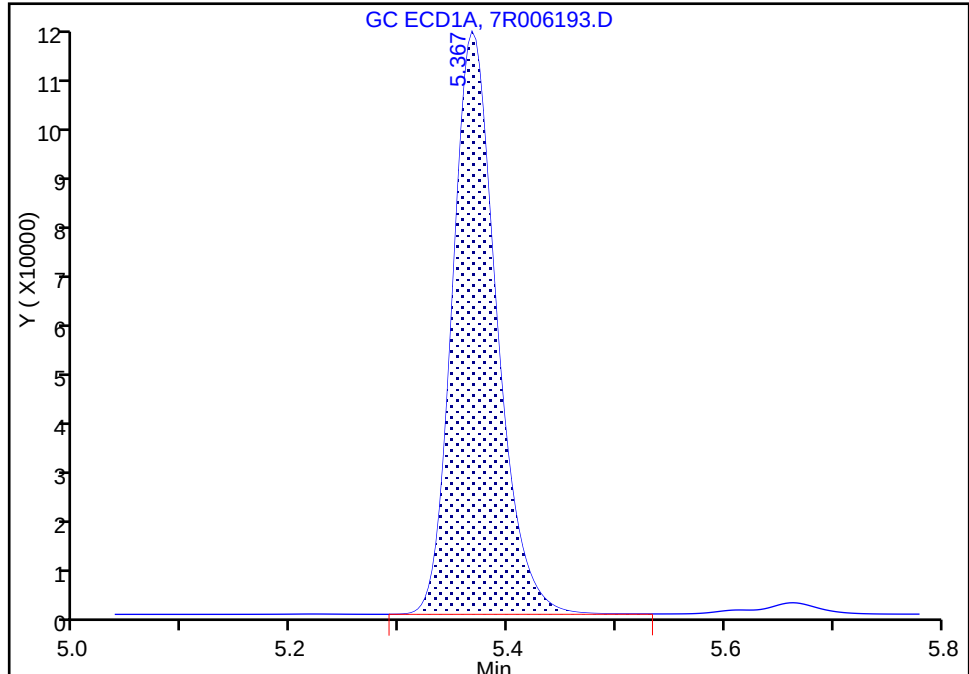
Detector GC ECD1A

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

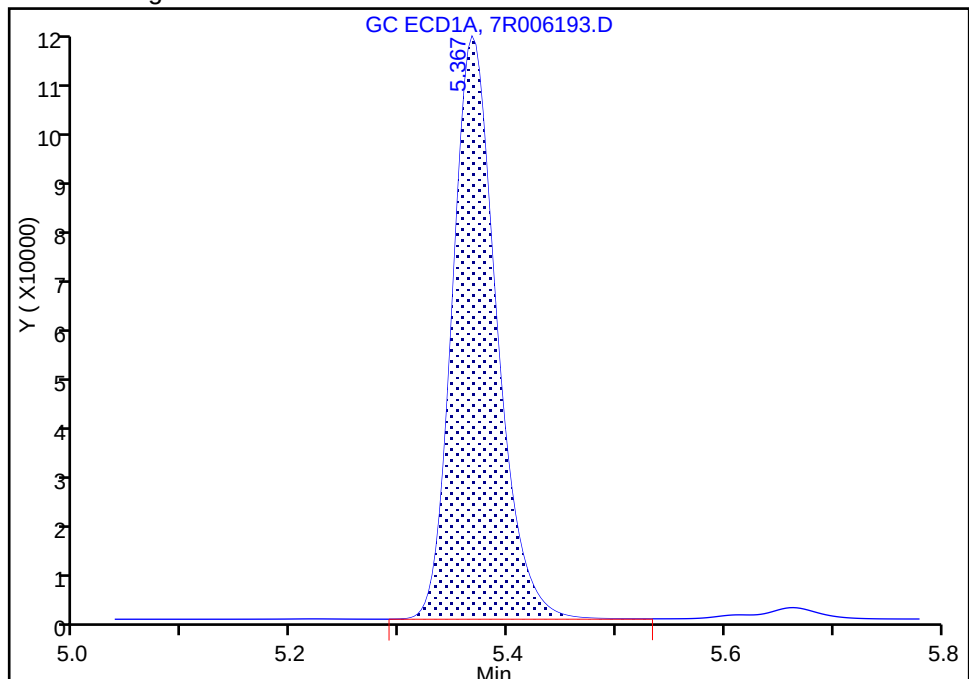
RT: 5.37
Area: 310785
Amount: 147.6094
Amount Units: ug/l

Processing Integration Results



RT: 5.37
Area: 310880
Amount: 146.6031
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:45:53

Audit Action: Assigned New Baseline

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Injection Date: 29-Jul-2017 13:01:42

Instrument ID: CPESTGC7

Lims ID: IC PCB 4

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

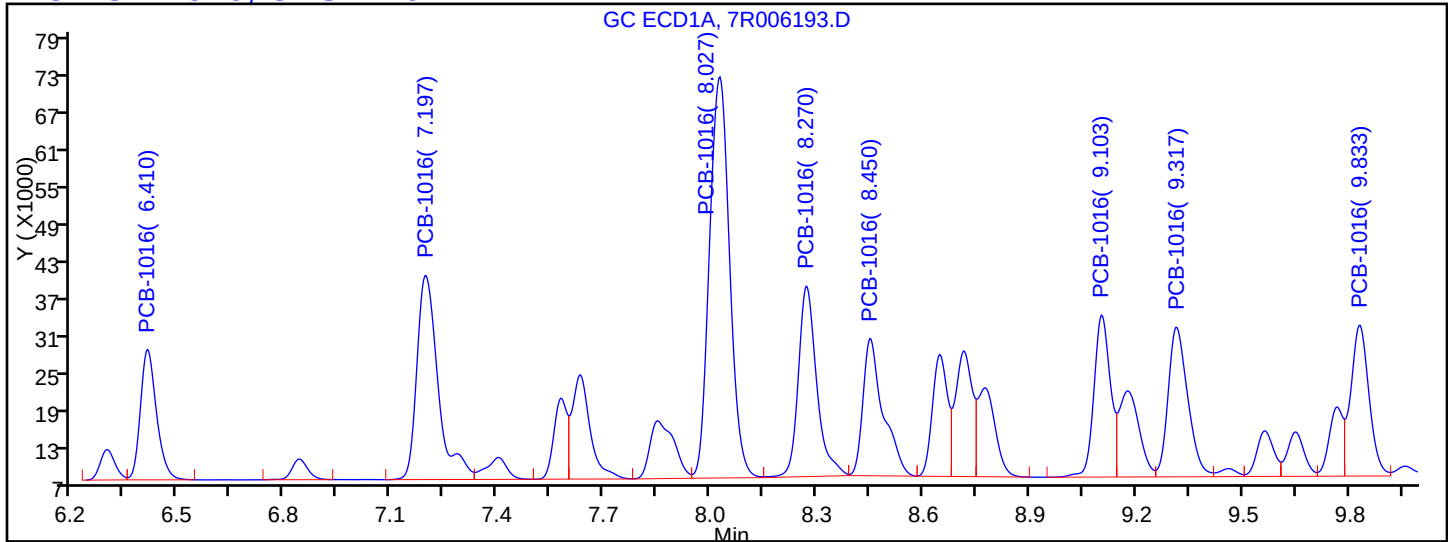
GC 8082A PCB ISTD

Column:

Detector

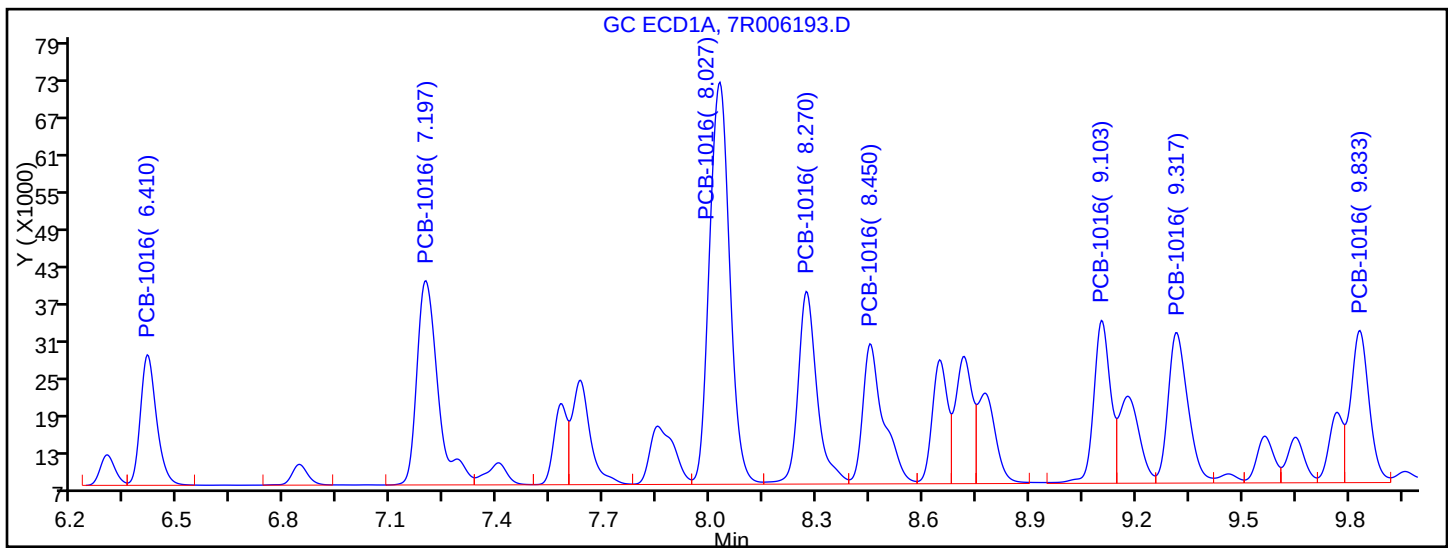
GC ECD1A

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



Processing Integration Results

6.410	Response = 66530
7.197	Response = 137653
8.027	Response = 256129
8.270	Response = 111101
8.450	Response = 87506
9.103	Response = 84561
9.317	Response = 93149
9.833	Response = 87179



Manual Integration Results

6.410	Response = 66792	M
7.197	Response = 137720	M
8.027	Response = 258161	M
8.270	Response = 116054	M
8.450	Response = 92488	M
9.103	Response = 86296	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Injection Date: 29-Jul-2017 13:01:42

Instrument ID: CPESTGC7

Lims ID: IC PCB 4

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

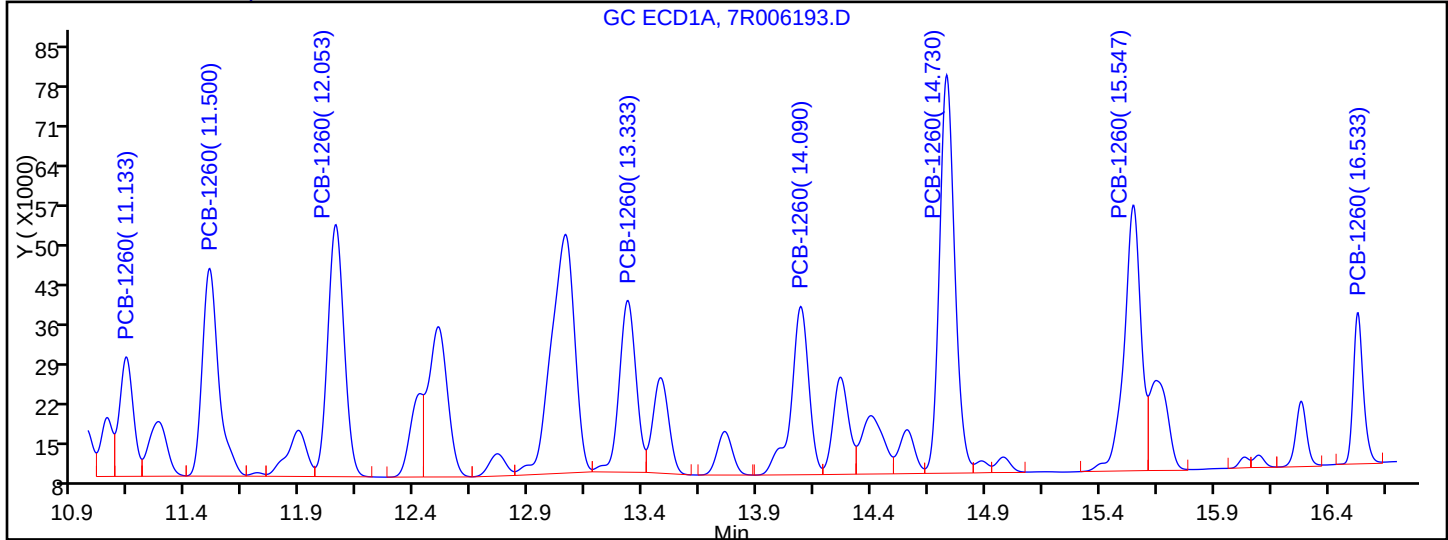
GC 8082A PCB ISTD

Column:

Detector

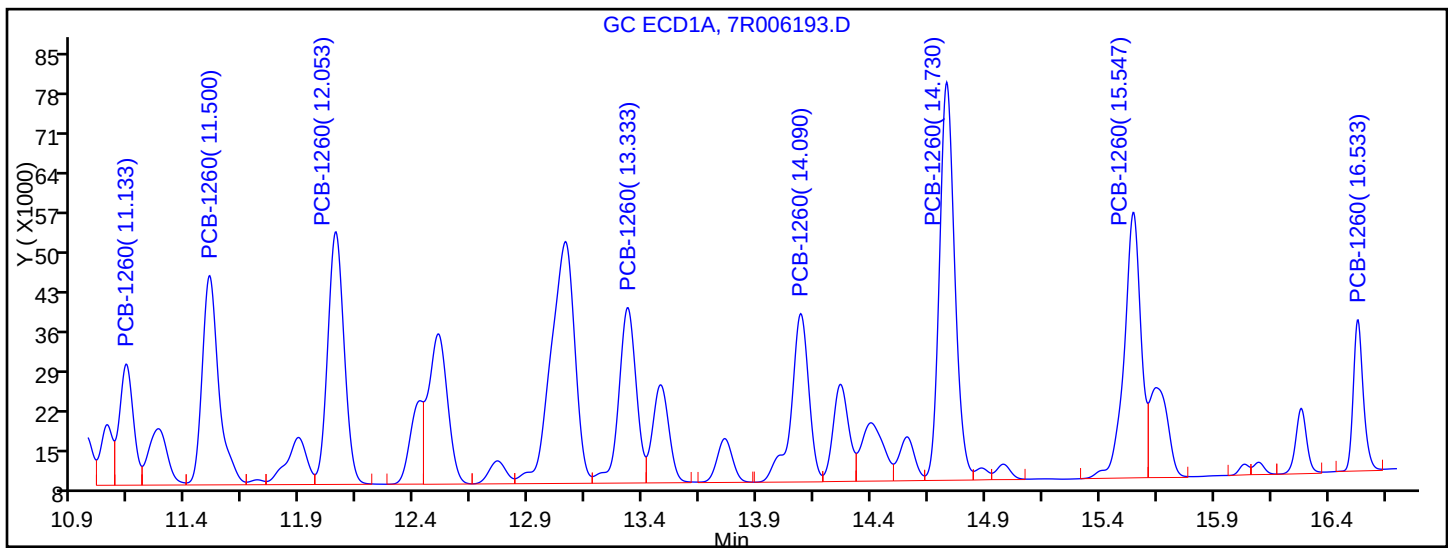
GC ECD1A

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



Processing Integration Results

11.133	Response = 89691
11.500	Response = 184670
12.053	Response = 223667
13.333	Response = 157265
14.090	Response = 162307
14.730	Response = 329685
15.547	Response = 242316
16.533	Response = 82158



Manual Integration Results

11.133	Response = 91923	M
11.500	Response = 189260	M
12.053	Response = 225287	M
13.333	Response = 167063	M
14.090	Response = 162721	M
14.730	Response = 329685	M

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006194.D
 Lims ID: IC PCB 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 29-Jul-2017 13:25:13 ALS Bottle#: 9 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-006
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:04 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 13:47:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.527	-0.004	46183	20.0	20.0
2	2.917	2.917	0.000	24781	20.0	20.0

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

M

1	5.367	5.367	0.000	419548	200.0	206.5	M
2	4.327	4.327	0.000	294184	200.0	221.8	M

RPD = 7.18

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.410	6.410	0.000	105119	2500.0	2241.7	M
1	7.197	7.197	0.000	217261	2500.0	2317.3	M
1	8.027	8.027	0.000	408335	2500.0	2236.9	M
1	8.270	8.273	-0.003	182475	2500.0	2153.1	M
1	8.450	8.453	-0.003	147511	2500.0	2321.2	M
1	9.107	9.107	0.000	135236	2500.0	2180.5	M
1	9.317	9.317	0.000	152344	2500.0	2325.2	M
1	9.833	9.833	0.000	137569	2500.0	2276.4	M

Average of Peak Amounts = 2256.6

2	5.060	5.060	0.000	78366	2500.0	2312.4	M
2	5.717	5.717	0.000	147880	2500.0	2298.2	M
2	6.067	6.067	0.000	95725	2500.0	2404.7	M
2	6.537	6.537	0.000	289515	2500.0	2385.4	M
2	6.770	6.770	0.000	126256	2500.0	2390.3	M
2	6.873	6.873	0.000	79928	2500.0	2465.2	M
2	7.480	7.483	-0.003	127126	2500.0	2476.5	M
2	8.127	8.127	0.000	70699	2500.0	2291.9	M

Average of Peak Amounts = 2378.1

RPD = 5.24

8 PCB-1260

							M
1	11.137	11.137	0.000	147002	2500.0	2285.6	M
1	11.500	11.500	0.000	297645	2500.0	2238.5	M
1	12.053	12.053	0.000	356926	2500.0	2279.6	M
1	13.333	13.333	0.000	265770	2500.0	2374.2	M
1	14.093	14.093	0.000	260296	2500.0	2404.7	
1	14.730	14.730	0.000	532186	2500.0	2372.6	
1	15.547	15.550	-0.003	390502	2500.0	2425.0	
1	16.533	16.533	0.000	132875	2500.0	2435.2	

Average of Peak Amounts = 2351.9

2	9.523	9.523	0.000	179666	2500.0	2317.3	M
2	10.443	10.447	-0.004	306239	2500.0	2429.7	M
2	10.670	10.670	0.000	143988	2500.0	2352.8	M
2	11.153	11.153	0.000	154223	2500.0	2400.6	M
2	11.897	11.897	0.000	361605	2500.0	2484.4	M
2	12.650	12.650	0.000	193098	2500.0	2562.1	
2	12.907	12.910	-0.003	96772	2500.0	2578.6	
2	14.323	14.323	0.000	95509	2500.0	2585.8	

Average of Peak Amounts = 2463.9

RPD = 4.65

\$ 11 DCB Decachlorobiphenyl

1	17.187	17.187	0.000	316500	200.0	197.2	
2	15.397	15.397	0.000	292484	200.0	202.2	

RPD = 2.54

S 12 Polychlorinated biphenyls, Total

1						4608.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L5_00023

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Injection Date: 29-Jul-2017 13:25:13

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC PCB 5

Worklist Smp#: 6

Client ID:

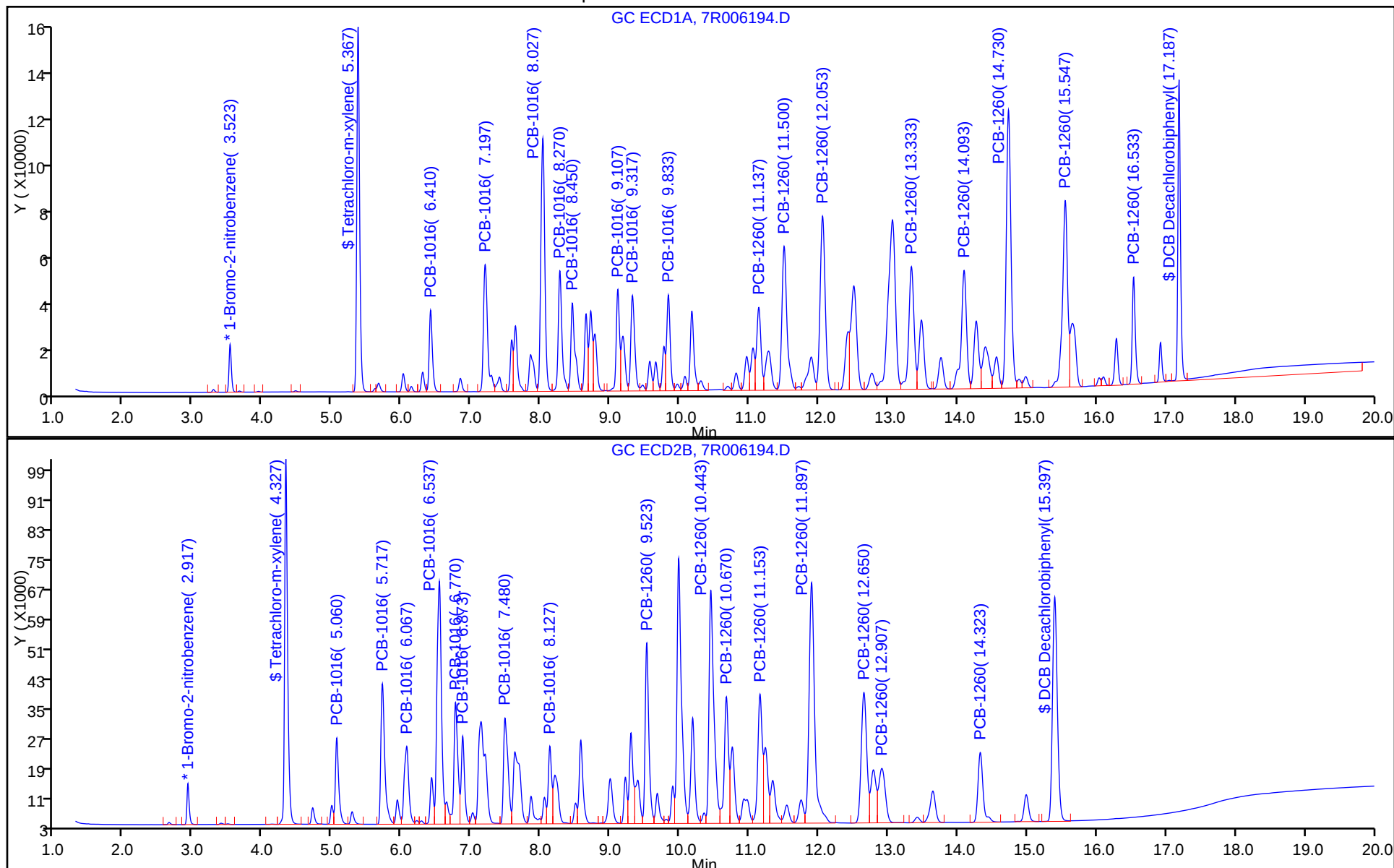
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Injection Date: 29-Jul-2017 13:25:13

Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

Operator ID:

ALS Bottle#:

9

Worklist Smp#:

6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

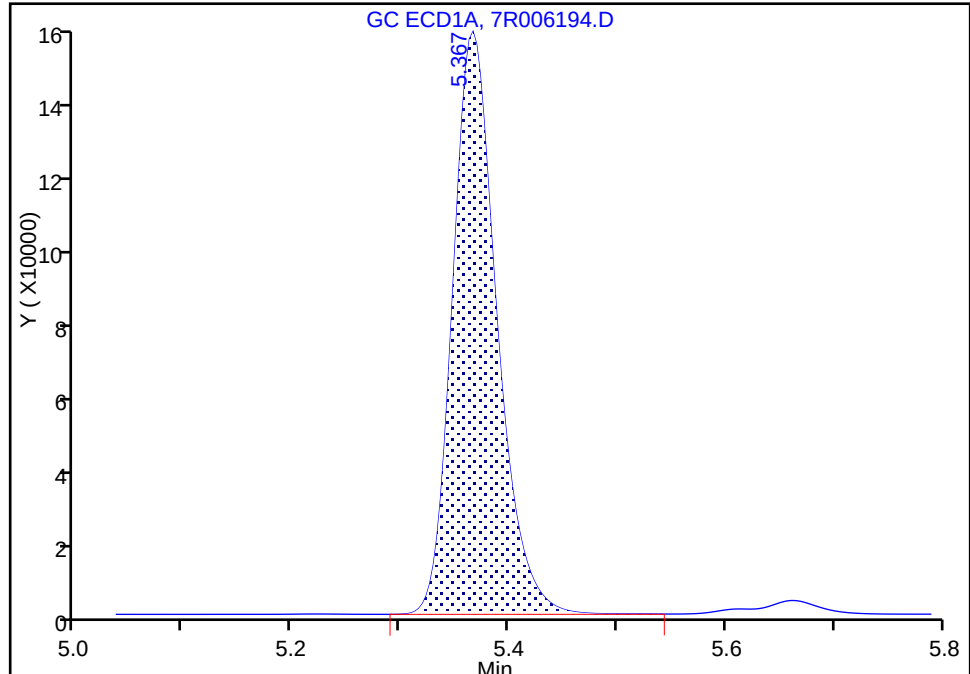
Detector GC ECD1A

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 1

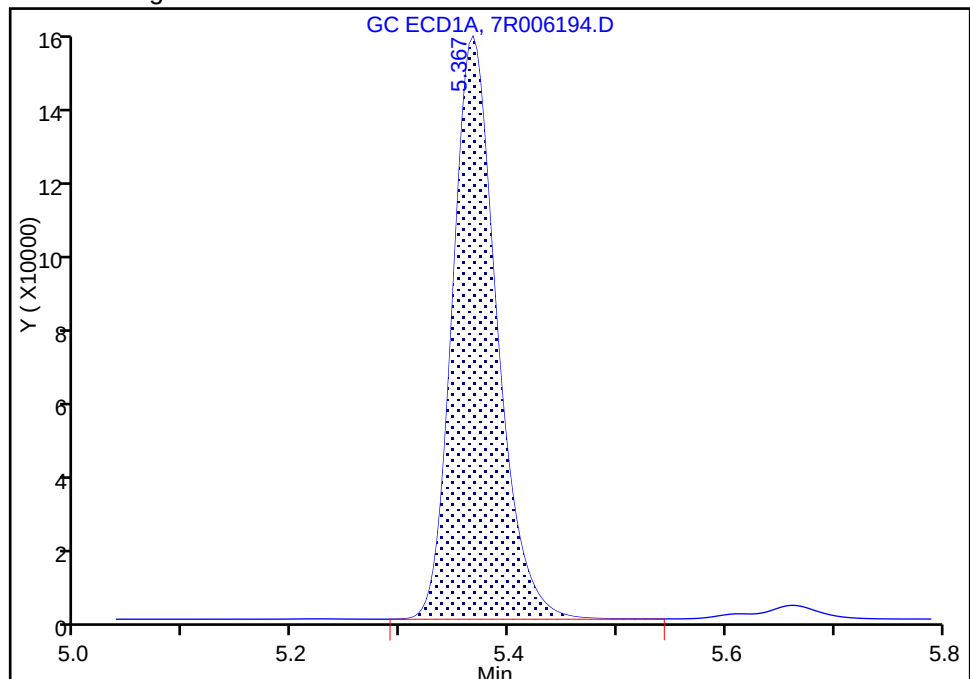
RT: 5.37
Area: 419373
Amount: 206.2246
Amount Units: ug/l

Processing Integration Results



RT: 5.37
Area: 419548
Amount: 206.4633
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:47:30

Audit Action: Assigned New Baseline

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Injection Date: 29-Jul-2017 13:25:13

Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

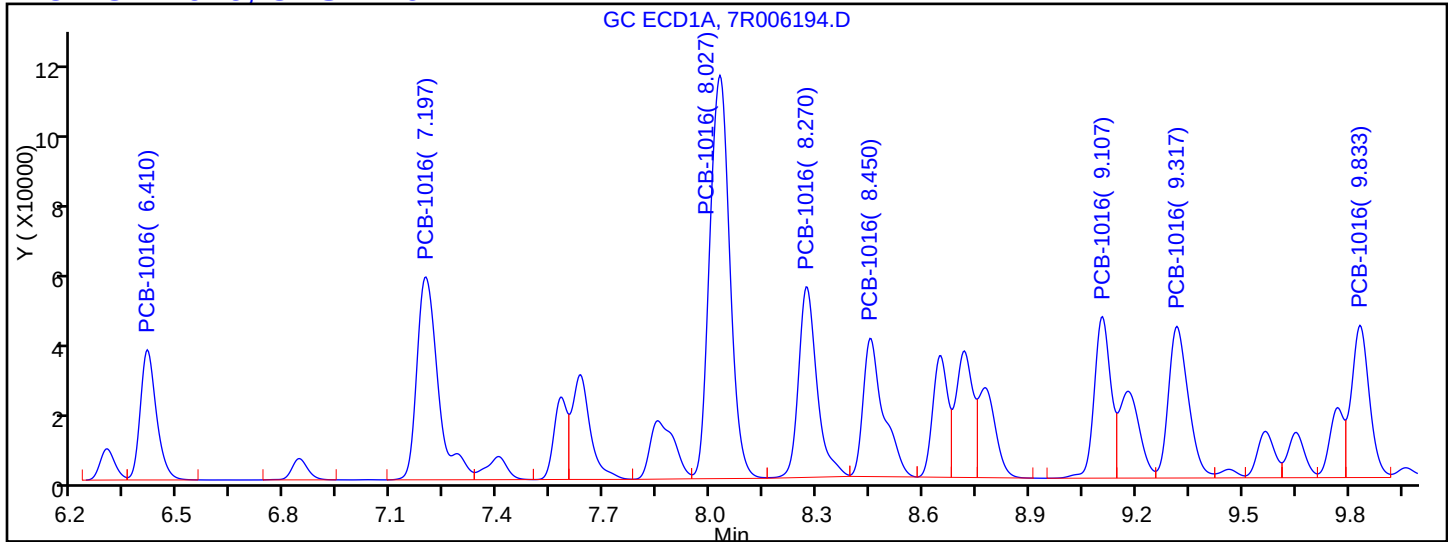
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

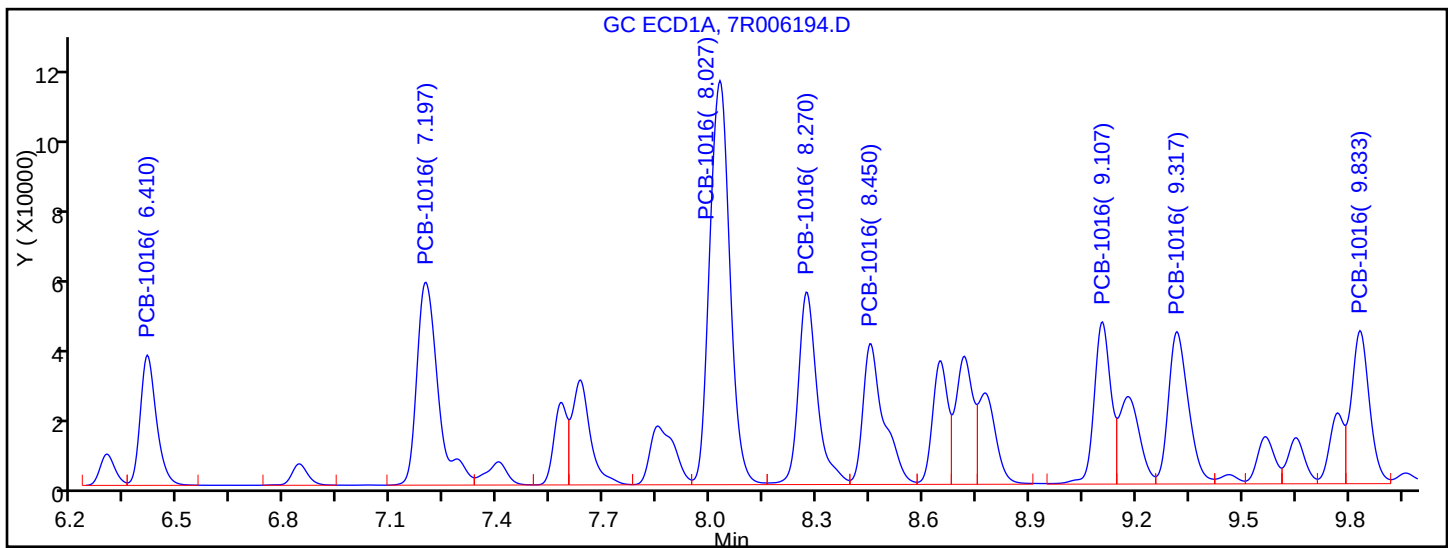
Detector GC ECD1A

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



Processing Integration Results

6.410	Response = 104861
7.197	Response = 217143
8.027	Response = 405653
8.270	Response = 175713
8.450	Response = 140437
9.107	Response = 133301
9.317	Response = 150684
9.833	Response = 135962



Manual Integration Results

6.410	Response = 105119	M
7.197	Response = 217261	M
8.027	Response = 408335	M
8.270	Response = 182475	M
8.450	Response = 147511	M
9.107	Response = 135236	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Injection Date: 29-Jul-2017 13:25:13

Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

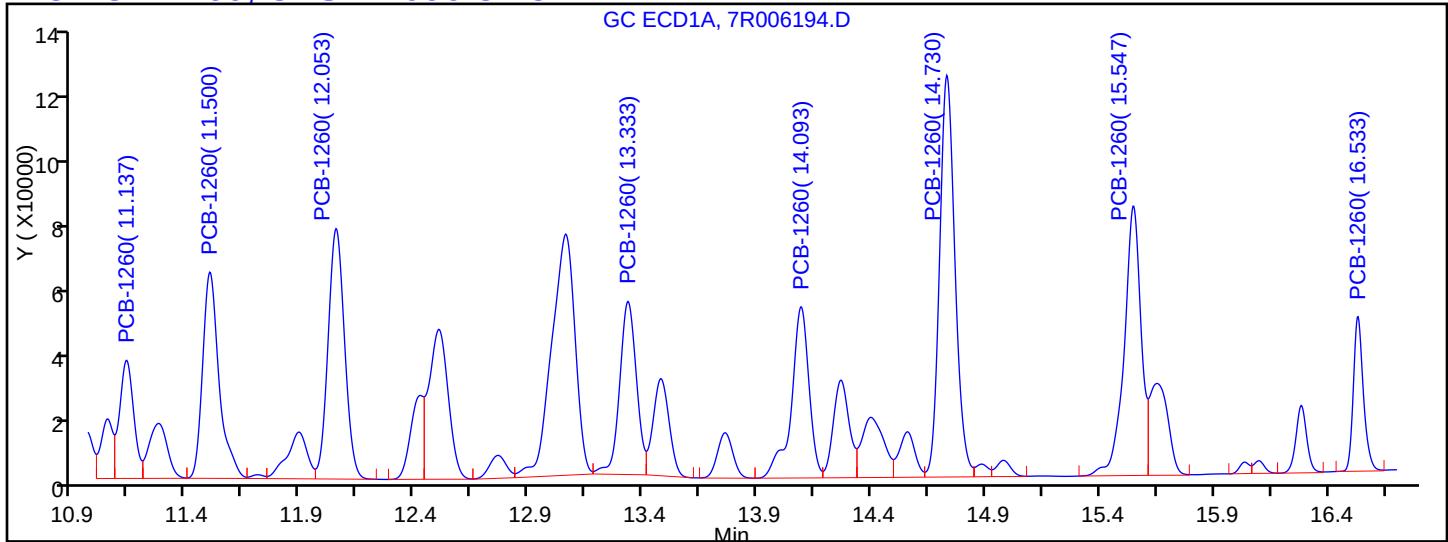
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

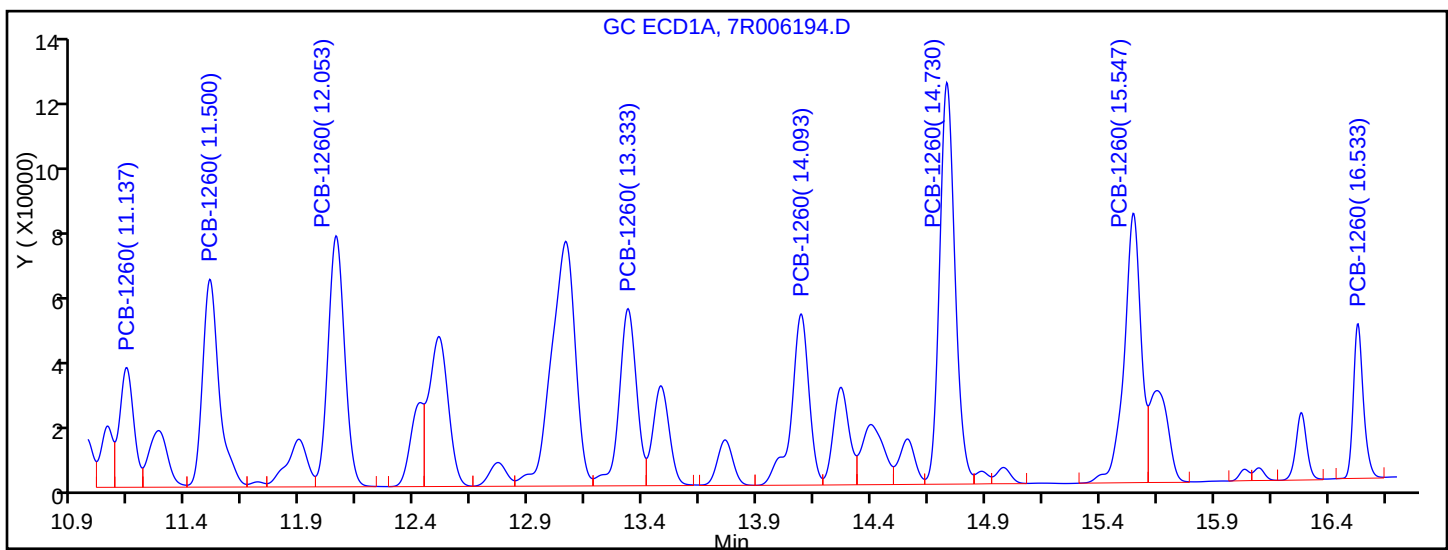
Detector GC ECD1A

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



Processing Integration Results

11.137	Response = 143498
11.500	Response = 290717
12.053	Response = 354478
13.333	Response = 249033
14.093	Response = 260296
14.730	Response = 532186
15.547	Response = 390502
16.533	Response = 132875



Manual Integration Results

11.137	Response = 147002	M
11.500	Response = 297645	M
12.053	Response = 356926	M
13.333	Response = 265770	M
14.093	Response = 260296	
14.730	Response = 532186	

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 11:50 Calibration End Date: 07/29/2017 13:25 Calibration ID: 63417

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/2	7R006190.D
Level 2	IC 460-452720/3	7R006191.D
Level 3	IC 460-452720/4	7R006192.D
Level 4	IC 460-452720/5	7R006193.D
Level 5	IC 460-452720/6	7R006194.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
PCB-1016 Peak 1	0.0303	0.0275	0.0282	0.0254	0.0253	Ave		0.0274				7.6		20.0			0.9900
PCB-1016 Peak 2	0.0578	0.0528	0.0534	0.0480	0.0477	Ave		0.0519				8.1		20.0			0.9900
PCB-1016 Peak 3	0.0348	0.0317	0.0330	0.0303	0.0309	Ave		0.0321				5.6		20.0			0.9900
PCB-1016 Peak 4	0.1041	0.0982	0.1016	0.0924	0.0935	Ave		0.0980				5.2		20.0			0.9900
PCB-1016 Peak 5	0.0472	0.0422	0.0434	0.0396	0.0408	Ave		0.0426				6.9		20.0			0.9900
PCB-1016 Peak 6	0.0299	0.0248	0.0262	0.0242	0.0258	Ave		0.0262				8.6		20.0			0.9900
PCB-1016 Peak 7	0.0409	0.0416	0.0438	0.0398	0.0410	Ave		0.0414				3.5		20.0			0.9900
PCB-1016 Peak 8	0.0291	0.0250	0.0249	0.0226	0.0228	Ave		0.0249				10.4		20.0			0.9900
PCB-1260 Peak 1	0.0680	0.0643	0.0647	0.0579	0.0580	Ave		0.0626				7.1		20.0			0.9900
PCB-1260 Peak 2	0.1040	0.1024	0.1067	0.0967	0.0989	Ave		0.1017				3.9		20.0			0.9900
PCB-1260 Peak 3	0.0519	0.0511	0.0510	0.0465	0.0465	Ave		0.0494				5.4		20.0			0.9900
PCB-1260 Peak 4	0.0535	0.0529	0.0538	0.0493	0.0498	Ave		0.0518				4.1		20.0			0.9900
PCB-1260 Peak 5	0.1160	0.1174	0.1240	0.1132	0.1167	Ave		0.1175				3.4		20.0			0.9900
PCB-1260 Peak 6	0.0579	0.0597	0.0644	0.0598	0.0623	Ave		0.0608				4.2		20.0			0.9900
PCB-1260 Peak 7	0.0279	0.0303	0.0324	0.0296	0.0312	Ave		0.0303				5.6		20.0			0.9900
PCB-1260 Peak 8	0.0271	0.0296	0.0319	0.0296	0.0308	Ave		0.0298				6.0		20.0			0.9900
Tetrachloro-m-xylene	0.8923	1.0205	1.1450	1.1062	1.1871	Ave		1.0702				10.9		20.0			0.9900
DCB Decachlorobiphenyl	1.1789	1.1486	1.1962	1.1318	1.1803	Ave		1.1672				2.2		20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 11:50 Calibration End Date: 07/29/2017 13:25 Calibration ID: 63417

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/2	7R006190.D
Level 2	IC 460-452720/3	7R006191.D
Level 3	IC 460-452720/4	7R006192.D
Level 4	IC 460-452720/5	7R006193.D
Level 5	IC 460-452720/6	7R006194.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5
PCB-1016 Peak 1	BNB	Ave	1943	17474	35733	49118	78366	50.0	500	1000	1500	2500
PCB-1016 Peak 2	BNB	Ave	3710	33513	67552	92641	147880	50.0	500	1000	1500	2500
PCB-1016 Peak 3	BNB	Ave	2234	20098	41762	58480	95725	50.0	500	1000	1500	2500
PCB-1016 Peak 4	BNB	Ave	6682	62300	128657	178511	289515	50.0	500	1000	1500	2500
PCB-1016 Peak 5	BNB	Ave	3029	26793	54968	76420	126256	50.0	500	1000	1500	2500
PCB-1016 Peak 6	BNB	Ave	1921	15715	33112	46724	79928	50.0	500	1000	1500	2500
PCB-1016 Peak 7	BNB	Ave	2628	26405	55389	76899	127126	50.0	500	1000	1500	2500
PCB-1016 Peak 8	BNB	Ave	1867	15860	31581	43721	70699	50.0	500	1000	1500	2500
PCB-1260 Peak 1	BNB	Ave	4363	40799	81890	111902	179666	50.0	500	1000	1500	2500
PCB-1260 Peak 2	BNB	Ave	6675	64954	135050	186860	306239	50.0	500	1000	1500	2500
PCB-1260 Peak 3	BNB	Ave	3329	32441	64544	89849	143988	50.0	500	1000	1500	2500
PCB-1260 Peak 4	BNB	Ave	3436	33578	68050	95164	154223	50.0	500	1000	1500	2500
PCB-1260 Peak 5	BNB	Ave	7447	74513	156931	218709	361605	50.0	500	1000	1500	2500
PCB-1260 Peak 6	BNB	Ave	3717	37859	81518	115601	193098	50.0	500	1000	1500	2500
PCB-1260 Peak 7	BNB	Ave	1791	19233	41045	57128	96772	50.0	500	1000	1500	2500
PCB-1260 Peak 8	BNB	Ave	1740	18796	40333	57238	95509	50.0	500	1000	1500	2500
Tetrachloro-m-xylene	BNB	Ave	14320	64763	144945	213680	294184	12.5	50.0	100	150	200
DCB Decachlorobiphenyl	BNB	Ave	18920	72896	151425	218632	292484	12.5	50.0	100	150	200

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006190.D
 Lims ID: IC PCB 1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 29-Jul-2017 11:50:51 ALS Bottle#: 5 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:28:48 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 12:30:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene M
 1 3.523 3.523 0.000 48339 20.0 20.0 M
 2 2.917 2.913 0.004 25678 20.0 20.0
 RPD = 0.00
 \$ 2 Tetrachloro-m-xylene M
 1 5.367 5.367 0.000 26040 12.5 12.2
 2 4.330 4.327 0.003 14320 12.5 10.4 M
 RPD = 16.07

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006190.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.410	6.410	0.000	2830	50.0	57.7	M
1	7.197	7.197	0.000	5102	50.0	52.0	M
1	8.027	8.027	0.000	11133	50.0	58.3	M
1	8.273	8.273	0.000	5558	50.0	62.7	M
1	8.453	8.453	0.000	3597	50.0	54.1	M
1	9.107	9.107	0.000	3888	50.0	59.9	M
1	9.317	9.317	0.000	3745	50.0	54.6	M
1	9.837	9.833	0.004	3165	50.0	50.0	M

Average of Peak Amounts =

56.1

2	5.063	5.060	0.003	1943	50.0	55.3	M
2	5.720	5.717	0.003	3710	50.0	55.6	M
2	6.070	6.067	0.003	2234	50.0	54.2	M
2	6.537	6.537	0.000	6682	50.0	53.1	M
2	6.773	6.770	0.003	3029	50.0	55.3	M
2	6.873	6.873	0.000	1921	50.0	57.2	M
2	7.483	7.483	0.000	2628	50.0	49.4	
2	8.130	8.127	0.003	1867	50.0	58.4	M

Average of Peak Amounts =

54.8

RPD = 2.39

8 PCB-1260

							M
1	11.137	11.137	0.000	3643	50.0	54.1	M
1	11.503	11.500	0.003	7774	50.0	55.9	M
1	12.057	12.053	0.004	8993	50.0	54.9	
1	13.333	13.333	0.000	6017	50.0	51.4	M
1	14.093	14.093	0.000	5647	50.0	49.8	M
1	14.733	14.730	0.003	12401	50.0	52.8	
1	15.550	15.550	0.000	8268	50.0	49.1	M
1	16.533	16.533	0.000	2826	50.0	49.5	M

Average of Peak Amounts =

52.2

2	9.527	9.523	0.004	4363	50.0	54.3	M
2	10.447	10.447	0.000	6675	50.0	51.1	M
2	10.670	10.670	0.000	3329	50.0	52.5	M
2	11.157	11.153	0.004	3436	50.0	51.6	M
2	11.897	11.897	0.000	7447	50.0	49.4	M
2	12.650	12.650	0.000	3717	50.0	47.6	M
2	12.910	12.910	0.000	1791	50.0	46.1	M
2	14.327	14.323	0.004	1740	50.0	45.5	

Average of Peak Amounts =

49.8

RPD = 4.75

\$ 11 DCB Decachlorobiphenyl

							M
1	17.187	17.187	0.000	22991	12.5	13.7	
2	15.400	15.397	0.003	18920	12.5	12.6	M

RPD = 8.05

S 12 Polychlorinated biphenyls, Total

1						108.3	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660(LVI)L1_00011

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC PCB 1

Worklist Smp#: 2

Client ID:

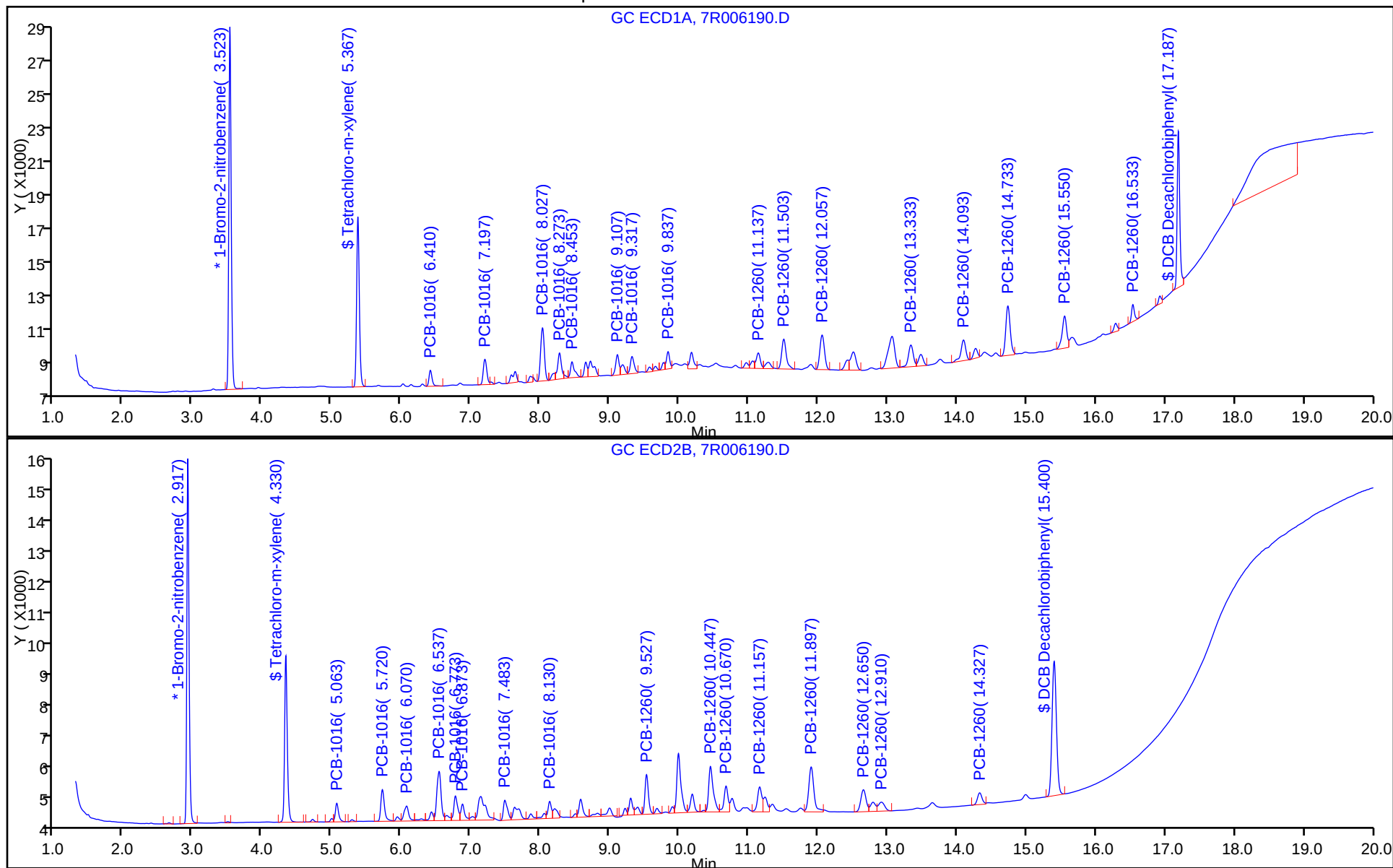
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

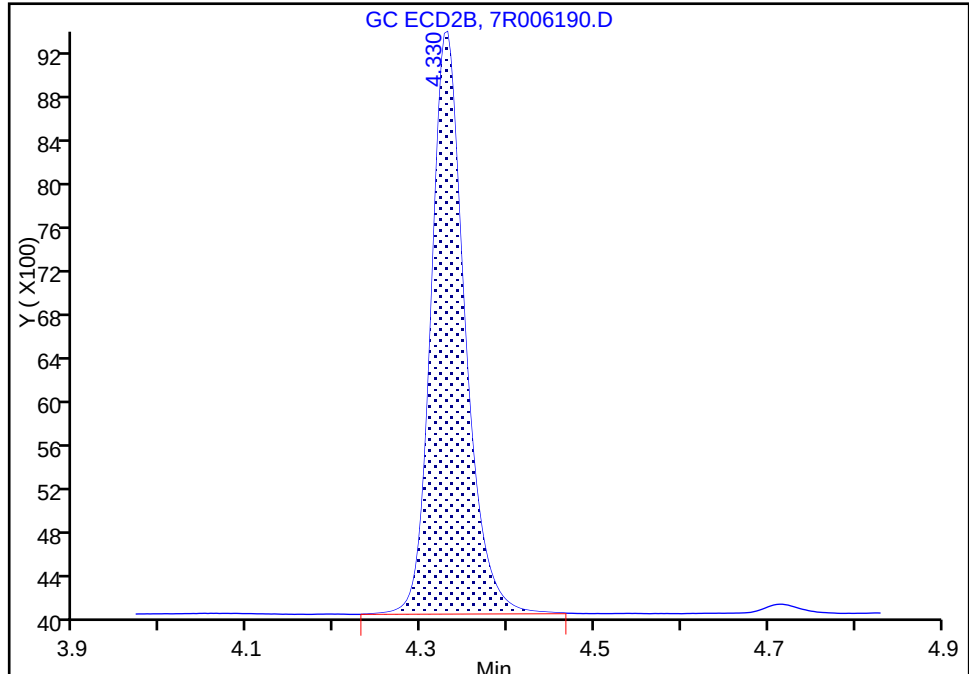
Detector GC ECD2B

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

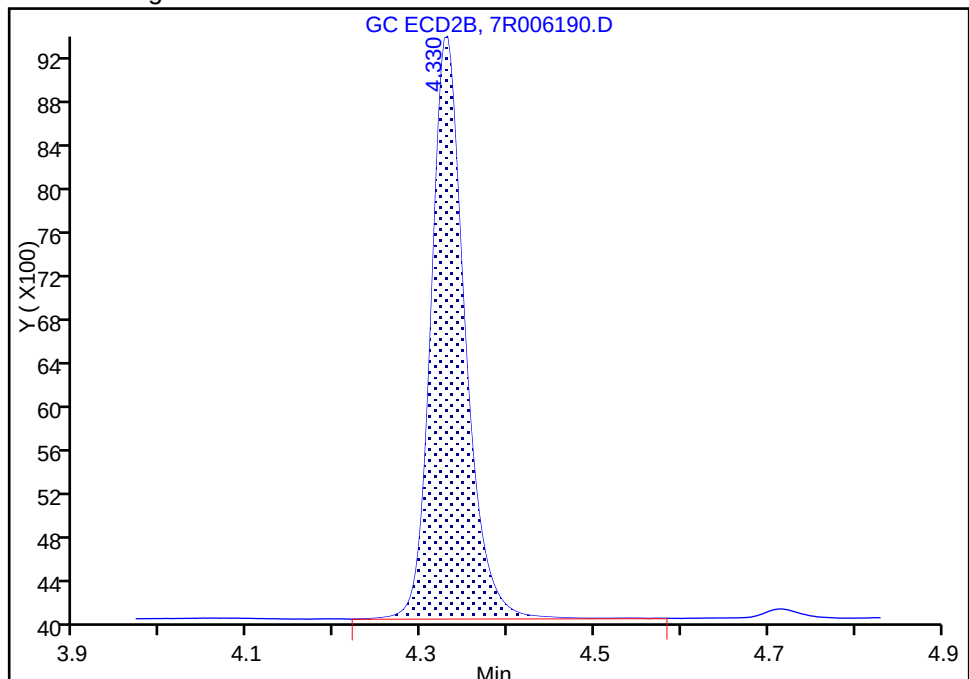
RT: 4.33
Area: 14255
Amount: 10.382207
Amount Units: ug/l

Processing Integration Results



RT: 4.33
Area: 14320
Amount: 10.421654
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:50:35

Audit Action: Manually Integrated

Audit Reason: Sample matrix interference

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

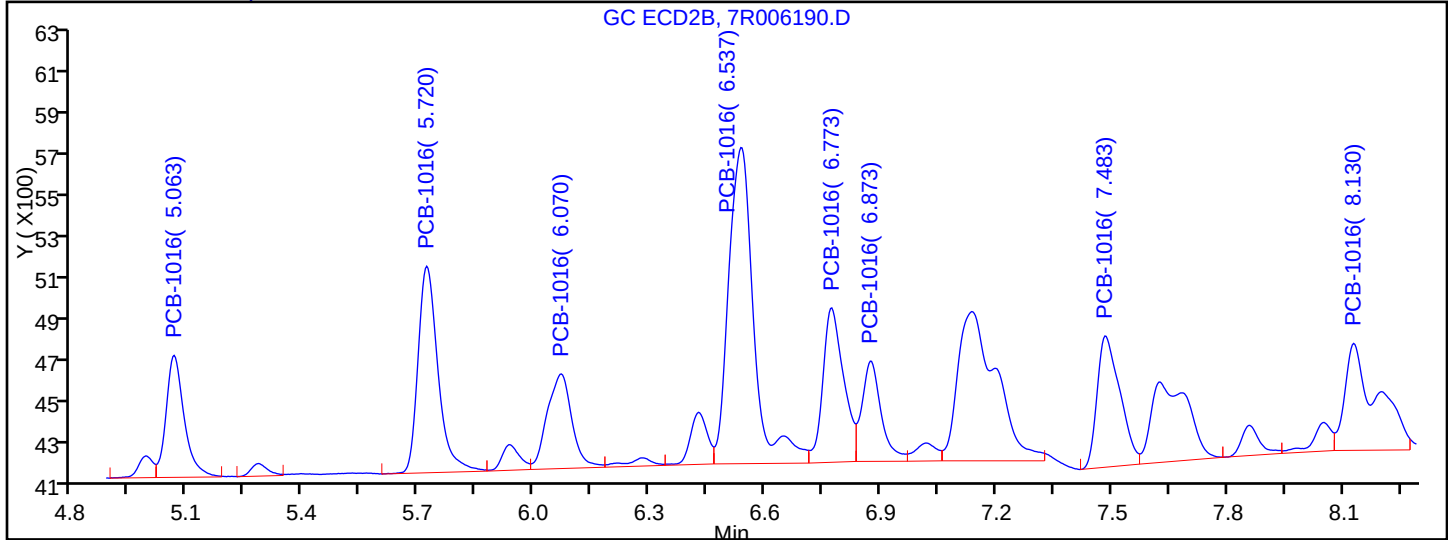
GC 8082A PCB ISTD

Column:

Detector

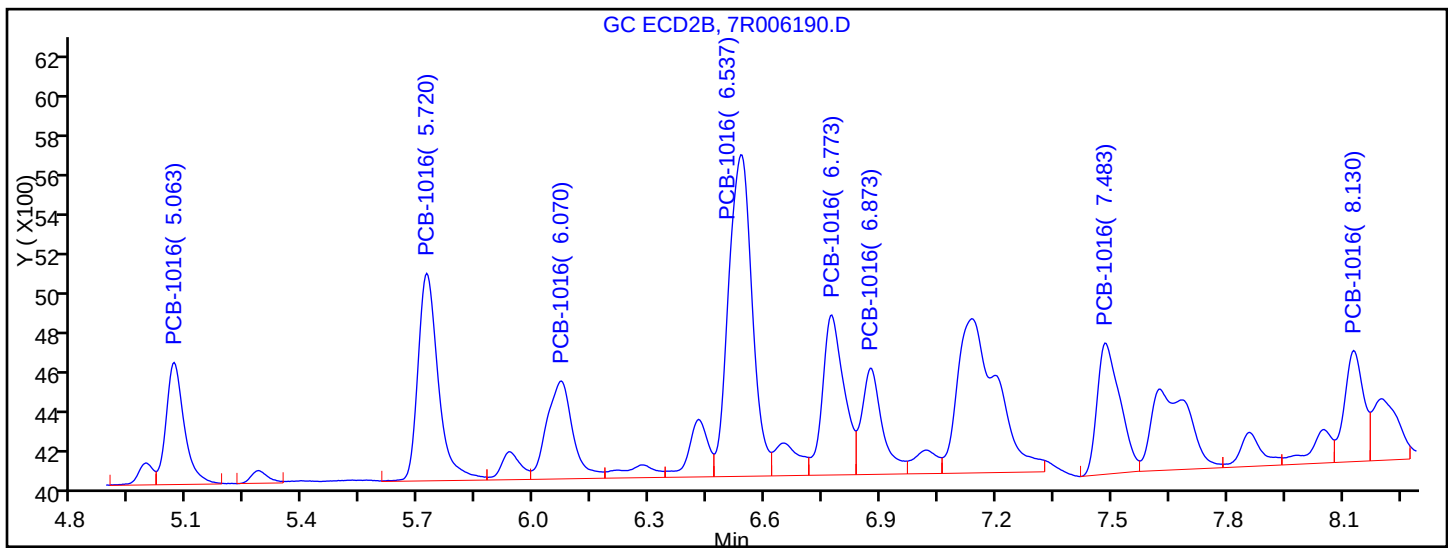
GC ECD2B

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



Processing Integration Results

5.063	Response = 1938
5.720	Response = 3620
6.070	Response = 2042
6.537	Response = 6996
6.773	Response = 2826
6.873	Response = 1693
7.483	Response = 2628
8.130	Response = 3025



Manual Integration Results

5.063	Response = 1943	M
5.720	Response = 3710	M
6.070	Response = 2234	M
6.537	Response = 6682	M
6.773	Response = 3029	M
6.873	Response = 1921	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

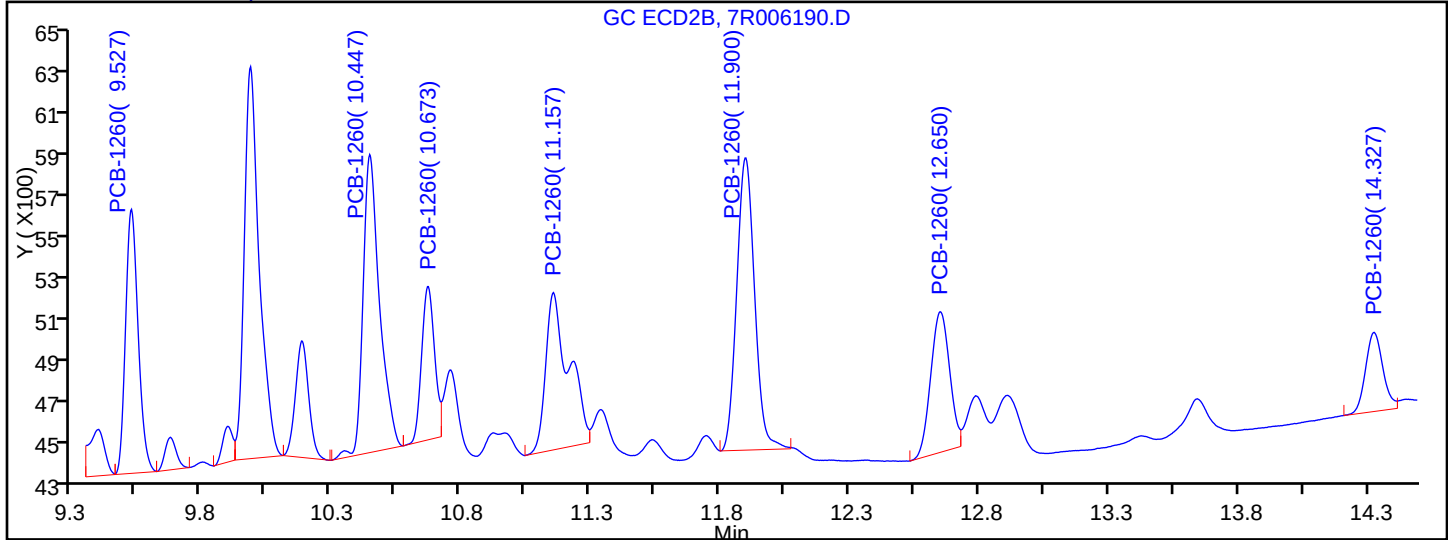
Limit Group: GC 8082A PCB ISTD

Column:

Detector

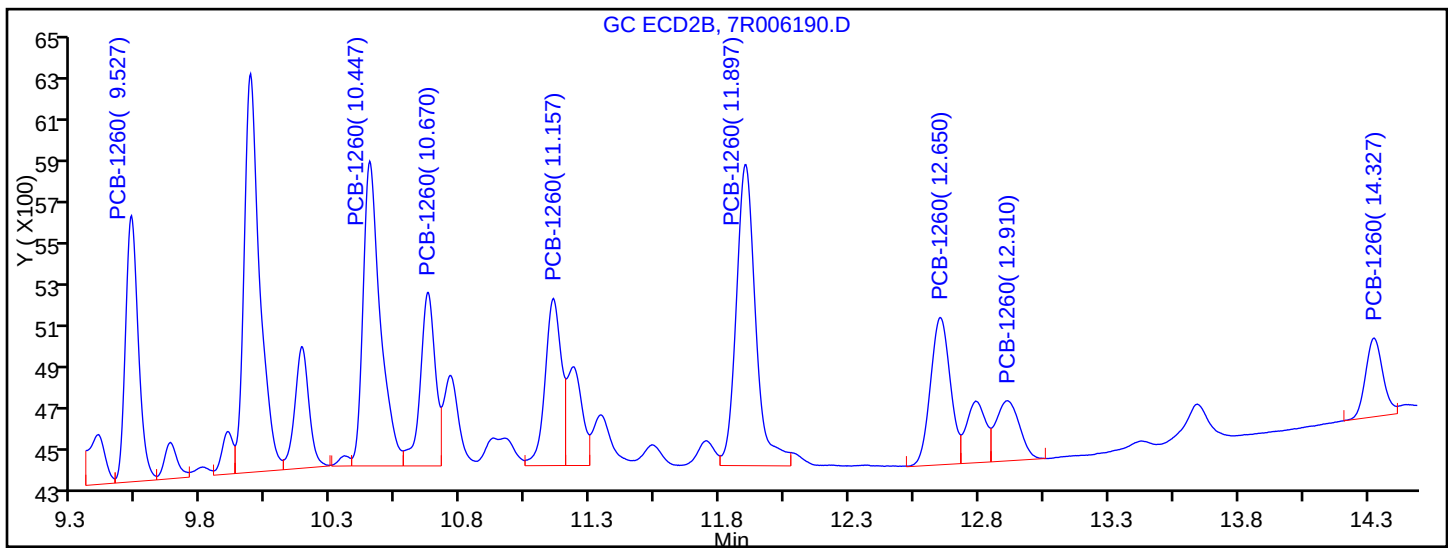
GC ECD2B

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



Processing Integration Results

9.527	Response = 4204
10.447	Response = 6202
10.673	Response = 2515
11.157	Response = 4550
11.900	Response = 6610
12.650	Response = 3367
14.327	Response = 1740
12.910	Response = 0



Manual Integration Results

9.527	Response = 4363	M
10.447	Response = 6675	M
10.670	Response = 3329	M
11.157	Response = 3436	M
11.897	Response = 7447	M
12.650	Response = 3717	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006190.D

Injection Date: 29-Jul-2017 11:50:51

Instrument ID: CPESTGC7

Lims ID: IC PCB 1

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

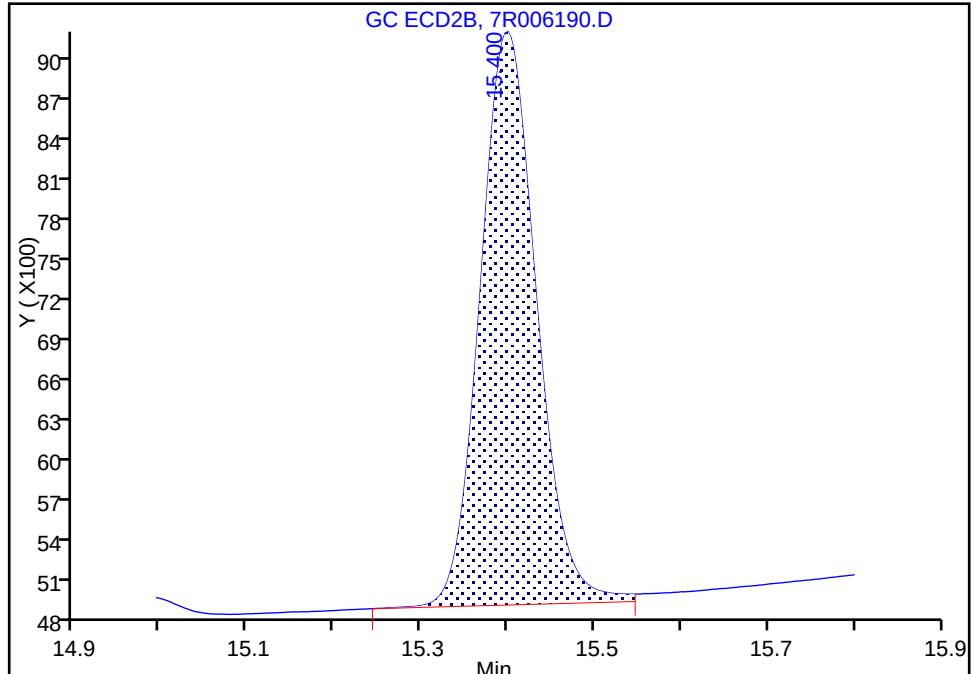
Detector GC ECD2B

\$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

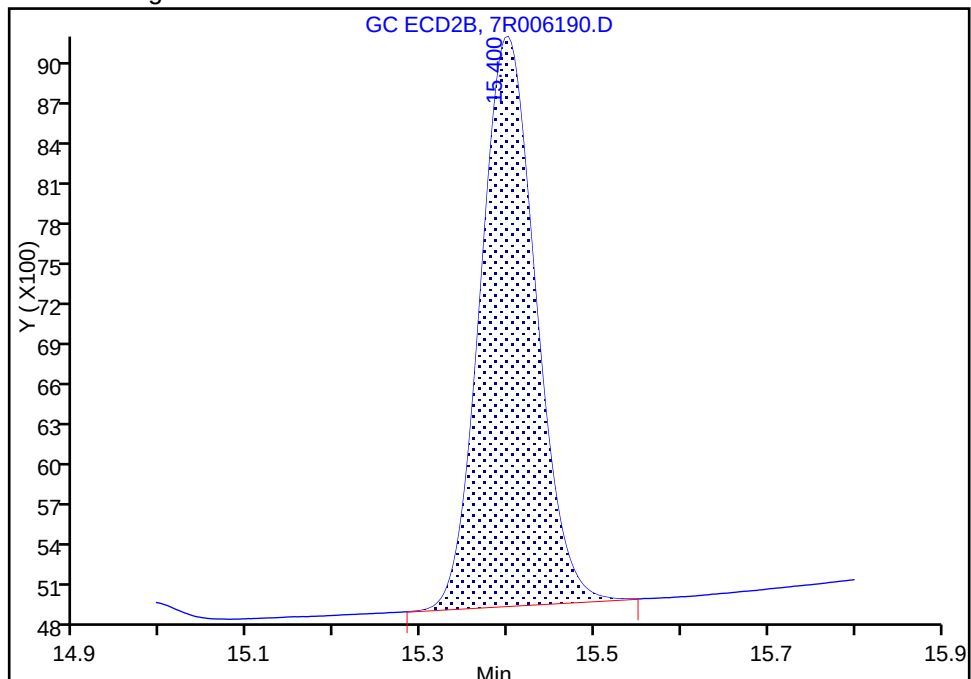
RT: 15.40
Area: 19368
Amount: 12.704242
Amount Units: ug/l

Processing Integration Results



RT: 15.40
Area: 18920
Amount: 12.625660
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:15:16

Audit Action: Manually Integrated

Audit Reason: Sample matrix interference

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006191.D
 Lims ID: IC PCB 2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 29-Jul-2017 12:14:30 ALS Bottle#: 6 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-003
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:28:52 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 12:42:06

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	47897	20.0	20.0	
2	2.917	2.913	0.004	25385	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.367	5.367	0.000	103082	50.0	48.9	
2	4.327	4.327	0.000	64763	50.0	47.7	
RPD = 2.56							

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006191.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.413	6.410	0.003	24860	500.0	511.2	M
1	7.197	7.197	0.000	50965	500.0	524.1	M
1	8.027	8.027	0.000	97204	500.0	513.4	M
1	8.273	8.273	0.000	45183	500.0	514.0	M
1	8.453	8.453	0.000	34049	500.0	516.6	M
1	9.107	9.107	0.000	33363	500.0	518.7	M
1	9.317	9.317	0.000	35095	500.0	516.5	M
1	9.833	9.833	0.000	34444	500.0	549.6	M

Average of Peak Amounts =

520.5

2	5.063	5.060	0.003	17474	500.0	503.3	
2	5.720	5.717	0.003	33513	500.0	508.4	
2	6.070	6.067	0.003	20098	500.0	492.9	
2	6.537	6.537	0.000	62300	500.0	501.1	M
2	6.770	6.770	0.000	26793	500.0	495.2	
2	6.873	6.873	0.000	15715	500.0	473.2	
2	7.483	7.483	0.000	26405	500.0	502.1	M
2	8.130	8.127	0.003	15860	500.0	501.9	M

Average of Peak Amounts =

497.3

RPD = 4.57

8 PCB-1260

							M
1	11.137	11.137	0.000	35218	500.0	528.0	M
1	11.500	11.500	0.000	72902	500.0	528.7	M
1	12.053	12.053	0.000	84827	500.0	522.4	M
1	13.333	13.333	0.000	59653	500.0	513.8	M
1	14.093	14.093	0.000	57873	500.0	515.5	M
1	14.730	14.730	0.000	118401	500.0	509.0	M
1	15.550	15.550	0.000	86025	500.0	515.1	
1	16.533	16.533	0.000	29056	500.0	513.4	

Average of Peak Amounts =

518.2

2	9.523	9.523	0.000	40799	500.0	513.7	M
2	10.447	10.447	0.000	64954	500.0	503.1	M
2	10.670	10.670	0.000	32441	500.0	517.5	M
2	11.153	11.153	0.000	33578	500.0	510.2	M
2	11.897	11.897	0.000	74513	500.0	499.8	M
2	12.650	12.650	0.000	37859	500.0	490.4	
2	12.910	12.910	0.000	19233	500.0	500.3	
2	14.327	14.323	0.004	18796	500.0	496.8	M

Average of Peak Amounts =

504.0

RPD = 2.79

\$ 11 DCB Decachlorobiphenyl

							M
1	17.187	17.187	0.000	82400	50.0	49.5	
2	15.397	15.397	0.000	72896	50.0	49.2	M

RPD = 0.59

S 12 Polychlorinated biphenyls, Total

1						1038.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L2_00024

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

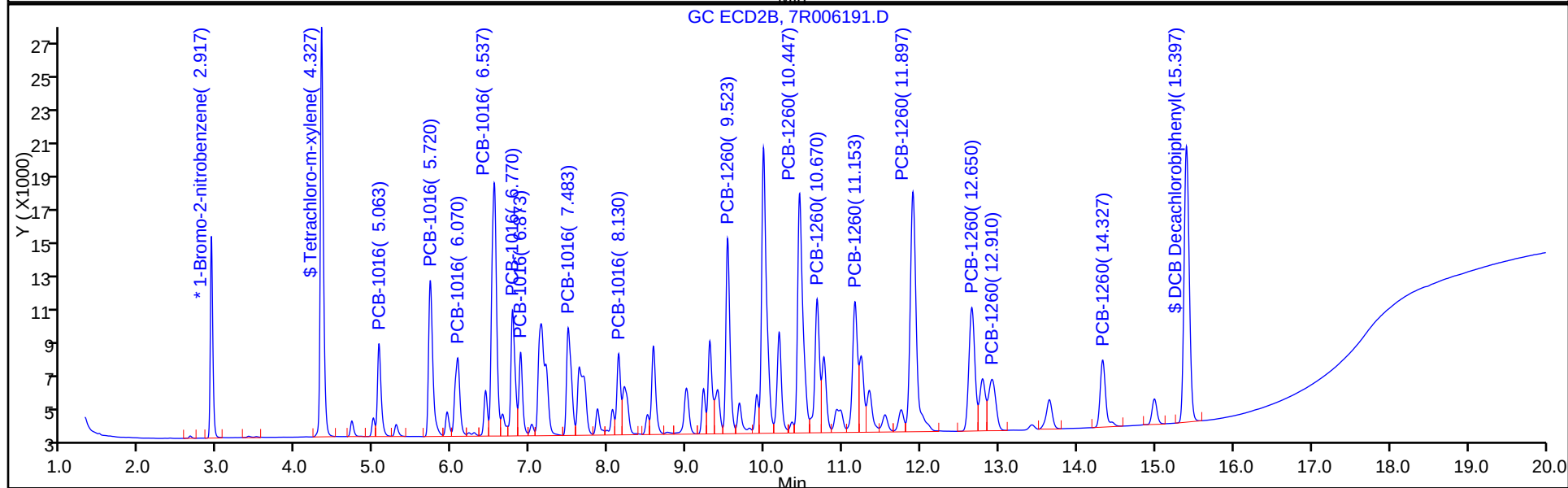
Amount Added: 20.00

Units: uL

Run Reagent

Chrom Revision: 2.2 20-Jun-2017 07:42:38

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006191.D

Injection Date: 29-Jul-2017 12:14:30

Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

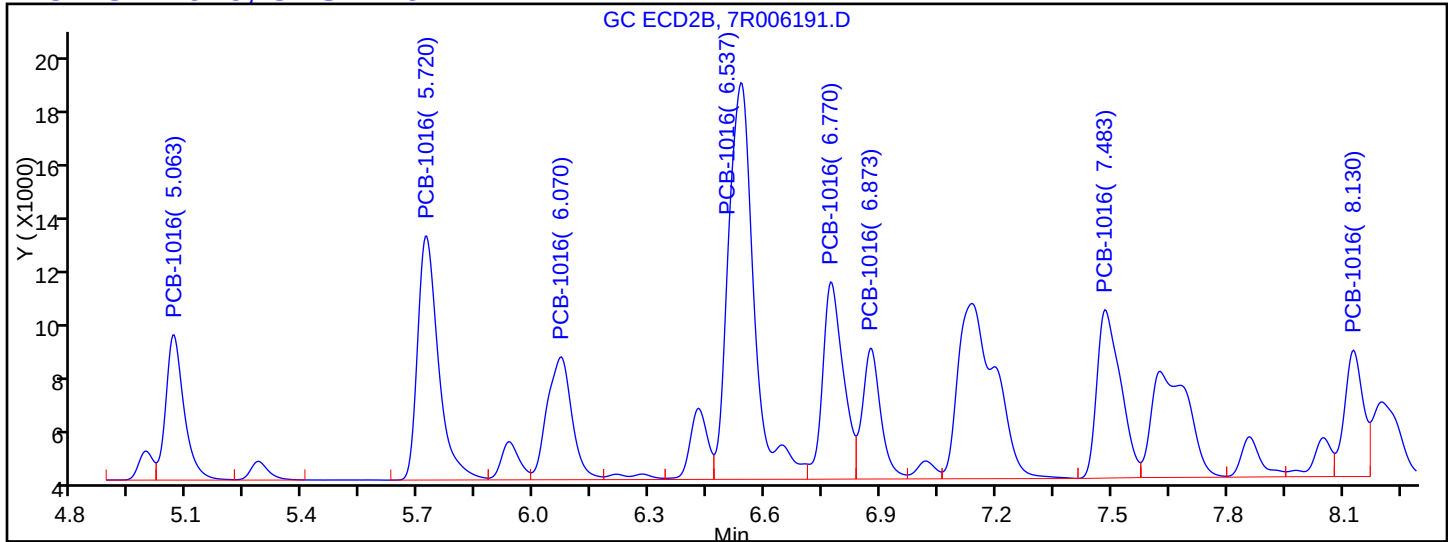
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

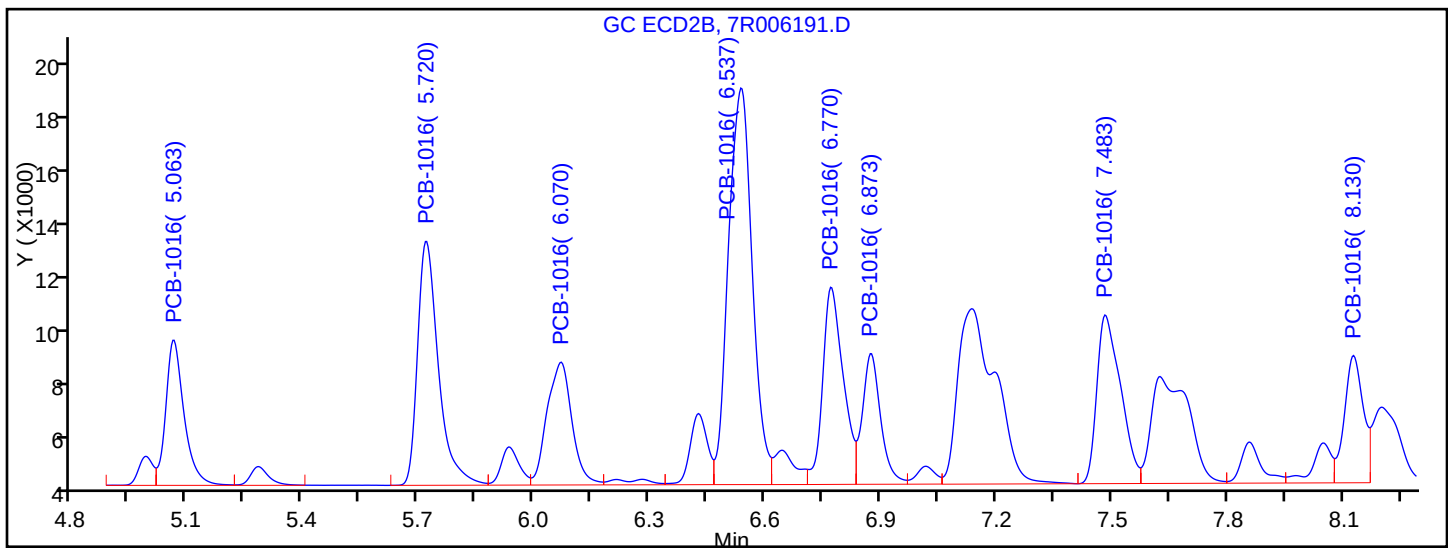
Detector GC ECD2B

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



Processing Integration Results

5.063	Response = 17474
5.720	Response = 33513
6.070	Response = 20098
6.537	Response = 67168
6.770	Response = 26793
6.873	Response = 15715
7.483	Response = 26288
8.130	Response = 15661



Manual Integration Results

5.063	Response = 17474
5.720	Response = 33513
6.070	Response = 20098
6.537	Response = 62300
6.770	Response = 26793
6.873	Response = 15715

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006191.D

Injection Date: 29-Jul-2017 12:14:30

Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

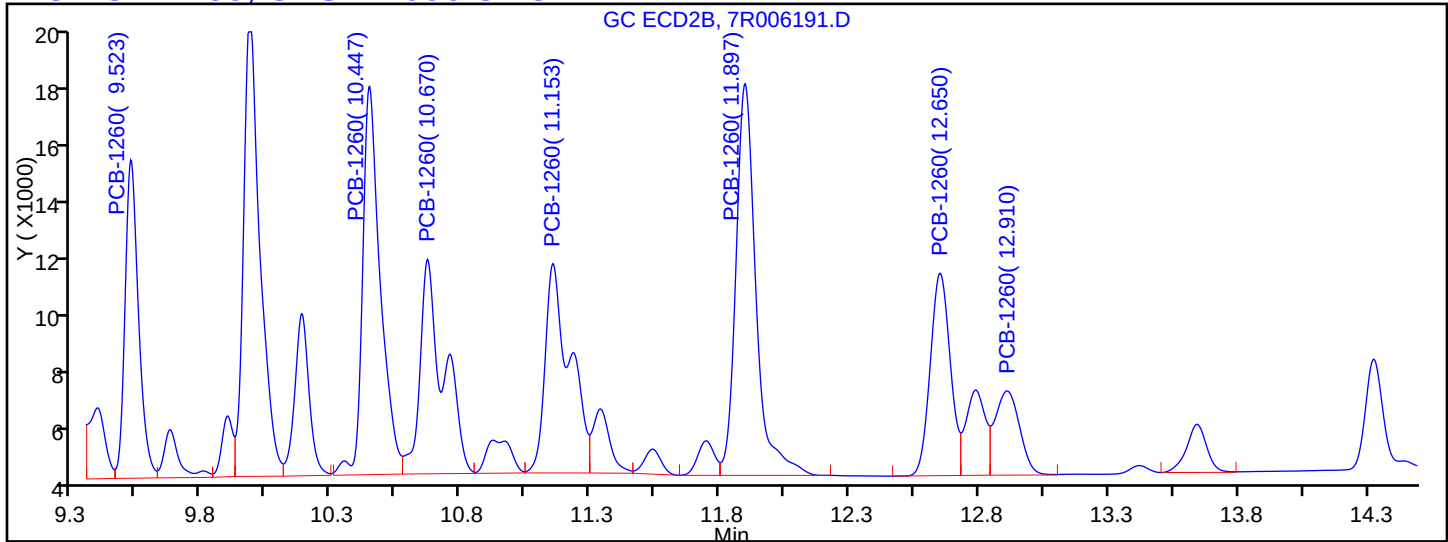
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

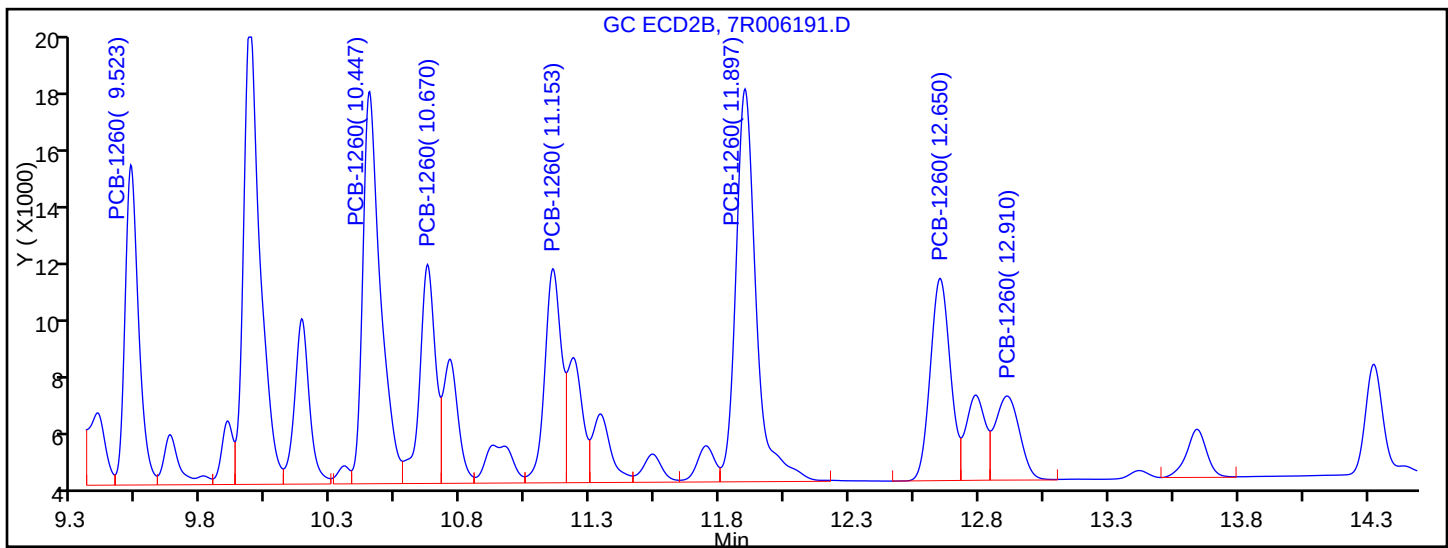
Detector GC ECD2B

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



Processing Integration Results

9.523	Response = 40162
10.447	Response = 64668
10.670	Response = 46913
11.153	Response = 48409
11.897	Response = 73399
12.650	Response = 37859
12.910	Response = 19233
14.327	Response = 19227



Manual Integration Results

9.523	Response = 40799	M
10.447	Response = 64954	M
10.670	Response = 32441	M
11.153	Response = 33578	M
11.897	Response = 74513	M
12.650	Response = 37859	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006191.D

Injection Date: 29-Jul-2017 12:14:30

Instrument ID: CPESTGC7

Lims ID: IC PCB 2

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

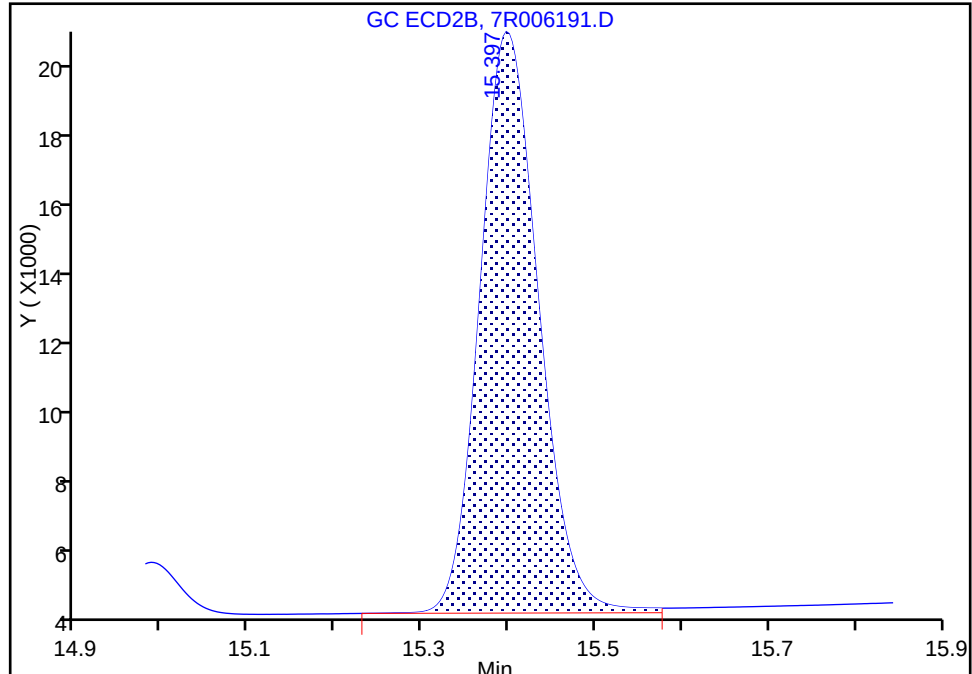
Detector GC ECD2B

\$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

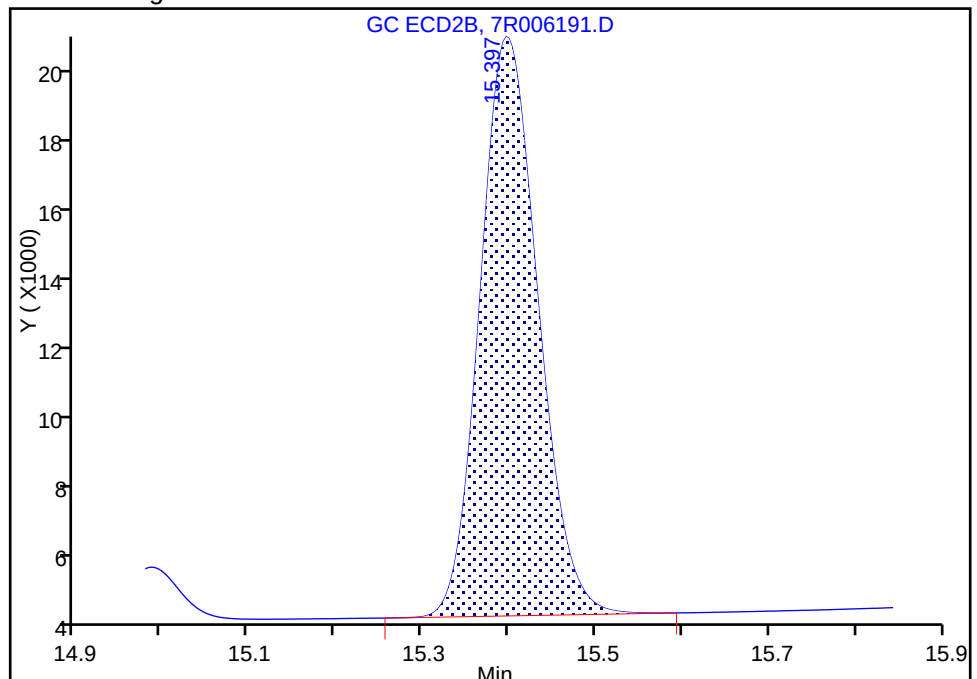
RT: 15.40
Area: 74066
Amount: 45.695164
Amount Units: ug/l

Processing Integration Results



RT: 15.40
Area: 72896
Amount: 49.206297
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:12:33

Audit Action: Manually Integrated

Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006192.D
 Lims ID: IC PCB 3
 Client ID:
 Sample Type: ICRT Calib Level: 3
 Inject. Date: 29-Jul-2017 12:38:08 ALS Bottle#: 7 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-004
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:28:56 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 13:06:51

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.527	3.527	0.000	47588	20.0	20.0	
2	2.917	2.917	0.000	25317	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.367	5.367	0.000	216225	100.0	103.3	M
2	4.327	4.327	0.000	144945	100.0	107.0	M
RPD = 3.54							

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006192.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.410	6.410	0.000	49182	1000.0	1017.9	M
1	7.197	7.197	0.000	101100	1000.0	1046.5	
1	8.027	8.027	0.000	189911	1000.0	1009.6	M
1	8.273	8.273	0.000	85823	1000.0	982.8	M
1	8.453	8.453	0.000	67244	1000.0	1026.9	M
1	9.107	9.107	0.000	64137	1000.0	1003.6	M
1	9.317	9.317	0.000	68999	1000.0	1022.0	M
1	9.833	9.833	0.000	65470	1000.0	1051.4	M

Average of Peak Amounts =

1020.1

2	5.060	5.060	0.000	35733	1000.0	1032.1	M
2	5.717	5.717	0.000	67552	1000.0	1027.6	M
2	6.067	6.067	0.000	41762	1000.0	1026.9	M
2	6.537	6.537	0.000	128657	1000.0	1037.6	M
2	6.770	6.770	0.000	54968	1000.0	1018.6	M
2	6.873	6.873	0.000	33112	1000.0	999.6	M
2	7.483	7.483	0.000	55389	1000.0	1056.2	M
2	8.127	8.127	0.000	31581	1000.0	1002.1	M

Average of Peak Amounts =

1025.1

RPD = 0.49

8 PCB-1260

							M
1	11.137	11.137	0.000	68556	1000.0	1034.4	M
1	11.500	11.500	0.000	139866	1000.0	1020.8	M
1	12.053	12.053	0.000	165659	1000.0	1026.8	M
1	13.333	13.333	0.000	120217	1000.0	1042.2	
1	14.093	14.093	0.000	117113	1000.0	1050.0	
1	14.730	14.730	0.000	239825	1000.0	1037.6	
1	15.550	15.550	0.000	175464	1000.0	1057.4	
1	16.533	16.533	0.000	58895	1000.0	1047.5	M

Average of Peak Amounts =

1039.6

2	9.523	9.523	0.000	81890	1000.0	1033.8	M
2	10.447	10.447	0.000	135050	1000.0	1048.8	M
2	10.670	10.670	0.000	64544	1000.0	1032.3	M
2	11.153	11.153	0.000	68050	1000.0	1036.8	M
2	11.897	11.897	0.000	156931	1000.0	1055.4	M
2	12.650	12.650	0.000	81518	1000.0	1058.7	
2	12.910	12.910	0.000	41045	1000.0	1070.5	
2	14.323	14.323	0.000	40333	1000.0	1068.9	M

Average of Peak Amounts =

1050.7

RPD = 1.06

\$ 11 DCB Decachlorobiphenyl

							M
1	17.187	17.187	0.000	164270	100.0	99.3	M
2	15.397	15.397	0.000	151425	100.0	102.5	M

RPD = 3.14

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L3_00030	Amount Added: 1.00	Units: mL	
SG1260ResPCB_00001	Amount Added: 1.00	Units: ml	
SGPCBISTD_00008	Amount Added: 20.00	Units: uL	Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC PCB 3

Worklist Smp#: 4

Client ID:

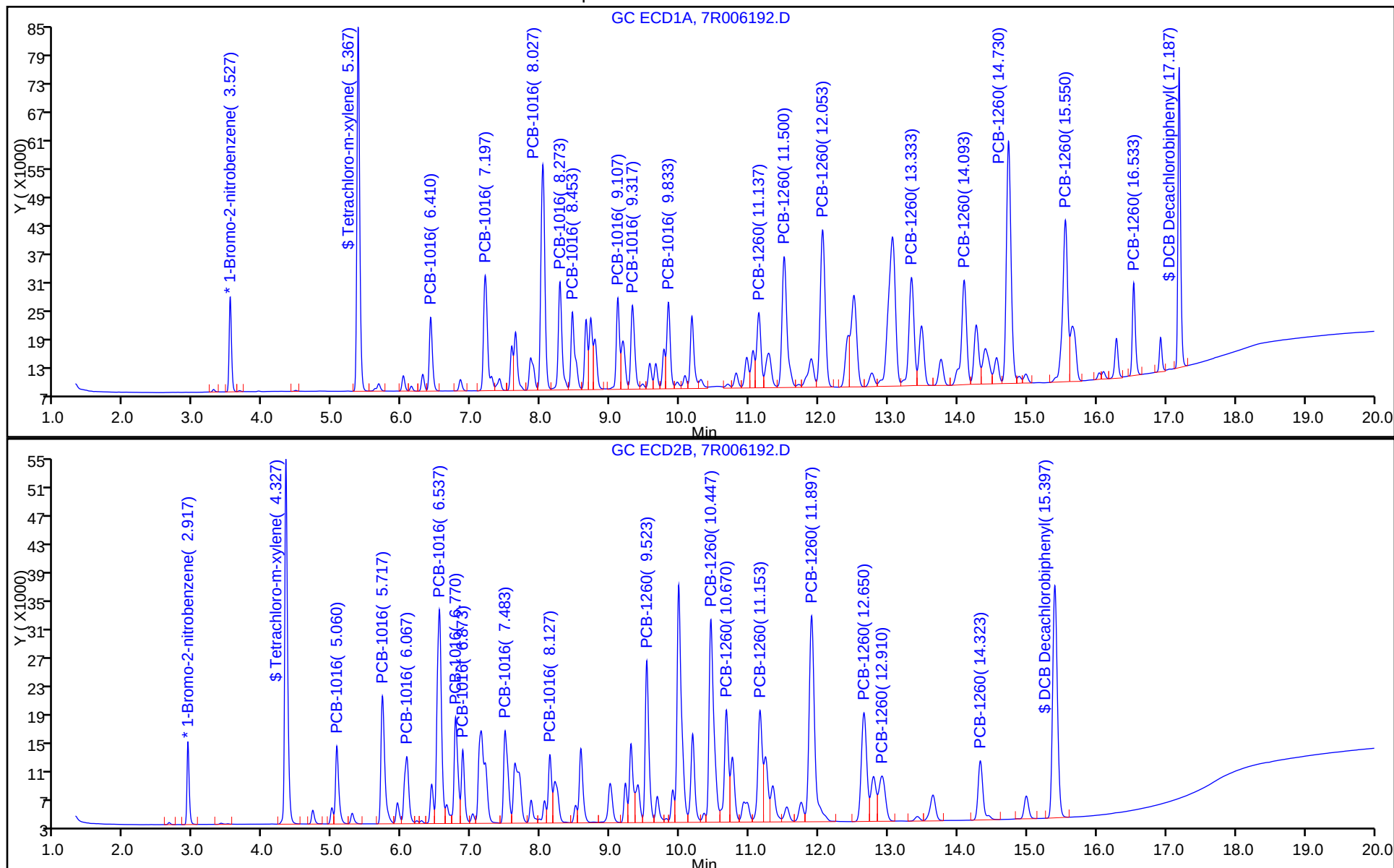
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

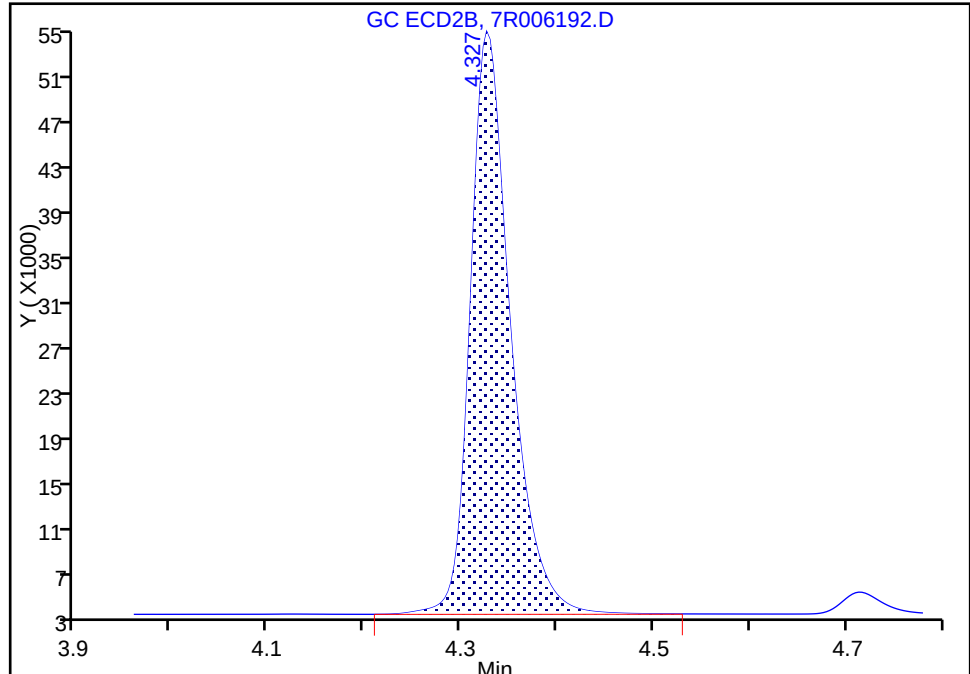
Detector GC ECD2B

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

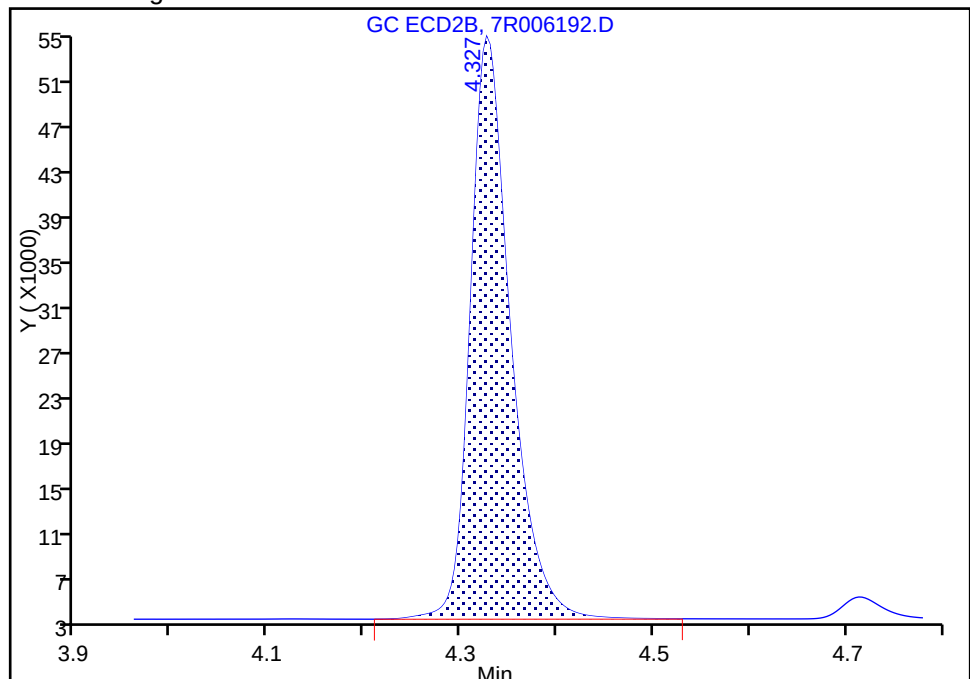
RT: 4.33
Area: 144724
Amount: 112.3809
Amount Units: ug/l

Processing Integration Results



RT: 4.33
Area: 144945
Amount: 106.9907
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:17:16

Audit Action: Assigned New Baseline

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

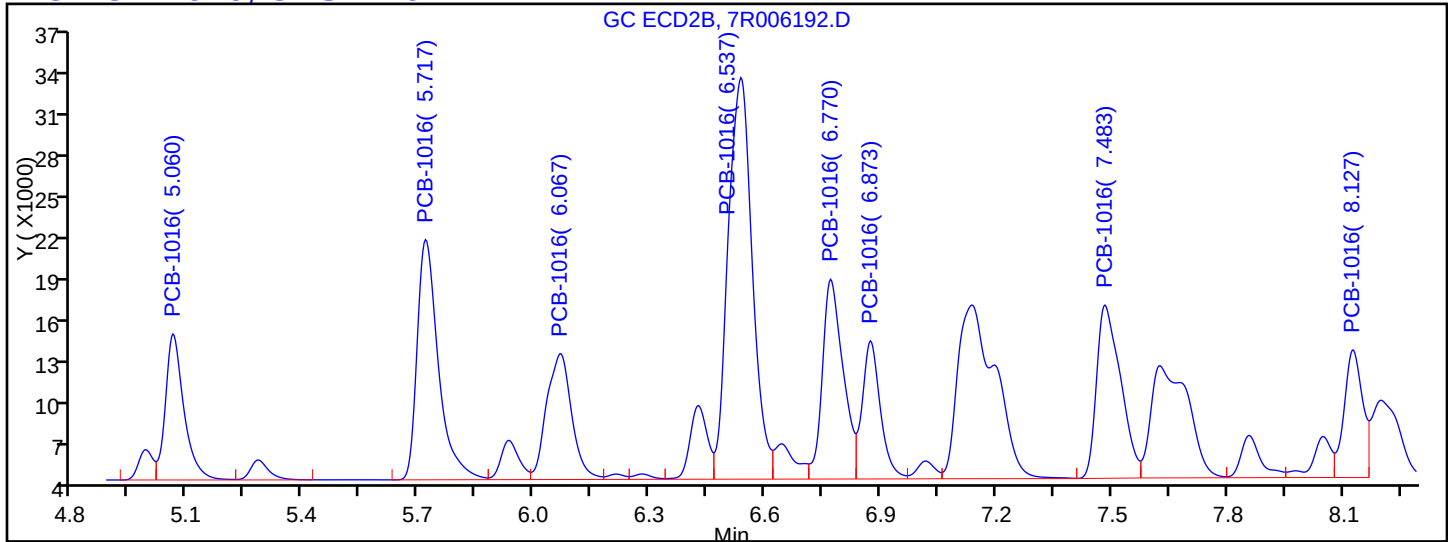
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

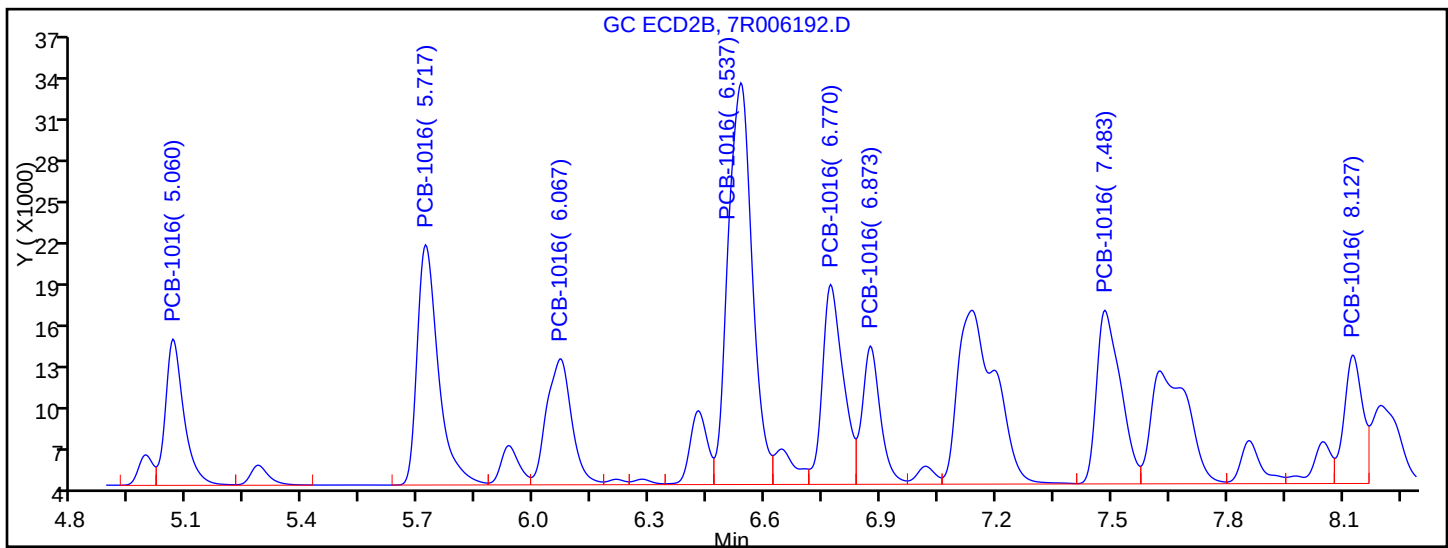
Detector GC ECD2B

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



Processing Integration Results

5.060	Response = 35609
5.717	Response = 67537
6.067	Response = 41700
6.537	Response = 128570
6.770	Response = 54901
6.873	Response = 33036
7.483	Response = 55084
8.127	Response = 31284



Manual Integration Results

5.060	Response = 35733	M
5.717	Response = 67552	M
6.067	Response = 41762	M
6.537	Response = 128657	M
6.770	Response = 54968	M
6.873	Response = 33112	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

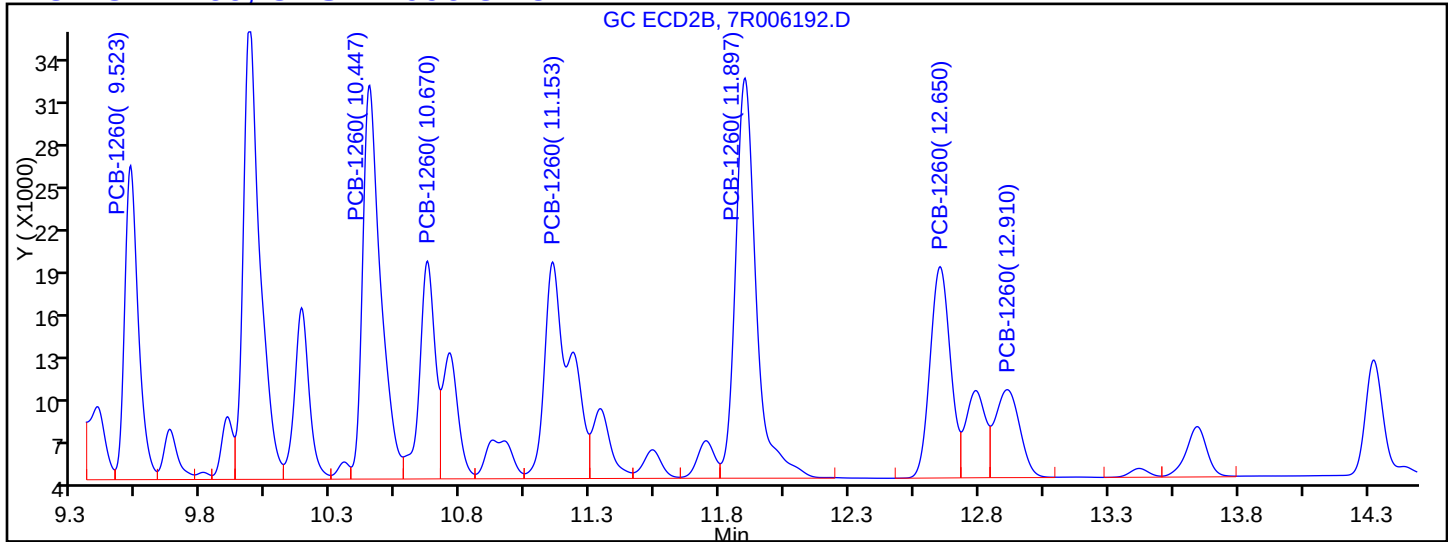
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

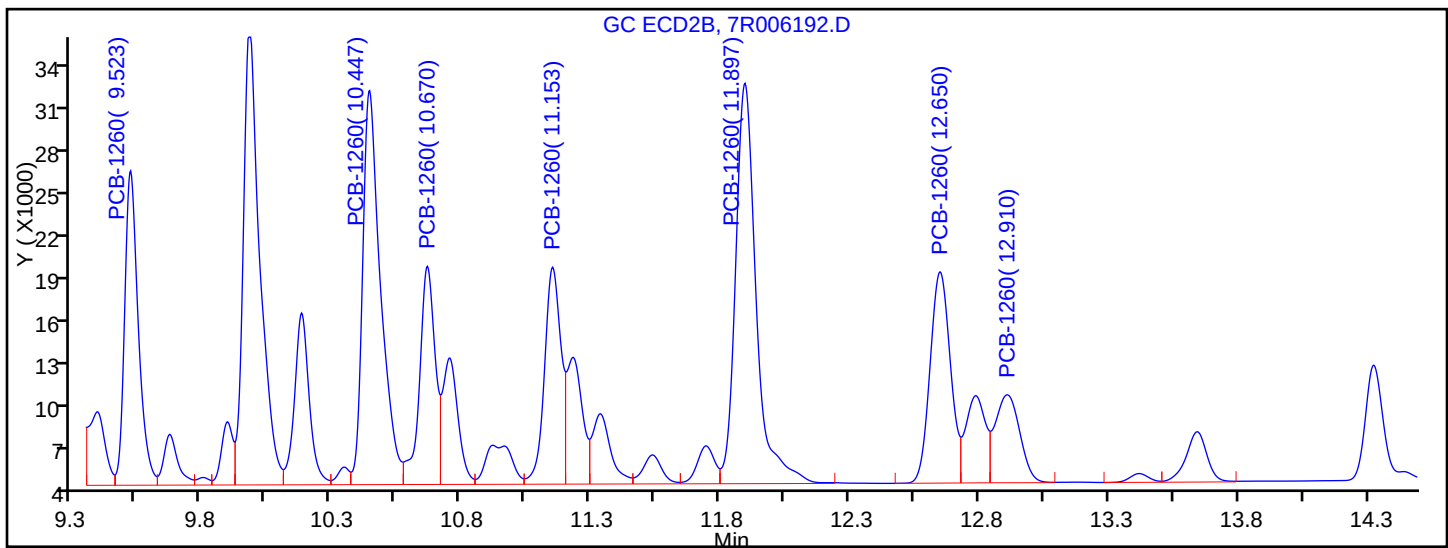
Detector GC ECD2B

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



Processing Integration Results

9.523	Response = 81567
10.447	Response = 134678
10.670	Response = 64281
11.153	Response = 104954
11.897	Response = 156386
12.650	Response = 81518
12.910	Response = 41045
14.323	Response = 40869



Manual Integration Results

9.523	Response = 81890	M
10.447	Response = 135050	M
10.670	Response = 64544	M
11.153	Response = 68050	M
11.897	Response = 156931	M
12.650	Response = 81518	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006192.D

Injection Date: 29-Jul-2017 12:38:08

Instrument ID: CPESTGC7

Lims ID: IC PCB 3

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

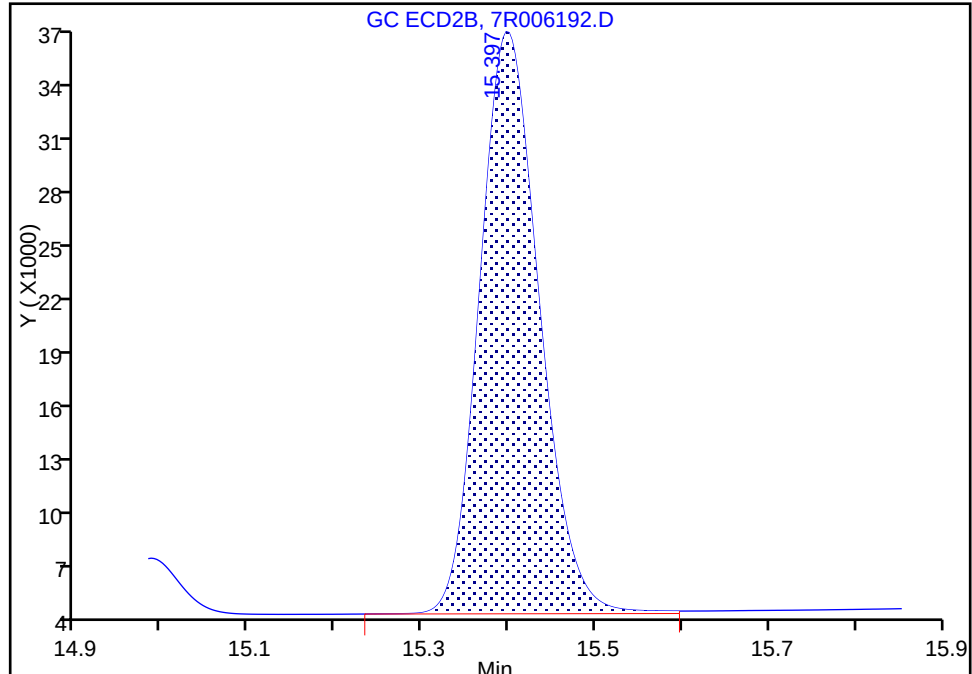
Detector GC ECD2B

\$ 11 DCB Decachlorobiphenyl, CAS: 2051-24-3

Signal: 2

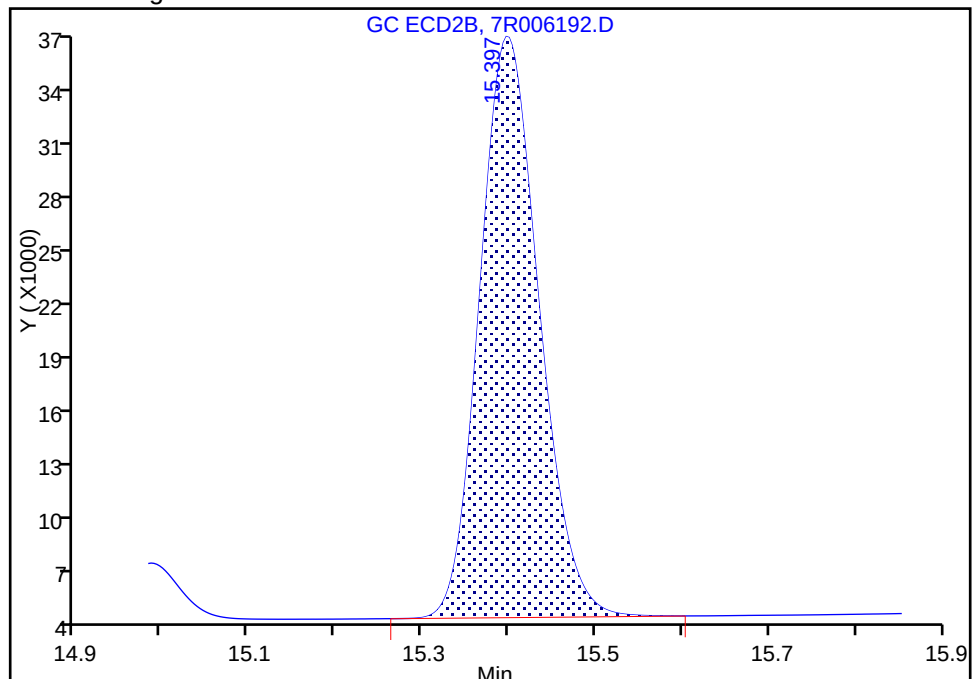
RT: 15.40
Area: 152762
Amount: 102.4342
Amount Units: ug/l

Processing Integration Results



RT: 15.40
Area: 151425
Amount: 102.4895
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:17:00

Audit Action: Manually Integrated

Audit Reason: Peak not integrated

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006193.D
 Lims ID: IC PCB 4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 29-Jul-2017 13:01:42 ALS Bottle#: 8 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-005
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:00 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 13:46:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.527	-0.004	48194	20.0	20.0
2	2.917	2.917	0.000	25756	20.0	20.0

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

M

1	5.367	5.367	0.000	310880	150.0	146.6	M
2	4.327	4.327	0.000	213680	150.0	155.0	M

RPD = 5.59

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.410	6.410	0.000	66792	1500.0	1364.9	M
1	7.197	7.197	0.000	137720	1500.0	1407.6	M
1	8.027	8.027	0.000	258161	1500.0	1355.2	M
1	8.270	8.273	-0.003	116054	1500.0	1312.2	M
1	8.450	8.453	-0.003	92488	1500.0	1394.7	M
1	9.103	9.107	-0.004	86296	1500.0	1333.4	M
1	9.317	9.317	0.000	94624	1500.0	1384.0	M
1	9.833	9.833	0.000	88743	1500.0	1407.2	M

Average of Peak Amounts = 1369.9

2	5.060	5.060	0.000	49118	1500.0	1394.5	M
2	5.717	5.717	0.000	92641	1500.0	1385.2	M
2	6.067	6.067	0.000	58480	1500.0	1413.5	M
2	6.537	6.537	0.000	178511	1500.0	1415.1	M
2	6.770	6.770	0.000	76420	1500.0	1392.0	M
2	6.873	6.873	0.000	46724	1500.0	1386.5	M
2	7.483	7.483	0.000	76899	1500.0	1441.3	M
2	8.127	8.127	0.000	43721	1500.0	1363.7	M

Average of Peak Amounts = 1399.0

RPD = 2.10

8 PCB-1260

							M
1	11.133	11.137	-0.004	91923	1500.0	1369.6	M
1	11.500	11.500	0.000	189260	1500.0	1364.0	M
1	12.053	12.053	0.000	225287	1500.0	1378.8	M
1	13.333	13.333	0.000	167063	1500.0	1430.1	M
1	14.090	14.093	-0.003	162721	1500.0	1440.5	M
1	14.730	14.730	0.000	329685	1500.0	1408.5	
1	15.547	15.550	-0.003	242316	1500.0	1442.0	
1	16.533	16.533	0.000	82158	1500.0	1442.9	

Average of Peak Amounts = 1409.5

2	9.520	9.523	-0.003	111902	1500.0	1388.6	M
2	10.443	10.447	-0.004	186860	1500.0	1426.4	M
2	10.667	10.670	-0.003	89849	1500.0	1412.6	M
2	11.150	11.153	-0.003	95164	1500.0	1425.2	M
2	11.893	11.897	-0.004	218709	1500.0	1445.7	M
2	12.647	12.650	-0.003	115601	1500.0	1475.8	
2	12.907	12.910	-0.003	57128	1500.0	1464.6	
2	14.323	14.323	0.000	57238	1500.0	1491.0	

Average of Peak Amounts = 1441.2

RPD = 2.22

\$ 11 DCB Decachlorobiphenyl

1	17.187	17.187	0.000	235252	150.0	140.4	
2	15.397	15.397	0.000	218632	150.0	145.5	

RPD = 3.51

S 12 Polychlorinated biphenyls, Total

1						2779.4	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L4_00023

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Injection Date: 29-Jul-2017 13:01:42

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC PCB 4

Worklist Smp#: 5

Client ID:

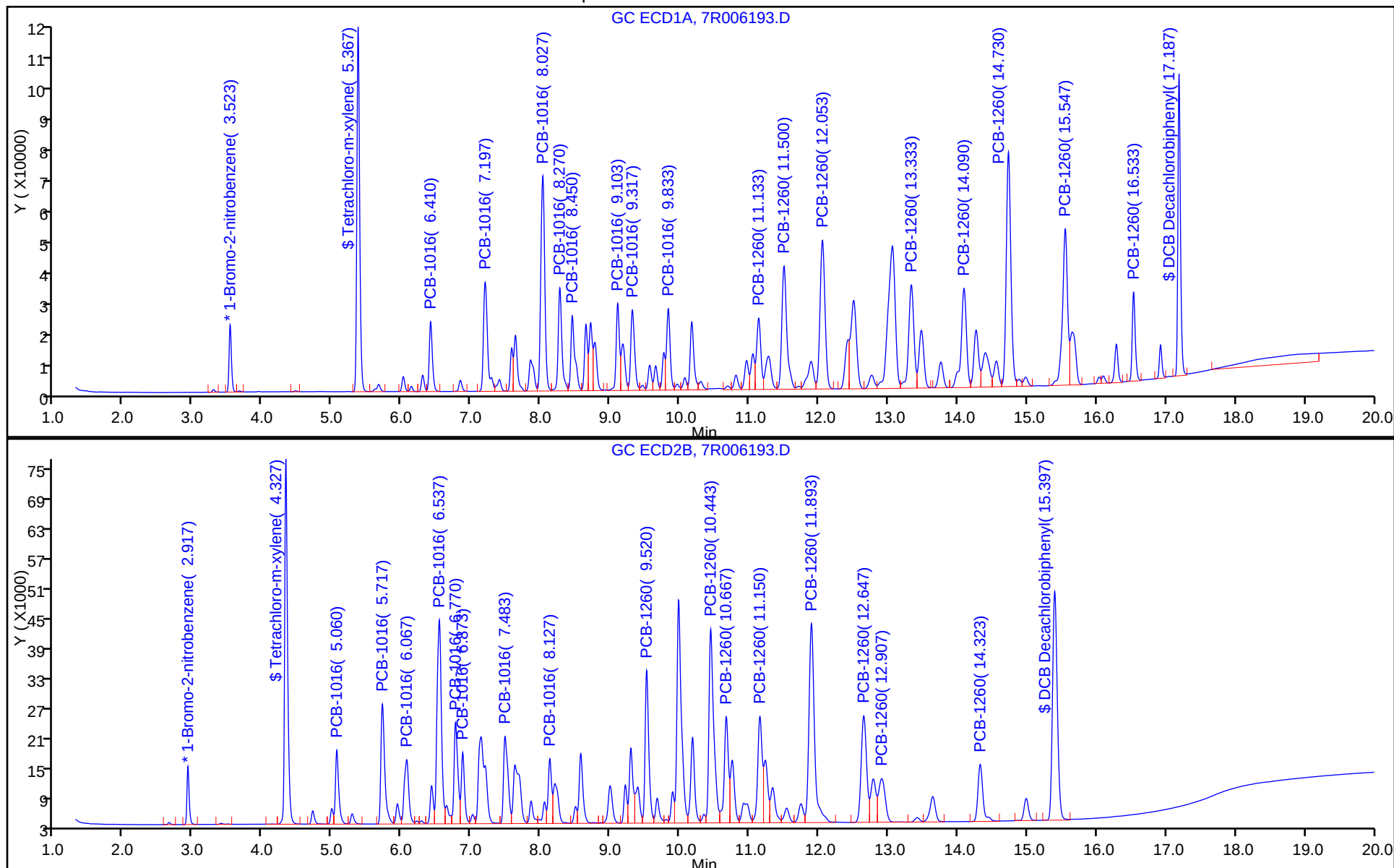
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Injection Date: 29-Jul-2017 13:01:42

Instrument ID: CPESTGC7

Lims ID: IC PCB 4

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

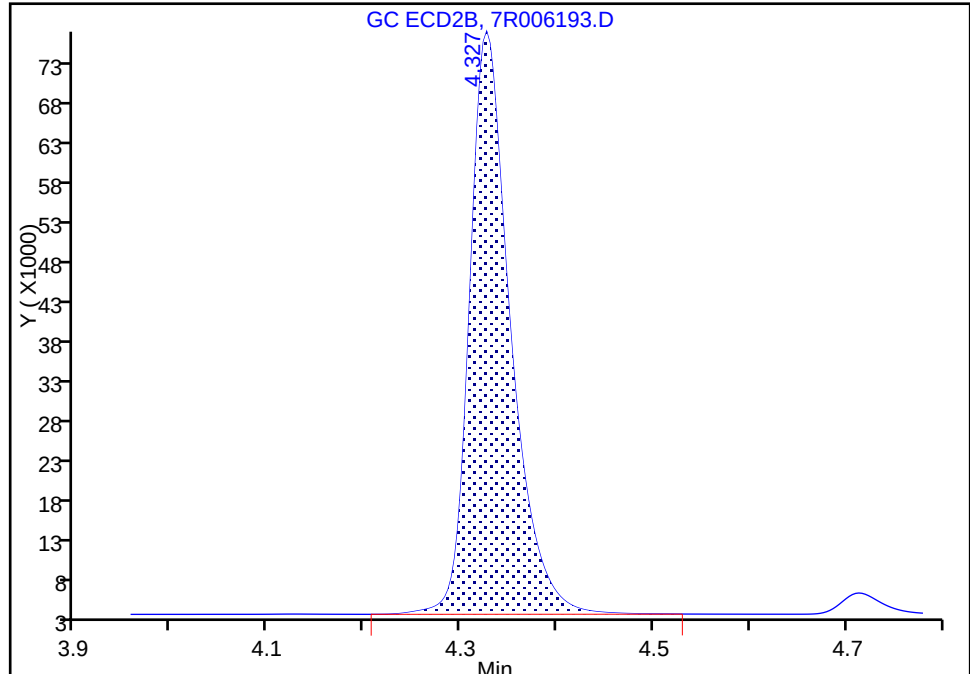
Detector GC ECD2B

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

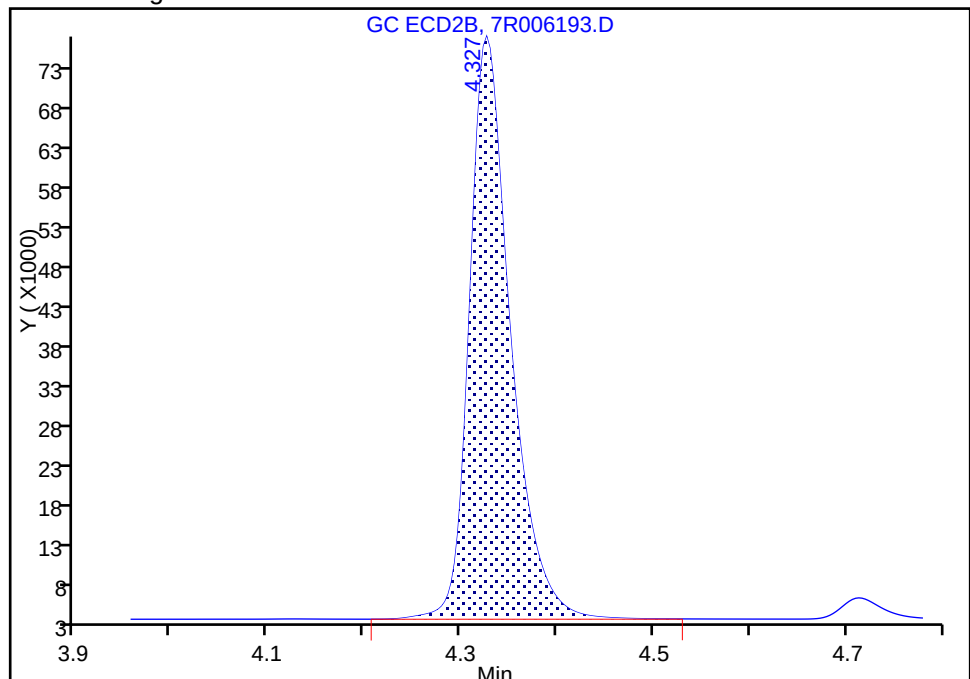
RT: 4.33
Area: 213457
Amount: 159.4246
Amount Units: ug/l

Processing Integration Results



RT: 4.33
Area: 213680
Amount: 155.0388
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:45:42

Audit Action: Assigned New Baseline

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Injection Date: 29-Jul-2017 13:01:42

Instrument ID: CPESTGC7

Lims ID: IC PCB 4

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

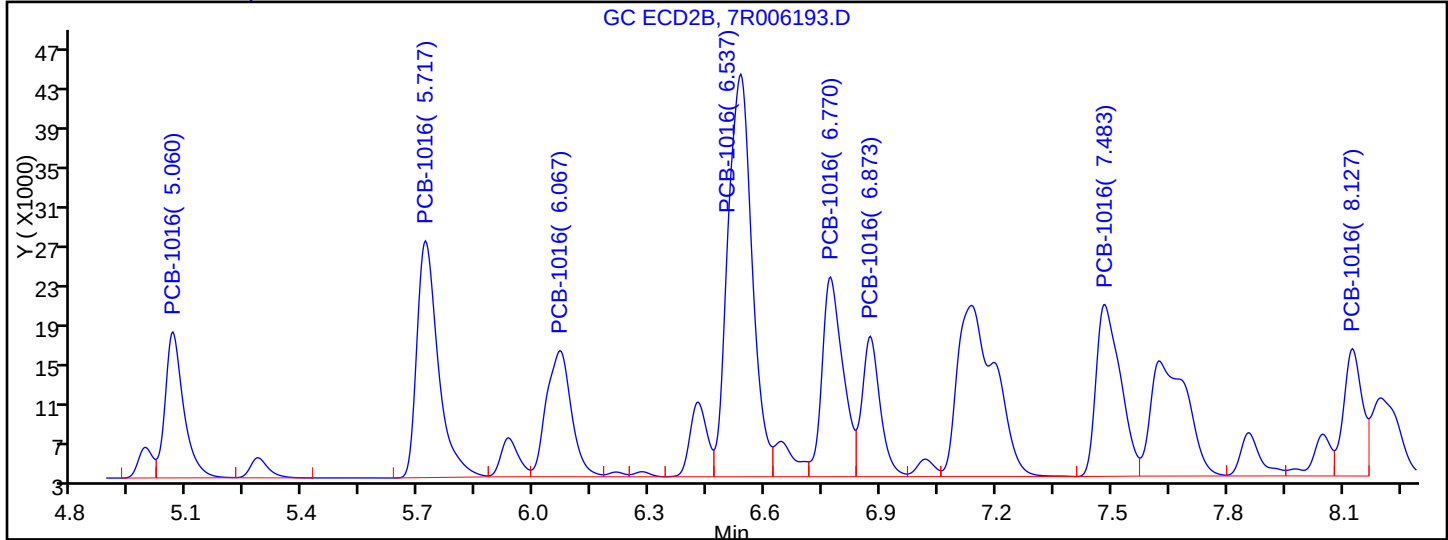
GC 8082A PCB ISTD

Column:

Detector

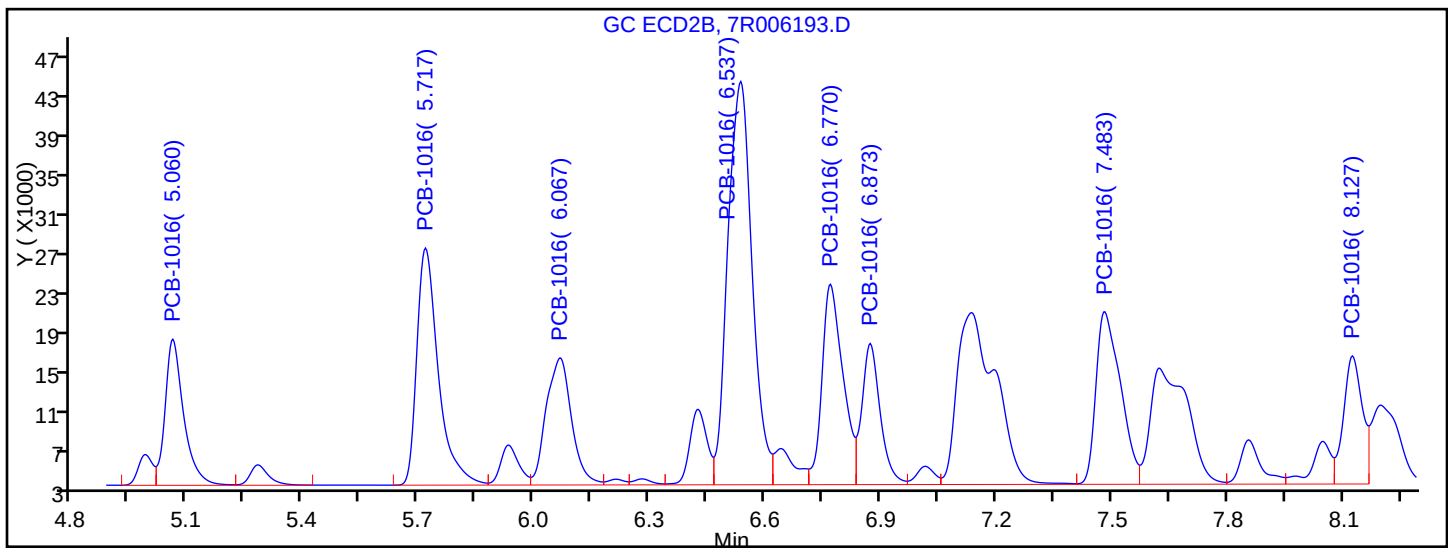
GC ECD2B

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



Processing Integration Results

5.060	Response = 48771
5.717	Response = 91864
6.067	Response = 57260
6.537	Response = 177733
6.770	Response = 75836
6.873	Response = 46116
7.483	Response = 76105
8.127	Response = 43273



Manual Integration Results

5.060	Response = 49118	M
5.717	Response = 92641	M
6.067	Response = 58480	M
6.537	Response = 178511	M
6.770	Response = 76420	M
6.873	Response = 46724	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006193.D

Injection Date: 29-Jul-2017 13:01:42

Instrument ID: CPESTGC7

Lims ID: IC PCB 4

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

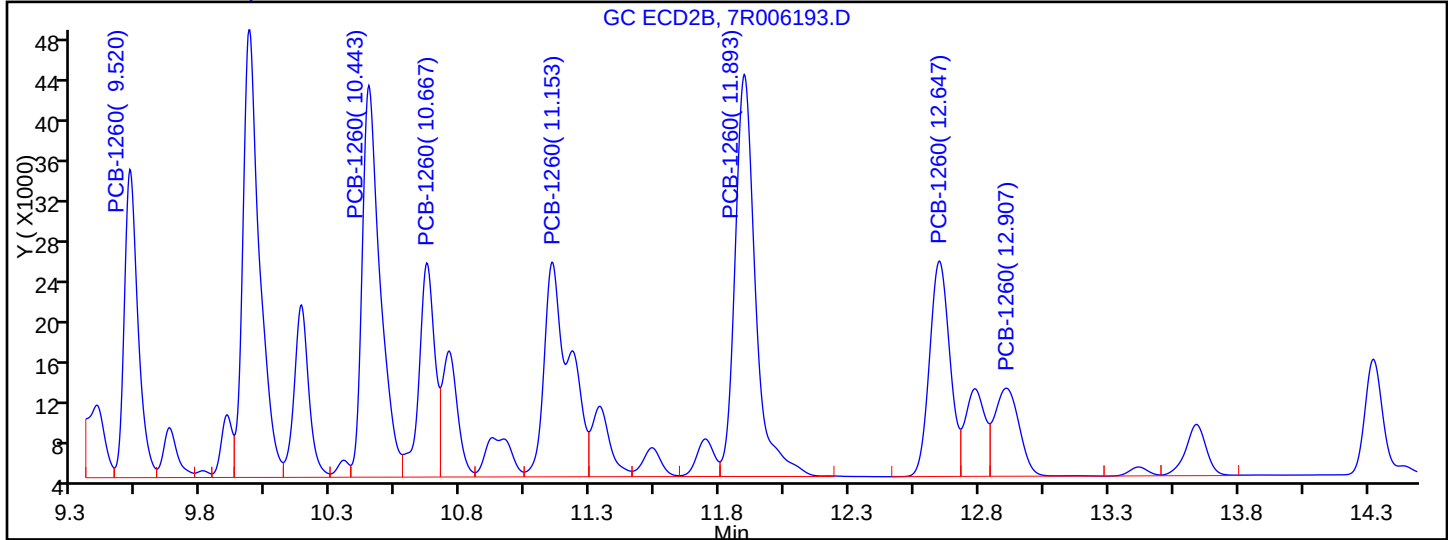
GC 8082A PCB ISTD

Column:

Detector

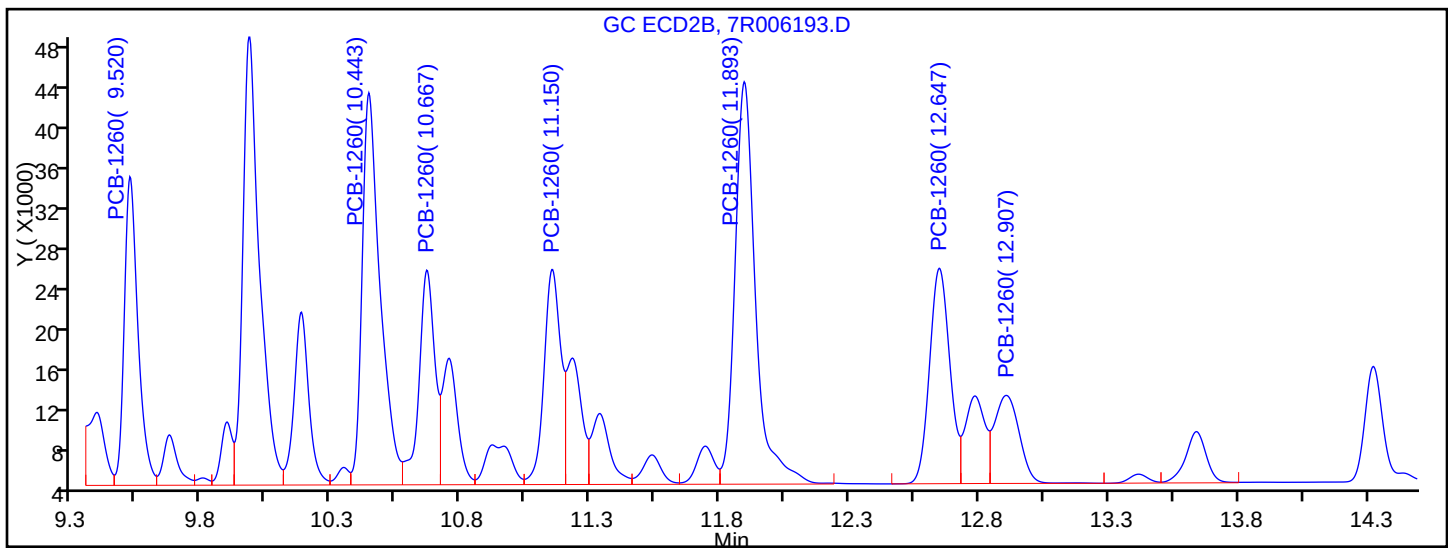
GC ECD2B

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



Processing Integration Results

9.520	Response = 111456
10.443	Response = 186284
10.667	Response = 89417
11.153	Response = 144640
11.893	Response = 217600
12.647	Response = 115601
12.907	Response = 57128
14.323	Response = 57238



Manual Integration Results

9.520	Response = 111902	M
10.443	Response = 186860	M
10.667	Response = 89849	M
11.150	Response = 95164	M
11.893	Response = 218709	M
12.647	Response = 115601	M

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006194.D
 Lims ID: IC PCB 5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 29-Jul-2017 13:25:13 ALS Bottle#: 9 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-006
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:04 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 13:47:50

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.527	-0.004	46183	20.0	20.0
2	2.917	2.917	0.000	24781	20.0	20.0

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

M

1	5.367	5.367	0.000	419548	200.0	206.5	M
2	4.327	4.327	0.000	294184	200.0	221.8	M

RPD = 7.18

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.410	6.410	0.000	105119	2500.0	2241.7	M
1	7.197	7.197	0.000	217261	2500.0	2317.3	M
1	8.027	8.027	0.000	408335	2500.0	2236.9	M
1	8.270	8.273	-0.003	182475	2500.0	2153.1	M
1	8.450	8.453	-0.003	147511	2500.0	2321.2	M
1	9.107	9.107	0.000	135236	2500.0	2180.5	M
1	9.317	9.317	0.000	152344	2500.0	2325.2	M
1	9.833	9.833	0.000	137569	2500.0	2276.4	M

Average of Peak Amounts =

2256.6

2	5.060	5.060	0.000	78366	2500.0	2312.4	M
2	5.717	5.717	0.000	147880	2500.0	2298.2	M
2	6.067	6.067	0.000	95725	2500.0	2404.7	M
2	6.537	6.537	0.000	289515	2500.0	2385.4	M
2	6.770	6.770	0.000	126256	2500.0	2390.3	M
2	6.873	6.873	0.000	79928	2500.0	2465.2	M
2	7.480	7.483	-0.003	127126	2500.0	2476.5	M
2	8.127	8.127	0.000	70699	2500.0	2291.9	M

Average of Peak Amounts =

2378.1

RPD = 5.24

8 PCB-1260

							M
1	11.137	11.137	0.000	147002	2500.0	2285.6	M
1	11.500	11.500	0.000	297645	2500.0	2238.5	M
1	12.053	12.053	0.000	356926	2500.0	2279.6	M
1	13.333	13.333	0.000	265770	2500.0	2374.2	M
1	14.093	14.093	0.000	260296	2500.0	2404.7	
1	14.730	14.730	0.000	532186	2500.0	2372.6	
1	15.547	15.550	-0.003	390502	2500.0	2425.0	
1	16.533	16.533	0.000	132875	2500.0	2435.2	

Average of Peak Amounts =

2351.9

2	9.523	9.523	0.000	179666	2500.0	2317.3	M
2	10.443	10.447	-0.004	306239	2500.0	2429.7	M
2	10.670	10.670	0.000	143988	2500.0	2352.8	M
2	11.153	11.153	0.000	154223	2500.0	2400.6	M
2	11.897	11.897	0.000	361605	2500.0	2484.4	M
2	12.650	12.650	0.000	193098	2500.0	2562.1	
2	12.907	12.910	-0.003	96772	2500.0	2578.6	
2	14.323	14.323	0.000	95509	2500.0	2585.8	

Average of Peak Amounts =

2463.9

RPD = 4.65

\$ 11 DCB Decachlorobiphenyl

1	17.187	17.187	0.000	316500	200.0	197.2	
2	15.397	15.397	0.000	292484	200.0	202.2	

RPD = 2.54

S 12 Polychlorinated biphenyls, Total

1						4608.5	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L5_00023

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Injection Date: 29-Jul-2017 13:25:13

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC PCB 5

Worklist Smp#: 6

Client ID:

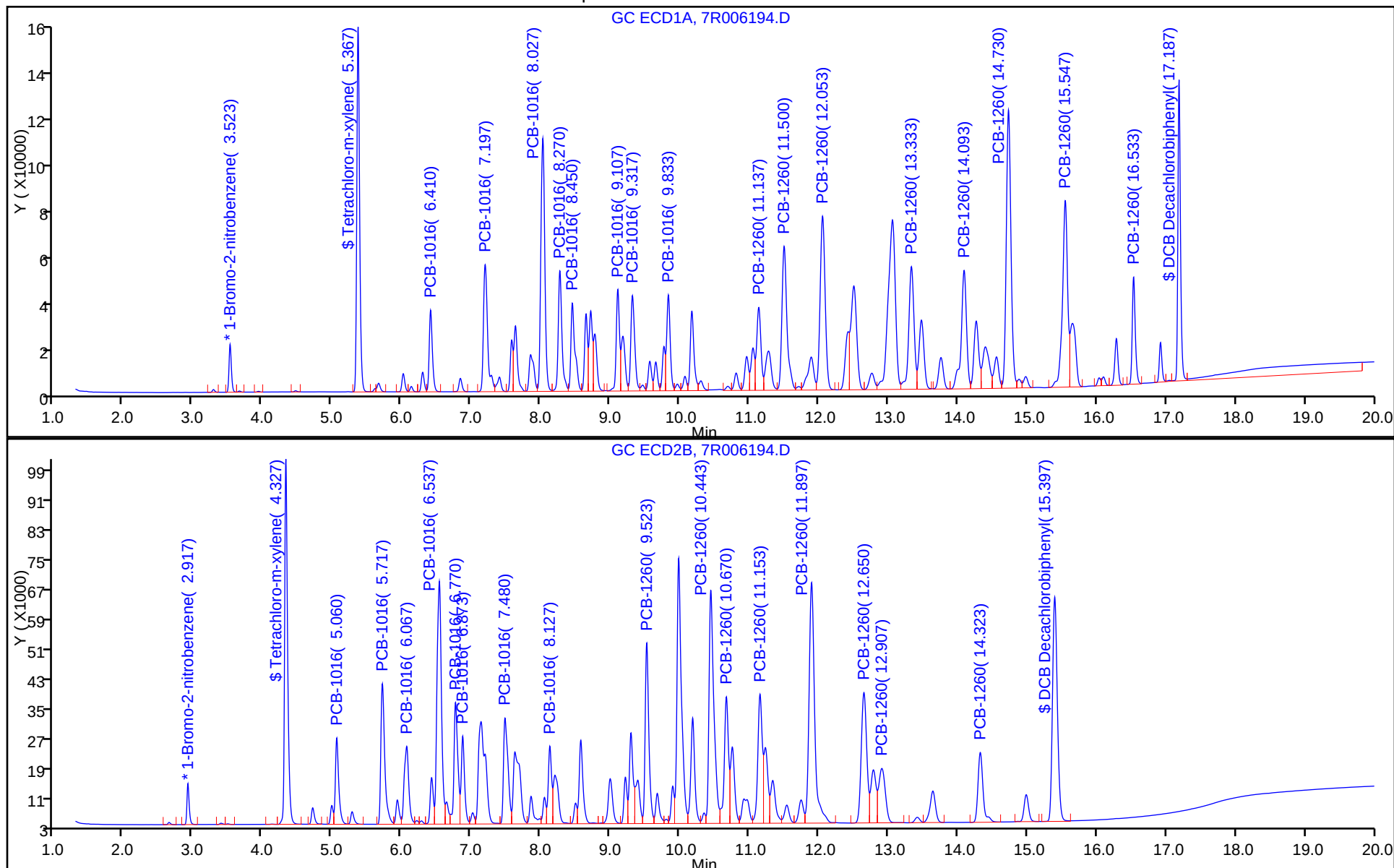
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D
Injection Date: 29-Jul-2017 13:25:13 Instrument ID: CPESTGC7
Lims ID: IC PCB 5
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8082.ISTD
Column:

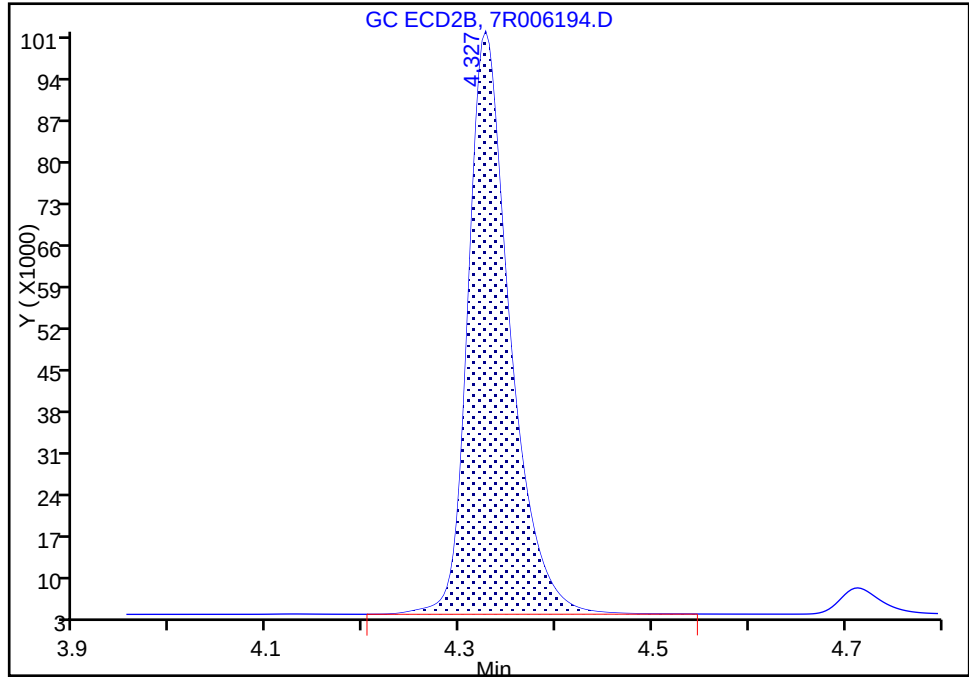
ALS Bottle#: 9 Worklist Smp#: 6
Dil. Factor: 1.0000
Limit Group: GC 8082A PCB ISTD
Detector: GC ECD2B

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

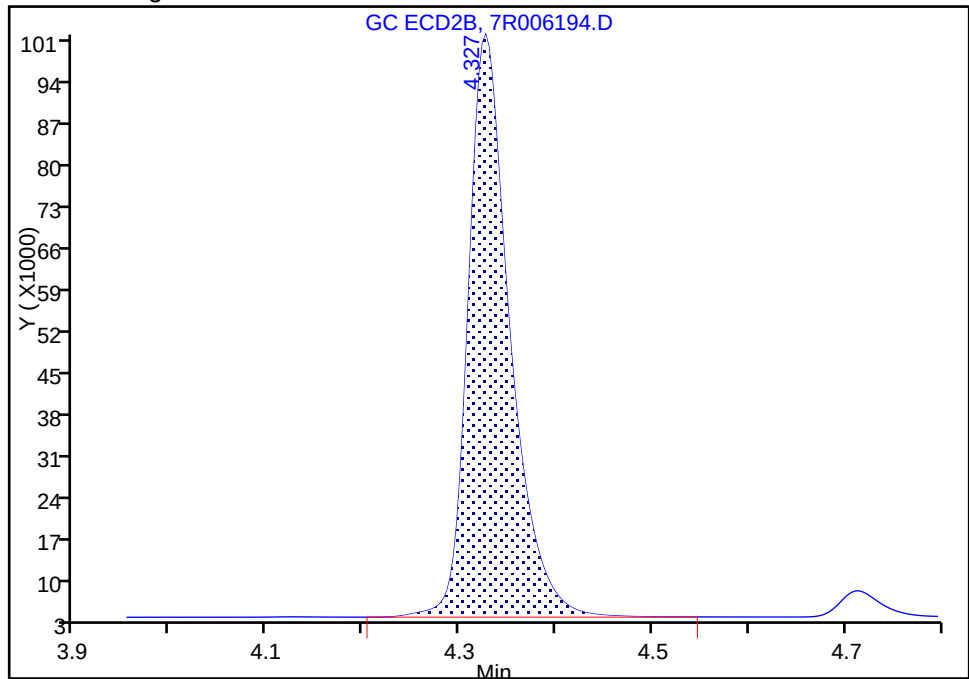
RT: 4.33
Area: 293988
Amount: 221.9007
Amount Units: ug/l

Processing Integration Results



RT: 4.33
Area: 294184
Amount: 221.8478
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 13:47:37

Audit Action: Assigned New Baseline

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Injection Date: 29-Jul-2017 13:25:13

Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

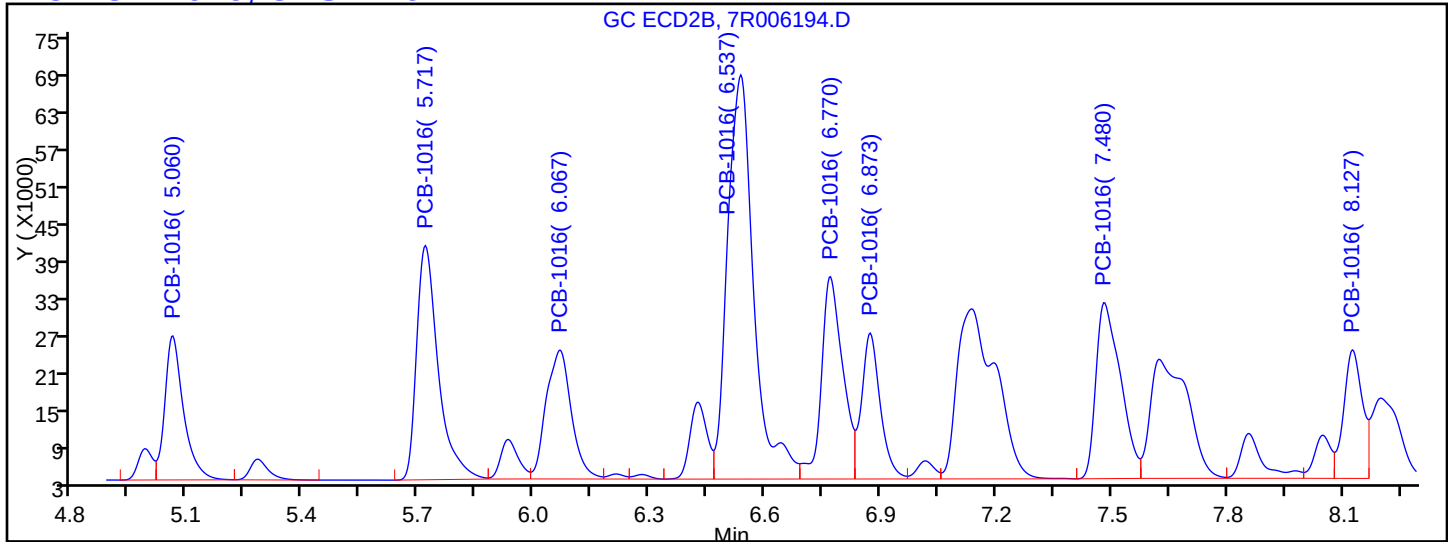
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

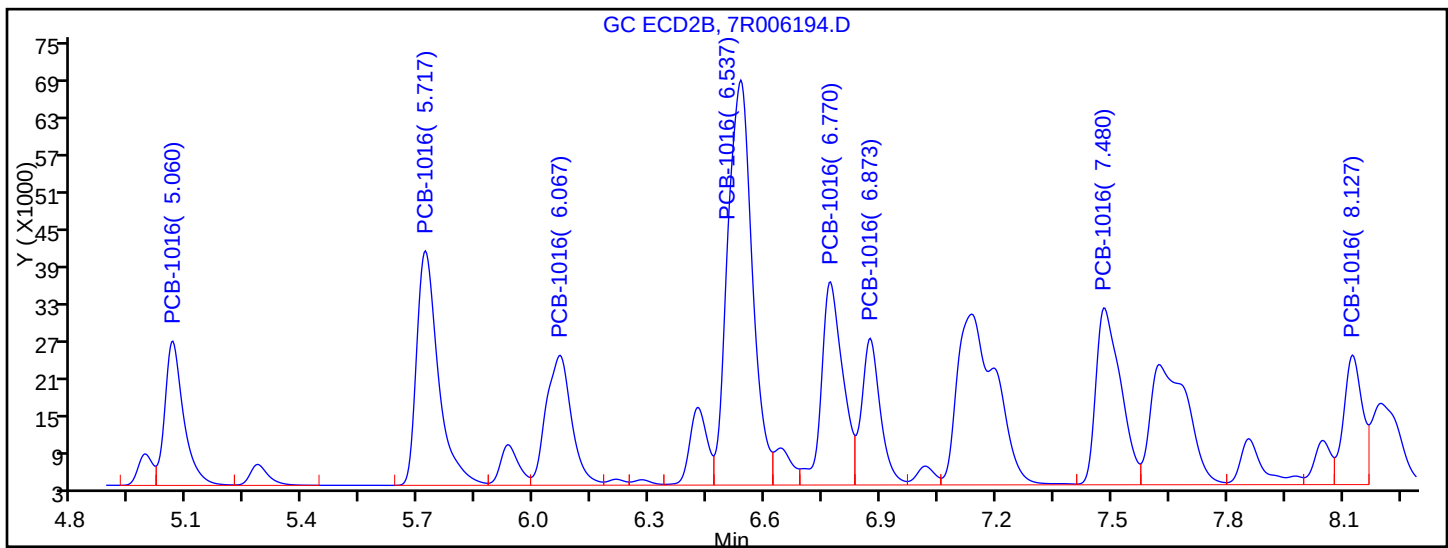
Detector GC ECD2B

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



Processing Integration Results

5.060	Response = 77878
5.717	Response = 146756
6.067	Response = 93935
6.537	Response = 306823
6.770	Response = 125228
6.873	Response = 78957
7.480	Response = 125651
8.127	Response = 69889



Manual Integration Results

5.060	Response = 78366	M
5.717	Response = 147880	M
6.067	Response = 95725	M
6.537	Response = 289515	M
6.770	Response = 126256	M
6.873	Response = 79928	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006194.D

Injection Date: 29-Jul-2017 13:25:13

Instrument ID: CPESTGC7

Lims ID: IC PCB 5

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

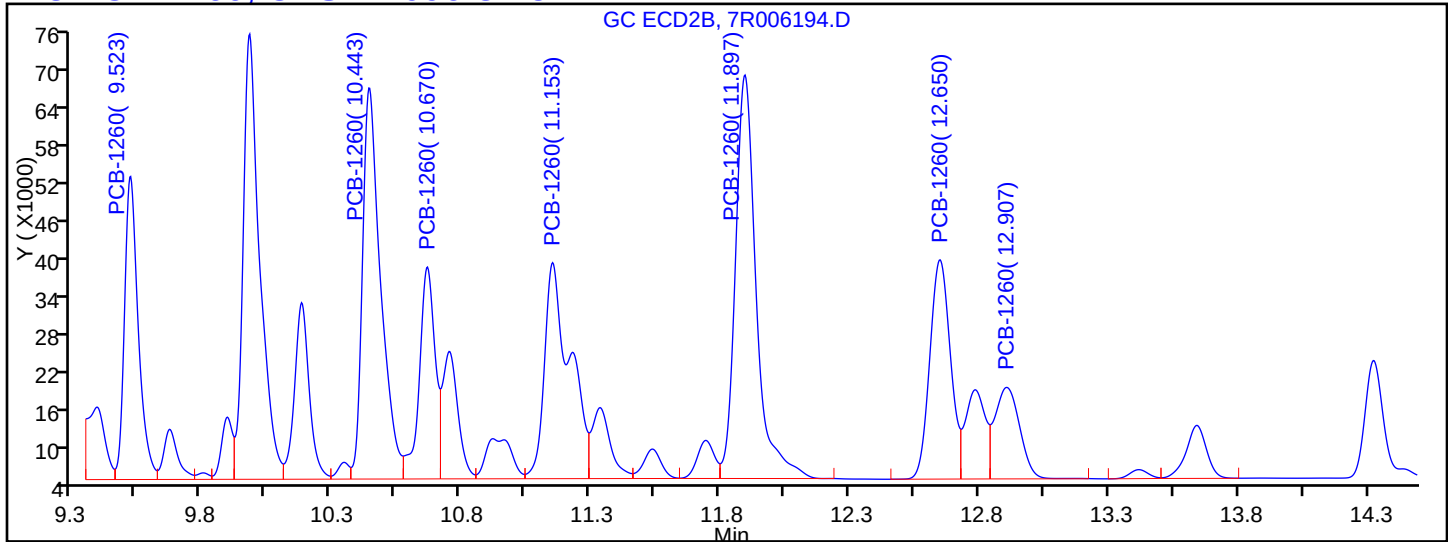
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

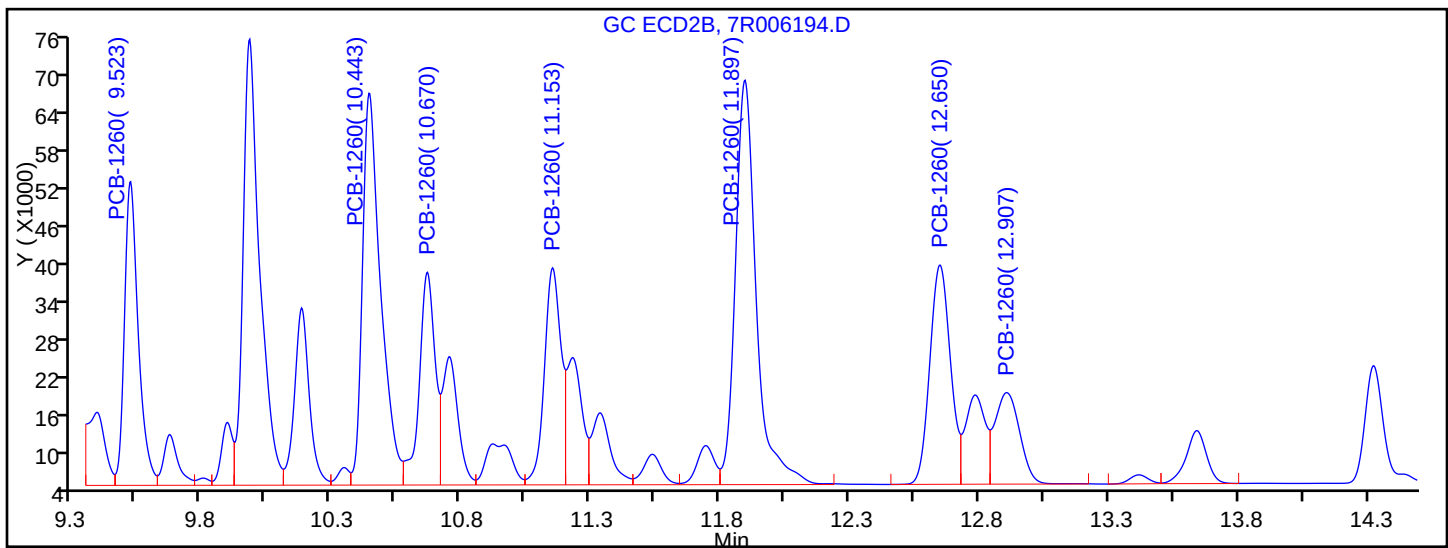
Detector GC ECD2B

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



Processing Integration Results

9.523	Response = 178711
10.443	Response = 304665
10.670	Response = 142823
11.153	Response = 235139
11.897	Response = 358028
12.650	Response = 193098
12.907	Response = 96772
14.323	Response = 95509



Manual Integration Results

9.523	Response = 179666	M
10.443	Response = 306239	M
10.670	Response = 143988	M
11.153	Response = 154223	M
11.897	Response = 361605	M
12.650	Response = 193098	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 14:59 Calibration End Date: 07/29/2017 14:59 Calibration ID: 63422

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/8	7R006196.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0080					Ave		0.0080						20.0			0.9900
PCB-1221 Peak 2	0.0114					Ave		0.0114						20.0			0.9900
PCB-1221 Peak 3	0.0077					Ave		0.0077						20.0			0.9900
PCB-1221 Peak 4	0.0268					Ave		0.0268						20.0			0.9900
PCB-1221 Peak 5	0.0057					Ave		0.0057						20.0			0.9900
PCB-1221 Peak 6	0.0058					Ave		0.0058						20.0			0.9900
PCB-1221 Peak 7	0.0031					Ave		0.0031						20.0			0.9900
PCB-1221 Peak 8	0.0015					Ave		0.0015						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 14:59 Calibration End Date: 07/29/2017 14:59 Calibration ID: 63422

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/8	7R006196.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	19413					1000				
PCB-1221 Peak 2	BNB	Ave	27614					1000				
PCB-1221 Peak 3	BNB	Ave	18691					1000				
PCB-1221 Peak 4	BNB	Ave	64876					1000				
PCB-1221 Peak 5	BNB	Ave	13791					1000				
PCB-1221 Peak 6	BNB	Ave	14006					1000				
PCB-1221 Peak 7	BNB	Ave	7484					1000				
PCB-1221 Peak 8	BNB	Ave	3709					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006196.D
 Lims ID: IC 1221
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 14:59:59 ALS Bottle#: 2 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-008
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub2
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:14 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji Date: 29-Jul-2017 20:15:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene M
 1 3.527 3.527 0.000 48351 20.0 20.0 M
 2 2.913 2.913 0.000 26017 20.0 20.0

RPD = 0.00

1 PCB-1221 M
 1 4.470 4.470 0.000 19413 1000.0 1000.0
 1 6.020 6.020 0.000 27614 1000.0 1000.0
 1 6.300 6.300 0.000 18691 1000.0 1000.0
 1 6.413 6.413 0.000 64876 1000.0 1000.0
 1 7.290 7.290 0.000 13791 1000.0 1000.0 M
 1 8.030 8.030 0.000 14006 1000.0 1000.0
 1 8.277 8.277 0.000 7484 1000.0 1000.0
 1 8.453 8.453 0.000 3709 1000.0 1000.0

Average of Peak Amounts = 1000.0

2 3.390 3.390 0.000 15226 1000.0 1000.0
 2 4.710 4.710 0.000 17402 1000.0 1000.0
 2 4.987 4.987 0.000 10396 1000.0 1000.0
 2 5.057 5.057 0.000 47458 1000.0 1000.0
 2 5.720 5.720 0.000 4775 1000.0 1000.0 M
 2 5.933 5.933 0.000 9334 1000.0 1000.0
 2 6.537 6.537 0.000 7883 1000.0 1000.0 M
 2 6.770 6.770 0.000 3438 1000.0 1000.0

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1221L3_00028

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006196.D

Injection Date: 29-Jul-2017 14:59:59

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1221

Worklist Smp#: 8

Client ID:

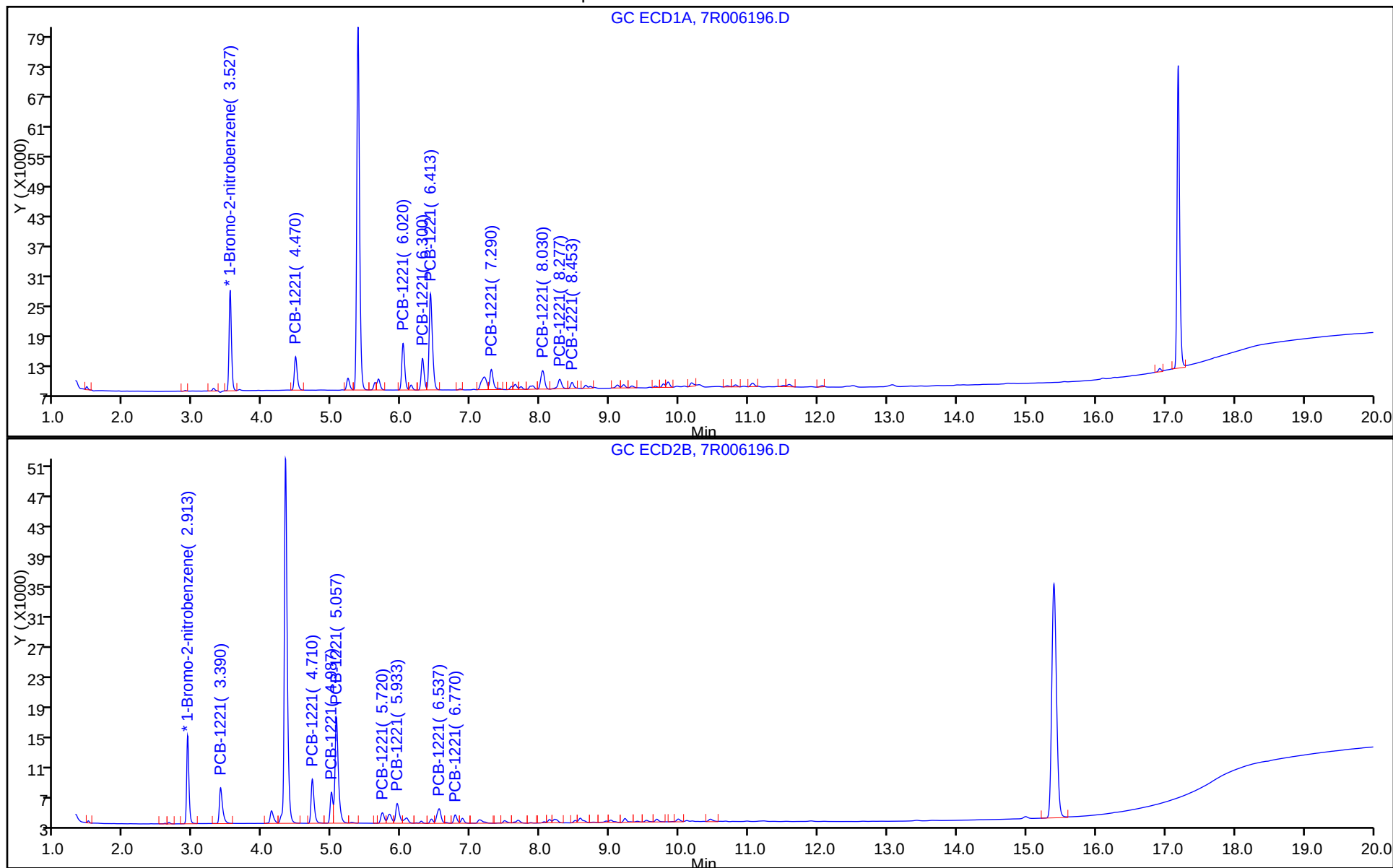
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006196.D
Injection Date: 29-Jul-2017 14:59:59 Instrument ID: CPESTGC7
Lims ID: IC 1221
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8082.ISTD
Column:

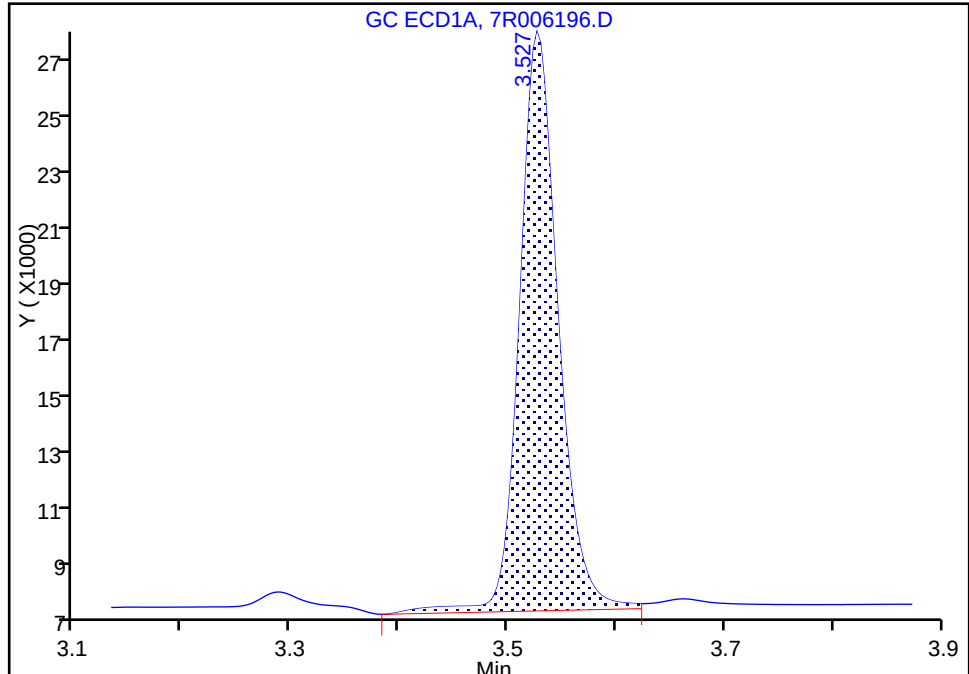
ALS Bottle#: 2 Worklist Smp#: 8
Dil. Factor: 1.0000
Limit Group: GC 8082A PCB ISTD
Detector: GC ECD1A

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

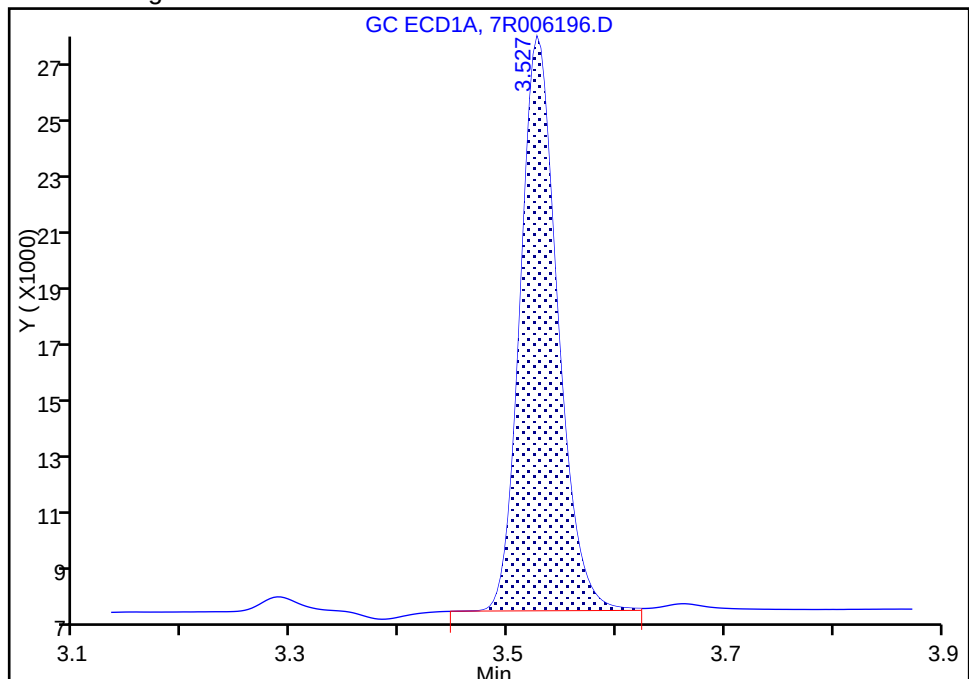
RT: 3.53
Area: 50677
Amount: 20.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.53
Area: 48351
Amount: 20.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 20:15:40

Audit Action: Manually Integrated

Audit Reason: Sample matrix interference

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006196.D

Injection Date: 29-Jul-2017 14:59:59

Instrument ID: CPESTGC7

Lims ID: IC 1221

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#:

8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

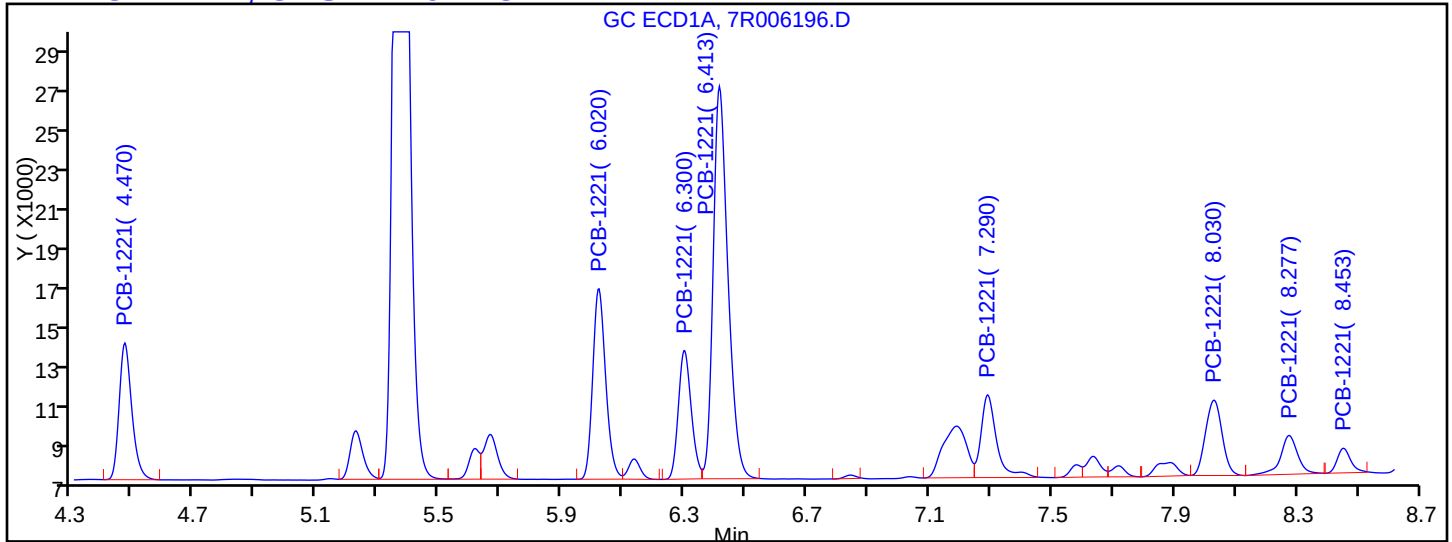
Limit Group:

GC 8082A PCB ISTD

Column:

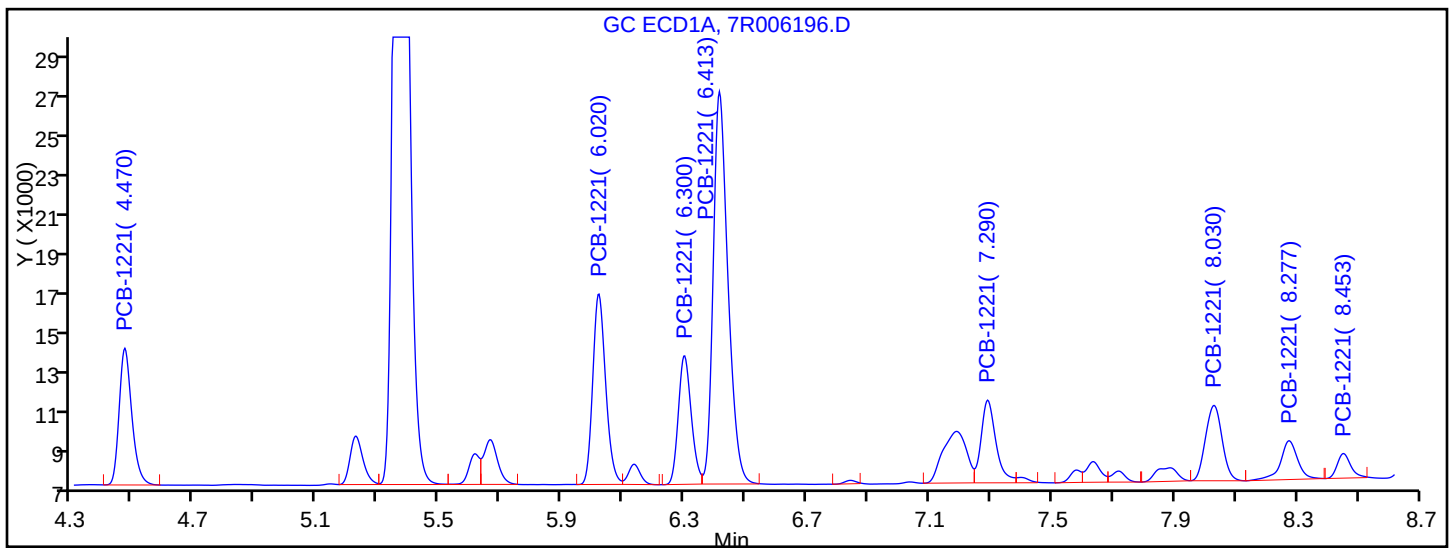
Detector

GC ECD1A

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

Processing Integration Results

4.470	Response = 19413
6.020	Response = 27614
6.300	Response = 18691
6.413	Response = 64876
7.290	Response = 14496
8.030	Response = 14006
8.277	Response = 7484
8.453	Response = 3709



Manual Integration Results

4.470	Response = 19413
6.020	Response = 27614
6.300	Response = 18691
6.413	Response = 64876
7.290	Response = 13791
8.030	Response = 14006

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 14:59 Calibration End Date: 07/29/2017 14:59 Calibration ID: 63423

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/8	7R006196.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1221 Peak 1	0.0117					Ave		0.0117						20.0			0.9900
PCB-1221 Peak 2	0.0134					Ave		0.0134						20.0			0.9900
PCB-1221 Peak 3	0.0080					Ave		0.0080						20.0			0.9900
PCB-1221 Peak 4	0.0365					Ave		0.0365						20.0			0.9900
PCB-1221 Peak 5	0.0037					Ave		0.0037						20.0			0.9900
PCB-1221 Peak 6	0.0072					Ave		0.0072						20.0			0.9900
PCB-1221 Peak 7	0.0061					Ave		0.0061						20.0			0.9900
PCB-1221 Peak 8	0.0026					Ave		0.0026						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 14:59 Calibration End Date: 07/29/2017 14:59 Calibration ID: 63423

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/8	7R006196.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1221 Peak 1	BNB	Ave	15226					1000				
PCB-1221 Peak 2	BNB	Ave	17402					1000				
PCB-1221 Peak 3	BNB	Ave	10396					1000				
PCB-1221 Peak 4	BNB	Ave	47458					1000				
PCB-1221 Peak 5	BNB	Ave	4775					1000				
PCB-1221 Peak 6	BNB	Ave	9334					1000				
PCB-1221 Peak 7	BNB	Ave	7883					1000				
PCB-1221 Peak 8	BNB	Ave	3438					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006196.D
 Lims ID: IC 1221
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 14:59:59 ALS Bottle#: 2 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-008
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub2
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:14 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 20:15:04

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene M
 1 3.527 3.527 0.000 48351 20.0 20.0 M
 2 2.913 2.913 0.000 26017 20.0 20.0

RPD = 0.00

1 PCB-1221 M
 1 4.470 4.470 0.000 19413 1000.0 1000.0
 1 6.020 6.020 0.000 27614 1000.0 1000.0
 1 6.300 6.300 0.000 18691 1000.0 1000.0
 1 6.413 6.413 0.000 64876 1000.0 1000.0
 1 7.290 7.290 0.000 13791 1000.0 1000.0 M
 1 8.030 8.030 0.000 14006 1000.0 1000.0
 1 8.277 8.277 0.000 7484 1000.0 1000.0
 1 8.453 8.453 0.000 3709 1000.0 1000.0

Average of Peak Amounts = 1000.0

2 3.390 3.390 0.000 15226 1000.0 1000.0
 2 4.710 4.710 0.000 17402 1000.0 1000.0
 2 4.987 4.987 0.000 10396 1000.0 1000.0
 2 5.057 5.057 0.000 47458 1000.0 1000.0
 2 5.720 5.720 0.000 4775 1000.0 1000.0 M
 2 5.933 5.933 0.000 9334 1000.0 1000.0
 2 6.537 6.537 0.000 7883 1000.0 1000.0 M
 2 6.770 6.770 0.000 3438 1000.0 1000.0

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1221L3_00028

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006196.D

Injection Date: 29-Jul-2017 14:59:59

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1221

Worklist Smp#: 8

Client ID:

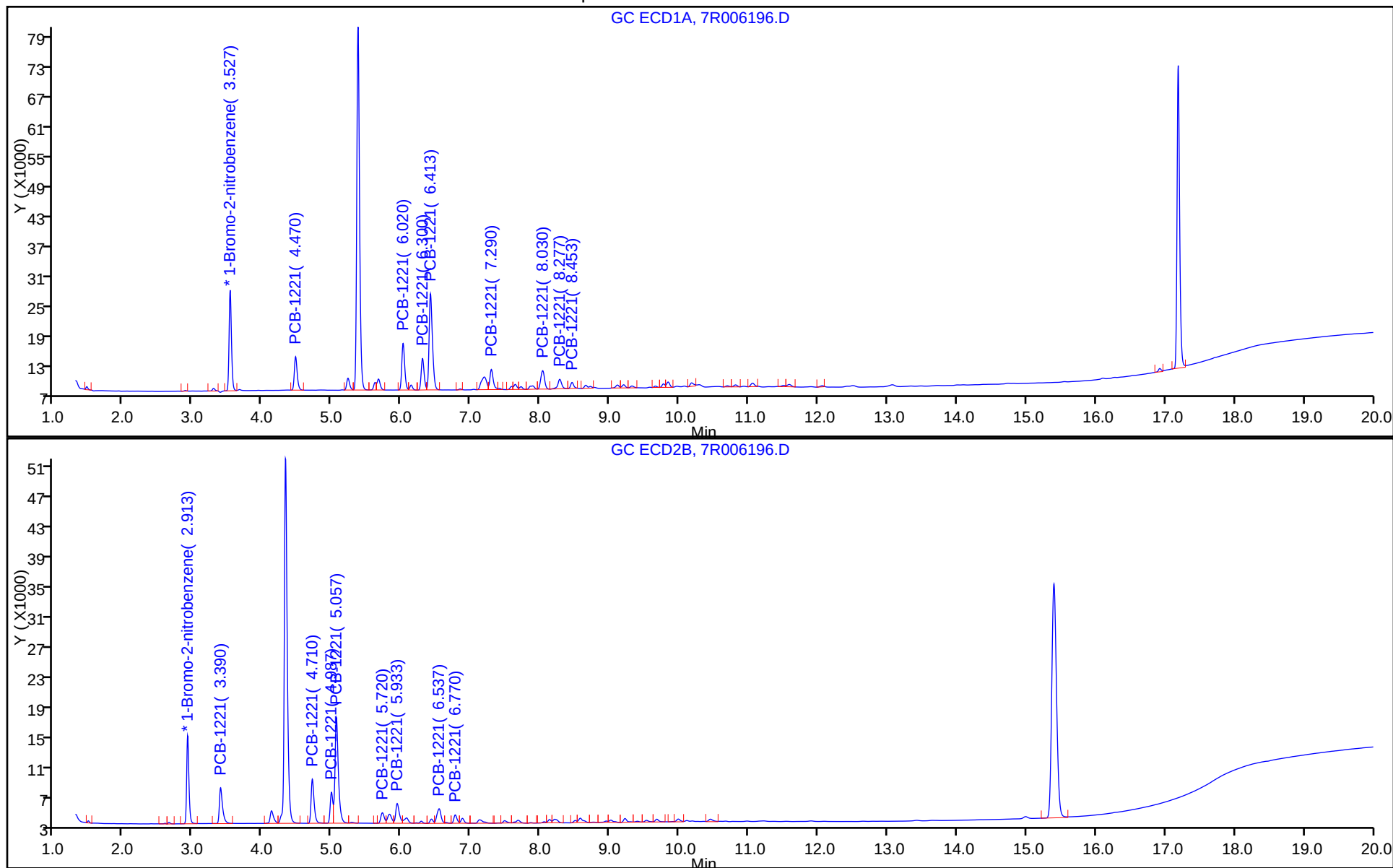
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006196.D

Injection Date: 29-Jul-2017 14:59:59

Instrument ID: CPESTGC7

Lims ID: IC 1221

Client ID:

Operator ID:

ALS Bottle#:

2

Worklist Smp#:

8

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

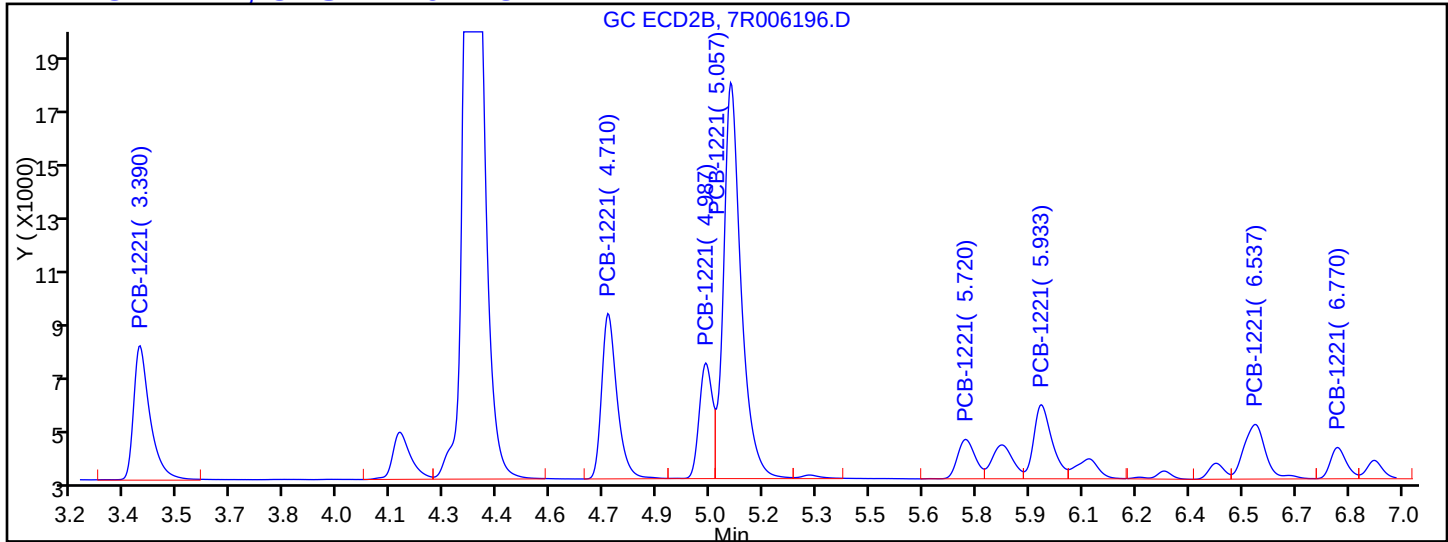
Limit Group:

GC 8082A PCB ISTD

Column:

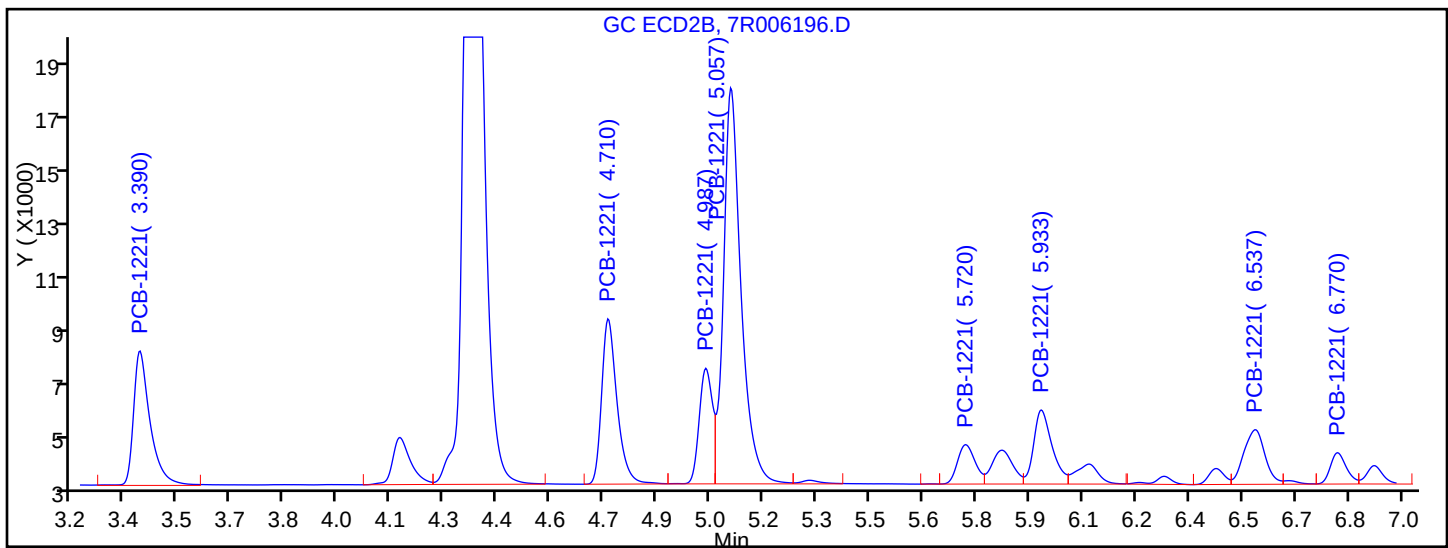
Detector

GC ECD2B

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

Processing Integration Results

3.390	Response = 15226
4.710	Response = 17402
4.987	Response = 10396
5.057	Response = 47458
5.720	Response = 4787
5.933	Response = 9334
6.537	Response = 8227
6.770	Response = 3438



Manual Integration Results

3.390	Response = 15226
4.710	Response = 17402
4.987	Response = 10396
5.057	Response = 47458
5.720	Response = 4775
5.933	Response = 9334

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 15:23 Calibration End Date: 07/29/2017 15:23 Calibration ID: 63428

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/9	7R006197.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0249					Ave		0.0249						20.0			0.9900
PCB-1232 Peak 2	0.0205					Ave		0.0205						20.0			0.9900
PCB-1232 Peak 3	0.0396					Ave		0.0396						20.0			0.9900
PCB-1232 Peak 4	0.0178					Ave		0.0178						20.0			0.9900
PCB-1232 Peak 5	0.0134					Ave		0.0134						20.0			0.9900
PCB-1232 Peak 6	0.0119					Ave		0.0119						20.0			0.9900
PCB-1232 Peak 7	0.0123					Ave		0.0123						20.0			0.9900
PCB-1232 Peak 8	0.0146					Ave		0.0146						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 15:23 Calibration End Date: 07/29/2017 15:23 Calibration ID: 63428

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/9	7R006197.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	60264					1000				
PCB-1232 Peak 2	BNB	Ave	49640					1000				
PCB-1232 Peak 3	BNB	Ave	96006					1000				
PCB-1232 Peak 4	BNB	Ave	43130					1000				
PCB-1232 Peak 5	BNB	Ave	32535					1000				
PCB-1232 Peak 6	BNB	Ave	28955					1000				
PCB-1232 Peak 7	BNB	Ave	29811					1000				
PCB-1232 Peak 8	BNB	Ave	35332					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006197.D
 Lims ID: IC 1232
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 15:23:31 ALS Bottle#: 3 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-009
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub3
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:17 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji Date: 29-Jul-2017 20:17:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48474	20.0	20.0	
2	2.917	2.917	0.000	26047	20.0	20.0	

RPD = 0.00

3 PCB-1232

M

1	6.410	6.410	0.000	60264	1000.0	1000.0	
1	7.197	7.197	0.000	49640	1000.0	1000.0	
1	8.027	8.027	0.000	96006	1000.0	1000.0	M
1	8.270	8.270	0.000	43130	1000.0	1000.0	M
1	8.450	8.450	0.000	32535	1000.0	1000.0	M
1	9.107	9.107	0.000	28955	1000.0	1000.0	M
1	9.770	9.770	0.000	29811	1000.0	1000.0	M
1	9.840	9.840	0.000	35332	1000.0	1000.0	M

Average of Peak Amounts = 1000.0

2	5.060	5.060	0.000	43412	1000.0	1000.0	
2	5.717	5.717	0.000	32279	1000.0	1000.0	M
2	6.067	6.067	0.000	20259	1000.0	1000.0	
2	6.537	6.537	0.000	60859	1000.0	1000.0	M
2	6.770	6.770	0.000	25798	1000.0	1000.0	
2	7.483	7.483	0.000	24449	1000.0	1000.0	
2	8.227	8.227	0.000	36671	1000.0	1000.0	M
2	8.560	8.560	0.000	14332	1000.0	1000.0	M

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1232L3_00027

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006197.D

Injection Date: 29-Jul-2017 15:23:31

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1232

Worklist Smp#: 9

Client ID:

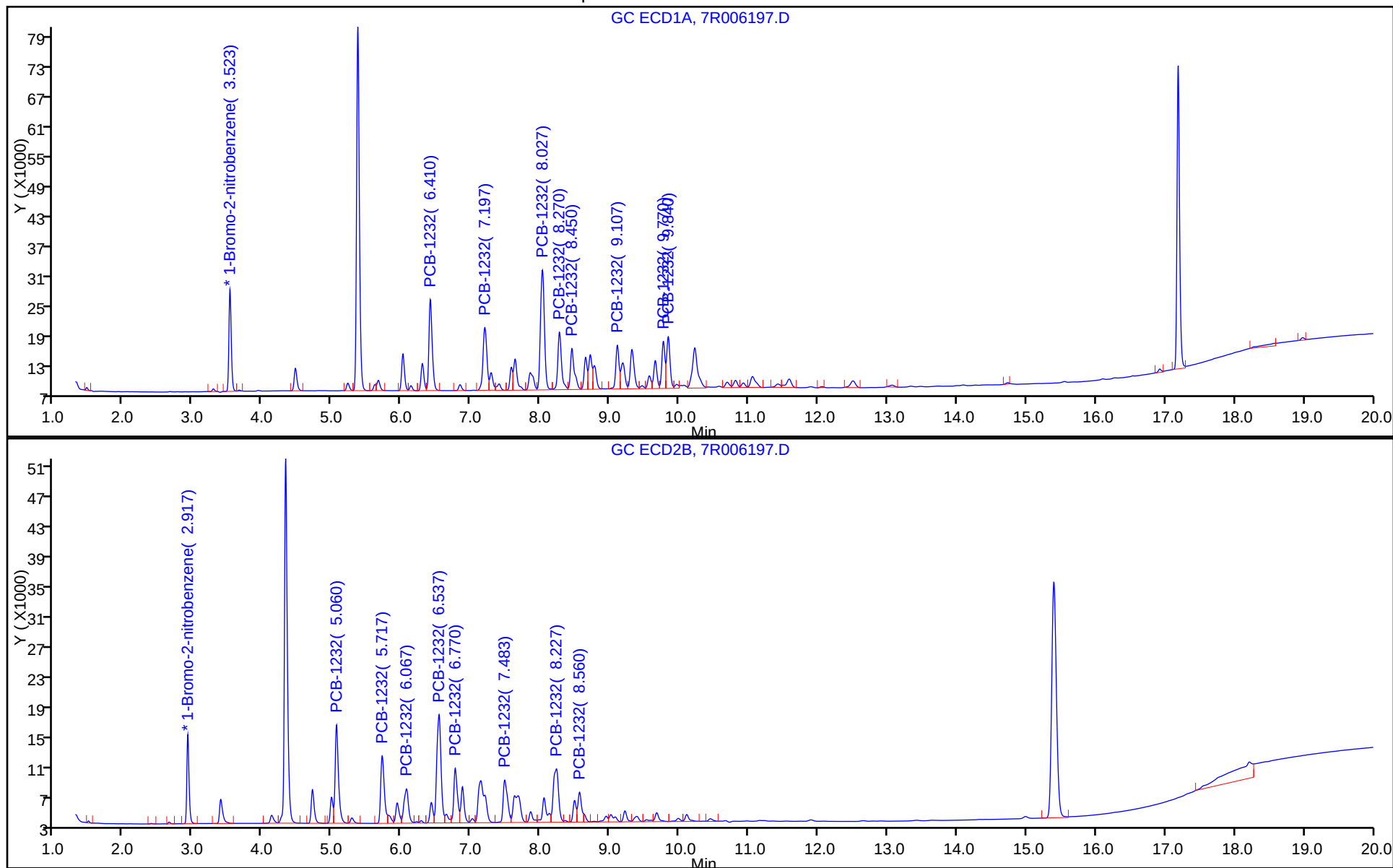
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006197.D

Injection Date: 29-Jul-2017 15:23:31

Instrument ID: CPESTGC7

Lims ID: IC 1232

Client ID:

Operator ID:

ALS Bottle#:

3

Worklist Smp#:

9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

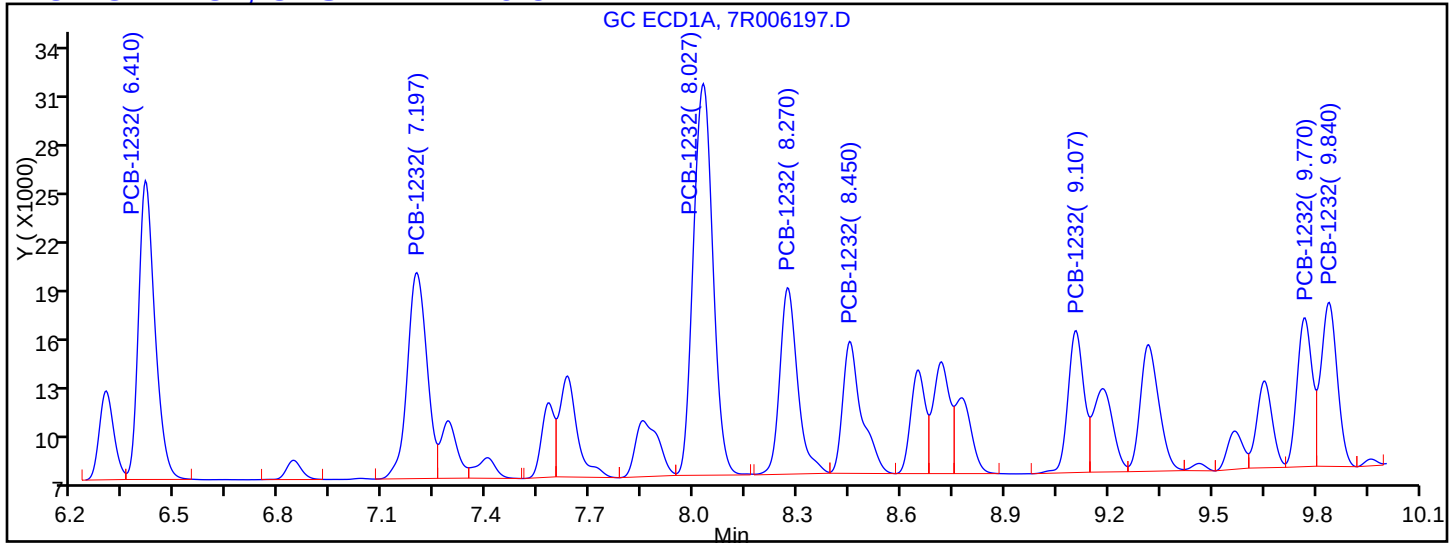
Limit Group: GC 8082A PCB ISTD

Column:

Detector

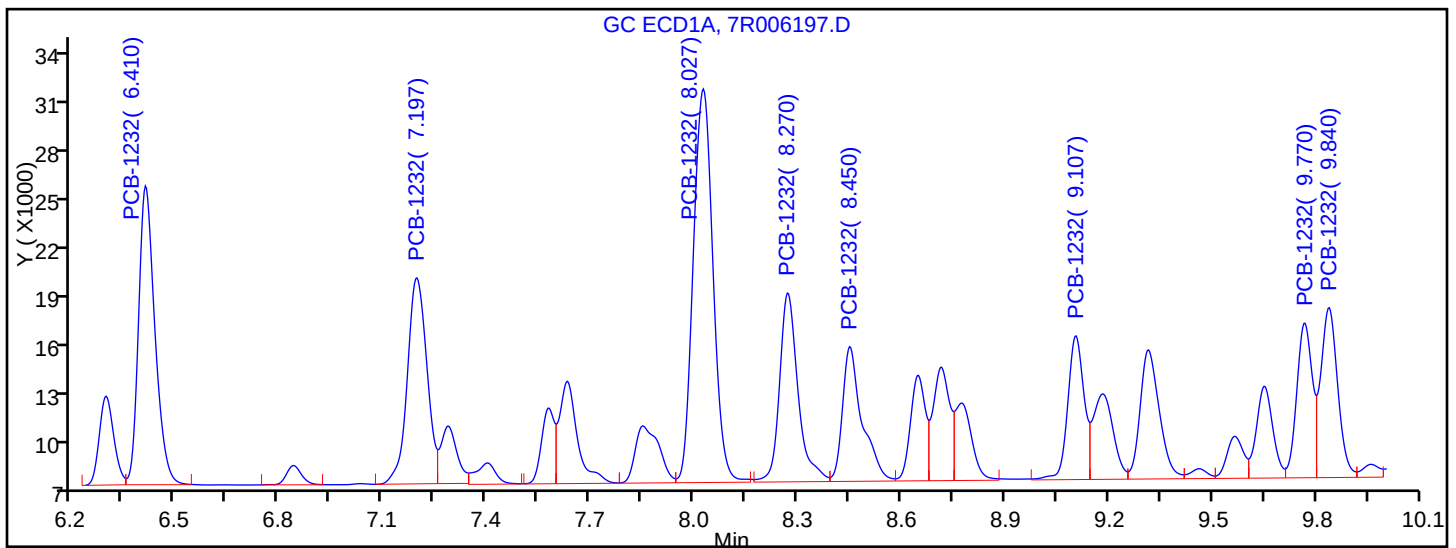
GC ECD1A

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



Processing Integration Results

6.410	Response = 60264
7.197	Response = 49640
8.027	Response = 94387
8.270	Response = 41111
8.450	Response = 30734
9.107	Response = 28027
9.770	Response = 27910
9.840	Response = 32854



Manual Integration Results

6.410	Response = 60264
7.197	Response = 49640
8.027	Response = 96006
8.270	Response = 43130
8.450	Response = 32535
9.107	Response = 28955

M

M

M

M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 15:23 Calibration End Date: 07/29/2017 15:23 Calibration ID: 63429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/9	7R006197.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1232 Peak 1	0.0333					Ave		0.0333						20.0			0.9900
PCB-1232 Peak 2	0.0248					Ave		0.0248						20.0			0.9900
PCB-1232 Peak 3	0.0156					Ave		0.0156						20.0			0.9900
PCB-1232 Peak 4	0.0467					Ave		0.0467						20.0			0.9900
PCB-1232 Peak 5	0.0198					Ave		0.0198						20.0			0.9900
PCB-1232 Peak 6	0.0188					Ave		0.0188						20.0			0.9900
PCB-1232 Peak 7	0.0282					Ave		0.0282						20.0			0.9900
PCB-1232 Peak 8	0.0110					Ave		0.0110						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 15:23 Calibration End Date: 07/29/2017 15:23 Calibration ID: 63429

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/9	7R006197.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1232 Peak 1	BNB	Ave	43412					1000				
PCB-1232 Peak 2	BNB	Ave	32279					1000				
PCB-1232 Peak 3	BNB	Ave	20259					1000				
PCB-1232 Peak 4	BNB	Ave	60859					1000				
PCB-1232 Peak 5	BNB	Ave	25798					1000				
PCB-1232 Peak 6	BNB	Ave	24449					1000				
PCB-1232 Peak 7	BNB	Ave	36671					1000				
PCB-1232 Peak 8	BNB	Ave	14332					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006197.D
 Lims ID: IC 1232
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 15:23:31 ALS Bottle#: 3 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-009
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub3
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:17 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji Date: 29-Jul-2017 20:17:21

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48474	20.0	20.0	
2	2.917	2.917	0.000	26047	20.0	20.0	

RPD = 0.00

3 PCB-1232

M

1	6.410	6.410	0.000	60264	1000.0	1000.0	
1	7.197	7.197	0.000	49640	1000.0	1000.0	
1	8.027	8.027	0.000	96006	1000.0	1000.0	M
1	8.270	8.270	0.000	43130	1000.0	1000.0	M
1	8.450	8.450	0.000	32535	1000.0	1000.0	M
1	9.107	9.107	0.000	28955	1000.0	1000.0	M
1	9.770	9.770	0.000	29811	1000.0	1000.0	M
1	9.840	9.840	0.000	35332	1000.0	1000.0	M

Average of Peak Amounts = 1000.0

2	5.060	5.060	0.000	43412	1000.0	1000.0	
2	5.717	5.717	0.000	32279	1000.0	1000.0	M
2	6.067	6.067	0.000	20259	1000.0	1000.0	
2	6.537	6.537	0.000	60859	1000.0	1000.0	M
2	6.770	6.770	0.000	25798	1000.0	1000.0	
2	7.483	7.483	0.000	24449	1000.0	1000.0	
2	8.227	8.227	0.000	36671	1000.0	1000.0	M
2	8.560	8.560	0.000	14332	1000.0	1000.0	M

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1232L3_00027

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006197.D

Injection Date: 29-Jul-2017 15:23:31

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1232

Worklist Smp#: 9

Client ID:

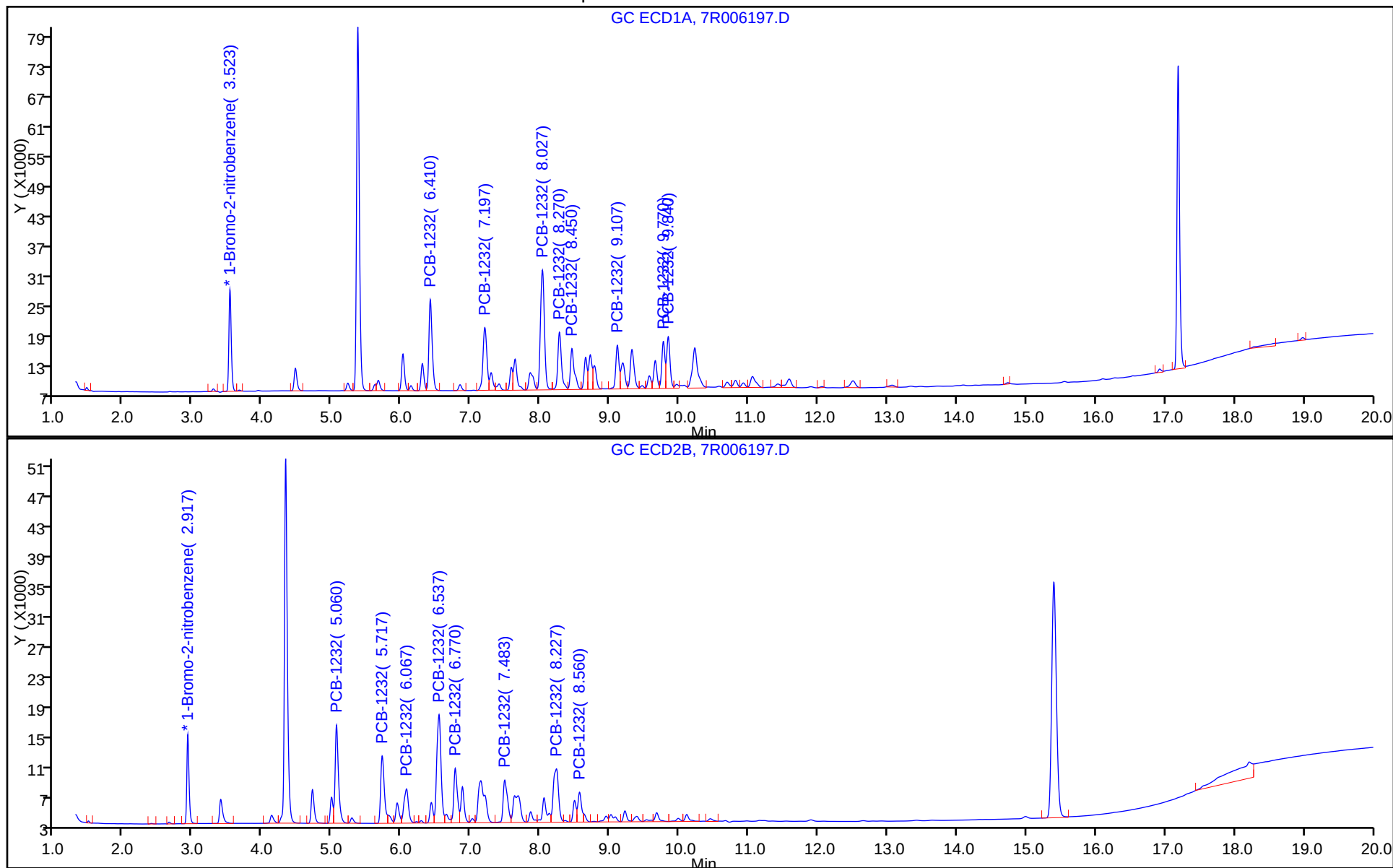
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006197.D

Injection Date: 29-Jul-2017 15:23:31

Instrument ID: CPESTGC7

Lims ID: IC 1232

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

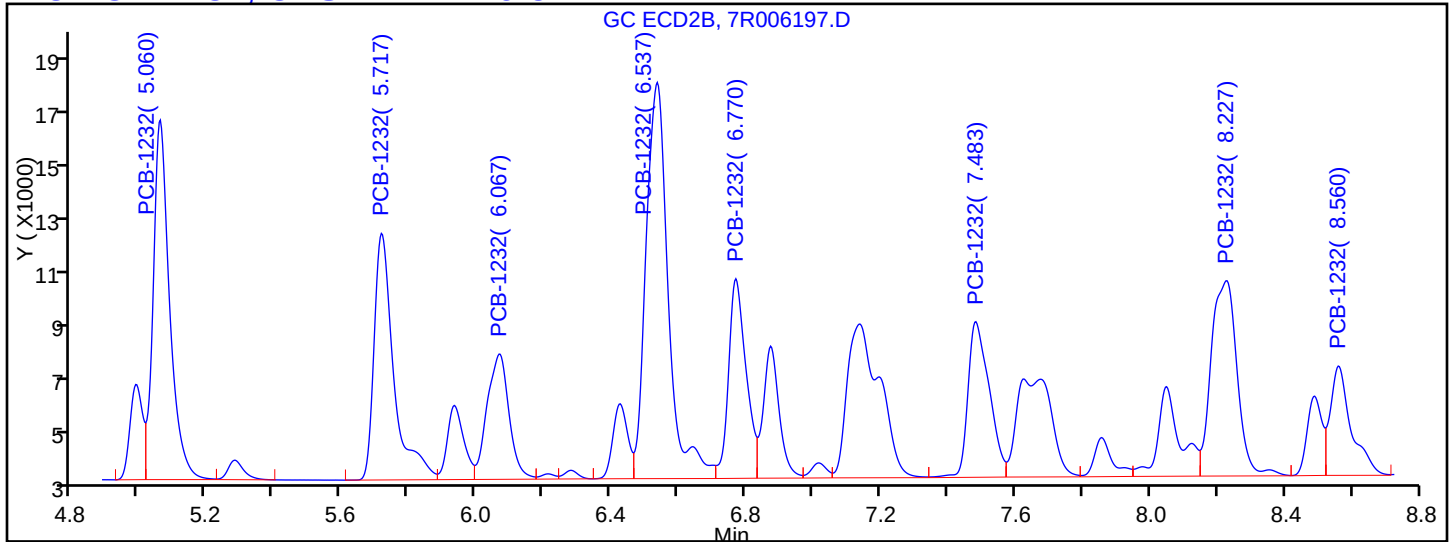
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

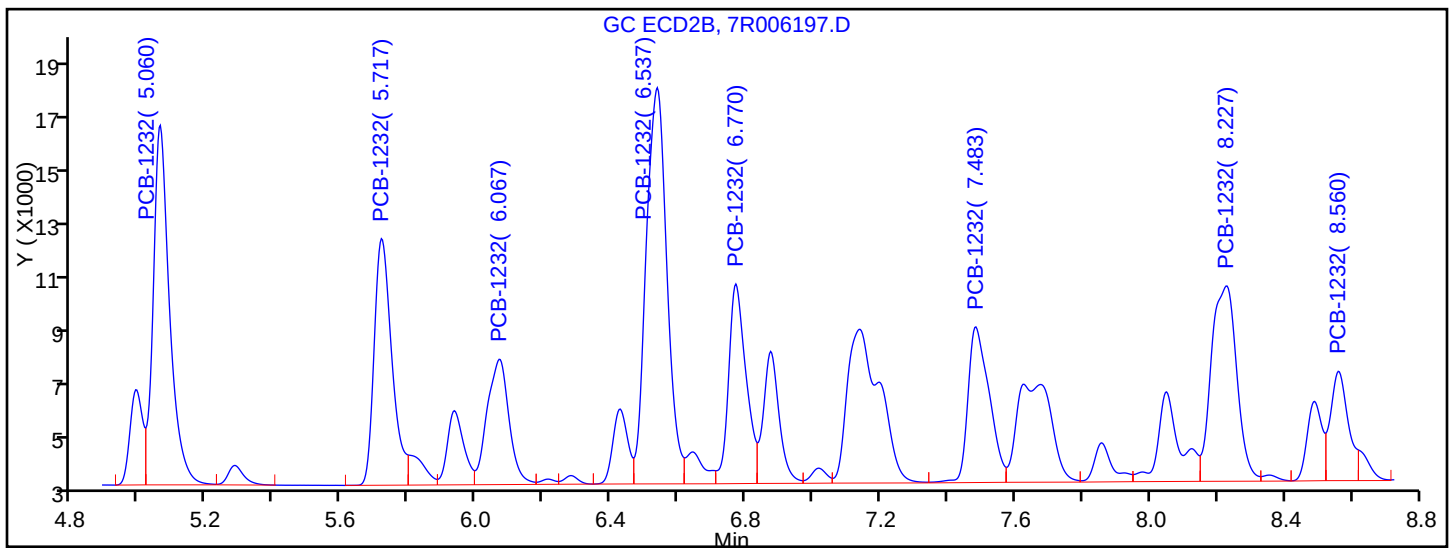
Detector GC ECD2B

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



Processing Integration Results

5.060	Response = 43412
5.717	Response = 35840
6.067	Response = 20259
6.537	Response = 65190
6.770	Response = 25798
7.483	Response = 24449
8.227	Response = 37333
8.560	Response = 16738



Manual Integration Results

5.060	Response = 43412
5.717	Response = 32279
6.067	Response = 20259
6.537	Response = 60859
6.770	Response = 25798
7.483	Response = 24449

M

M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 15:46 Calibration End Date: 07/29/2017 15:46 Calibration ID: 63434

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/10	7R006198.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0169					Ave		0.0169						20.0			0.9900
PCB-1242 Peak 2	0.0319					Ave		0.0319						20.0			0.9900
PCB-1242 Peak 3	0.0648					Ave		0.0648						20.0			0.9900
PCB-1242 Peak 4	0.0291					Ave		0.0291						20.0			0.9900
PCB-1242 Peak 5	0.0230					Ave		0.0230						20.0			0.9900
PCB-1242 Peak 6	0.0242					Ave		0.0242						20.0			0.9900
PCB-1242 Peak 7	0.0226					Ave		0.0226						20.0			0.9900
PCB-1242 Peak 8	0.0277					Ave		0.0277						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 15:46 Calibration End Date: 07/29/2017 15:46 Calibration ID: 63434

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/10	7R006198.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	40698					1000				
PCB-1242 Peak 2	BNB	Ave	76653					1000				
PCB-1242 Peak 3	BNB	Ave	155853					1000				
PCB-1242 Peak 4	BNB	Ave	69999					1000				
PCB-1242 Peak 5	BNB	Ave	55389					1000				
PCB-1242 Peak 6	BNB	Ave	58192					1000				
PCB-1242 Peak 7	BNB	Ave	54330					1000				
PCB-1242 Peak 8	BNB	Ave	66651					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006198.D
 Lims ID: IC 1242
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 15:46:55 ALS Bottle#: 4 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-010
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub4
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:20 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji Date: 29-Jul-2017 20:19:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48120	20.0	20.0
2	2.917	2.917	0.000	25914	20.0	20.0

RPD = 0.00

4 PCB-1242

M

1	6.407	6.407	0.000	40698	1000.0	1000.0
1	7.193	7.193	0.000	76653	1000.0	1000.0 M
1	8.023	8.023	0.000	155853	1000.0	1000.0 M
1	8.270	8.270	0.000	69999	1000.0	1000.0 M
1	8.450	8.450	0.000	55389	1000.0	1000.0 M
1	9.313	9.313	0.000	58192	1000.0	1000.0 M
1	9.767	9.767	0.000	54330	1000.0	1000.0 M
1	9.837	9.837	0.000	66651	1000.0	1000.0 M

Average of Peak Amounts = 1000.0

2	5.060	5.060	0.000	29403	1000.0	1000.0
2	5.717	5.717	0.000	55085	1000.0	1000.0 M
2	6.067	6.067	0.000	33463	1000.0	1000.0 M
2	6.537	6.537	0.000	103388	1000.0	1000.0 M
2	6.767	6.767	0.000	44092	1000.0	1000.0 M
2	7.480	7.480	0.000	46363	1000.0	1000.0 M
2	8.227	8.227	0.000	71334	1000.0	1000.0 M
2	8.560	8.560	0.000	29386	1000.0	1000.0 M

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1242L3_00029

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006198.D

Injection Date: 29-Jul-2017 15:46:55

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1242

Worklist Smp#: 10

Client ID:

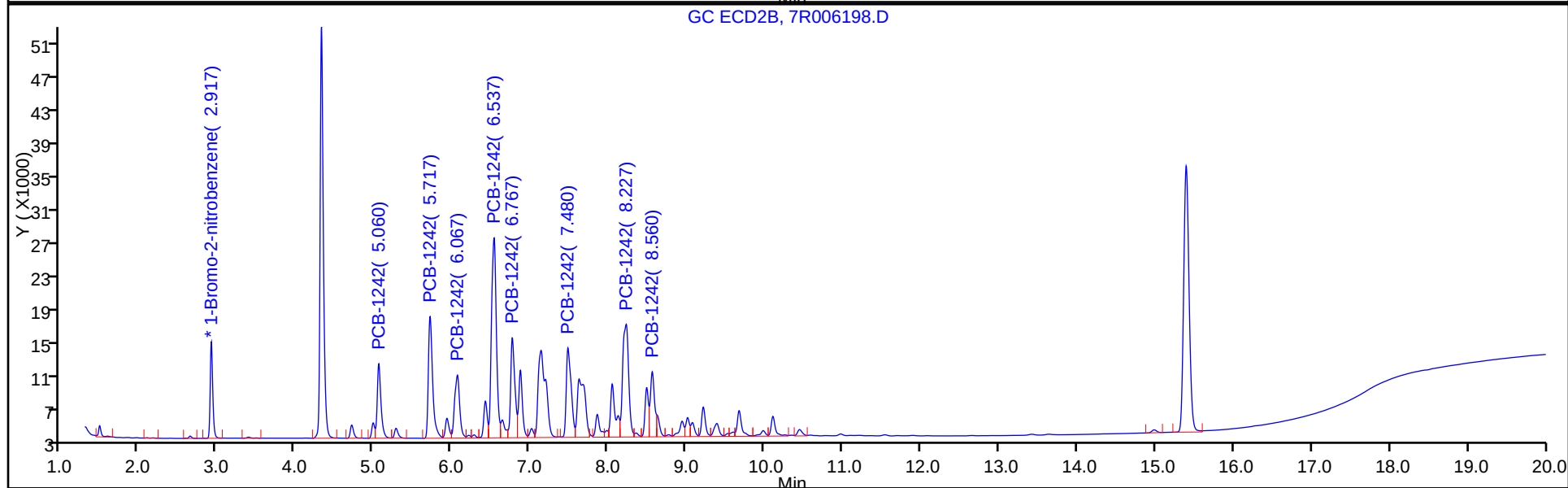
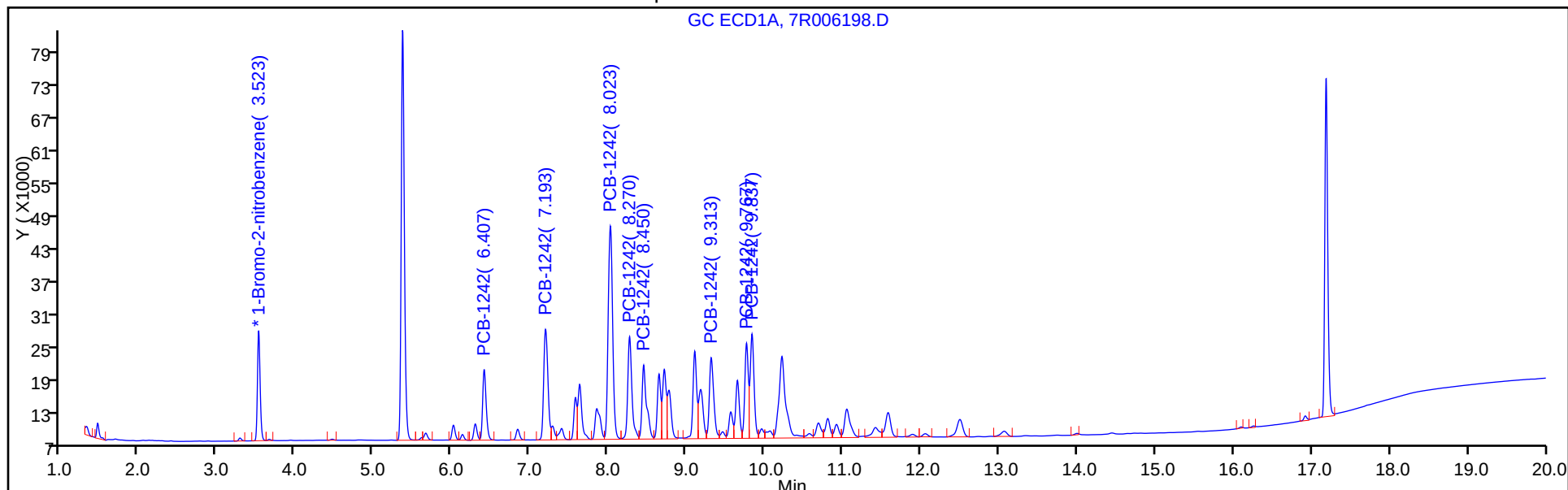
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006198.D

Injection Date: 29-Jul-2017 15:46:55

Instrument ID: CPESTGC7

Lims ID: IC 1242

Client ID:

Operator ID:

ALS Bottle#:

4

Worklist Smp#:

10

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

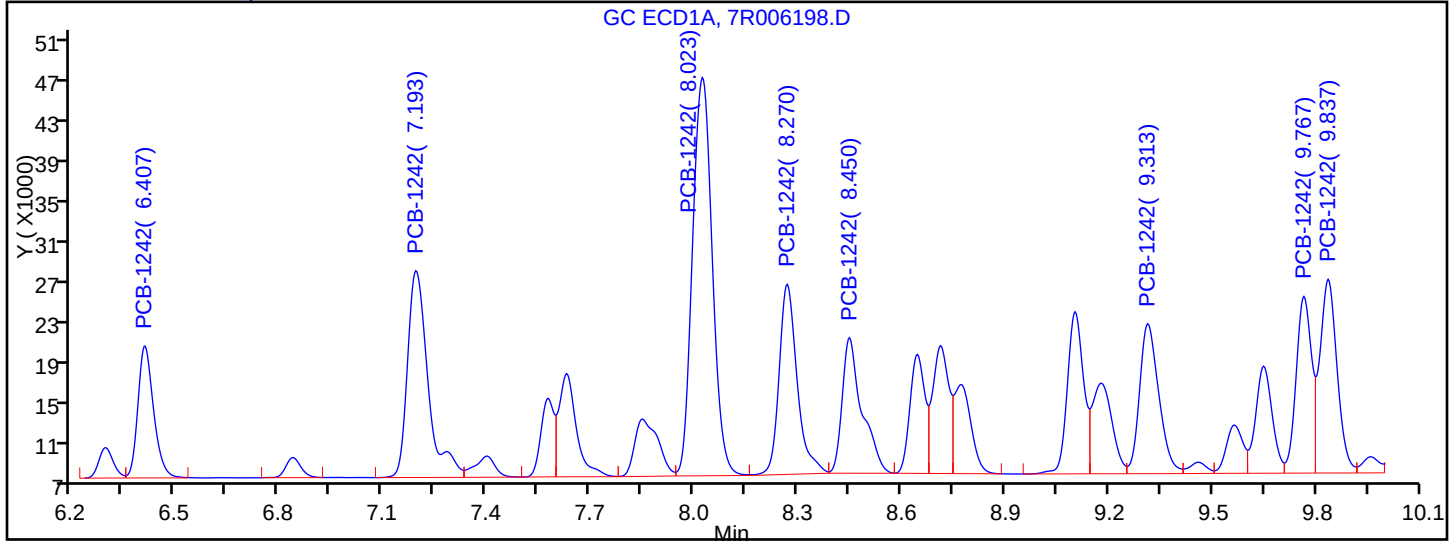
GC 8082A PCB ISTD

Column:

Detector

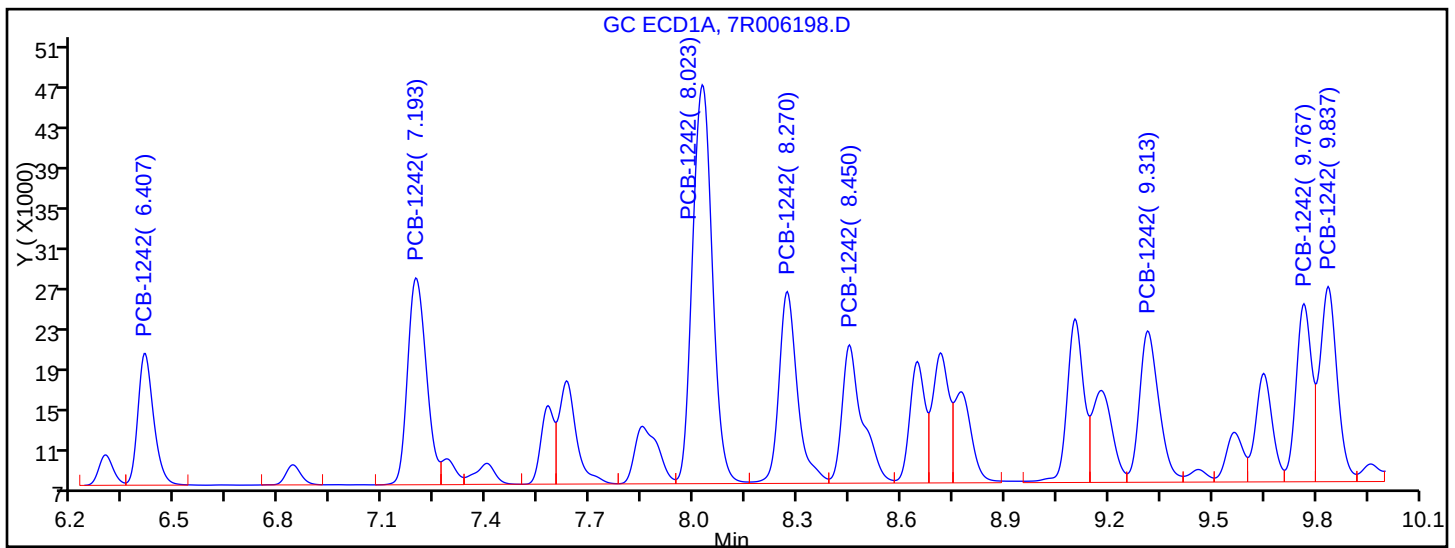
GC ECD1A

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

6.407	Response = 40698
7.193	Response = 83668
8.023	Response = 155059
8.270	Response = 67605
8.450	Response = 52420
9.313	Response = 56932
9.767	Response = 53585
9.837	Response = 65661



Manual Integration Results

6.407	Response = 40698	
7.193	Response = 76653	M
8.023	Response = 155853	M
8.270	Response = 69999	M
8.450	Response = 55389	M
9.313	Response = 58192	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 15:46 Calibration End Date: 07/29/2017 15:46 Calibration ID: 63435

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/10	7R006198.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1242 Peak 1	0.0227					Ave		0.0227						20.0			0.9900
PCB-1242 Peak 2	0.0425					Ave		0.0425						20.0			0.9900
PCB-1242 Peak 3	0.0258					Ave		0.0258						20.0			0.9900
PCB-1242 Peak 4	0.0798					Ave		0.0798						20.0			0.9900
PCB-1242 Peak 5	0.0340					Ave		0.0340						20.0			0.9900
PCB-1242 Peak 6	0.0358					Ave		0.0358						20.0			0.9900
PCB-1242 Peak 7	0.0551					Ave		0.0551						20.0			0.9900
PCB-1242 Peak 8	0.0227					Ave		0.0227						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 15:46 Calibration End Date: 07/29/2017 15:46 Calibration ID: 63435

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/10	7R006198.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1242 Peak 1	BNB	Ave	29403					1000				
PCB-1242 Peak 2	BNB	Ave	55085					1000				
PCB-1242 Peak 3	BNB	Ave	33463					1000				
PCB-1242 Peak 4	BNB	Ave	103388					1000				
PCB-1242 Peak 5	BNB	Ave	44092					1000				
PCB-1242 Peak 6	BNB	Ave	46363					1000				
PCB-1242 Peak 7	BNB	Ave	71334					1000				
PCB-1242 Peak 8	BNB	Ave	29386					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006198.D
 Lims ID: IC 1242
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 15:46:55 ALS Bottle#: 4 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-010
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub4
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:20 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 20:19:01

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48120	20.0	20.0
2	2.917	2.917	0.000	25914	20.0	20.0

RPD = 0.00

4 PCB-1242

M

1	6.407	6.407	0.000	40698	1000.0	1000.0
1	7.193	7.193	0.000	76653	1000.0	1000.0
1	8.023	8.023	0.000	155853	1000.0	1000.0
1	8.270	8.270	0.000	69999	1000.0	1000.0
1	8.450	8.450	0.000	55389	1000.0	1000.0
1	9.313	9.313	0.000	58192	1000.0	1000.0
1	9.767	9.767	0.000	54330	1000.0	1000.0
1	9.837	9.837	0.000	66651	1000.0	1000.0

Average of Peak Amounts = 1000.0

2	5.060	5.060	0.000	29403	1000.0	1000.0
2	5.717	5.717	0.000	55085	1000.0	1000.0
2	6.067	6.067	0.000	33463	1000.0	1000.0
2	6.537	6.537	0.000	103388	1000.0	1000.0
2	6.767	6.767	0.000	44092	1000.0	1000.0
2	7.480	7.480	0.000	46363	1000.0	1000.0
2	8.227	8.227	0.000	71334	1000.0	1000.0
2	8.560	8.560	0.000	29386	1000.0	1000.0

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1242L3_00029

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006198.D

Injection Date: 29-Jul-2017 15:46:55

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1242

Worklist Smp#: 10

Client ID:

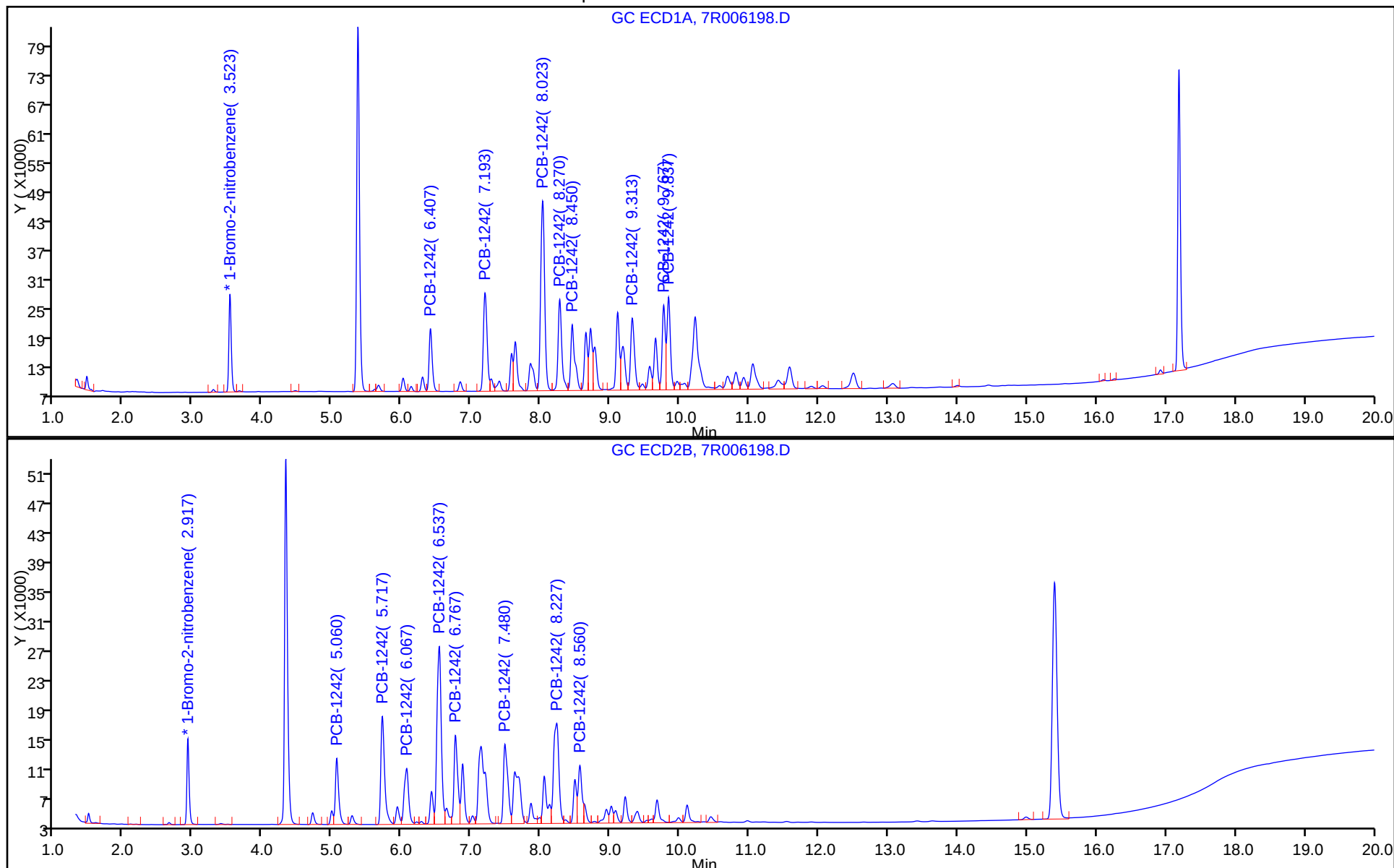
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006198.D

Injection Date: 29-Jul-2017 15:46:55

Instrument ID: CPESTGC7

Lims ID: IC 1242

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

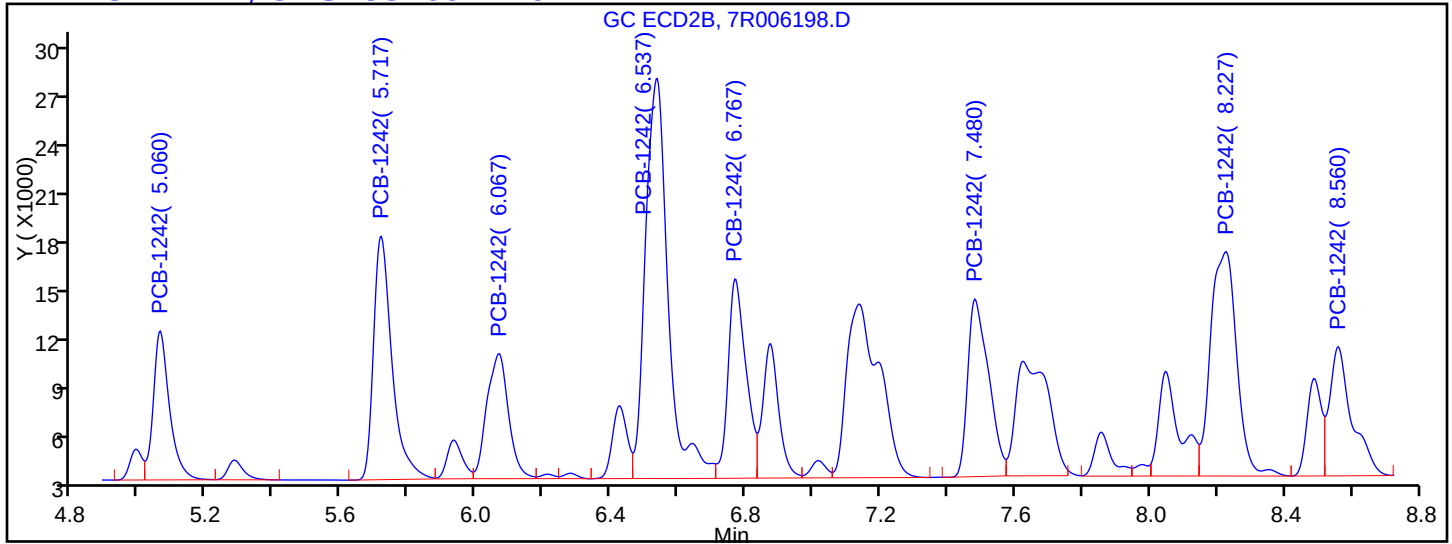
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

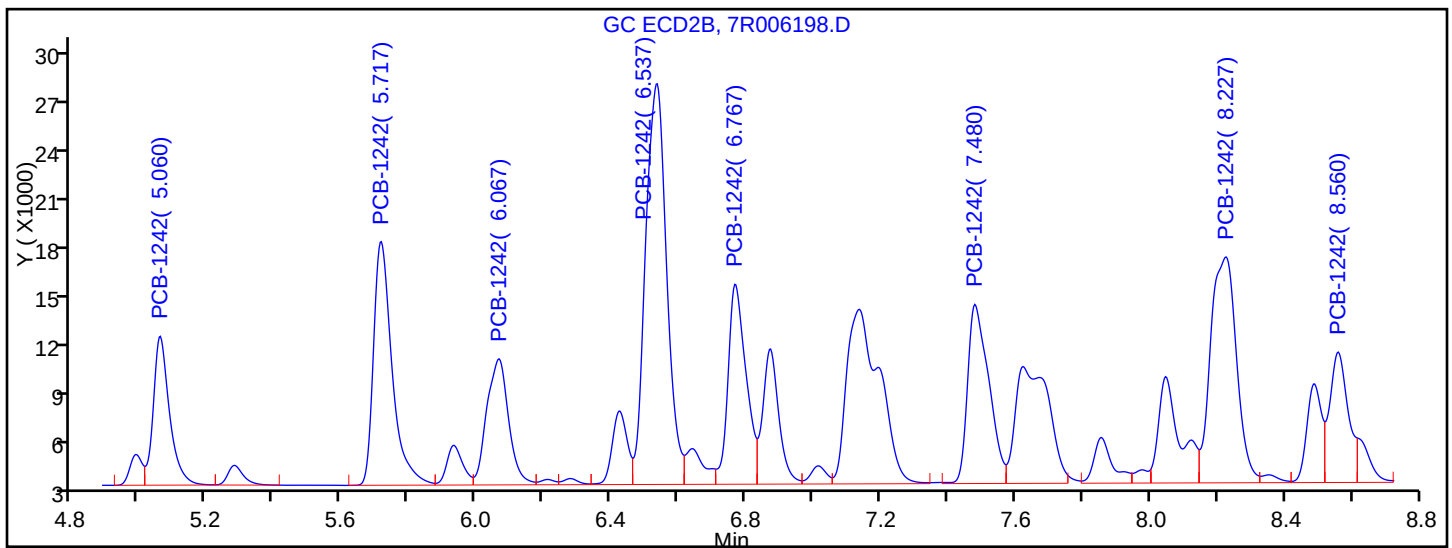
Detector GC ECD2B

4 PCB-1242, CAS: 53469-21-9



Processing Integration Results

5.060	Response = 29403
5.717	Response = 54693
6.067	Response = 32841
6.537	Response = 110862
6.767	Response = 43778
7.480	Response = 45274
8.227	Response = 71561
8.560	Response = 34947



Manual Integration Results

5.060	Response = 29403	
5.717	Response = 55085	M
6.067	Response = 33463	M
6.537	Response = 103388	M
6.767	Response = 44092	M
7.480	Response = 46363	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:10 Calibration End Date: 07/29/2017 16:10 Calibration ID: 63440

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/11	7R006199.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0177					Ave		0.0177						20.0			0.9900
PCB-1248 Peak 2	0.0430					Ave		0.0430						20.0			0.9900
PCB-1248 Peak 3	0.0249					Ave		0.0249						20.0			0.9900
PCB-1248 Peak 4	0.0238					Ave		0.0238						20.0			0.9900
PCB-1248 Peak 5	0.0329					Ave		0.0329						20.0			0.9900
PCB-1248 Peak 6	0.0360					Ave		0.0360						20.0			0.9900
PCB-1248 Peak 7	0.0419					Ave		0.0419						20.0			0.9900
PCB-1248 Peak 8	0.0237					Ave		0.0237						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:10 Calibration End Date: 07/29/2017 16:10 Calibration ID: 63440

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/11	7R006199.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	42854					1000				
PCB-1248 Peak 2	BNB	Ave	104074					1000				
PCB-1248 Peak 3	BNB	Ave	60276					1000				
PCB-1248 Peak 4	BNB	Ave	57440					1000				
PCB-1248 Peak 5	BNB	Ave	79554					1000				
PCB-1248 Peak 6	BNB	Ave	86913					1000				
PCB-1248 Peak 7	BNB	Ave	101241					1000				
PCB-1248 Peak 8	BNB	Ave	57358					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006199.D
 Lims ID: IC 1248
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 16:10:34 ALS Bottle#: 5 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-011
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub5
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:23 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji Date: 29-Jul-2017 20:21:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48352	20.0	20.0
2	2.913	2.913	0.000	25847	20.0	20.0

RPD = 0.00

6 PCB-1248

M

1	7.193	7.193	0.000	42854	1000.0	1000.0
1	8.023	8.023	0.000	104074	1000.0	1000.0
1	8.647	8.647	0.000	60276	1000.0	1000.0
1	8.717	8.717	0.000	57440	1000.0	1000.0
1	9.317	9.317	0.000	79554	1000.0	1000.0
1	9.767	9.767	0.000	86913	1000.0	1000.0
1	9.837	9.837	0.000	101241	1000.0	1000.0
1	11.050	11.050	0.000	57358	1000.0	1000.0

Average of Peak Amounts = 1000.0

2	5.717	5.717	0.000	28982	1000.0	1000.0
2	6.533	6.533	0.000	65866	1000.0	1000.0
2	7.133	7.133	0.000	74594	1000.0	1000.0
2	7.623	7.623	0.000	36593	1000.0	1000.0
2	8.223	8.223	0.000	112888	1000.0	1000.0
2	8.563	8.563	0.000	51586	1000.0	1000.0
2	9.213	9.213	0.000	30851	1000.0	1000.0
2	10.107	10.107	0.000	19426	1000.0	1000.0

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1248L3_00028

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006199.D

Injection Date: 29-Jul-2017 16:10:34

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1248

Worklist Smp#: 11

Client ID:

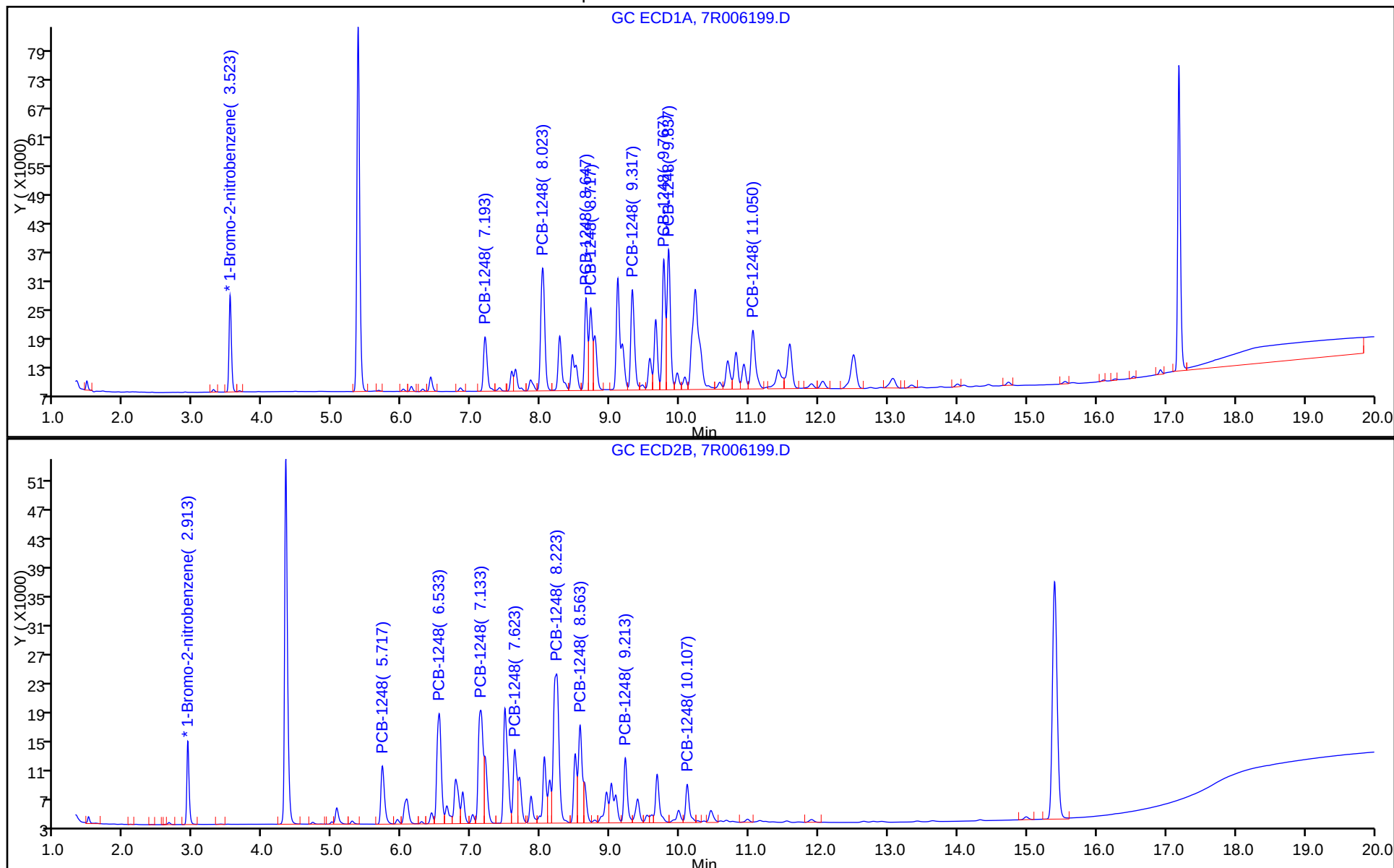
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006199.D

Injection Date: 29-Jul-2017 16:10:34

Instrument ID: CPESTGC7

Lims ID: IC 1248

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

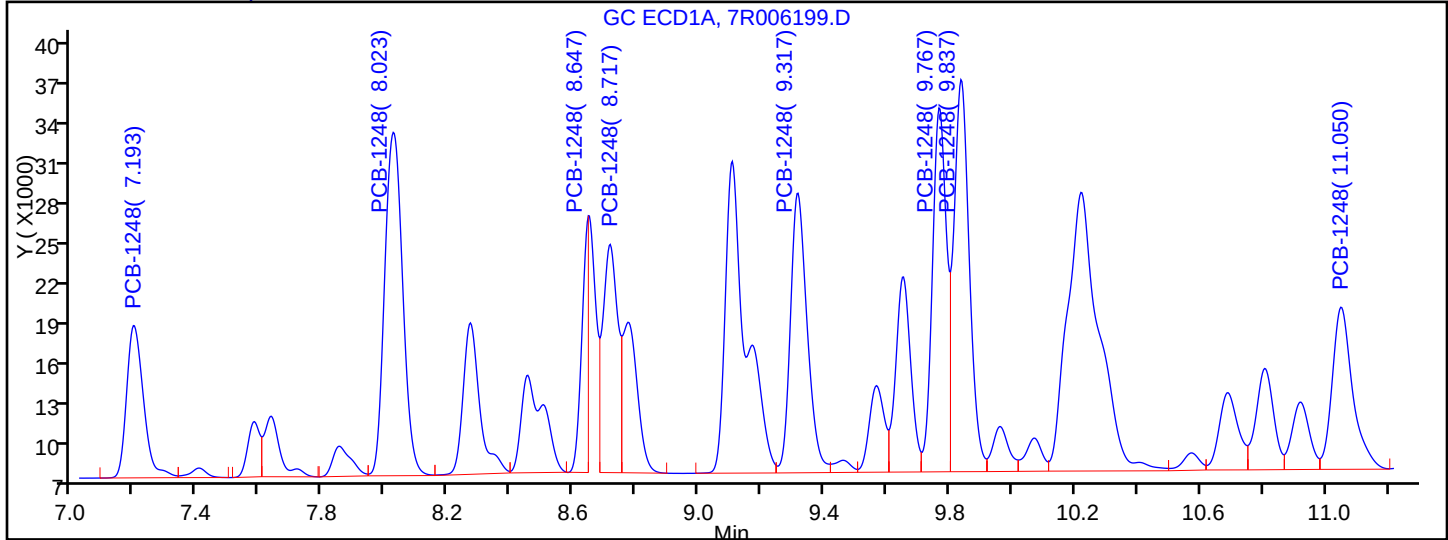
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

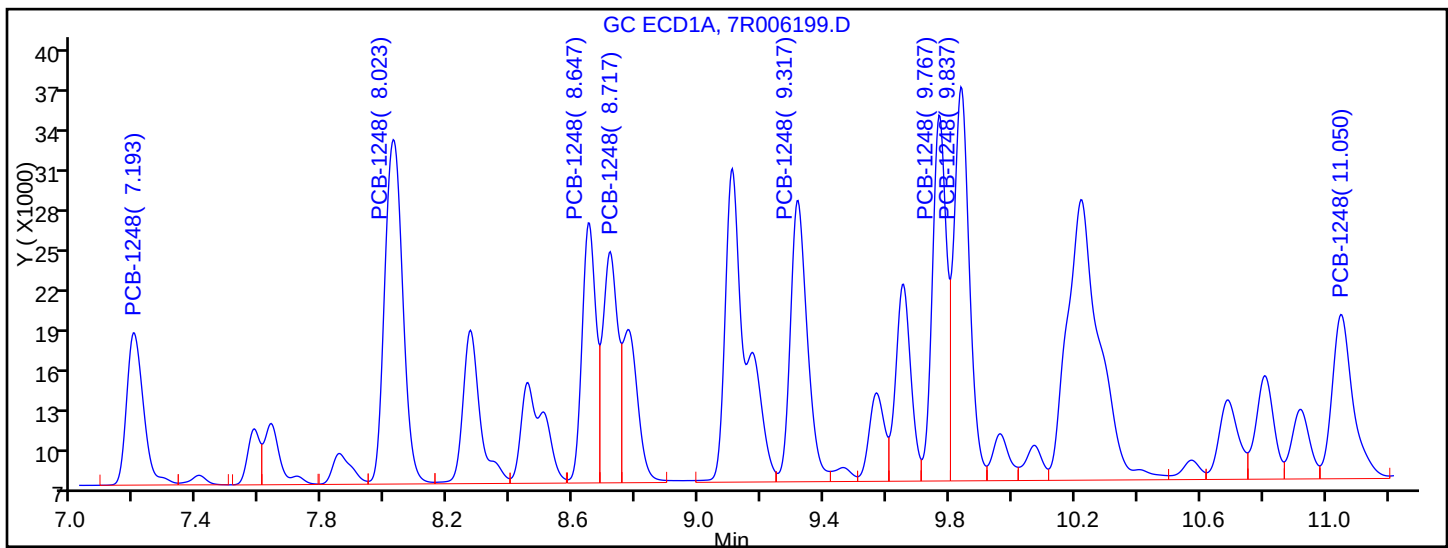
Detector GC ECD1A

6 PCB-1248, CAS: 12672-29-6



Processing Integration Results

7.193	Response = 42854
8.023	Response = 103056
8.647	Response = 26466
8.717	Response = 56512
9.317	Response = 78202
9.767	Response = 86115
9.837	Response = 100247
11.050	Response = 55241



Manual Integration Results

7.193	Response = 42854	
8.023	Response = 104074	M
8.647	Response = 60276	M
8.717	Response = 57440	M
9.317	Response = 79554	M
9.767	Response = 86913	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:10 Calibration End Date: 07/29/2017 16:10 Calibration ID: 63441

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/11	7R006199.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1248 Peak 1	0.0224					Ave		0.0224						20.0			0.9900
PCB-1248 Peak 2	0.0510					Ave		0.0510						20.0			0.9900
PCB-1248 Peak 3	0.0577					Ave		0.0577						20.0			0.9900
PCB-1248 Peak 4	0.0283					Ave		0.0283						20.0			0.9900
PCB-1248 Peak 5	0.0874					Ave		0.0874						20.0			0.9900
PCB-1248 Peak 6	0.0399					Ave		0.0399						20.0			0.9900
PCB-1248 Peak 7	0.0239					Ave		0.0239						20.0			0.9900
PCB-1248 Peak 8	0.0150					Ave		0.0150						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:10 Calibration End Date: 07/29/2017 16:10 Calibration ID: 63441

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/11	7R006199.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1248 Peak 1	BNB	Ave	28982					1000				
PCB-1248 Peak 2	BNB	Ave	65866					1000				
PCB-1248 Peak 3	BNB	Ave	74594					1000				
PCB-1248 Peak 4	BNB	Ave	36593					1000				
PCB-1248 Peak 5	BNB	Ave	112888					1000				
PCB-1248 Peak 6	BNB	Ave	51586					1000				
PCB-1248 Peak 7	BNB	Ave	30851					1000				
PCB-1248 Peak 8	BNB	Ave	19426					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006199.D
 Lims ID: IC 1248
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 16:10:34 ALS Bottle#: 5 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-011
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub5
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:23 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 20:21:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48352	20.0	20.0
2	2.913	2.913	0.000	25847	20.0	20.0

RPD = 0.00

6 PCB-1248

M

1	7.193	7.193	0.000	42854	1000.0	1000.0
1	8.023	8.023	0.000	104074	1000.0	1000.0
1	8.647	8.647	0.000	60276	1000.0	1000.0
1	8.717	8.717	0.000	57440	1000.0	1000.0
1	9.317	9.317	0.000	79554	1000.0	1000.0
1	9.767	9.767	0.000	86913	1000.0	1000.0
1	9.837	9.837	0.000	101241	1000.0	1000.0
1	11.050	11.050	0.000	57358	1000.0	1000.0

Average of Peak Amounts = 1000.0

2	5.717	5.717	0.000	28982	1000.0	1000.0
2	6.533	6.533	0.000	65866	1000.0	1000.0
2	7.133	7.133	0.000	74594	1000.0	1000.0
2	7.623	7.623	0.000	36593	1000.0	1000.0
2	8.223	8.223	0.000	112888	1000.0	1000.0
2	8.563	8.563	0.000	51586	1000.0	1000.0
2	9.213	9.213	0.000	30851	1000.0	1000.0
2	10.107	10.107	0.000	19426	1000.0	1000.0

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1248L3_00028

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006199.D

Injection Date: 29-Jul-2017 16:10:34

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1248

Worklist Smp#: 11

Client ID:

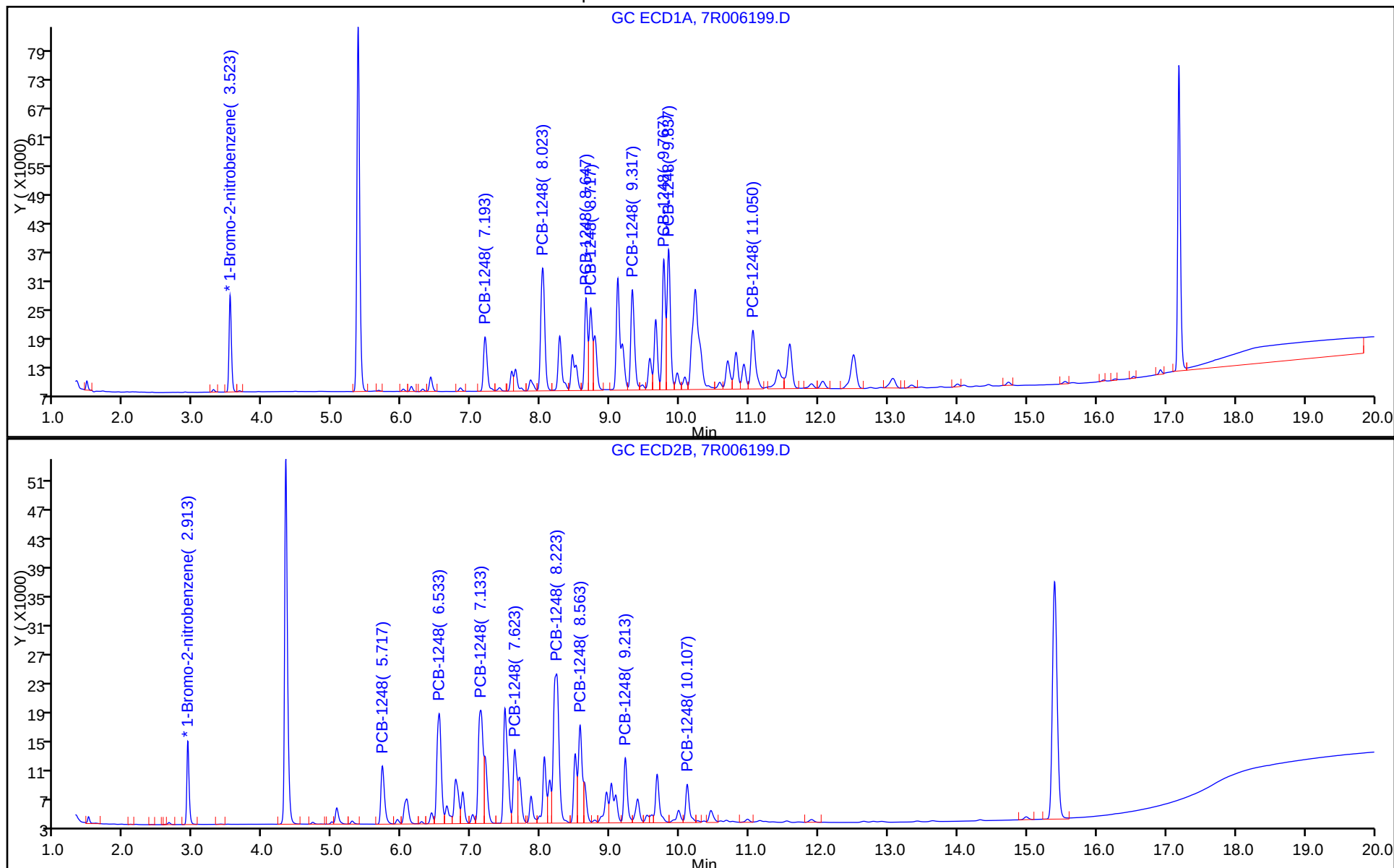
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006199.D

Injection Date: 29-Jul-2017 16:10:34

Instrument ID: CPESTGC7

Lims ID: IC 1248

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

11

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

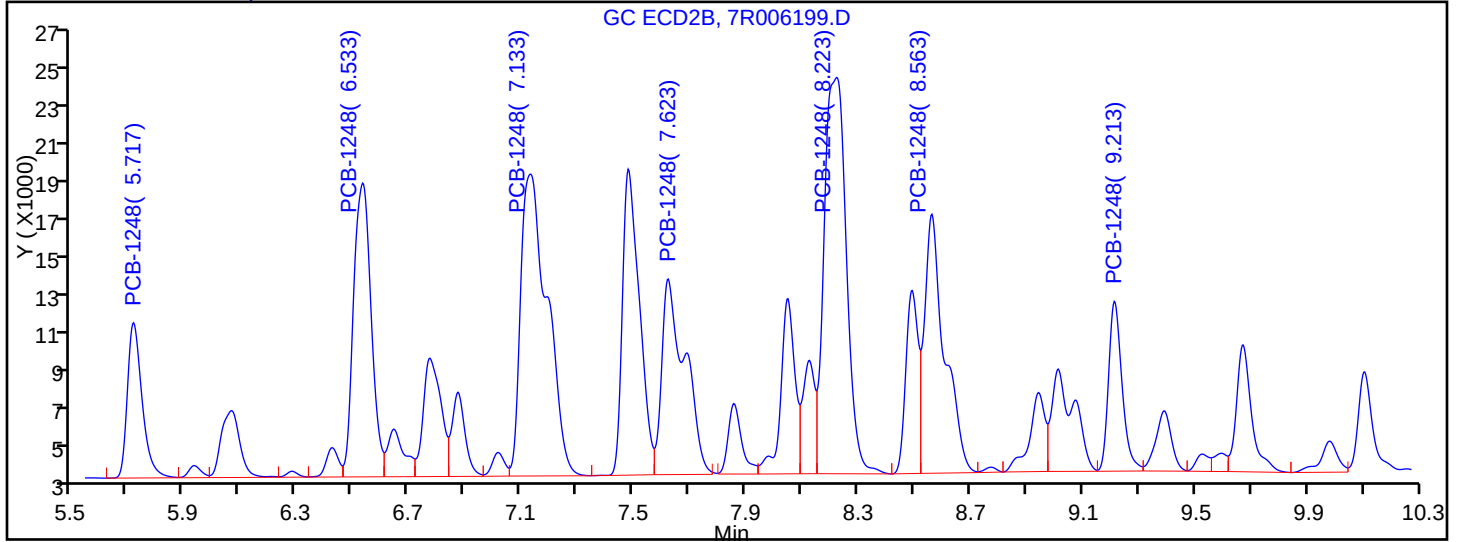
GC 8082A PCB ISTD

Column:

Detector

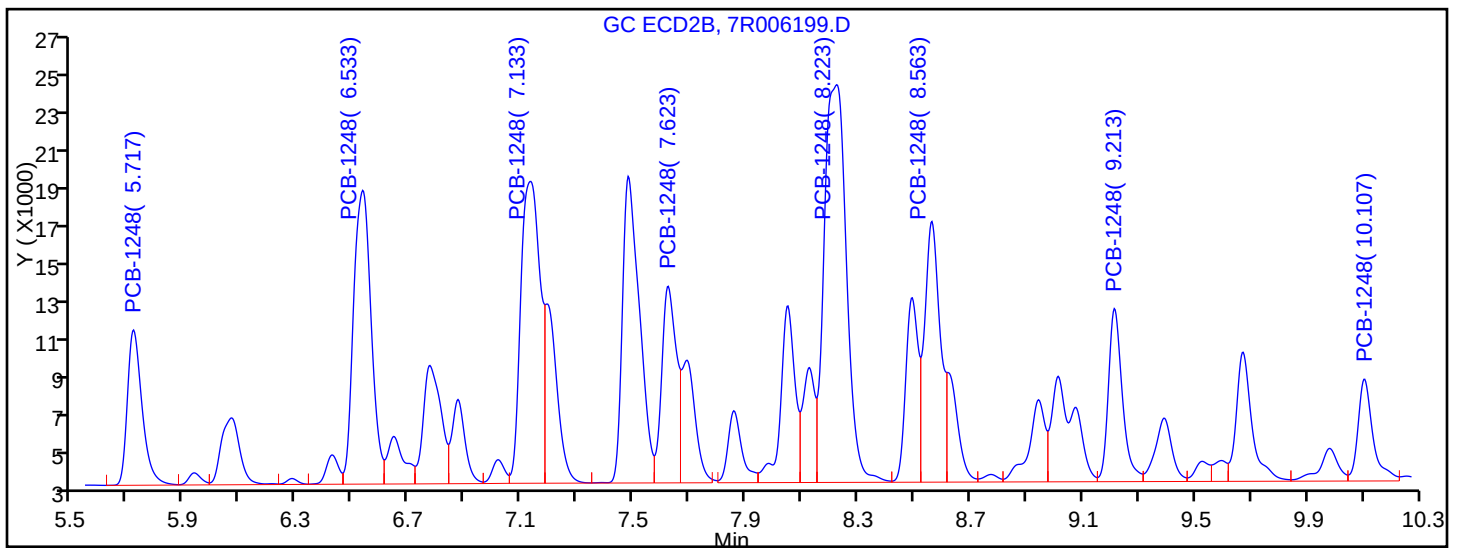
GC ECD2B

6 PCB-1248, CAS: 12672-29-6



Processing Integration Results

5.717	Response = 28982
6.533	Response = 65866
7.133	Response = 101555
7.623	Response = 57443
8.223	Response = 111800
8.563	Response = 65383
9.213	Response = 29214
10.107	Response = 18864



Manual Integration Results

5.717	Response = 28982
6.533	Response = 65866
7.133	Response = 74594
7.623	Response = 36593
8.223	Response = 112888
8.563	Response = 51586

M

M

M

M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:33 Calibration End Date: 07/29/2017 16:33 Calibration ID: 63446

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/12	7R006200.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1254 Peak 1	0.0151					Ave		0.0151						20.0			0.9900
PCB-1254 Peak 2	0.0418					Ave		0.0418						20.0			0.9900
PCB-1254 Peak 3	0.0458					Ave		0.0458						20.0			0.9900
PCB-1254 Peak 4	0.0337					Ave		0.0337						20.0			0.9900
PCB-1254 Peak 5	0.0680					Ave		0.0680						20.0			0.9900
PCB-1254 Peak 6	0.0566					Ave		0.0566						20.0			0.9900
PCB-1254 Peak 7	0.0450					Ave		0.0450						20.0			0.9900
PCB-1254 Peak 8	0.0679					Ave		0.0679						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:33 Calibration End Date: 07/29/2017 16:33 Calibration ID: 63446

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/12	7R006200.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1254 Peak 1	BNB	Ave	36326					1000				
PCB-1254 Peak 2	BNB	Ave	100417					1000				
PCB-1254 Peak 3	BNB	Ave	110156					1000				
PCB-1254 Peak 4	BNB	Ave	80997					1000				
PCB-1254 Peak 5	BNB	Ave	163480					1000				
PCB-1254 Peak 6	BNB	Ave	135958					1000				
PCB-1254 Peak 7	BNB	Ave	108188					1000				
PCB-1254 Peak 8	BNB	Ave	163088					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006200.D
 Lims ID: IC 1254
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 16:33:59 ALS Bottle#: 6 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-012
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub6
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:26 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji Date: 29-Jul-2017 20:23:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48071	20.0	20.0	
2	2.917	2.917	0.000	25730	20.0	20.0	

RPD = 0.00

7 PCB-1254

M

1	9.103	9.103	0.000	36326	1000.0	1000.0	
1	9.830	9.830	0.000	100417	1000.0	1000.0	
1	10.170	10.170	0.000	110156	1000.0	1000.0	
1	10.807	10.807	0.000	80997	1000.0	1000.0	
1	11.050	11.050	0.000	163480	1000.0	1000.0	
1	11.577	11.577	0.000	135958	1000.0	1000.0	M
1	12.497	12.497	0.000	108188	1000.0	1000.0	M
1	13.063	13.063	0.000	163088	1000.0	1000.0	M

Average of Peak Amounts = 1000.0

2	7.480	7.480	0.000	22267	1000.0	1000.0	M
2	8.123	8.123	0.000	52663	1000.0	1000.0	M
2	8.570	8.570	0.000	76998	1000.0	1000.0	M
2	9.010	9.010	0.000	59030	1000.0	1000.0	M
2	9.210	9.210	0.000	105709	1000.0	1000.0	M
2	9.670	9.670	0.000	85920	1000.0	1000.0	M
2	9.980	9.980	0.000	72542	1000.0	1000.0	M
2	10.443	10.443	0.000	97936	1000.0	1000.0	M

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1254L3_00030

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006200.D

Injection Date: 29-Jul-2017 16:33:59

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1254

Worklist Smp#: 12

Client ID:

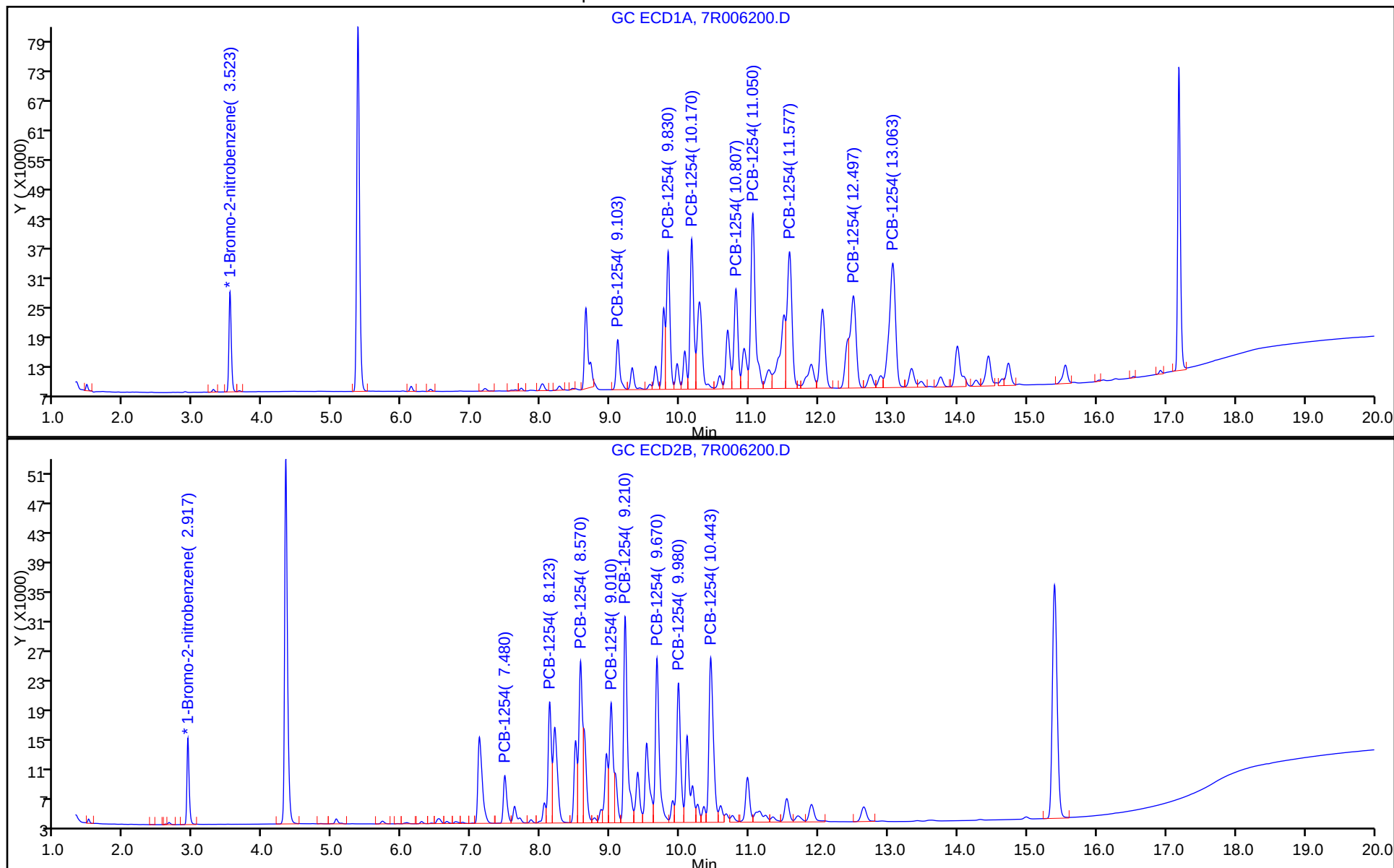
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006200.D

Injection Date: 29-Jul-2017 16:33:59

Instrument ID: CPESTGC7

Lims ID: IC 1254

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#:

12

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

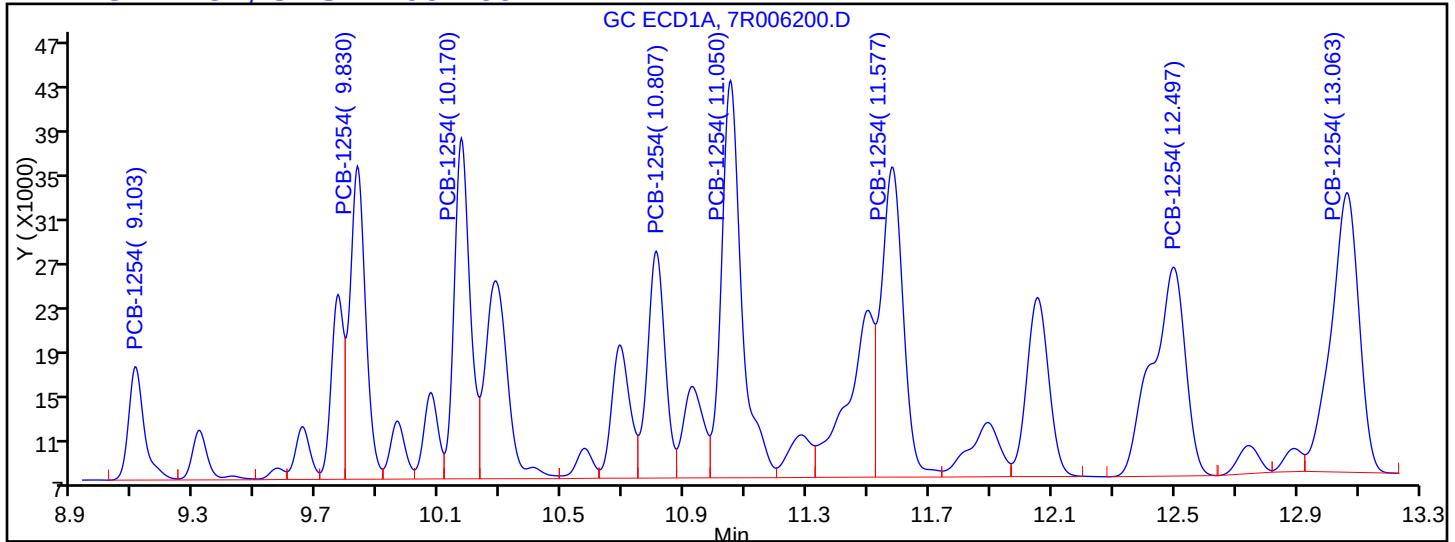
GC 8082A PCB ISTD

Column:

Detector

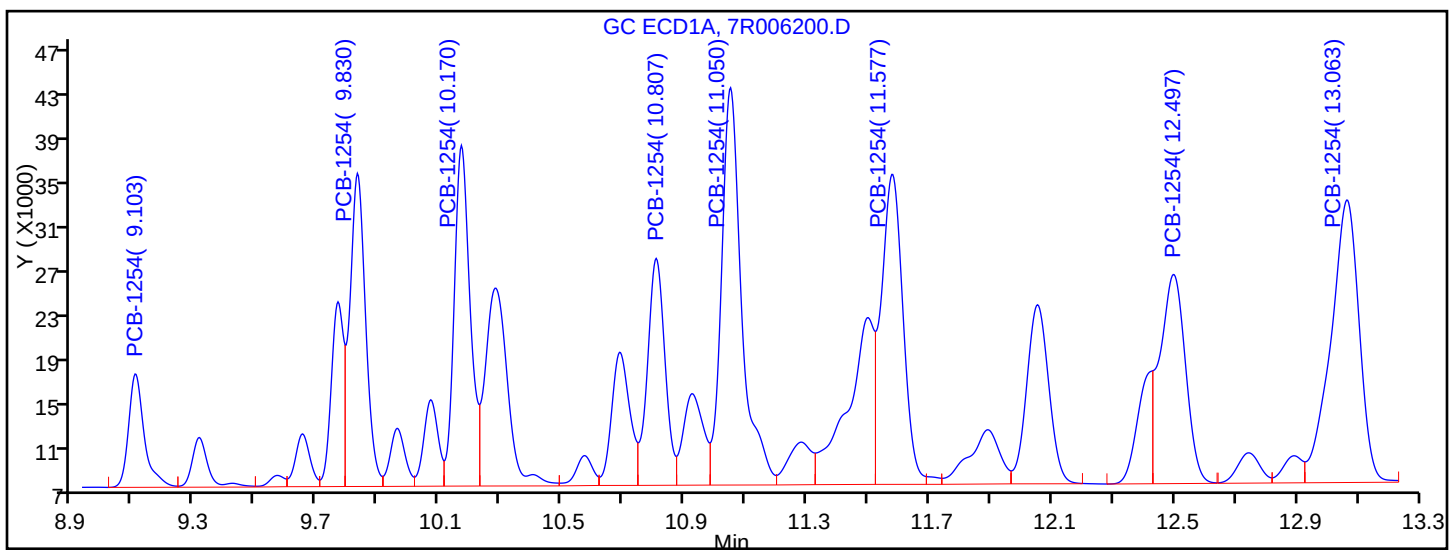
GC ECD1A

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



Processing Integration Results

9.103	Response = 36326
9.830	Response = 100417
10.170	Response = 110156
10.807	Response = 80997
11.050	Response = 163480
11.577	Response = 137824
12.497	Response = 141468
13.063	Response = 158323



Manual Integration Results

9.103	Response = 36326
9.830	Response = 100417
10.170	Response = 110156
10.807	Response = 80997
11.050	Response = 163480
11.577	Response = 135958

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:33 Calibration End Date: 07/29/2017 16:33 Calibration ID: 63447

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/12	7R006200.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1254 Peak 1	0.0173					Ave		0.0173						20.0			0.9900
PCB-1254 Peak 2	0.0409					Ave		0.0409						20.0			0.9900
PCB-1254 Peak 3	0.0599					Ave		0.0599						20.0			0.9900
PCB-1254 Peak 4	0.0459					Ave		0.0459						20.0			0.9900
PCB-1254 Peak 5	0.0822					Ave		0.0822						20.0			0.9900
PCB-1254 Peak 6	0.0668					Ave		0.0668						20.0			0.9900
PCB-1254 Peak 7	0.0564					Ave		0.0564						20.0			0.9900
PCB-1254 Peak 8	0.0761					Ave		0.0761						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:33 Calibration End Date: 07/29/2017 16:33 Calibration ID: 63447

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/12	7R006200.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1254 Peak 1	BNB	Ave	22267					1000				
PCB-1254 Peak 2	BNB	Ave	52663					1000				
PCB-1254 Peak 3	BNB	Ave	76998					1000				
PCB-1254 Peak 4	BNB	Ave	59030					1000				
PCB-1254 Peak 5	BNB	Ave	105709					1000				
PCB-1254 Peak 6	BNB	Ave	85920					1000				
PCB-1254 Peak 7	BNB	Ave	72542					1000				
PCB-1254 Peak 8	BNB	Ave	97936					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006200.D
 Lims ID: IC 1254
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 16:33:59 ALS Bottle#: 6 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-012
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub6
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:26 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 20:23:18

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48071	20.0	20.0	
2	2.917	2.917	0.000	25730	20.0	20.0	

RPD = 0.00

7 PCB-1254

M

1	9.103	9.103	0.000	36326	1000.0	1000.0	
1	9.830	9.830	0.000	100417	1000.0	1000.0	
1	10.170	10.170	0.000	110156	1000.0	1000.0	
1	10.807	10.807	0.000	80997	1000.0	1000.0	
1	11.050	11.050	0.000	163480	1000.0	1000.0	
1	11.577	11.577	0.000	135958	1000.0	1000.0	M
1	12.497	12.497	0.000	108188	1000.0	1000.0	M
1	13.063	13.063	0.000	163088	1000.0	1000.0	M

Average of Peak Amounts =

1000.0

2	7.480	7.480	0.000	22267	1000.0	1000.0	M
2	8.123	8.123	0.000	52663	1000.0	1000.0	M
2	8.570	8.570	0.000	76998	1000.0	1000.0	M
2	9.010	9.010	0.000	59030	1000.0	1000.0	M
2	9.210	9.210	0.000	105709	1000.0	1000.0	M
2	9.670	9.670	0.000	85920	1000.0	1000.0	M
2	9.980	9.980	0.000	72542	1000.0	1000.0	M
2	10.443	10.443	0.000	97936	1000.0	1000.0	M

Average of Peak Amounts =

1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1254L3_00030

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006200.D

Injection Date: 29-Jul-2017 16:33:59

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1254

Worklist Smp#: 12

Client ID:

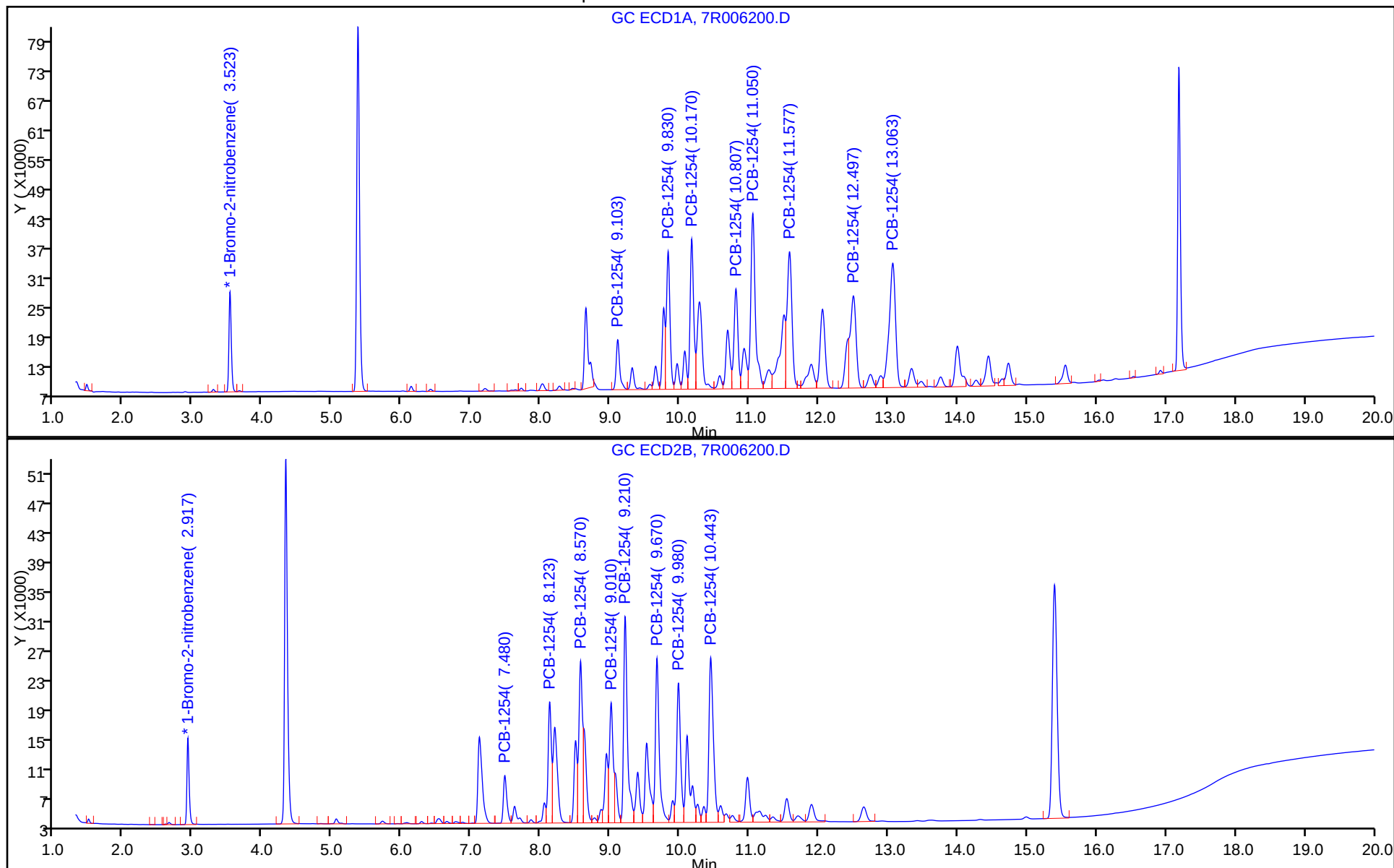
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006200.D

Injection Date: 29-Jul-2017 16:33:59

Instrument ID: CPESTGC7

Lims ID: IC 1254

Client ID:

Operator ID:

ALS Bottle#:

6

Worklist Smp#:

12

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

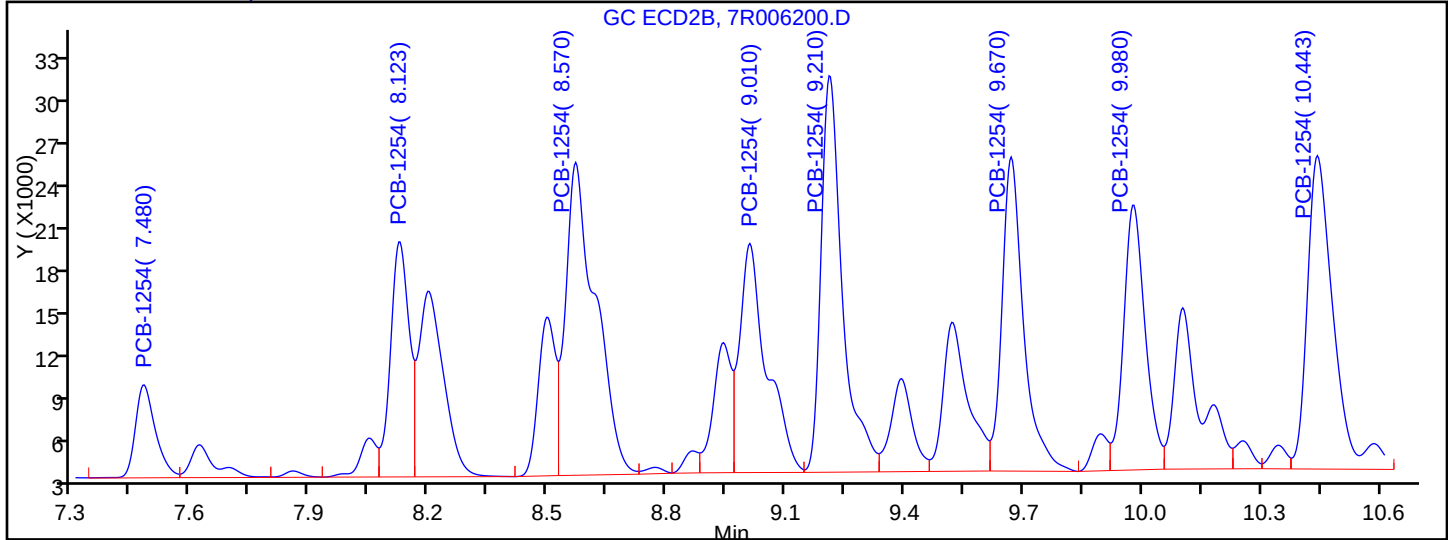
GC 8082A PCB ISTD

Column:

Detector

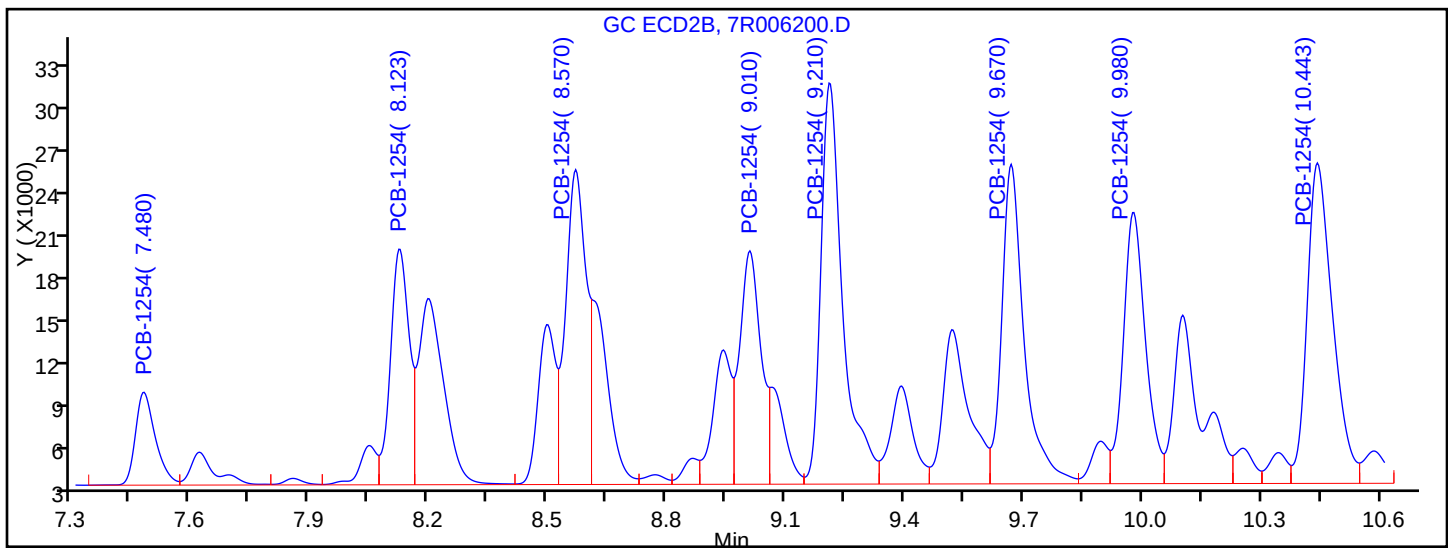
GC ECD2B

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



Processing Integration Results

7.480	Response = 22370
8.123	Response = 52499
8.570	Response = 111754
9.010	Response = 73492
9.210	Response = 102158
9.670	Response = 81169
9.980	Response = 68966
10.443	Response = 99212



Manual Integration Results

7.480	Response = 22267	M
8.123	Response = 52663	M
8.570	Response = 76998	M
9.010	Response = 59030	M
9.210	Response = 105709	M
9.670	Response = 85920	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:57 Calibration End Date: 07/29/2017 16:57 Calibration ID: 63452

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/13	7R006201.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1262 Peak 1	0.0410					Ave		0.0410						20.0			0.9900
PCB-1262 Peak 2	0.0505					Ave		0.0505						20.0			0.9900
PCB-1262 Peak 3	0.0739					Ave		0.0739						20.0			0.9900
PCB-1262 Peak 4	0.0573					Ave		0.0573						20.0			0.9900
PCB-1262 Peak 5	0.1131					Ave		0.1131						20.0			0.9900
PCB-1262 Peak 6	0.0188					Ave		0.0188						20.0			0.9900
PCB-1262 Peak 7	0.0402					Ave		0.0402						20.0			0.9900
PCB-1262 Peak 8	0.0144					Ave		0.0144						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:57 Calibration End Date: 07/29/2017 16:57 Calibration ID: 63452

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/13	7R006201.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1262 Peak 1	BNB	Ave	99473					1000				
PCB-1262 Peak 2	BNB	Ave	122523					1000				
PCB-1262 Peak 3	BNB	Ave	179249					1000				
PCB-1262 Peak 4	BNB	Ave	138925					1000				
PCB-1262 Peak 5	BNB	Ave	274452					1000				
PCB-1262 Peak 6	BNB	Ave	45727					1000				
PCB-1262 Peak 7	BNB	Ave	97537					1000				
PCB-1262 Peak 8	BNB	Ave	34971					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006201.D
 Lims ID: IC 1262
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 16:57:24 ALS Bottle#: 7 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-013
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:28 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 20:25:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48529	20.0	20.0	
2	2.917	2.917	0.000	26325	20.0	20.0	

RPD = 0.00

9 PCB-1262

M

1	11.497	11.497	0.000	99473	1000.0	1000.0	
1	12.050	12.050	0.000	122523	1000.0	1000.0	
1	13.330	13.330	0.000	179249	1000.0	1000.0	
1	14.090	14.090	0.000	138925	1000.0	1000.0	
1	14.730	14.730	0.000	274452	1000.0	1000.0	M
1	16.280	16.280	0.000	45727	1000.0	1000.0	
1	16.530	16.530	0.000	97537	1000.0	1000.0	
1	16.917	16.917	0.000	34971	1000.0	1000.0	

Average of Peak Amounts =

1000.0

2	9.520	9.520	0.000	61597	1000.0	1000.0	M
2	11.150	11.150	0.000	87715	1000.0	1000.0	M
2	11.890	11.890	0.000	186207	1000.0	1000.0	M
2	12.643	12.643	0.000	62415	1000.0	1000.0	M
2	12.900	12.900	0.000	82343	1000.0	1000.0	M
2	13.640	13.640	0.000	30113	1000.0	1000.0	M
2	14.320	14.320	0.000	64933	1000.0	1000.0	M
2	14.983	14.983	0.000	26344	1000.0	1000.0	M

Average of Peak Amounts =

1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1262L3_00026

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006201.D

Injection Date: 29-Jul-2017 16:57:24

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1262

Worklist Smp#: 13

Client ID:

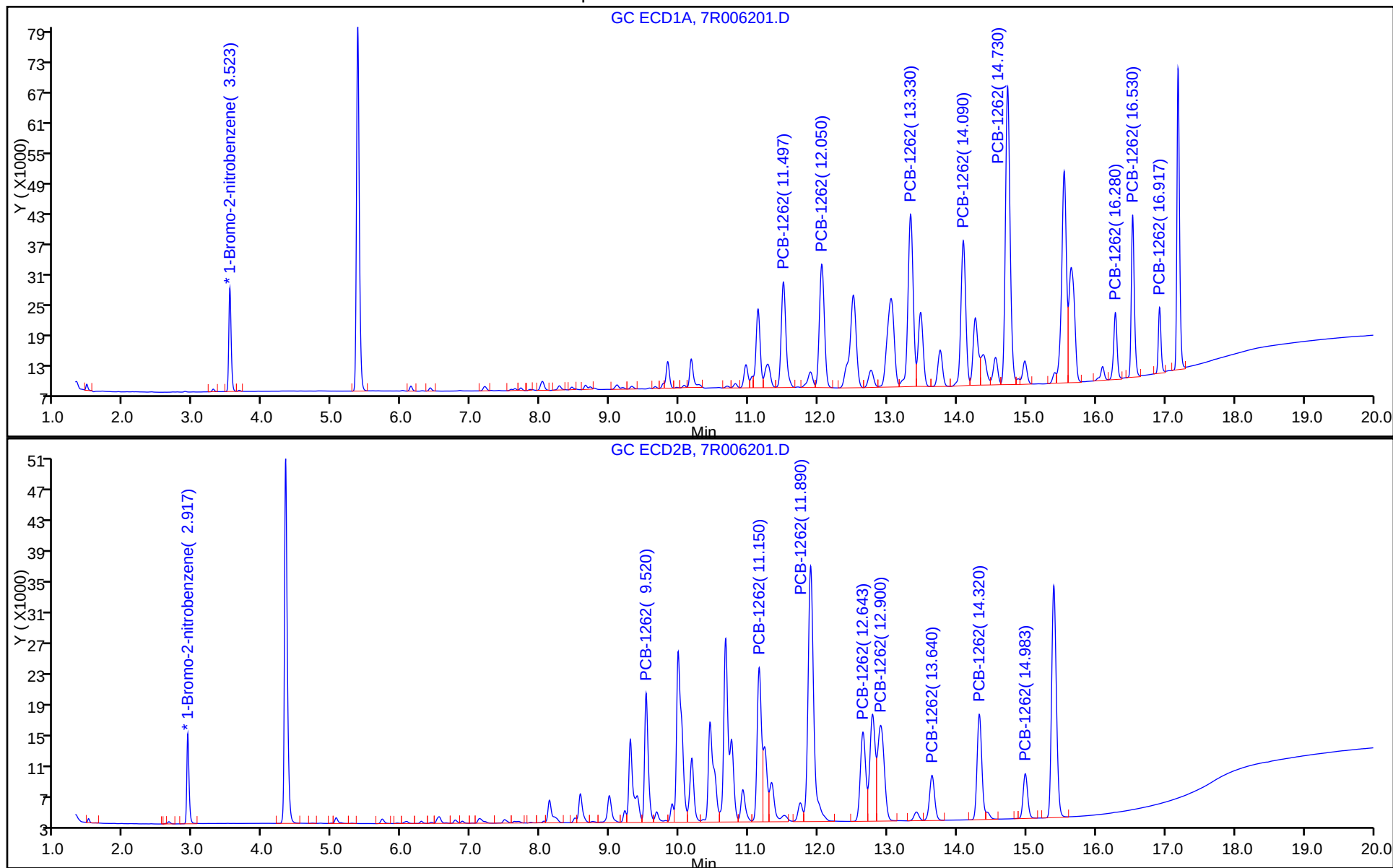
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006201.D

Injection Date: 29-Jul-2017 16:57:24

Instrument ID: CPESTGC7

Lims ID: IC 1262

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#:

13

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

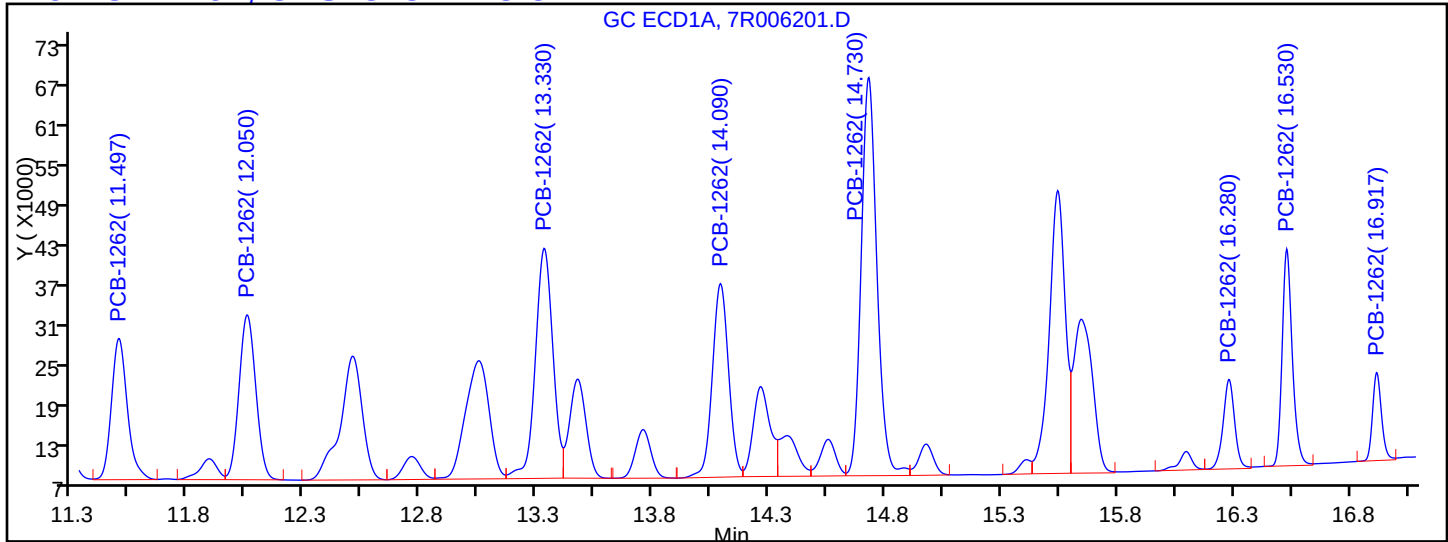
GC 8082A PCB ISTD

Column:

Detector

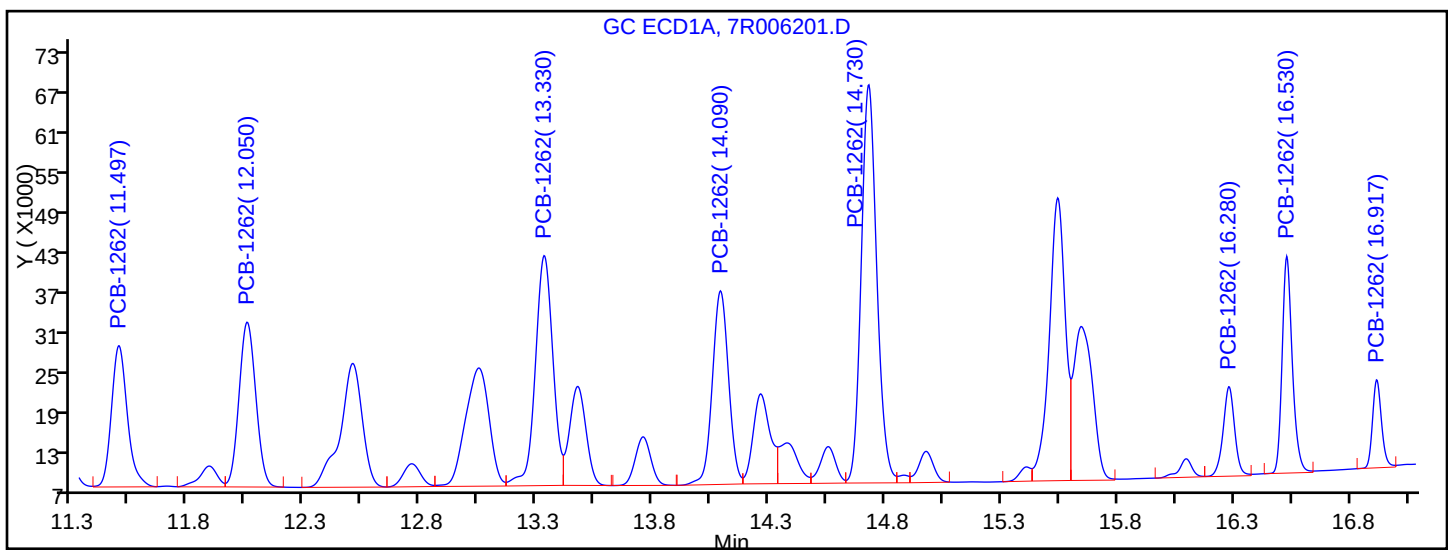
GC ECD1A

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



Processing Integration Results

11.497	Response = 99473
12.050	Response = 122523
13.330	Response = 179249
14.090	Response = 138925
14.730	Response = 277966
16.280	Response = 45727
16.530	Response = 97537
16.917	Response = 34971



Manual Integration Results

11.497	Response = 99473
12.050	Response = 122523
13.330	Response = 179249
14.090	Response = 138925
14.730	Response = 274452
16.280	Response = 45727

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:57 Calibration End Date: 07/29/2017 16:57 Calibration ID: 63453

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/13	7R006201.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1262 Peak 1	0.0468					Ave		0.0468						20.0			0.9900
PCB-1262 Peak 2	0.0666					Ave		0.0666						20.0			0.9900
PCB-1262 Peak 3	0.1415					Ave		0.1415						20.0			0.9900
PCB-1262 Peak 4	0.0474					Ave		0.0474						20.0			0.9900
PCB-1262 Peak 5	0.0626					Ave		0.0626						20.0			0.9900
PCB-1262 Peak 6	0.0229					Ave		0.0229						20.0			0.9900
PCB-1262 Peak 7	0.0493					Ave		0.0493						20.0			0.9900
PCB-1262 Peak 8	0.0200					Ave		0.0200						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 16:57 Calibration End Date: 07/29/2017 16:57 Calibration ID: 63453

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/13	7R006201.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1262 Peak 1	BNB	Ave	61597					1000				
PCB-1262 Peak 2	BNB	Ave	87715					1000				
PCB-1262 Peak 3	BNB	Ave	186207					1000				
PCB-1262 Peak 4	BNB	Ave	62415					1000				
PCB-1262 Peak 5	BNB	Ave	82343					1000				
PCB-1262 Peak 6	BNB	Ave	30113					1000				
PCB-1262 Peak 7	BNB	Ave	64933					1000				
PCB-1262 Peak 8	BNB	Ave	26344					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006201.D
 Lims ID: IC 1262
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 16:57:24 ALS Bottle#: 7 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-013
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:28 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji Date: 29-Jul-2017 20:25:10

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.523	3.523	0.000	48529	20.0	20.0	
2	2.917	2.917	0.000	26325	20.0	20.0	

RPD = 0.00

9 PCB-1262

M

1	11.497	11.497	0.000	99473	1000.0	1000.0	
1	12.050	12.050	0.000	122523	1000.0	1000.0	
1	13.330	13.330	0.000	179249	1000.0	1000.0	
1	14.090	14.090	0.000	138925	1000.0	1000.0	
1	14.730	14.730	0.000	274452	1000.0	1000.0	M
1	16.280	16.280	0.000	45727	1000.0	1000.0	
1	16.530	16.530	0.000	97537	1000.0	1000.0	
1	16.917	16.917	0.000	34971	1000.0	1000.0	

Average of Peak Amounts = 1000.0

2	9.520	9.520	0.000	61597	1000.0	1000.0	M
2	11.150	11.150	0.000	87715	1000.0	1000.0	M
2	11.890	11.890	0.000	186207	1000.0	1000.0	M
2	12.643	12.643	0.000	62415	1000.0	1000.0	M
2	12.900	12.900	0.000	82343	1000.0	1000.0	M
2	13.640	13.640	0.000	30113	1000.0	1000.0	M
2	14.320	14.320	0.000	64933	1000.0	1000.0	M
2	14.983	14.983	0.000	26344	1000.0	1000.0	M

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1262L3_00026

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006201.D

Injection Date: 29-Jul-2017 16:57:24

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1262

Worklist Smp#: 13

Client ID:

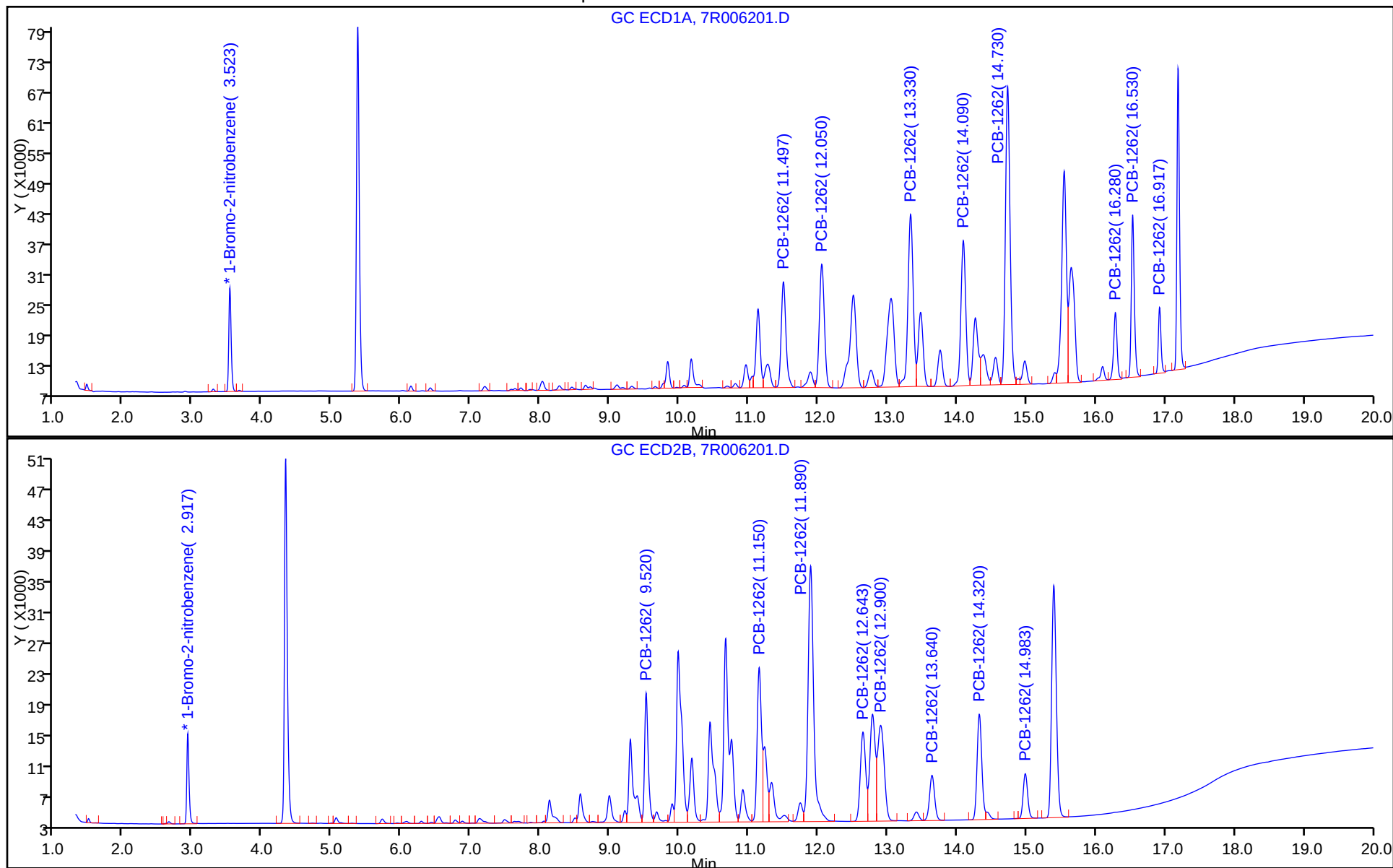
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006201.D

Injection Date: 29-Jul-2017 16:57:24

Instrument ID: CPESTGC7

Lims ID: IC 1262

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#:

13

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

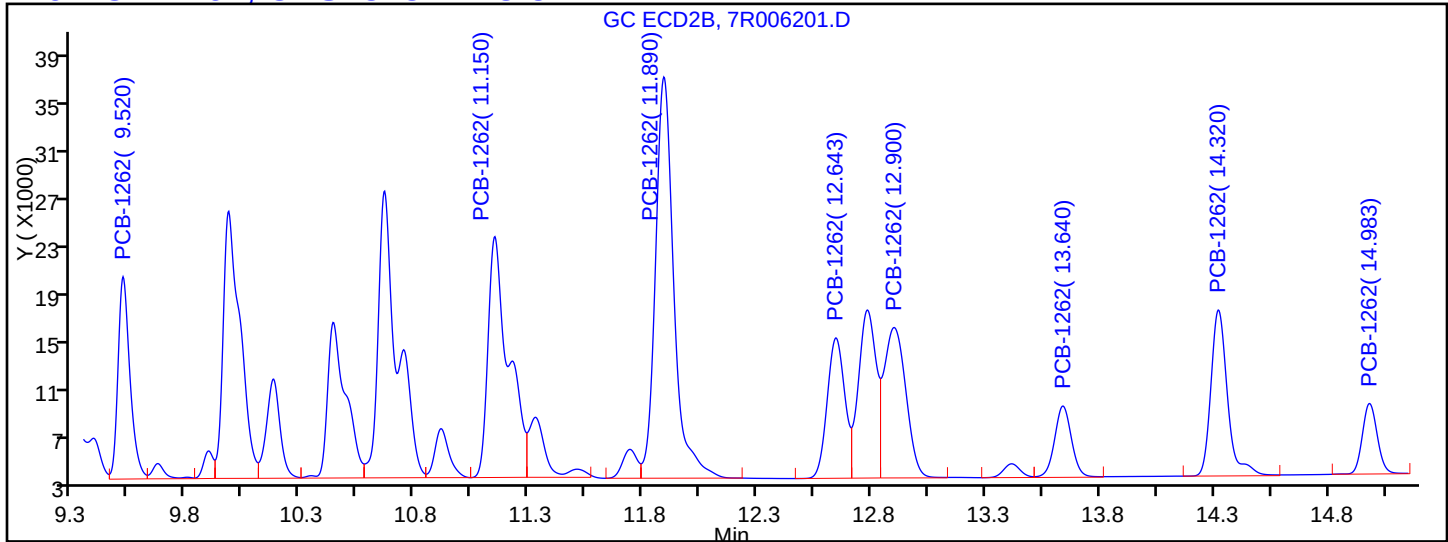
GC 8082A PCB ISTD

Column:

Detector

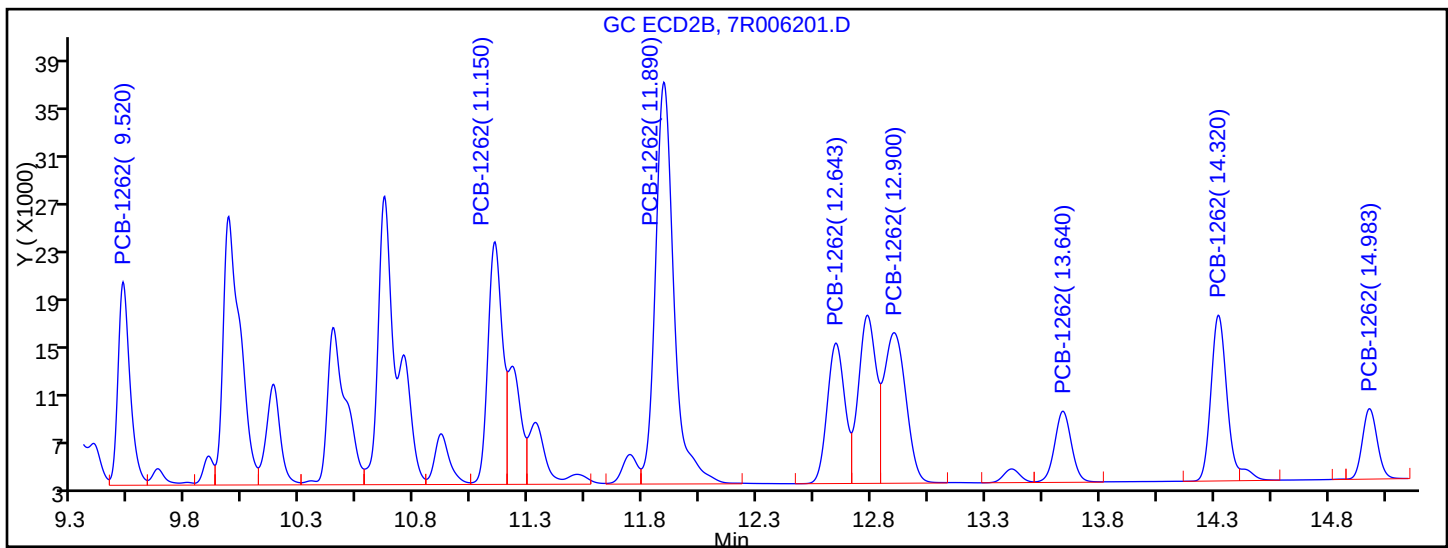
GC ECD2B

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



Processing Integration Results

9.520	Response = 60707
11.150	Response = 124092
11.890	Response = 184810
12.643	Response = 62274
12.900	Response = 82193
13.640	Response = 30304
14.320	Response = 69328
14.983	Response = 26532



Manual Integration Results

9.520	Response = 61597	M
11.150	Response = 87715	M
11.890	Response = 186207	M
12.643	Response = 62415	M
12.900	Response = 82343	M
13.640	Response = 30113	M

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 17:20 Calibration End Date: 07/29/2017 17:20 Calibration ID: 63458

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/14	7R006202.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1268 Peak 1	0.0429					Ave		0.0429						20.0			0.9900
PCB-1268 Peak 2	0.0543					Ave		0.0543						20.0			0.9900
PCB-1268 Peak 3	0.1804					Ave		0.1804						20.0			0.9900
PCB-1268 Peak 4	0.1718					Ave		0.1718						20.0			0.9900
PCB-1268 Peak 5	0.1376					Ave		0.1376						20.0			0.9900
PCB-1268 Peak 6	0.0423					Ave		0.0423						20.0			0.9900
PCB-1268 Peak 7	0.0600					Ave		0.0600						20.0			0.9900
PCB-1268 Peak 8	0.3307					Ave		0.3307						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-2 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 17:20 Calibration End Date: 07/29/2017 17:20 Calibration ID: 63458

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/14	7R006202.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1268 Peak 1	BNB	Ave	105655					1000				
PCB-1268 Peak 2	BNB	Ave	133567					1000				
PCB-1268 Peak 3	BNB	Ave	444023					1000				
PCB-1268 Peak 4	BNB	Ave	422764					1000				
PCB-1268 Peak 5	BNB	Ave	338630					1000				
PCB-1268 Peak 6	BNB	Ave	104169					1000				
PCB-1268 Peak 7	BNB	Ave	147772					1000				
PCB-1268 Peak 8	BNB	Ave	813824					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Lims ID: IC 1268
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 17:20:57 ALS Bottle#: 8 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-014
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub8
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:31 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji

Date: 29-Jul-2017 20:26:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene M

1	3.523	3.523	0.000	49224	20.0	20.0	
2	2.913	2.913	0.000	26406	20.0	20.0	M

RPD = 0.00

10 PCB-1268

1	13.333	13.333	0.000	105655	1000.0	1000.0	
1	14.097	14.097	0.000	133567	1000.0	1000.0	
1	15.540	15.540	0.000	444023	1000.0	1000.0	
1	15.637	15.637	0.000	422764	1000.0	1000.0	
1	16.097	16.097	0.000	338630	1000.0	1000.0	
1	16.250	16.250	0.000	104169	1000.0	1000.0	
1	16.530	16.530	0.000	147772	1000.0	1000.0	
1	16.917	16.917	0.000	813824	1000.0	1000.0	

Average of Peak Amounts = 1000.0

2	10.667	10.667	0.000	60049	1000.0	1000.0	
2	11.147	11.147	0.000	78094	1000.0	1000.0	
2	12.783	12.783	0.000	285166	1000.0	1000.0	
2	12.887	12.887	0.000	295271	1000.0	1000.0	
2	13.413	13.413	0.000	242628	1000.0	1000.0	
2	13.633	13.633	0.000	72161	1000.0	1000.0	
2	14.323	14.323	0.000	107923	1000.0	1000.0	
2	14.983	14.983	0.000	697583	1000.0	1000.0	

Average of Peak Amounts = 1000.0

RPD = 0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1268L3_00027

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006202.D

Injection Date: 29-Jul-2017 17:20:57

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1268

Worklist Smp#: 14

Client ID:

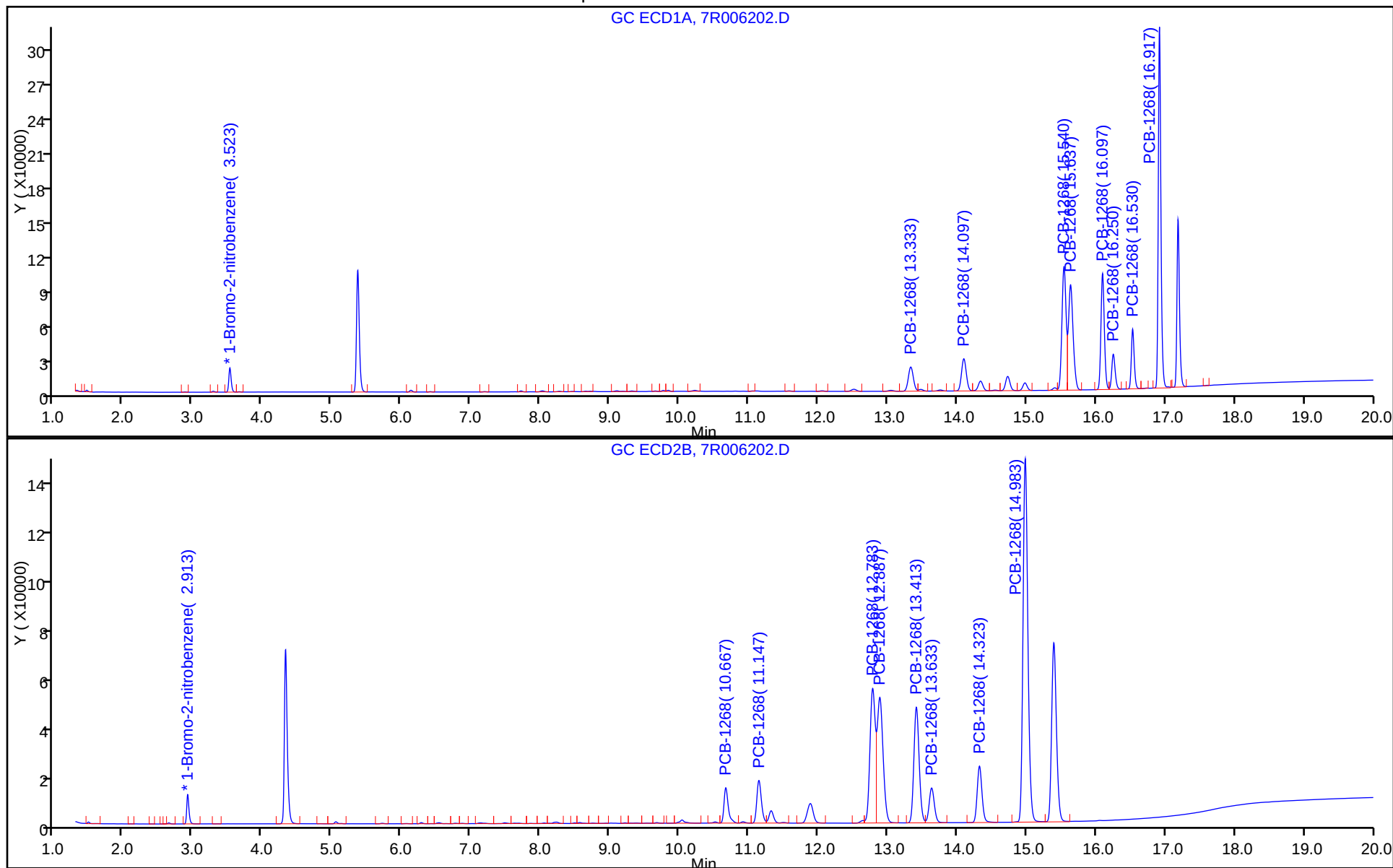
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 17:20 Calibration End Date: 07/29/2017 17:20 Calibration ID: 63459

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/14	7R006202.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1						B	M1	M2								
PCB-1268 Peak 1	0.0455					Ave		0.0455						20.0			0.9900
PCB-1268 Peak 2	0.0591					Ave		0.0591						20.0			0.9900
PCB-1268 Peak 3	0.2160					Ave		0.2160						20.0			0.9900
PCB-1268 Peak 4	0.2236					Ave		0.2236						20.0			0.9900
PCB-1268 Peak 5	0.1838					Ave		0.1838						20.0			0.9900
PCB-1268 Peak 6	0.0547					Ave		0.0547						20.0			0.9900
PCB-1268 Peak 7	0.0817					Ave		0.0817						20.0			0.9900
PCB-1268 Peak 8	0.5284					Ave		0.5284						20.0			0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
PCBS BY INTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Edison Job No.: 460-144244-1 Analy Batch No.: 452720

SDG No.: _____

Instrument ID: CPESTGC7 GC Column: CLP-1 ID: 0.53 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 07/29/2017 17:20 Calibration End Date: 07/29/2017 17:20 Calibration ID: 63459

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 460-452720/14	7R006202.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1					LVL 1				
PCB-1268 Peak 1	BNB	Ave	60049					1000				
PCB-1268 Peak 2	BNB	Ave	78094					1000				
PCB-1268 Peak 3	BNB	Ave	285166					1000				
PCB-1268 Peak 4	BNB	Ave	295271					1000				
PCB-1268 Peak 5	BNB	Ave	242628					1000				
PCB-1268 Peak 6	BNB	Ave	72161					1000				
PCB-1268 Peak 7	BNB	Ave	107923					1000				
PCB-1268 Peak 8	BNB	Ave	697583					1000				

Curve Type Legend:

Ave = Average ISTD

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Lims ID: IC 1268
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 29-Jul-2017 17:20:57 ALS Bottle#: 8 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0058345-014
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub8
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 29-Jul-2017 20:29:31 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK031

First Level Reviewer: patelji Date: 29-Jul-2017 20:26:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene M
 1 3.523 3.523 0.000 49224 20.0 20.0
 2 2.913 2.913 0.000 26406 20.0 20.0 M
 RPD = 0.00

10 PCB-1268

1	13.333	13.333	0.000	105655	1000.0	1000.0
1	14.097	14.097	0.000	133567	1000.0	1000.0
1	15.540	15.540	0.000	444023	1000.0	1000.0
1	15.637	15.637	0.000	422764	1000.0	1000.0
1	16.097	16.097	0.000	338630	1000.0	1000.0
1	16.250	16.250	0.000	104169	1000.0	1000.0
1	16.530	16.530	0.000	147772	1000.0	1000.0
1	16.917	16.917	0.000	813824	1000.0	1000.0
Average of Peak Amounts =						1000.0
2	10.667	10.667	0.000	60049	1000.0	1000.0
2	11.147	11.147	0.000	78094	1000.0	1000.0
2	12.783	12.783	0.000	285166	1000.0	1000.0
2	12.887	12.887	0.000	295271	1000.0	1000.0
2	13.413	13.413	0.000	242628	1000.0	1000.0
2	13.633	13.633	0.000	72161	1000.0	1000.0
2	14.323	14.323	0.000	107923	1000.0	1000.0
2	14.983	14.983	0.000	697583	1000.0	1000.0
Average of Peak Amounts =						1000.0
RPD =						0.00

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1268L3_00027

Amount Added: 1.00

Units: mL

SGPCBISTD_00008

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006202.D

Injection Date: 29-Jul-2017 17:20:57

Instrument ID: CPESTGC7

Operator ID:

Lims ID: IC 1268

Worklist Smp#: 14

Client ID:

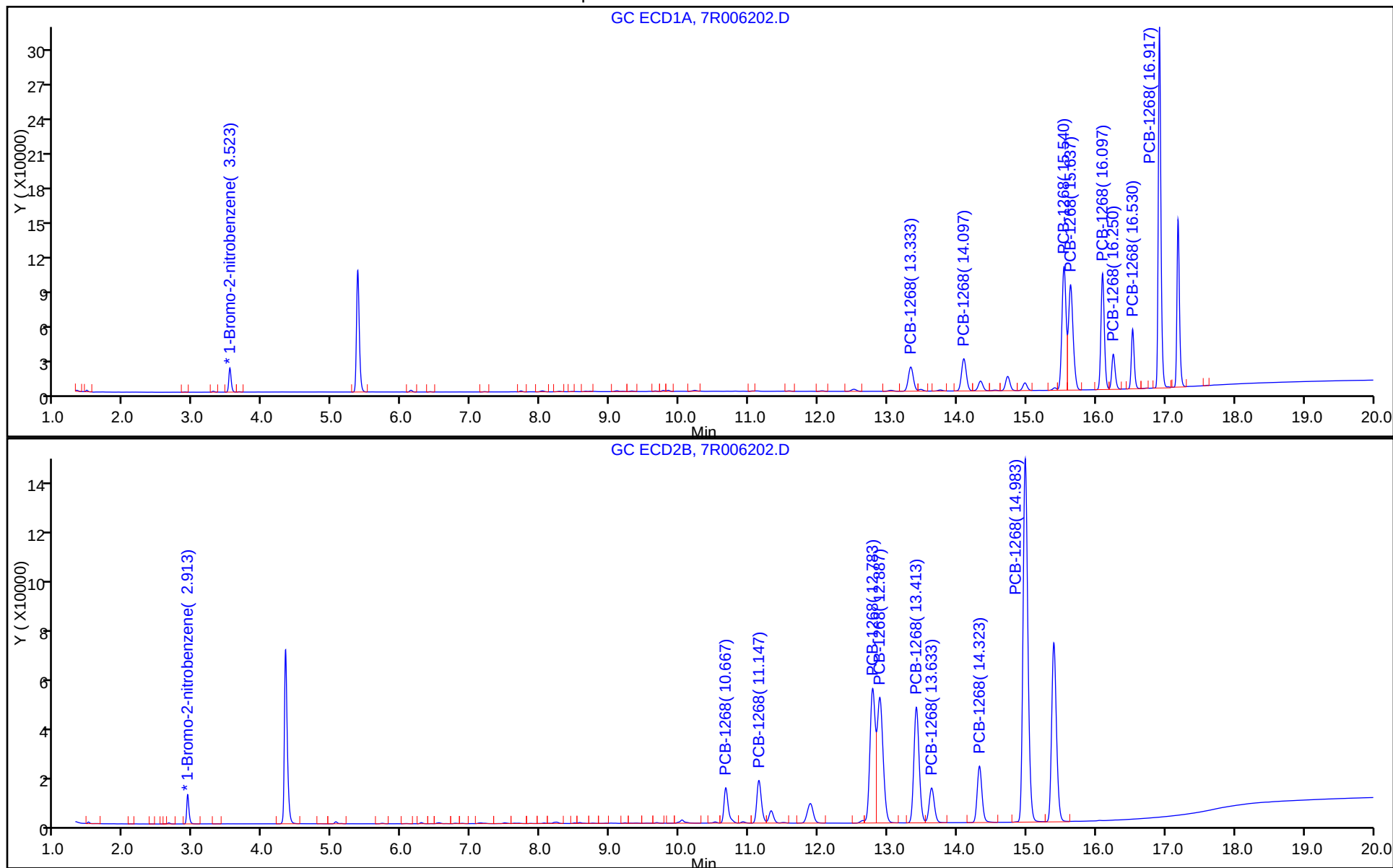
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20170729-58345.b\\7R006202.D

Injection Date: 29-Jul-2017 17:20:57

Instrument ID: CPESTGC7

Lims ID: IC 1268

Client ID:

Operator ID:

ALS Bottle#:

8

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

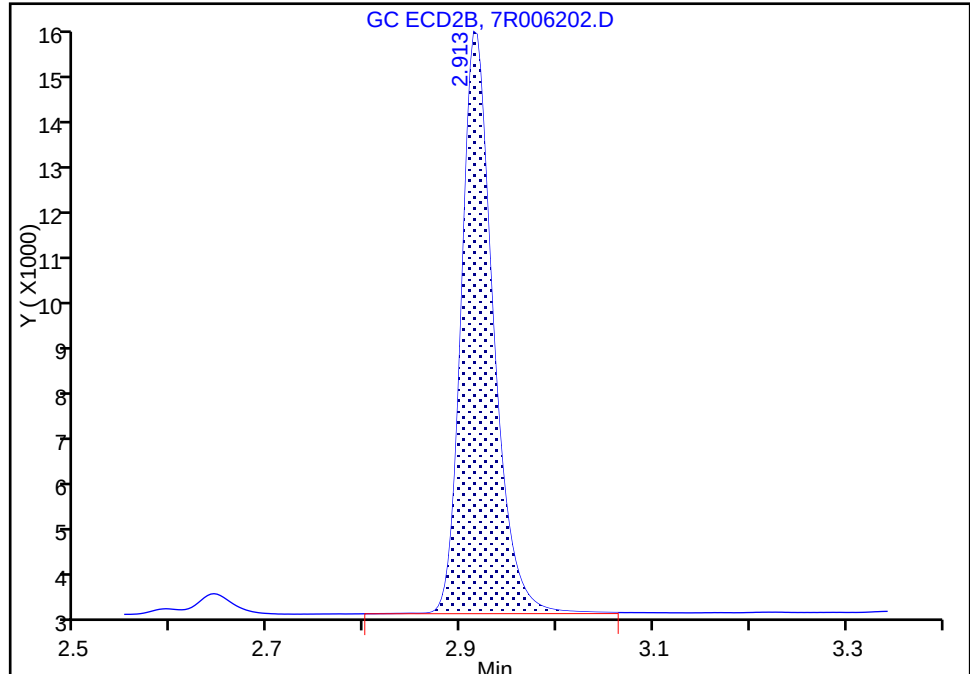
Detector GC ECD2B

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 2

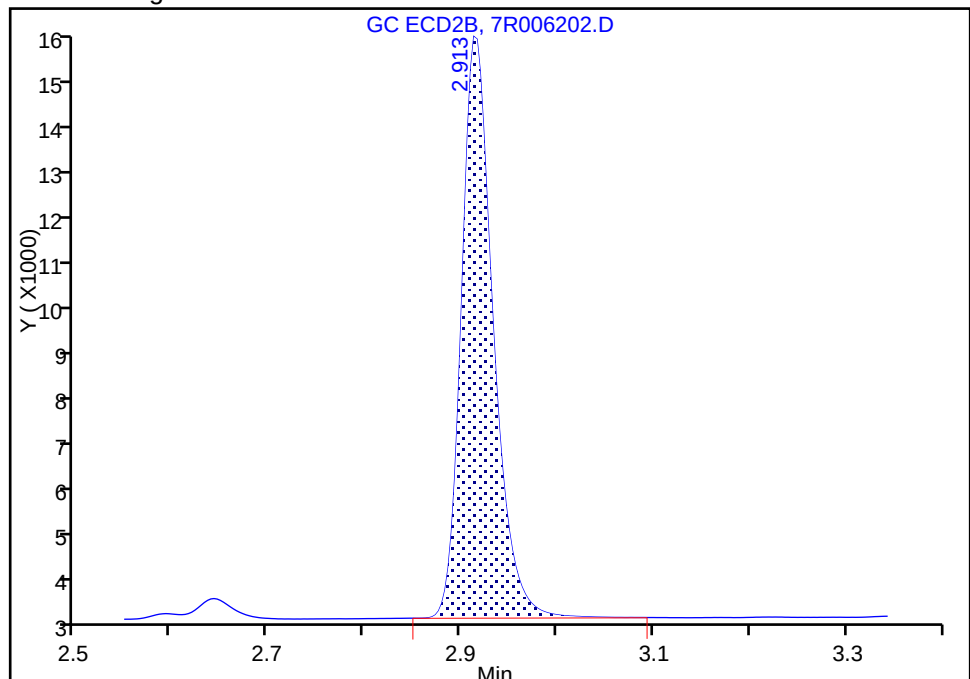
RT: 2.91
Area: 26514
Amount: 20.000000
Amount Units: ug/l

Processing Integration Results



RT: 2.91
Area: 26406
Amount: 20.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 29-Jul-2017 20:27:15

Audit Action: Manually Integrated

Audit Reason: Sample matrix interference

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474852/2 Calibration Date: 11/06/2017 08:36
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-2 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R009992.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0203	0.0191		938	1000	-6.2	20.0
PCB-1016 Peak 2	Ave	0.0406	0.0367		903	1000	-9.7	20.0
PCB-1016 Peak 3	Ave	0.0791	0.0760		962	1000	-3.8	20.0
PCB-1016 Peak 4	Ave	0.0367	0.0347		946	1000	-5.4	20.0
PCB-1016 Peak 5	Ave	0.0275	0.0277		1010	1000	0.6	20.0
PCB-1016 Peak 6	Ave	0.0269	0.0256		951	1000	-4.9	20.0
PCB-1016 Peak 7	Ave	0.0284	0.0291		1030	1000	2.5	20.0
PCB-1016 Peak 8	Ave	0.0262	0.0270		1030	1000	3.3	20.0
PCB-1260 Peak 1	Ave	0.0279	0.0267		958	1000	-4.2	20.0
PCB-1260 Peak 2	Ave	0.0576	0.0557		967	1000	-3.3	20.0
PCB-1260 Peak 3	Ave	0.0678	0.0629		928	1000	-7.2	20.0
PCB-1260 Peak 4	Ave	0.0485	0.0519		1070	1000	7.0	20.0
PCB-1260 Peak 5	Ave	0.0469	0.0448		956	1000	-4.4	20.0
PCB-1260 Peak 6	Ave	0.0971	0.0986		1010	1000	1.5	20.0
PCB-1260 Peak 7	Ave	0.0697	0.0718		1030	1000	3.0	20.0
PCB-1260 Peak 8	Ave	0.0236	0.0244		1030	1000	3.2	20.0
Tetrachloro-m-xylene	Ave	0.8800	0.8439		95.9	100	-4.1	20.0
DCB Decachlorobiphenyl	Ave	0.6951	0.6391		91.9	100	-8.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474852/2 Calibration Date: 11/06/2017 08:36
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-2 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R009992.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	6.21	6.14	6.28
PCB-1016 Peak 2	6.98	6.91	7.05
PCB-1016 Peak 3	7.80	7.73	7.87
PCB-1016 Peak 4	8.05	7.98	8.12
PCB-1016 Peak 5	8.22	8.15	8.29
PCB-1016 Peak 6	8.87	8.80	8.94
PCB-1016 Peak 7	9.08	9.01	9.15
PCB-1016 Peak 8	9.59	9.52	9.66
PCB-1260 Peak 1	10.82	10.75	10.89
PCB-1260 Peak 2	11.16	11.09	11.23
PCB-1260 Peak 3	11.67	11.60	11.74
PCB-1260 Peak 4	12.92	12.85	12.99
PCB-1260 Peak 5	13.71	13.64	13.78
PCB-1260 Peak 6	14.37	14.30	14.44
PCB-1260 Peak 7	15.20	15.13	15.27
PCB-1260 Peak 8	16.31	16.24	16.38
Tetrachloro-m-xylene	5.18	5.13	5.23
DCB Decachlorobiphenyl	17.00	16.90	17.10

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009992.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 06-Nov-2017 08:36:33 ALS Bottle#: 5 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: kapoors

Date: 06-Nov-2017 07:58:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

M

1	3.380	3.380	0.000	61711	20.0	20.0	M
2	2.767	2.767	0.000	29272	20.0	20.0	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	260381	100.0	95.9	
2	4.140	4.140	0.000	156089	100.0	99.6	

RPD = 3.84

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009992.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.210	6.210	0.000	58800	1000.0	938.4	
1	6.983	6.983	0.000	113089	1000.0	902.7	M
1	7.803	7.803	0.000	234596	1000.0	961.7	M
1	8.047	8.047	0.000	107175	1000.0	946.4	M
1	8.223	8.223	0.000	85436	1000.0	1006.1	M
1	8.870	8.870	0.000	78852	1000.0	951.5	M
1	9.080	9.080	0.000	89746	1000.0	1025.1	M
1	9.593	9.593	0.000	83379	1000.0	1032.6	M

Average of Peak Amounts =

970.6

2	4.857	4.857	0.000	37947	1000.0	947.9	
2	5.500	5.500	0.000	73224	1000.0	963.4	
2	5.843	5.843	0.000	46449	1000.0	987.8	M
2	6.307	6.307	0.000	127688	1000.0	890.6	M
2	6.533	6.533	0.000	57801	1000.0	926.4	M
2	6.637	6.637	0.000	38658	1000.0	1009.4	M
2	7.237	7.237	0.000	60423	1000.0	996.5	M
2	7.877	7.877	0.000	36739	1000.0	1008.3	M

Average of Peak Amounts =

966.3

RPD = 0.44

8 PCB-1260

M

1	10.820	10.820	0.000	82371	1000.0	958.5	M
1	11.157	11.157	0.000	171892	1000.0	967.5	M
1	11.670	11.670	0.000	194117	1000.0	927.8	M
1	12.920	12.920	0.000	159999	1000.0	1069.6	M
1	13.707	13.707	0.000	138307	1000.0	956.2	
1	14.370	14.370	0.000	304165	1000.0	1014.8	
1	15.200	15.200	0.000	221566	1000.0	1029.7	
1	16.307	16.307	0.000	75214	1000.0	1031.6	

Average of Peak Amounts =

994.5

2	9.257	9.257	0.000	94258	1000.0	1029.2	
2	10.153	10.153	0.000	154916	1000.0	1040.5	
2	10.360	10.360	0.000	68498	1000.0	947.5	M
2	10.800	10.800	0.000	76129	1000.0	1003.2	M
2	11.473	11.473	0.000	178373	1000.0	1037.5	
2	12.157	12.157	0.000	86621	1000.0	973.0	
2	12.407	12.407	0.000	47186	1000.0	1064.4	
2	13.900	13.900	0.000	45066	1000.0	1032.9	

Average of Peak Amounts =

1016.0

RPD = 2.15

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	197209	100.0	91.9	
2	15.013	15.013	0.000	165983	100.0	97.2	

RPD = 5.52

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L3_00031

Amount Added: 1.00

Units: ml

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009992.D

Injection Date: 06-Nov-2017 08:36:33

Instrument ID: CPESTGC7

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

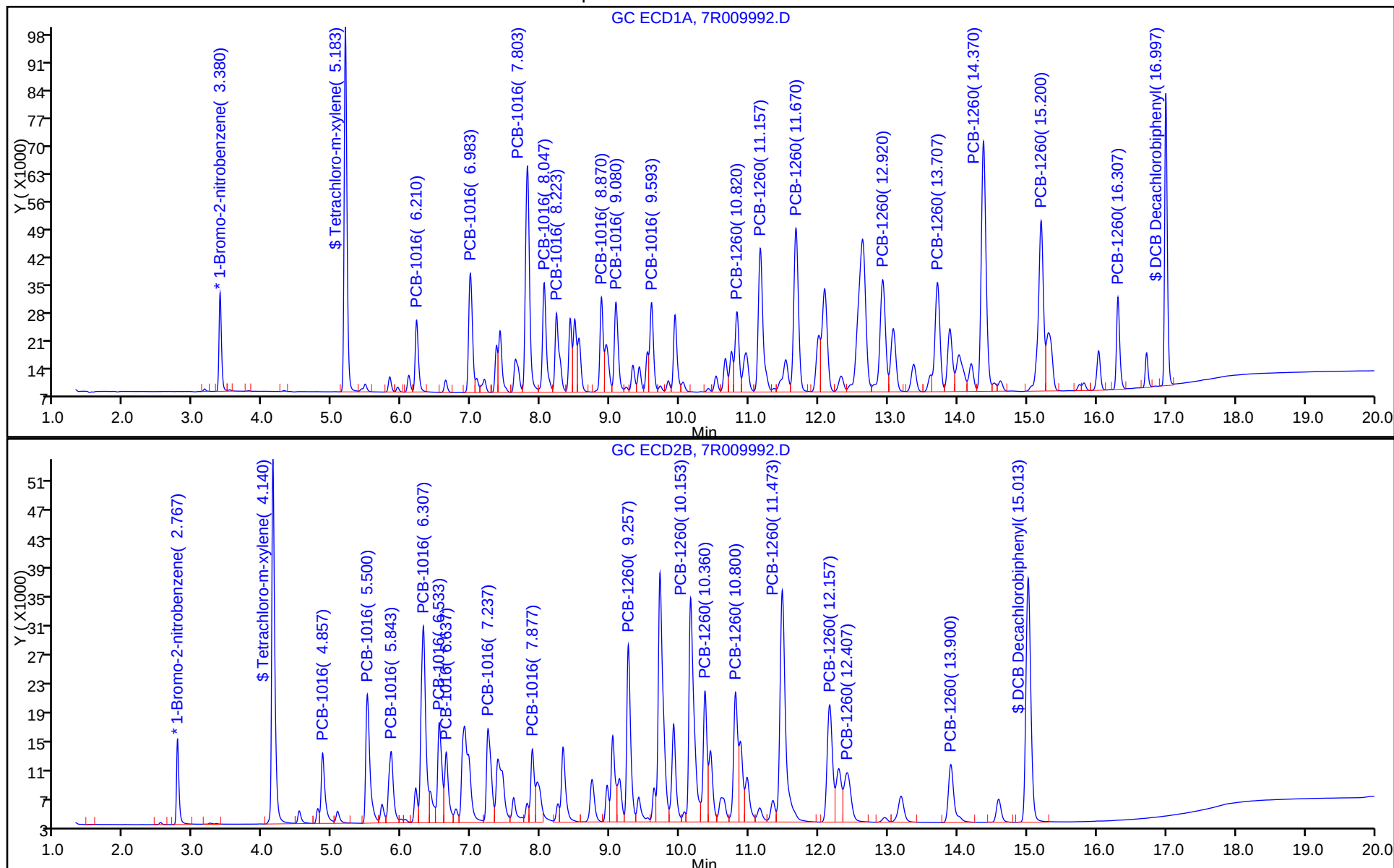
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009992.D

Injection Date: 06-Nov-2017 08:36:33

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

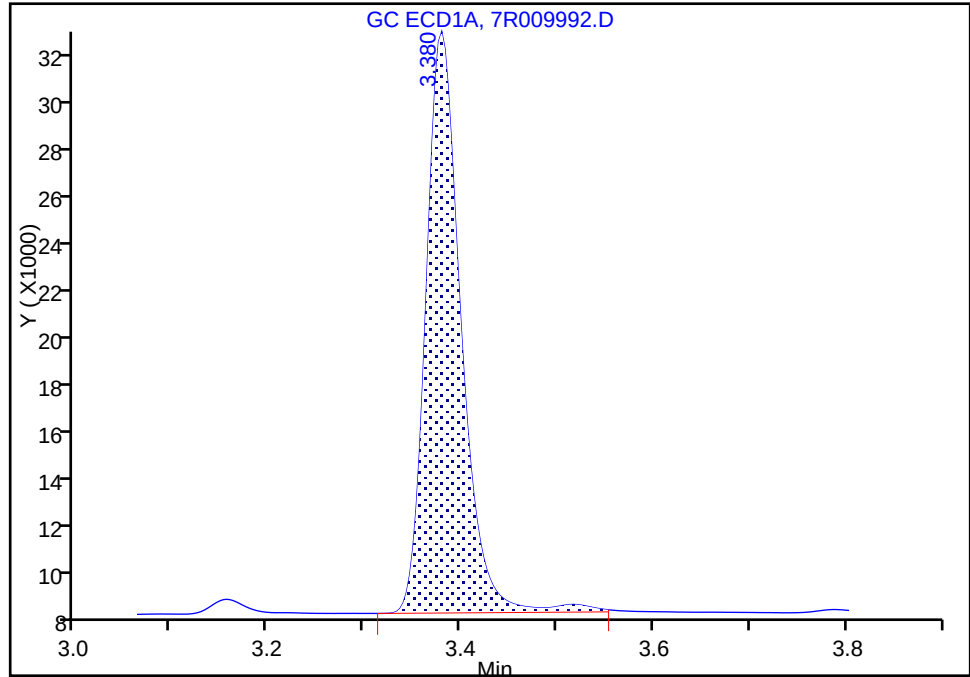
Detector GC ECD1A

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

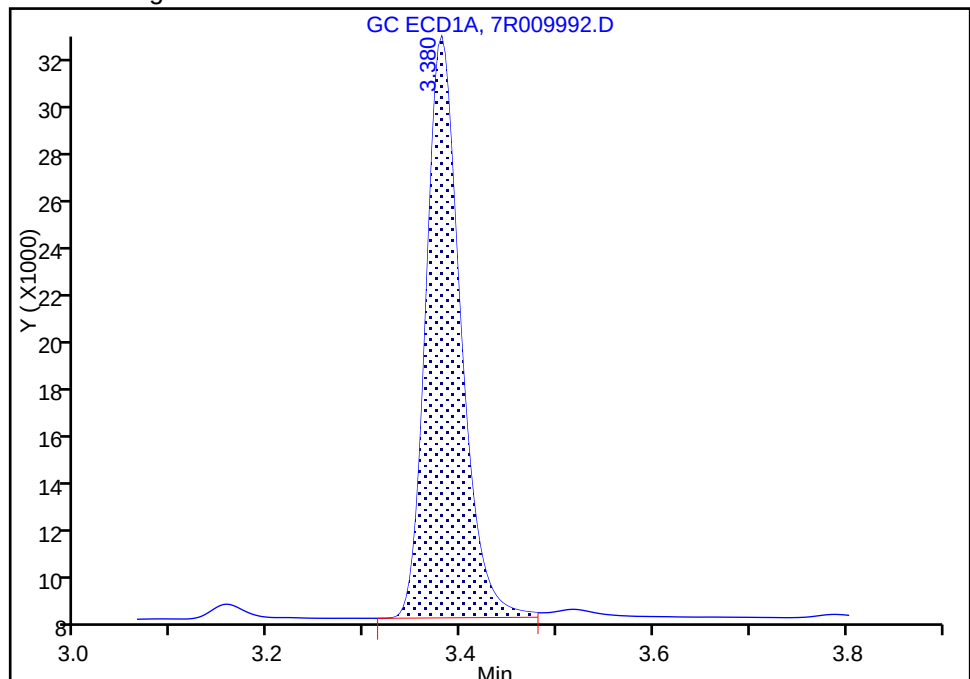
RT: 3.38
Area: 62706
Amount: 20.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.38
Area: 61711
Amount: 20.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 06-Nov-2017 13:09:05

Audit Action: Split an Integrated Peak

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009992.D

Injection Date: 06-Nov-2017 08:36:33

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

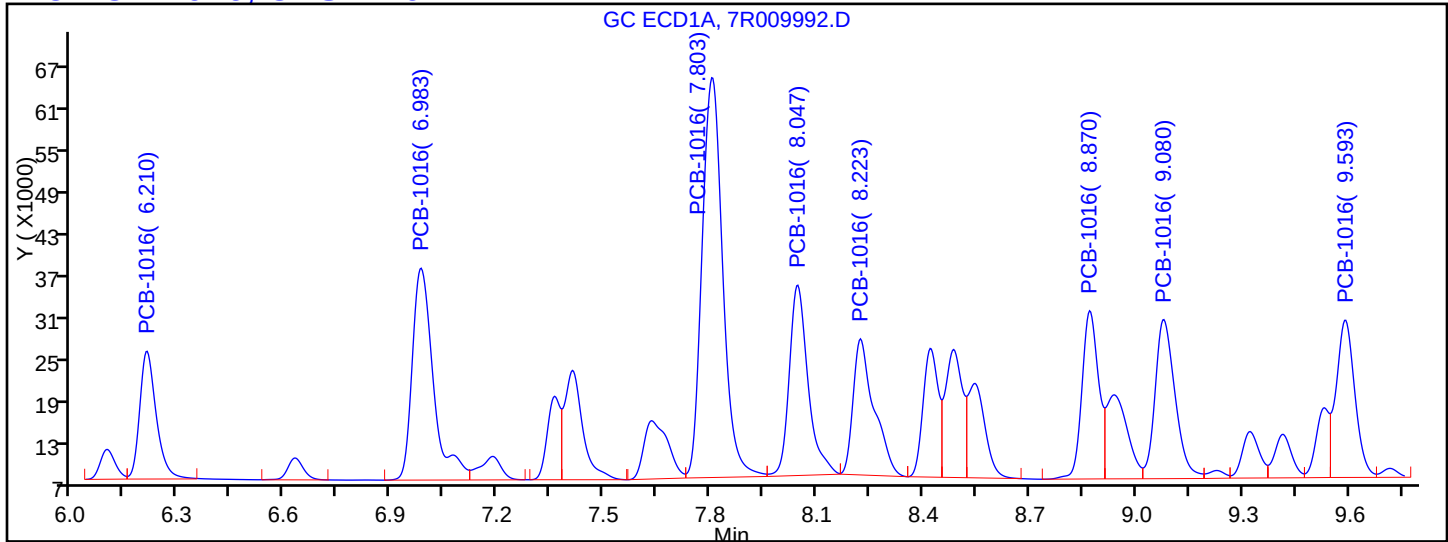
GC 8082A PCB ISTD

Column:

Detector

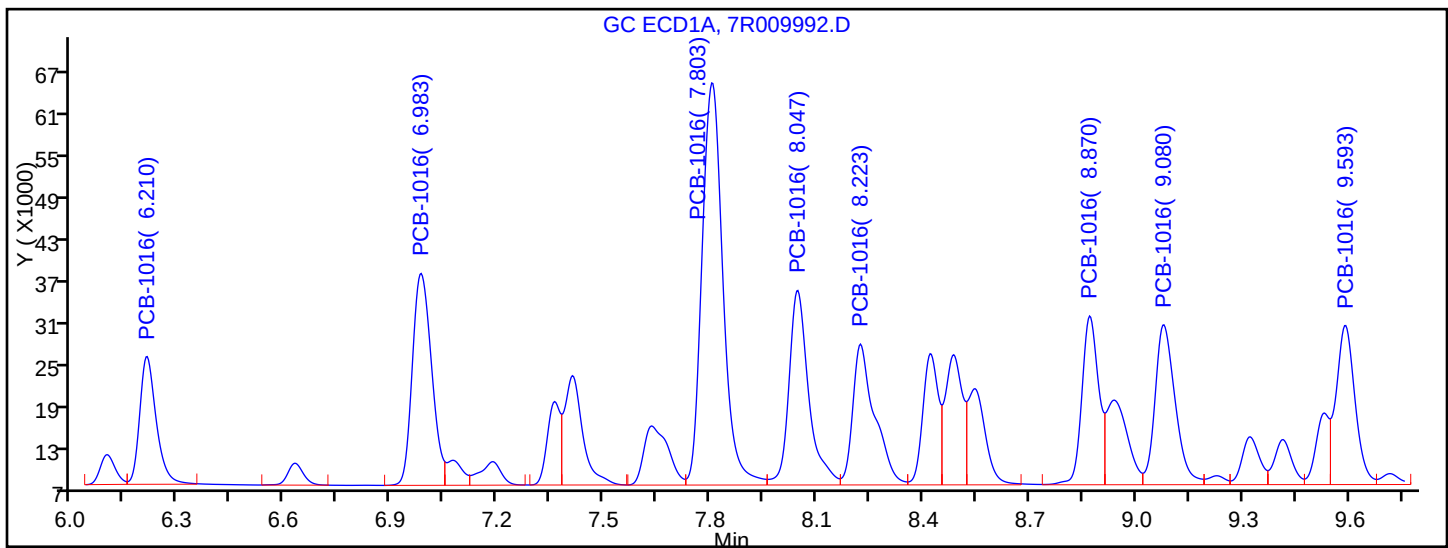
GC ECD1A

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



Processing Integration Results

6.210	Response = 58800
6.983	Response = 124492
7.803	Response = 229649
8.047	Response = 99475
8.223	Response = 78642
8.870	Response = 78163
9.080	Response = 88555
9.593	Response = 81316



Manual Integration Results

6.210	Response = 58800	
6.983	Response = 113089	M
7.803	Response = 234596	M
8.047	Response = 107175	M
8.223	Response = 85436	M
8.870	Response = 78852	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009992.D

Injection Date: 06-Nov-2017 08:36:33

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

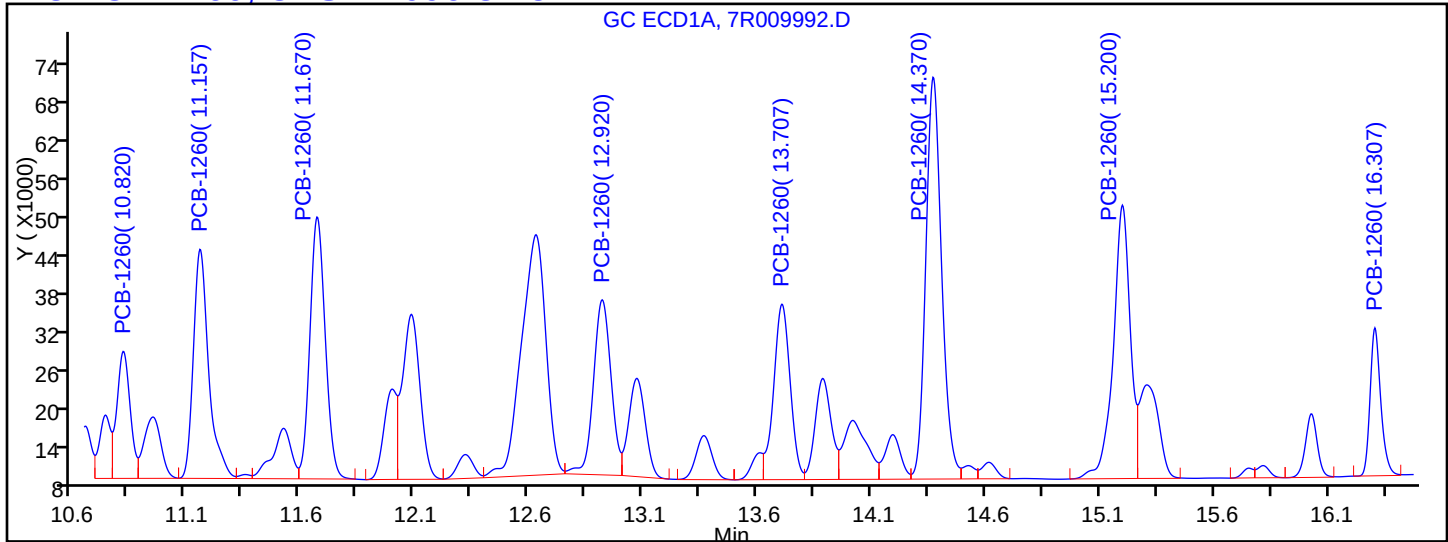
GC 8082A PCB ISTD

Column:

Detector

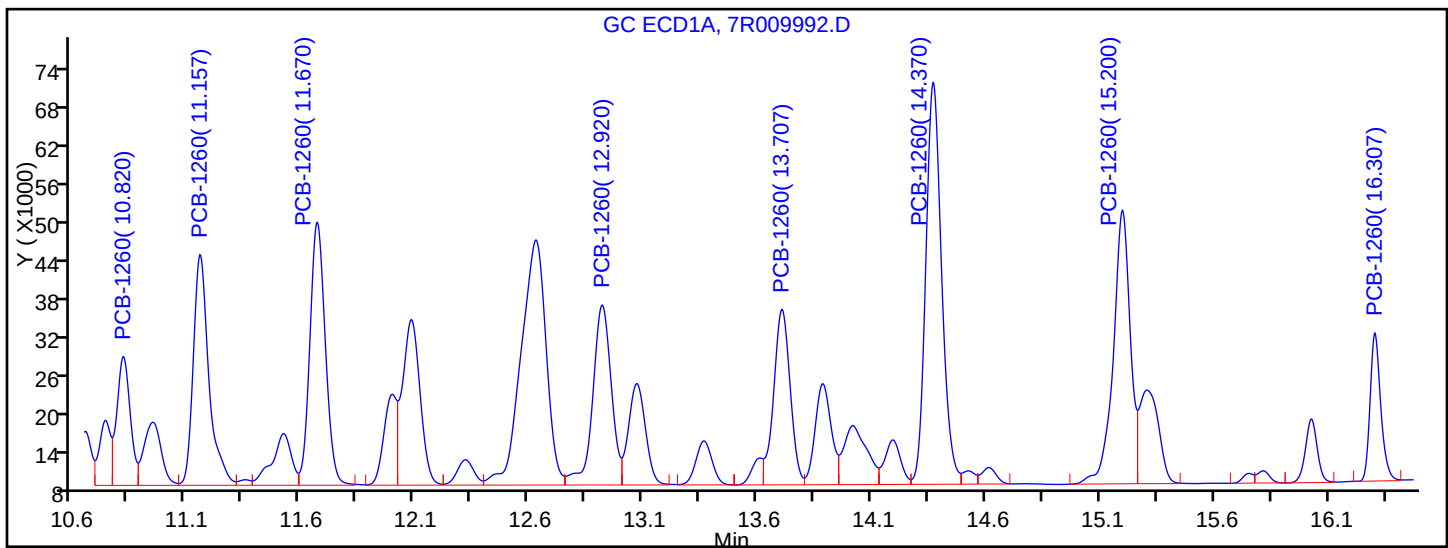
GC ECD1A

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



Processing Integration Results

10.820	Response = 80504
11.157	Response = 167955
11.670	Response = 191697
12.920	Response = 147857
13.707	Response = 138307
14.370	Response = 304165
15.200	Response = 221566
16.307	Response = 75214



Manual Integration Results

10.820	Response = 82371	M
11.157	Response = 171892	M
11.670	Response = 194117	M
12.920	Response = 159999	M
13.707	Response = 138307	
14.370	Response = 304165	

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474852/2 Calibration Date: 11/06/2017 08:36
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R009992.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0274	0.0259		948	1000	-5.2	20.0
PCB-1016 Peak 2	Ave	0.0519	0.0500		963	1000	-3.7	20.0
PCB-1016 Peak 3	Ave	0.0321	0.0317		988	1000	-1.2	20.0
PCB-1016 Peak 4	Ave	0.0980	0.0872		891	1000	-10.9	20.0
PCB-1016 Peak 5	Ave	0.0426	0.0395		926	1000	-7.4	20.0
PCB-1016 Peak 6	Ave	0.0262	0.0264		1010	1000	0.9	20.0
PCB-1016 Peak 7	Ave	0.0414	0.0413		996	1000	-0.4	20.0
PCB-1016 Peak 8	Ave	0.0249	0.0251		1010	1000	0.8	20.0
PCB-1260 Peak 1	Ave	0.0626	0.0644		1030	1000	2.9	20.0
PCB-1260 Peak 2	Ave	0.1017	0.1059		1040	1000	4.1	20.0
PCB-1260 Peak 3	Ave	0.0494	0.0468		948	1000	-5.2	20.0
PCB-1260 Peak 4	Ave	0.0518	0.0520		1000	1000	0.3	20.0
PCB-1260 Peak 5	Ave	0.1175	0.1219		1040	1000	3.7	20.0
PCB-1260 Peak 6	Ave	0.0608	0.0592		973	1000	-2.7	20.0
PCB-1260 Peak 7	Ave	0.0303	0.0322		1060	1000	6.4	20.0
PCB-1260 Peak 8	Ave	0.0298	0.0308		1030	1000	3.3	20.0
Tetrachloro-m-xylene	Ave	1.070	1.066		99.6	100	-0.4	20.0
DCB Decachlorobiphenyl	Ave	1.167	1.134		97.2	100	-2.8	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474852/2 Calibration Date: 11/06/2017 08:36
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-1 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R009992.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.86	4.79	4.93
PCB-1016 Peak 2	5.50	5.43	5.57
PCB-1016 Peak 3	5.84	5.77	5.91
PCB-1016 Peak 4	6.31	6.24	6.38
PCB-1016 Peak 5	6.53	6.46	6.60
PCB-1016 Peak 6	6.64	6.57	6.71
PCB-1016 Peak 7	7.24	7.17	7.31
PCB-1016 Peak 8	7.88	7.81	7.95
PCB-1260 Peak 1	9.26	9.19	9.33
PCB-1260 Peak 2	10.15	10.08	10.22
PCB-1260 Peak 3	10.36	10.29	10.43
PCB-1260 Peak 4	10.80	10.73	10.87
PCB-1260 Peak 5	11.47	11.40	11.54
PCB-1260 Peak 6	12.16	12.09	12.23
PCB-1260 Peak 7	12.41	12.34	12.48
PCB-1260 Peak 8	13.90	13.83	13.97
Tetrachloro-m-xylene	4.14	4.09	4.19
DCB Decachlorobiphenyl	15.01	14.91	15.11

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009992.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 06-Nov-2017 08:36:33 ALS Bottle#: 5 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: kapoors

Date: 06-Nov-2017 07:58:40

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

M

1	3.380	3.380	0.000	61711	20.0	20.0	M
2	2.767	2.767	0.000	29272	20.0	20.0	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	260381	100.0	95.9	
2	4.140	4.140	0.000	156089	100.0	99.6	

RPD = 3.84

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009992.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.210	6.210	0.000	58800	1000.0	938.4	
1	6.983	6.983	0.000	113089	1000.0	902.7	M
1	7.803	7.803	0.000	234596	1000.0	961.7	M
1	8.047	8.047	0.000	107175	1000.0	946.4	M
1	8.223	8.223	0.000	85436	1000.0	1006.1	M
1	8.870	8.870	0.000	78852	1000.0	951.5	M
1	9.080	9.080	0.000	89746	1000.0	1025.1	M
1	9.593	9.593	0.000	83379	1000.0	1032.6	M

Average of Peak Amounts =

970.6

2	4.857	4.857	0.000	37947	1000.0	947.9	
2	5.500	5.500	0.000	73224	1000.0	963.4	
2	5.843	5.843	0.000	46449	1000.0	987.8	M
2	6.307	6.307	0.000	127688	1000.0	890.6	M
2	6.533	6.533	0.000	57801	1000.0	926.4	M
2	6.637	6.637	0.000	38658	1000.0	1009.4	M
2	7.237	7.237	0.000	60423	1000.0	996.5	M
2	7.877	7.877	0.000	36739	1000.0	1008.3	M

Average of Peak Amounts =

966.3

RPD = 0.44

8 PCB-1260

M

1	10.820	10.820	0.000	82371	1000.0	958.5	M
1	11.157	11.157	0.000	171892	1000.0	967.5	M
1	11.670	11.670	0.000	194117	1000.0	927.8	M
1	12.920	12.920	0.000	159999	1000.0	1069.6	M
1	13.707	13.707	0.000	138307	1000.0	956.2	
1	14.370	14.370	0.000	304165	1000.0	1014.8	
1	15.200	15.200	0.000	221566	1000.0	1029.7	
1	16.307	16.307	0.000	75214	1000.0	1031.6	

Average of Peak Amounts =

994.5

2	9.257	9.257	0.000	94258	1000.0	1029.2	
2	10.153	10.153	0.000	154916	1000.0	1040.5	
2	10.360	10.360	0.000	68498	1000.0	947.5	M
2	10.800	10.800	0.000	76129	1000.0	1003.2	M
2	11.473	11.473	0.000	178373	1000.0	1037.5	
2	12.157	12.157	0.000	86621	1000.0	973.0	
2	12.407	12.407	0.000	47186	1000.0	1064.4	
2	13.900	13.900	0.000	45066	1000.0	1032.9	

Average of Peak Amounts =

1016.0

RPD = 2.15

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	197209	100.0	91.9	
2	15.013	15.013	0.000	165983	100.0	97.2	

RPD = 5.52

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L3_00031

Amount Added: 1.00

Units: ml

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009992.D

Injection Date: 06-Nov-2017 08:36:33

Instrument ID: CPESTGC7

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

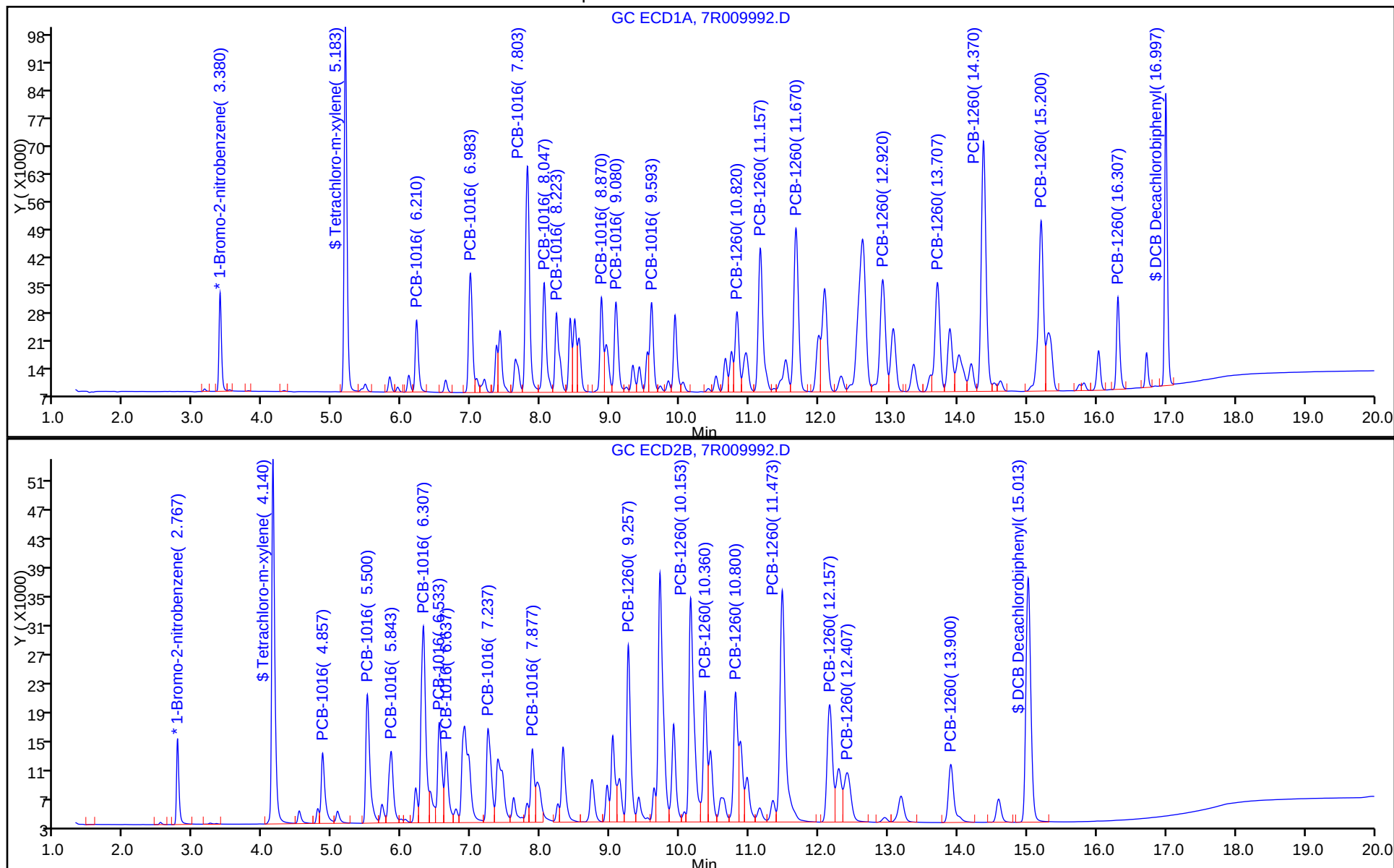
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009992.D

Injection Date: 06-Nov-2017 08:36:33

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

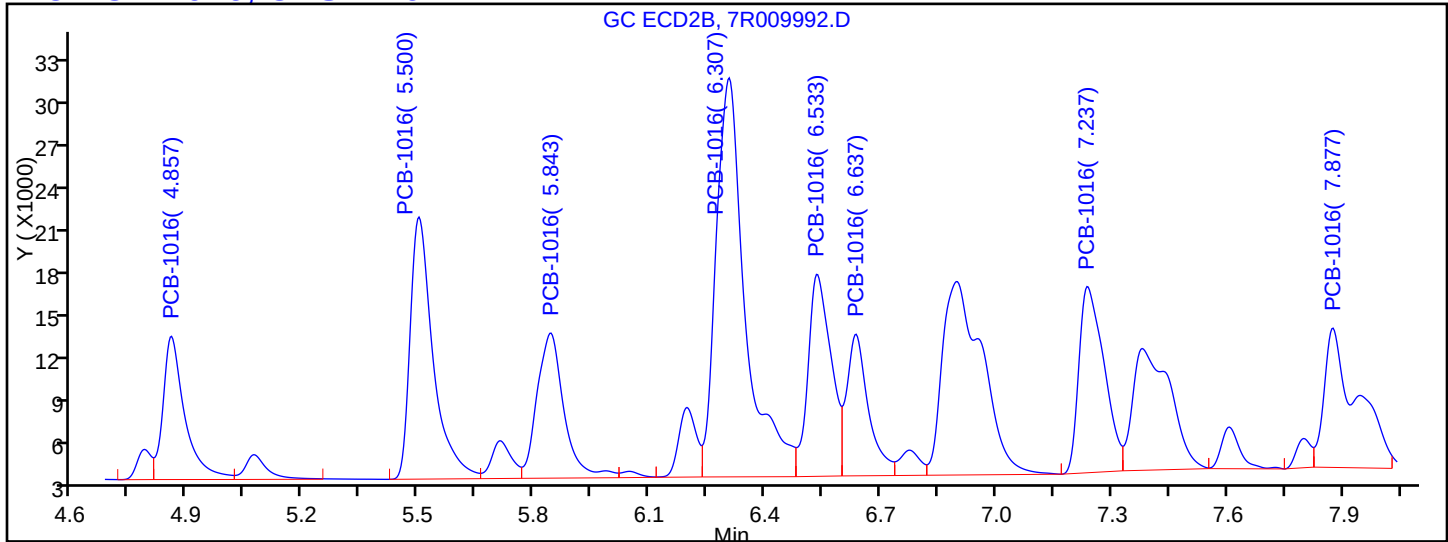
GC 8082A PCB ISTD

Column:

Detector

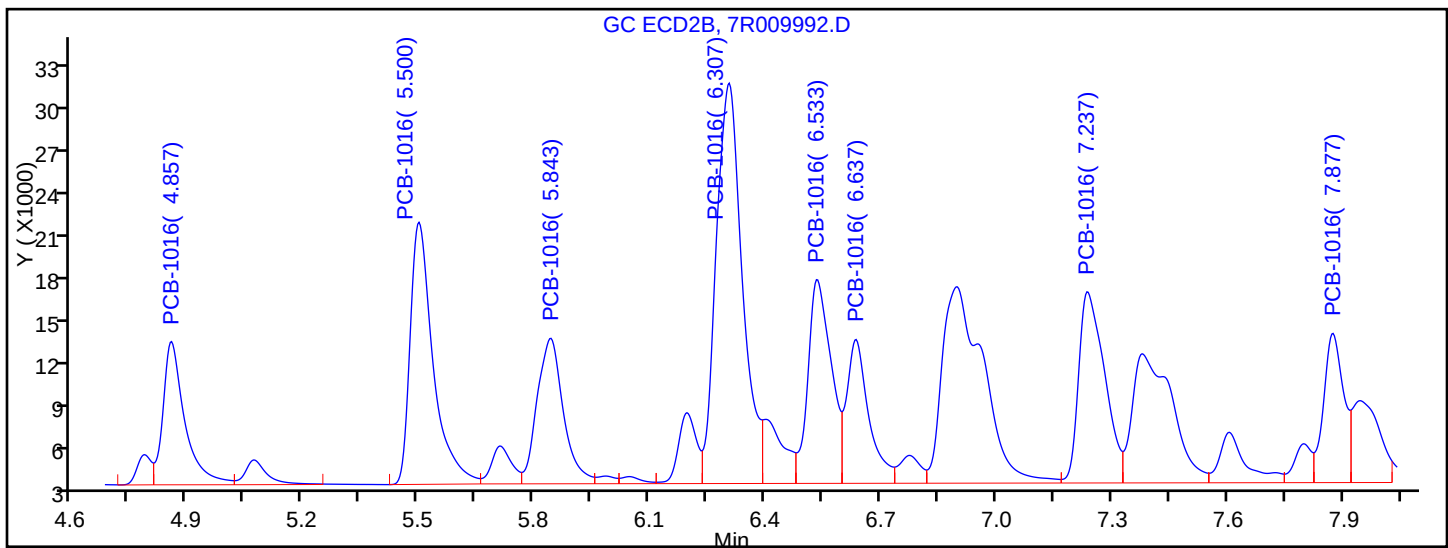
GC ECD2B

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



Processing Integration Results

4.857	Response = 37947
5.500	Response = 73224
5.843	Response = 47647
6.307	Response = 142410
6.533	Response = 56915
6.637	Response = 37379
7.237	Response = 57058
7.877	Response = 55502



Manual Integration Results

4.857	Response = 37947
5.500	Response = 73224
5.843	Response = 46449
6.307	Response = 127688
6.533	Response = 57801
6.637	Response = 38658

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009992.D

Injection Date: 06-Nov-2017 08:36:33

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

5

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

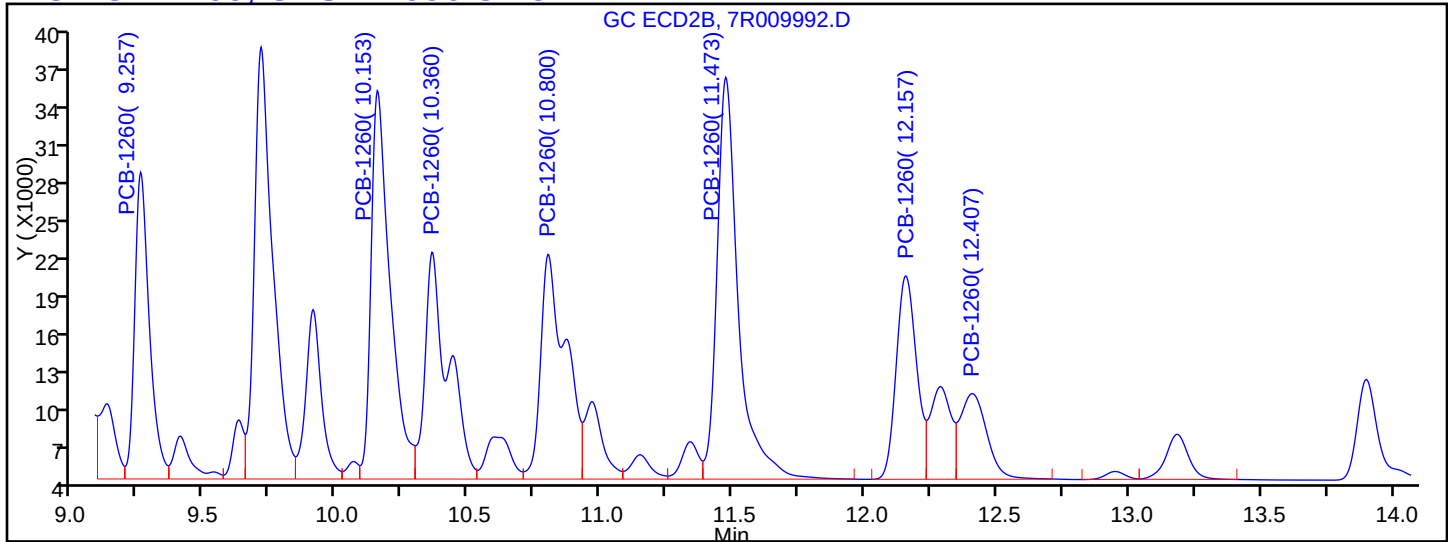
GC 8082A PCB ISTD

Column:

Detector

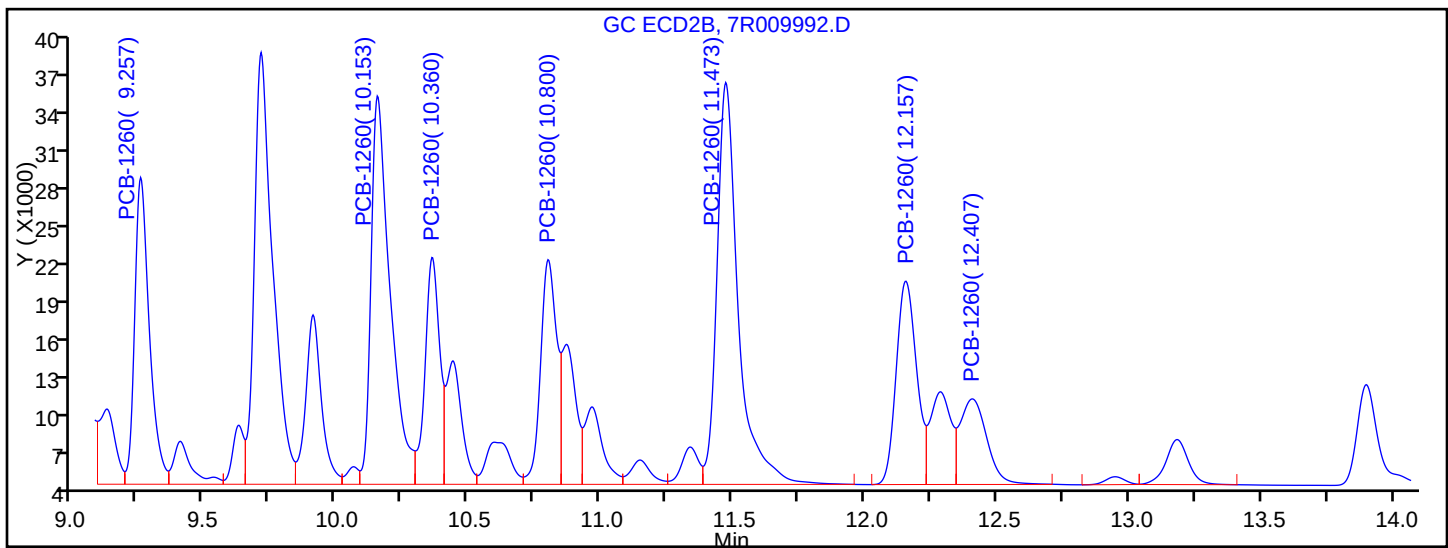
GC ECD2B

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



Processing Integration Results

9.257	Response = 94258
10.153	Response = 154916
10.360	Response = 108909
10.800	Response = 116837
11.473	Response = 178373
12.157	Response = 86621
12.407	Response = 47186
13.900	Response = 45066



Manual Integration Results

9.257	Response = 94258
10.153	Response = 154916
10.360	Response = 68498
10.800	Response = 76129
11.473	Response = 178373
12.157	Response = 86621

M

M

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474852/21 Calibration Date: 11/06/2017 17:41
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-2 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R010011.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0203	0.0183		899	1000	-10.1	20.0
PCB-1016 Peak 2	Ave	0.0406	0.0351		865	1000	-13.5	20.0
PCB-1016 Peak 3	Ave	0.0791	0.0735		930	1000	-7.0	20.0
PCB-1016 Peak 4	Ave	0.0367	0.0336		916	1000	-8.4	20.0
PCB-1016 Peak 5	Ave	0.0275	0.0268		972	1000	-2.8	20.0
PCB-1016 Peak 6	Ave	0.0269	0.0246		914	1000	-8.6	20.0
PCB-1016 Peak 7	Ave	0.0284	0.0282		993	1000	-0.7	20.0
PCB-1016 Peak 8	Ave	0.0262	0.0265		1010	1000	1.3	20.0
PCB-1260 Peak 1	Ave	0.0279	0.0260		935	1000	-6.5	20.0
PCB-1260 Peak 2	Ave	0.0576	0.0540		937	1000	-6.3	20.0
PCB-1260 Peak 3	Ave	0.0678	0.0606		893	1000	-10.7	20.0
PCB-1260 Peak 4	Ave	0.0485	0.0486		1000	1000	0.3	20.0
PCB-1260 Peak 5	Ave	0.0469	0.0437		932	1000	-6.8	20.0
PCB-1260 Peak 6	Ave	0.0971	0.0961		989	1000	-1.1	20.0
PCB-1260 Peak 7	Ave	0.0697	0.0704		1010	1000	0.9	20.0
PCB-1260 Peak 8	Ave	0.0236	0.0239		1010	1000	1.0	20.0
Tetrachloro-m-xylene	Ave	0.8800	0.8269		94.0	100	-6.0	20.0
DCB Decachlorobiphenyl	Ave	0.6951	0.6173		88.8	100	-11.2	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474852/21 Calibration Date: 11/06/2017 17:41
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-2 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R010011.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	6.22	6.15	6.29
PCB-1016 Peak 2	6.99	6.92	7.06
PCB-1016 Peak 3	7.81	7.74	7.88
PCB-1016 Peak 4	8.05	7.98	8.12
PCB-1016 Peak 5	8.23	8.16	8.30
PCB-1016 Peak 6	8.88	8.81	8.95
PCB-1016 Peak 7	9.09	9.02	9.16
PCB-1016 Peak 8	9.60	9.53	9.67
PCB-1260 Peak 1	10.83	10.76	10.90
PCB-1260 Peak 2	11.17	11.10	11.24
PCB-1260 Peak 3	11.68	11.61	11.75
PCB-1260 Peak 4	12.93	12.86	13.00
PCB-1260 Peak 5	13.72	13.65	13.79
PCB-1260 Peak 6	14.38	14.31	14.45
PCB-1260 Peak 7	15.21	15.14	15.28
PCB-1260 Peak 8	16.31	16.24	16.38
Tetrachloro-m-xylene	5.19	5.14	5.24
DCB Decachlorobiphenyl	17.00	16.90	17.10

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010011.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 06-Nov-2017 17:41:35 ALS Bottle#: 24 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-021
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji

Date: 06-Nov-2017 17:08:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene M
 1 3.390 3.390 0.000 67679 20.0 20.0 M
 2 2.760 2.760 0.000 31313 20.0 20.0
 RPD = 0.00
 \$ 2 Tetrachloro-m-xylene M
 1 5.193 5.193 0.000 279801 100.0 94.0
 2 4.133 4.133 0.000 165731 100.0 98.9 M
 RPD = 5.13

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010011.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.220	6.220	0.000	61806	1000.0	899.4	
1	6.993	6.993	0.000	118787	1000.0	864.6	M
1	7.813	7.813	0.000	248776	1000.0	929.9	M
1	8.053	8.053	0.000	113800	1000.0	916.3	M
1	8.230	8.230	0.000	90525	1000.0	972.1	M
1	8.880	8.880	0.000	83062	1000.0	913.9	M
1	9.087	9.087	0.000	95336	1000.0	993.0	M
1	9.600	9.600	0.000	89715	1000.0	1013.0	M

Average of Peak Amounts =

937.8

2	4.850	4.850	0.000	40563	1000.0	947.2	M
2	5.493	5.493	0.000	77166	1000.0	949.1	M
2	5.837	5.837	0.000	49015	1000.0	974.4	M
2	6.303	6.303	0.000	132167	1000.0	861.8	M
2	6.530	6.530	0.000	60482	1000.0	906.2	M
2	6.630	6.630	0.000	41661	1000.0	1016.9	M
2	7.233	7.233	0.000	62258	1000.0	959.8	M
2	7.873	7.873	0.000	38263	1000.0	981.6	M

Average of Peak Amounts =

949.6

RPD = 1.26

8 PCB-1260

M

1	10.830	10.830	0.000	88097	1000.0	934.7	M
1	11.167	11.167	0.000	182624	1000.0	937.2	M
1	11.680	11.680	0.000	204947	1000.0	893.2	M
1	12.930	12.930	0.000	164472	1000.0	1002.6	M
1	13.717	13.717	0.000	147844	1000.0	932.0	
1	14.377	14.377	0.000	325242	1000.0	989.5	
1	15.207	15.207	0.000	238071	1000.0	1008.8	
1	16.310	16.310	0.000	80722	1000.0	1009.5	

Average of Peak Amounts =

963.4

2	9.257	9.257	0.000	96575	1000.0	985.8	
2	10.157	10.157	0.000	159256	1000.0	1000.0	
2	10.363	10.363	0.000	69758	1000.0	902.1	M
2	10.803	10.803	0.000	77076	1000.0	949.5	M
2	11.473	11.473	0.000	184265	1000.0	1001.9	
2	12.157	12.157	0.000	86814	1000.0	911.6	
2	12.407	12.407	0.000	50884	1000.0	1073.0	
2	13.900	13.900	0.000	47330	1000.0	1014.1	

Average of Peak Amounts =

979.7

RPD = 1.68

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	208882	100.0	88.8	
2	15.013	15.013	0.000	177008	100.0	96.9	

RPD = 8.69

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L3_00031

Amount Added: 1.00

Units: mL

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Injection Date: 06-Nov-2017 17:41:35

Instrument ID: CPESTGC7

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 21

Client ID:

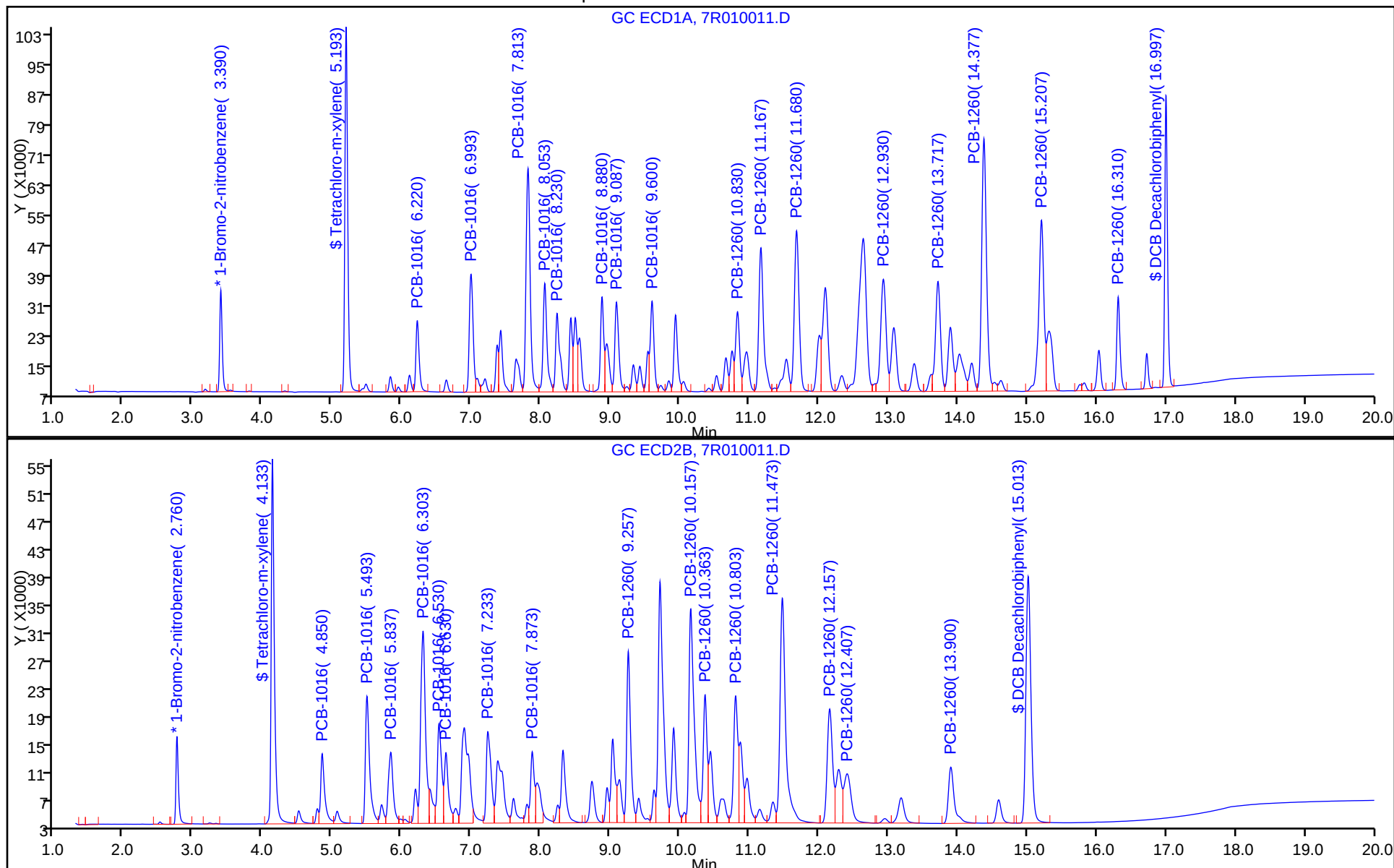
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Injection Date: 06-Nov-2017 17:41:35

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

24

Worklist Smp#:

21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

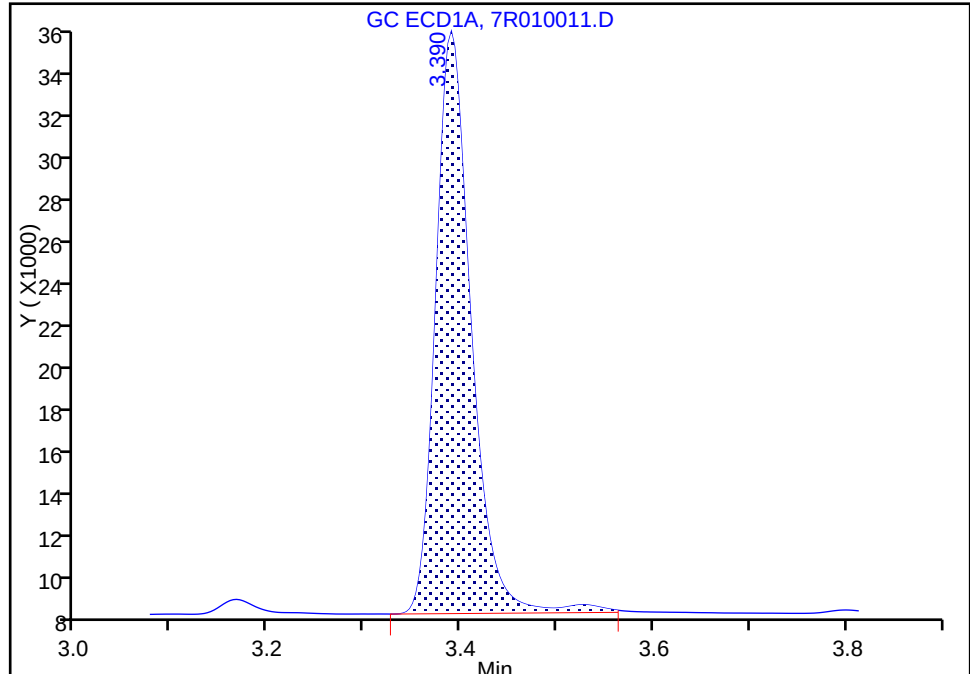
Detector GC ECD1A

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

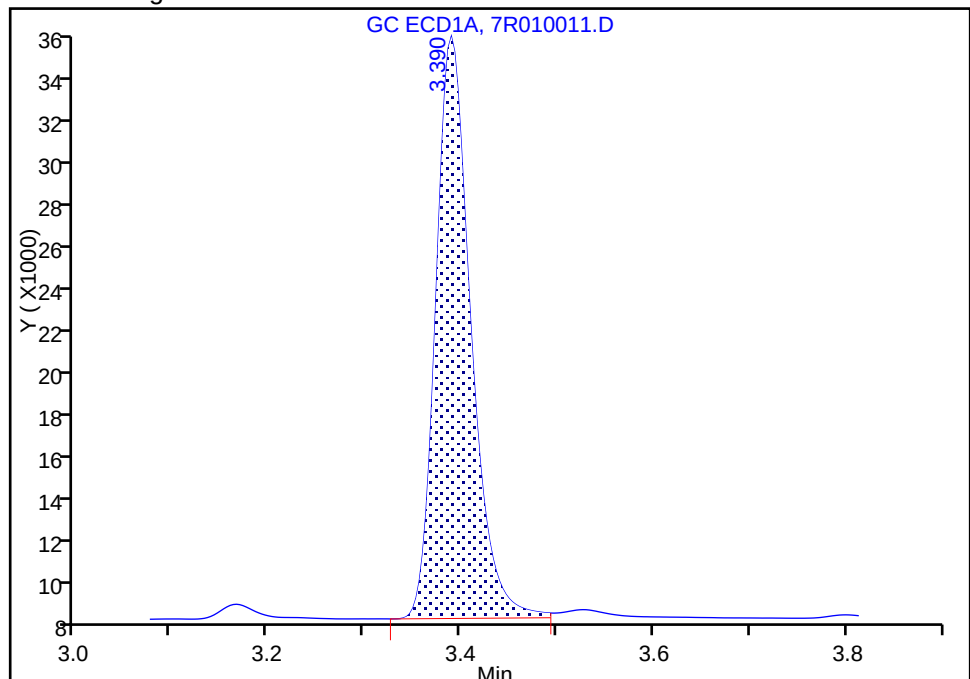
RT: 3.39
Area: 68757
Amount: 20.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.39
Area: 67679
Amount: 20.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 06-Nov-2017 17:07:34

Audit Action: Split an Integrated Peak

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Injection Date: 06-Nov-2017 17:41:35

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

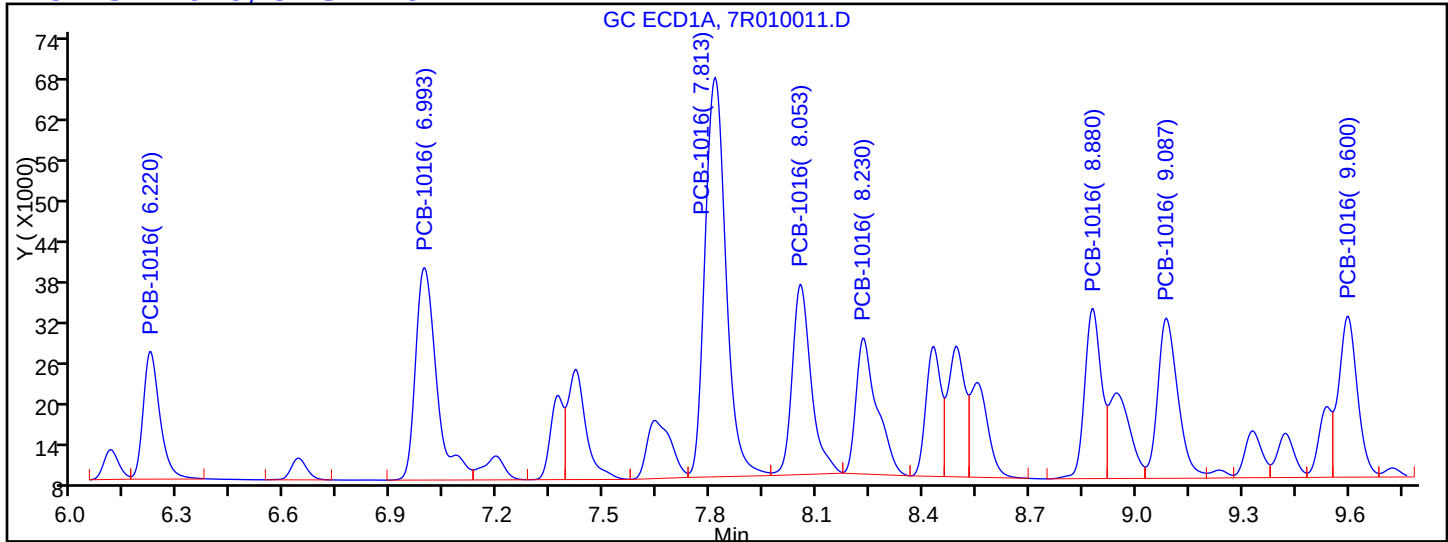
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

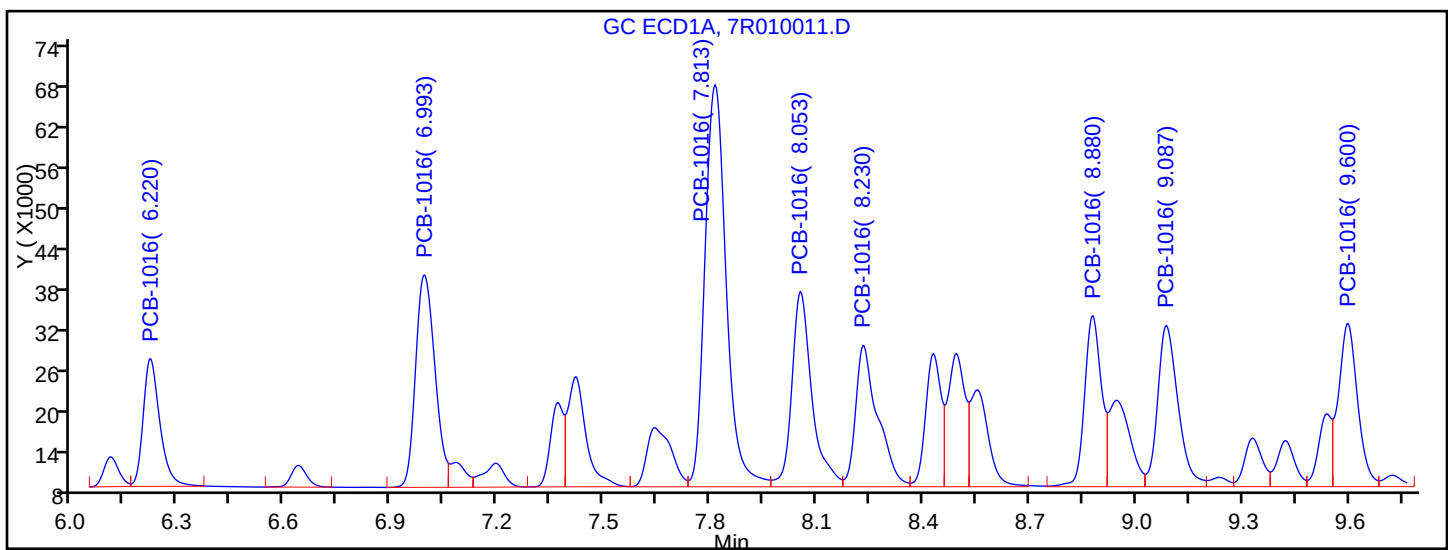
Detector GC ECD1A

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



Processing Integration Results

6.220	Response = 61806
6.993	Response = 130615
7.813	Response = 242483
8.053	Response = 104546
8.230	Response = 82140
8.880	Response = 81889
9.087	Response = 93578
9.600	Response = 87134



Manual Integration Results

6.220	Response = 61806	
6.993	Response = 118787	M
7.813	Response = 248776	M
8.053	Response = 113800	M
8.230	Response = 90525	M
8.880	Response = 83062	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Injection Date: 06-Nov-2017 17:41:35

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

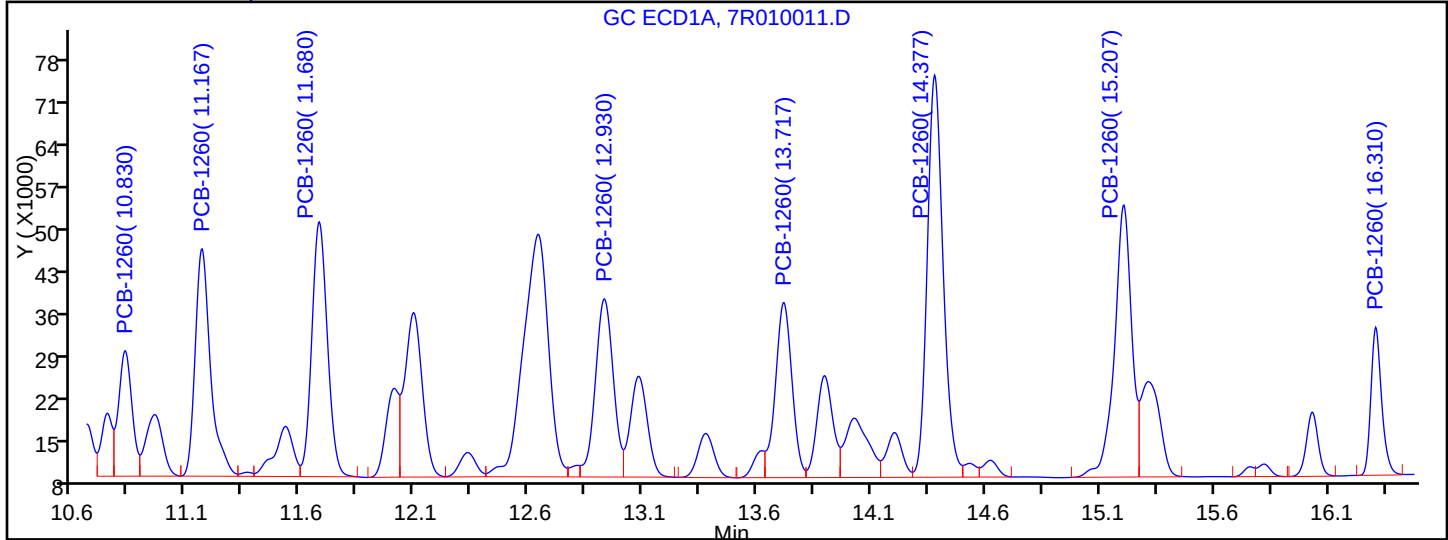
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

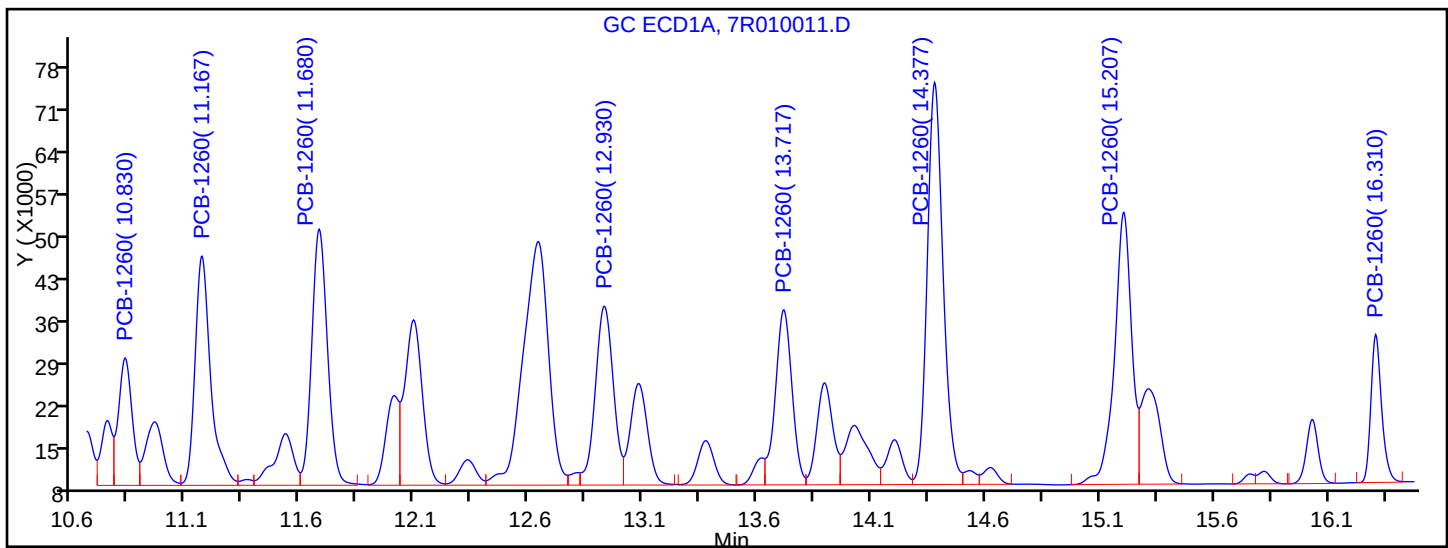
Detector GC ECD1A

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



Processing Integration Results

10.830	Response = 85873
11.167	Response = 177891
11.680	Response = 201624
12.930	Response = 162836
13.717	Response = 147844
14.377	Response = 325242
15.207	Response = 238071
16.310	Response = 80722



Manual Integration Results

10.830	Response = 88097	M
11.167	Response = 182624	M
11.680	Response = 204947	M
12.930	Response = 164472	M
13.717	Response = 147844	
14.377	Response = 325242	

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474852/21 Calibration Date: 11/06/2017 17:41
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-1 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R010011.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0274	0.0259		947	1000	-5.3	20.0
PCB-1016 Peak 2	Ave	0.0519	0.0493		949	1000	-5.1	20.0
PCB-1016 Peak 3	Ave	0.0321	0.0313		974	1000	-2.6	20.0
PCB-1016 Peak 4	Ave	0.0980	0.0844		862	1000	-13.8	20.0
PCB-1016 Peak 5	Ave	0.0426	0.0386		906	1000	-9.4	20.0
PCB-1016 Peak 6	Ave	0.0262	0.0266		1020	1000	1.7	20.0
PCB-1016 Peak 7	Ave	0.0414	0.0398		960	1000	-4.0	20.0
PCB-1016 Peak 8	Ave	0.0249	0.0244		982	1000	-1.8	20.0
PCB-1260 Peak 1	Ave	0.0626	0.0617		986	1000	-1.4	20.0
PCB-1260 Peak 2	Ave	0.1017	0.1017		1000	1000	0.0	20.0
PCB-1260 Peak 3	Ave	0.0494	0.0446		902	1000	-9.8	20.0
PCB-1260 Peak 4	Ave	0.0518	0.0492		949	1000	-5.1	20.0
PCB-1260 Peak 5	Ave	0.1175	0.1177		1000	1000	0.2	20.0
PCB-1260 Peak 6	Ave	0.0608	0.0555		912	1000	-8.8	20.0
PCB-1260 Peak 7	Ave	0.0303	0.0325		1070	1000	7.3	20.0
PCB-1260 Peak 8	Ave	0.0298	0.0302		1010	1000	1.4	20.0
Tetrachloro-m-xylene	Ave	1.070	1.059		98.9	100	-1.1	20.0
DCB Decachlorobiphenyl	Ave	1.167	1.131		96.9	100	-3.1	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-474852/21 Calibration Date: 11/06/2017 17:41
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-1 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R010011.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.85	4.78	4.92
PCB-1016 Peak 2	5.49	5.42	5.56
PCB-1016 Peak 3	5.84	5.77	5.91
PCB-1016 Peak 4	6.30	6.23	6.37
PCB-1016 Peak 5	6.53	6.46	6.60
PCB-1016 Peak 6	6.63	6.56	6.70
PCB-1016 Peak 7	7.23	7.16	7.30
PCB-1016 Peak 8	7.87	7.80	7.94
PCB-1260 Peak 1	9.26	9.19	9.33
PCB-1260 Peak 2	10.16	10.09	10.23
PCB-1260 Peak 3	10.36	10.29	10.43
PCB-1260 Peak 4	10.80	10.73	10.87
PCB-1260 Peak 5	11.47	11.40	11.54
PCB-1260 Peak 6	12.16	12.09	12.23
PCB-1260 Peak 7	12.41	12.34	12.48
PCB-1260 Peak 8	13.90	13.83	13.97
Tetrachloro-m-xylene	4.13	4.08	4.18
DCB Decachlorobiphenyl	15.01	14.91	15.11

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R010011.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 06-Nov-2017 17:41:35 ALS Bottle#: 24 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-0062962-021
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:38:05 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: patelji

Date: 06-Nov-2017 17:08:13

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene M
 1 3.390 3.390 0.000 67679 20.0 20.0 M
 2 2.760 2.760 0.000 31313 20.0 20.0
 RPD = 0.00
 \$ 2 Tetrachloro-m-xylene M
 1 5.193 5.193 0.000 279801 100.0 94.0
 2 4.133 4.133 0.000 165731 100.0 98.9 M
 RPD = 5.13

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.220	6.220	0.000	61806	1000.0	899.4	
1	6.993	6.993	0.000	118787	1000.0	864.6	M
1	7.813	7.813	0.000	248776	1000.0	929.9	M
1	8.053	8.053	0.000	113800	1000.0	916.3	M
1	8.230	8.230	0.000	90525	1000.0	972.1	M
1	8.880	8.880	0.000	83062	1000.0	913.9	M
1	9.087	9.087	0.000	95336	1000.0	993.0	M
1	9.600	9.600	0.000	89715	1000.0	1013.0	M

Average of Peak Amounts =

937.8

2	4.850	4.850	0.000	40563	1000.0	947.2	M
2	5.493	5.493	0.000	77166	1000.0	949.1	M
2	5.837	5.837	0.000	49015	1000.0	974.4	M
2	6.303	6.303	0.000	132167	1000.0	861.8	M
2	6.530	6.530	0.000	60482	1000.0	906.2	M
2	6.630	6.630	0.000	41661	1000.0	1016.9	M
2	7.233	7.233	0.000	62258	1000.0	959.8	M
2	7.873	7.873	0.000	38263	1000.0	981.6	M

Average of Peak Amounts =

949.6

RPD = 1.26

8 PCB-1260

M

1	10.830	10.830	0.000	88097	1000.0	934.7	M
1	11.167	11.167	0.000	182624	1000.0	937.2	M
1	11.680	11.680	0.000	204947	1000.0	893.2	M
1	12.930	12.930	0.000	164472	1000.0	1002.6	M
1	13.717	13.717	0.000	147844	1000.0	932.0	
1	14.377	14.377	0.000	325242	1000.0	989.5	
1	15.207	15.207	0.000	238071	1000.0	1008.8	
1	16.310	16.310	0.000	80722	1000.0	1009.5	

Average of Peak Amounts =

963.4

2	9.257	9.257	0.000	96575	1000.0	985.8	
2	10.157	10.157	0.000	159256	1000.0	1000.0	
2	10.363	10.363	0.000	69758	1000.0	902.1	M
2	10.803	10.803	0.000	77076	1000.0	949.5	M
2	11.473	11.473	0.000	184265	1000.0	1001.9	
2	12.157	12.157	0.000	86814	1000.0	911.6	
2	12.407	12.407	0.000	50884	1000.0	1073.0	
2	13.900	13.900	0.000	47330	1000.0	1014.1	

Average of Peak Amounts =

979.7

RPD = 1.68

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	208882	100.0	88.8	
2	15.013	15.013	0.000	177008	100.0	96.9	

RPD = 8.69

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L3_00031

Amount Added: 1.00

Units: mL

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Injection Date: 06-Nov-2017 17:41:35

Instrument ID: CPESTGC7

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 21

Client ID:

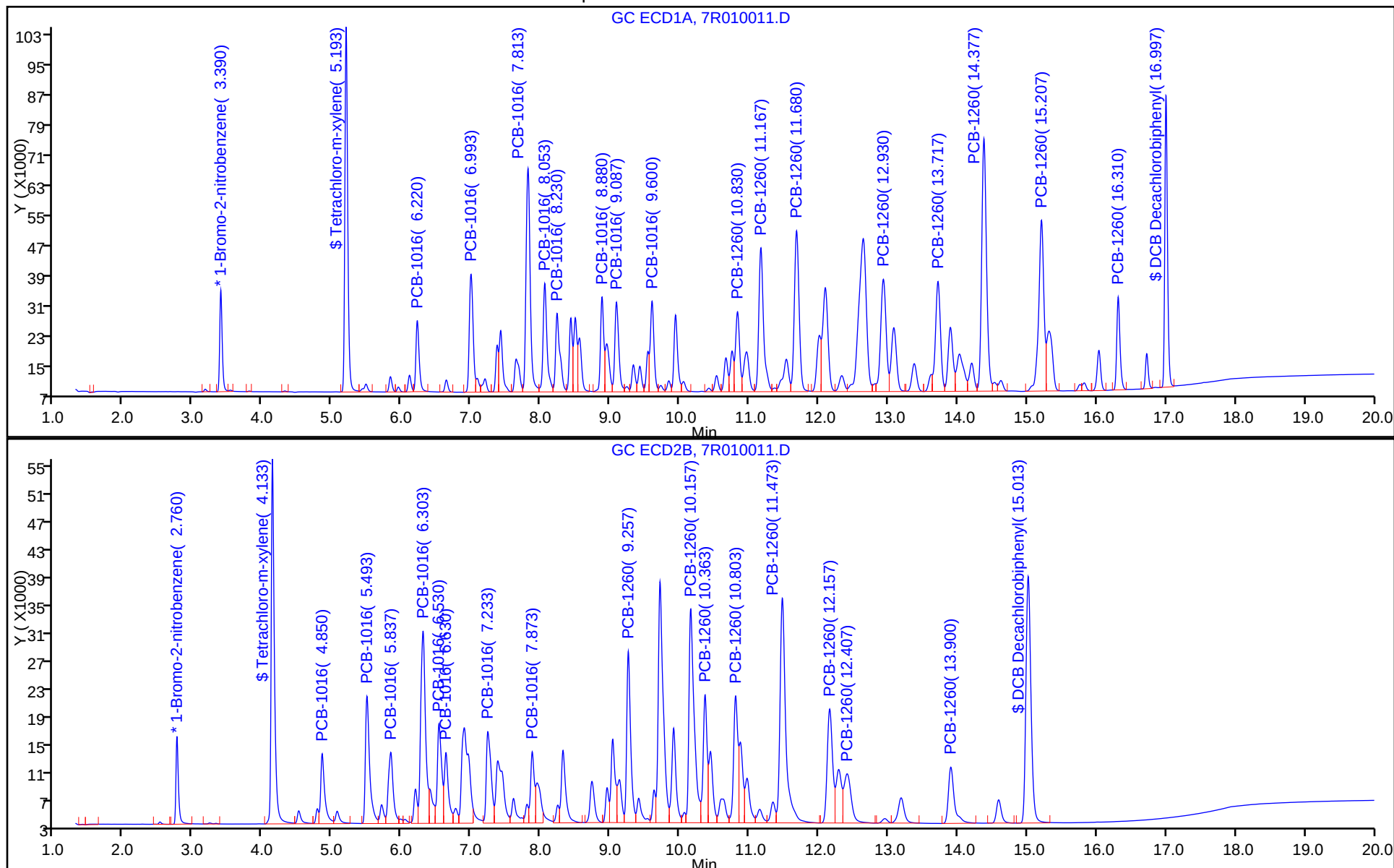
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 24

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Injection Date: 06-Nov-2017 17:41:35

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

24

Worklist Smp#:

21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

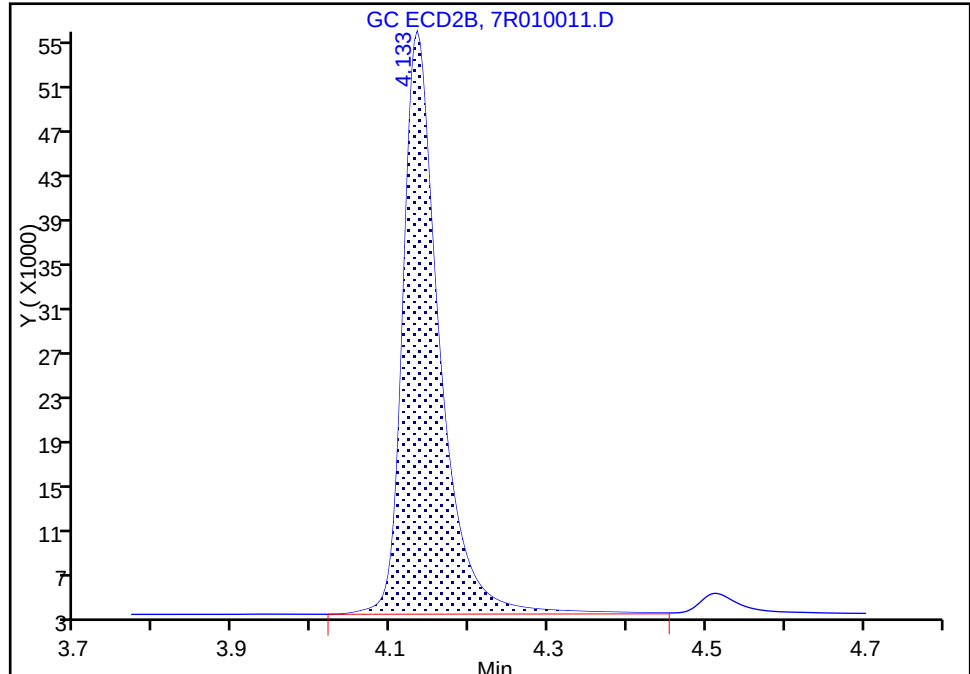
Detector GC ECD2B

\$ 2 Tetrachloro-m-xylene, CAS: 877-09-8

Signal: 2

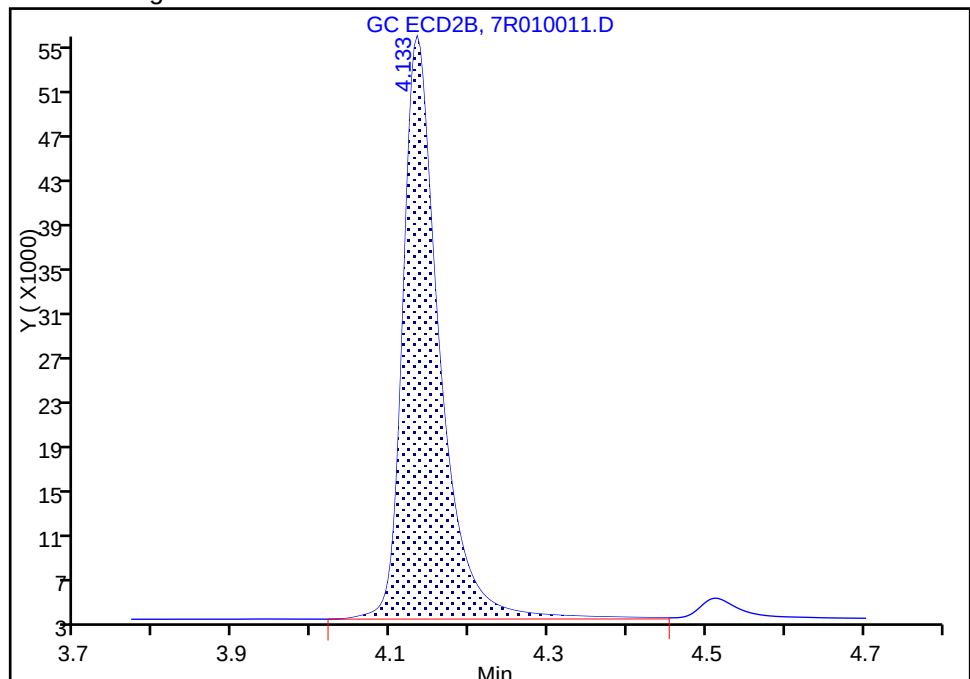
RT: 4.13
Area: 165497
Amount: 98.768915
Amount Units: ug/l

Processing Integration Results



RT: 4.13
Area: 165731
Amount: 98.908567
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 06-Nov-2017 17:07:48

Audit Action: Assigned New Baseline

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Injection Date: 06-Nov-2017 17:41:35

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

24

Worklist Smp#:

21

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

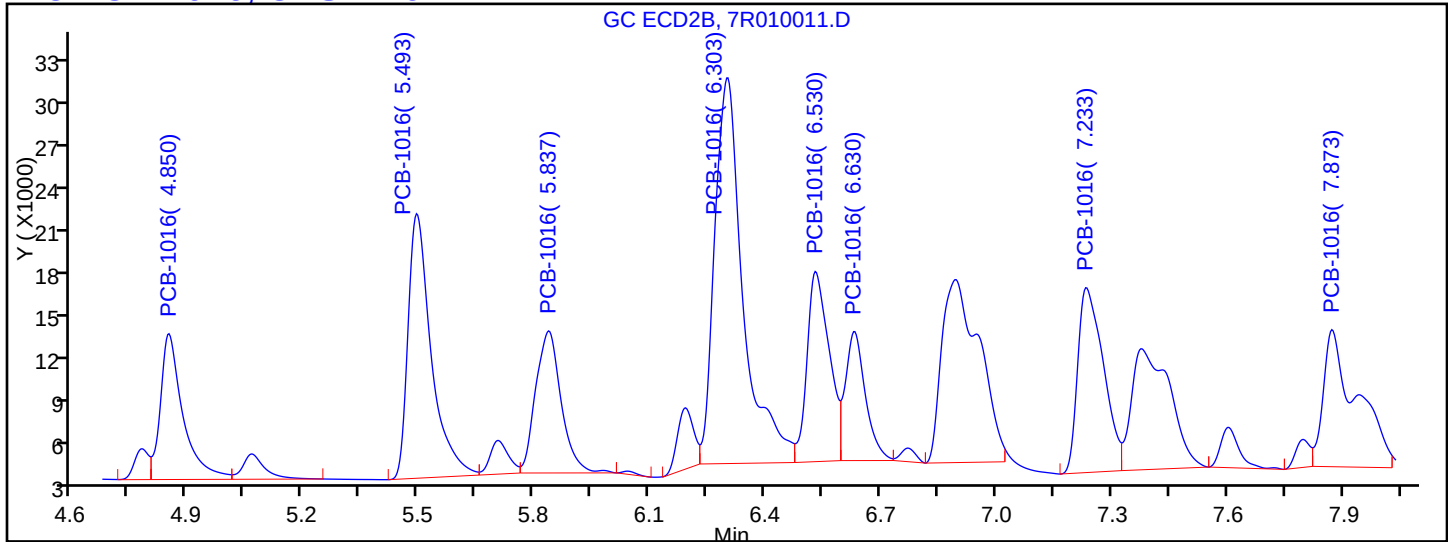
GC 8082A PCB ISTD

Column:

Detector

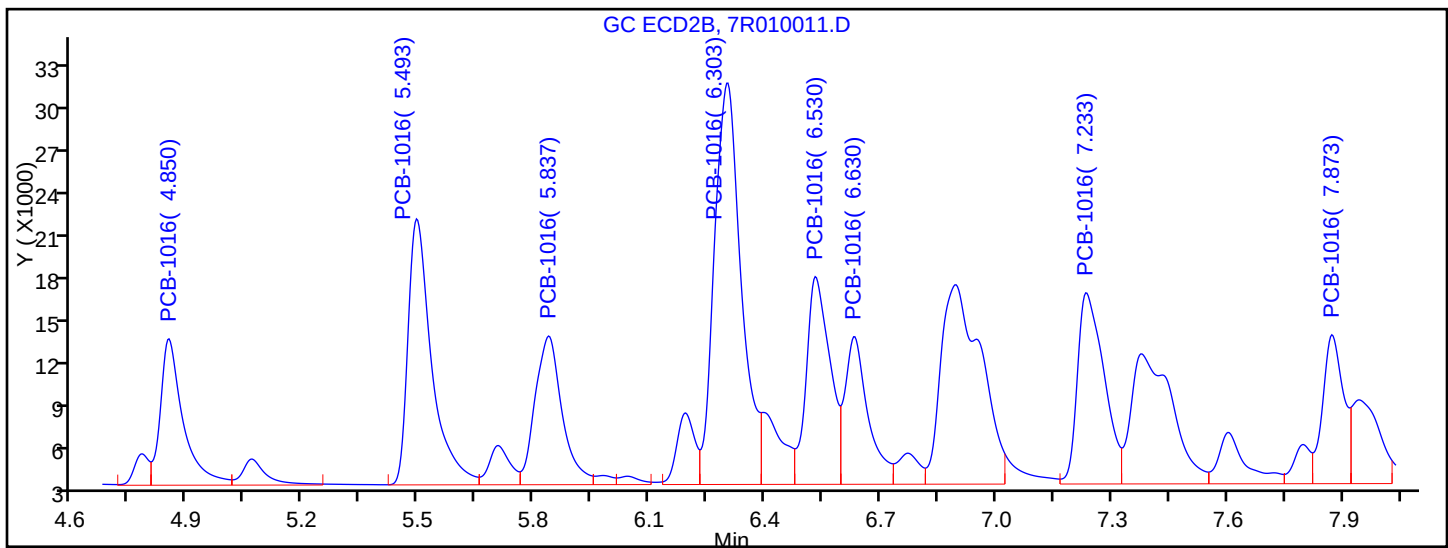
GC ECD2B

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



Processing Integration Results

4.850	Response = 40002
5.493	Response = 74873
5.837	Response = 44281
6.303	Response = 134417
6.530	Response = 51875
6.630	Response = 31341
7.233	Response = 57996
7.873	Response = 55878



Manual Integration Results

4.850	Response = 40563	M
5.493	Response = 77166	M
5.837	Response = 49015	M
6.303	Response = 132167	M
6.530	Response = 60482	M
6.630	Response = 41661	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R010011.D

Injection Date: 06-Nov-2017 17:41:35

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 21

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

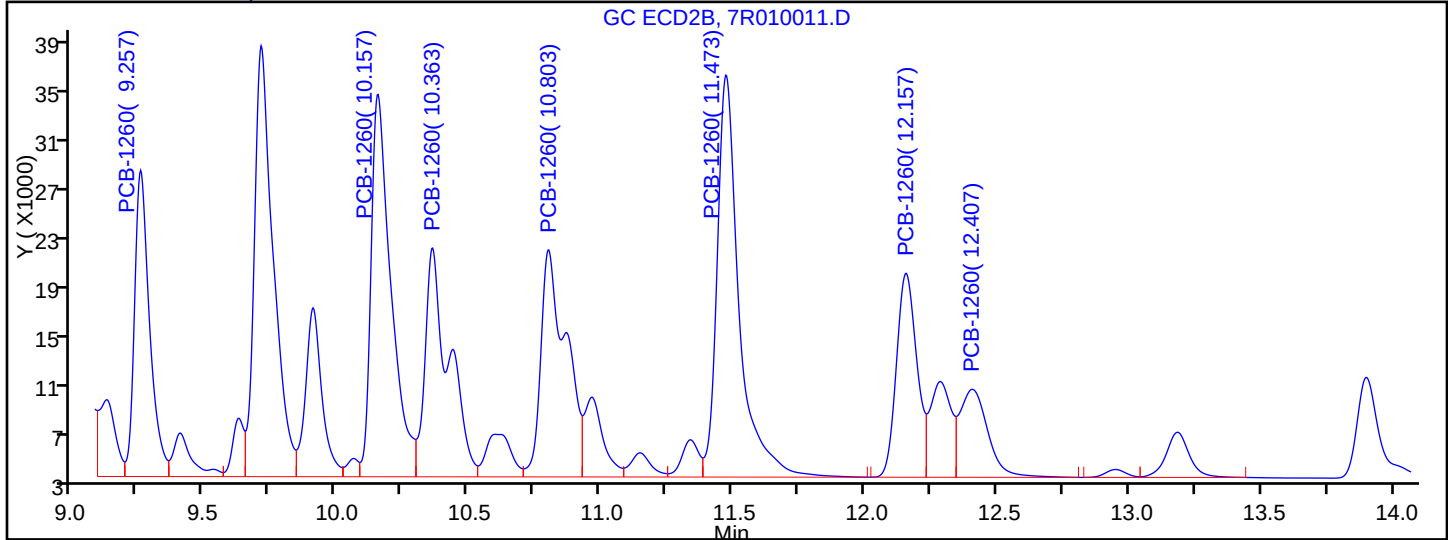
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

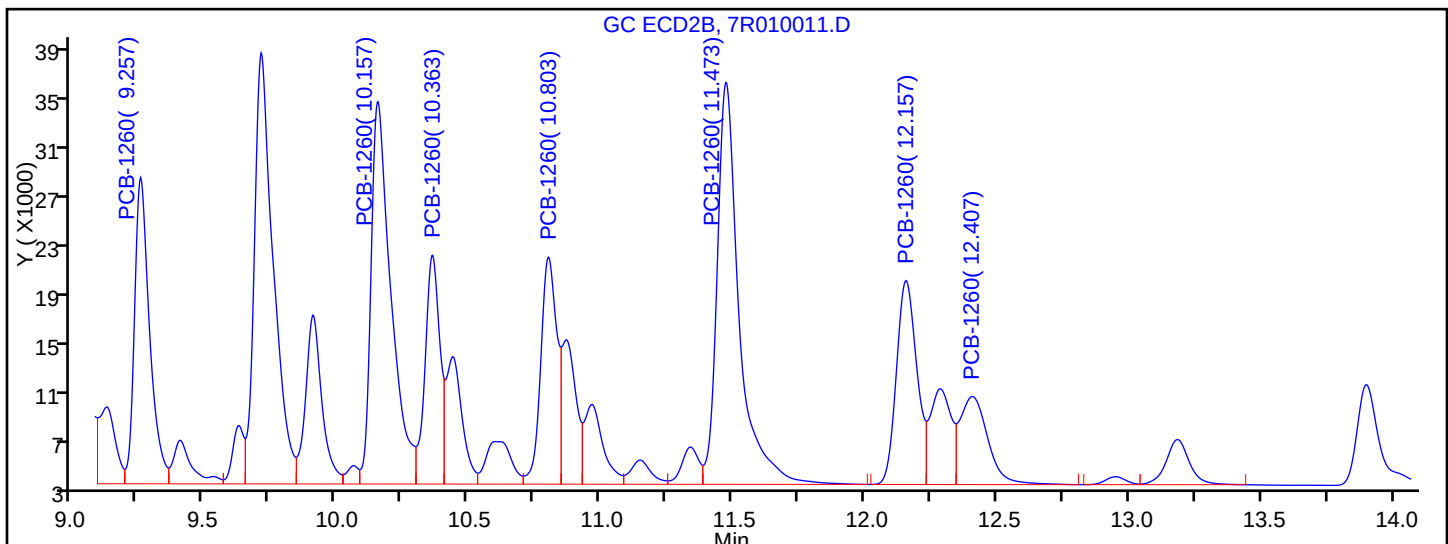
Detector GC ECD2B

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



Processing Integration Results

9.257	Response = 96575
10.157	Response = 159256
10.363	Response = 112882
10.803	Response = 119444
11.473	Response = 184265
12.157	Response = 86814
12.407	Response = 50884
13.900	Response = 47330



Manual Integration Results

9.257	Response = 96575
10.157	Response = 159256
10.363	Response = 69758
10.803	Response = 77076
11.473	Response = 184265
12.157	Response = 86814

M

M

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-475107/2 Calibration Date: 11/07/2017 08:44
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-2 ID: 0.53(mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R010036.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0203	0.0187		923	1000	-7.7	20.0
PCB-1016 Peak 2	Ave	0.0406	0.0366		902	1000	-9.8	20.0
PCB-1016 Peak 3	Ave	0.0791	0.0761		963	1000	-3.7	20.0
PCB-1016 Peak 4	Ave	0.0367	0.0349		951	1000	-4.9	20.0
PCB-1016 Peak 5	Ave	0.0275	0.0280		1020	1000	1.6	20.0
PCB-1016 Peak 6	Ave	0.0269	0.0256		951	1000	-4.9	20.0
PCB-1016 Peak 7	Ave	0.0284	0.0293		1030	1000	3.2	20.0
PCB-1016 Peak 8	Ave	0.0262	0.0278		1060	1000	6.3	20.0
PCB-1260 Peak 1	Ave	0.0279	0.0273		981	1000	-1.9	20.0
PCB-1260 Peak 2	Ave	0.0576	0.0558		969	1000	-3.1	20.0
PCB-1260 Peak 3	Ave	0.0678	0.0632		931	1000	-6.9	20.0
PCB-1260 Peak 4	Ave	0.0485	0.0504		1040	1000	3.9	20.0
PCB-1260 Peak 5	Ave	0.0469	0.0455		970	1000	-3.0	20.0
PCB-1260 Peak 6	Ave	0.0971	0.1001		1030	1000	3.0	20.0
PCB-1260 Peak 7	Ave	0.0697	0.0734		1050	1000	5.2	20.0
PCB-1260 Peak 8	Ave	0.0236	0.0251		1060	1000	6.3	20.0
Tetrachloro-m-xylene	Ave	0.8800	0.8454		96.1	100	-3.9	20.0
DCB Decachlorobiphenyl	Ave	0.6951	0.6557		94.3	100	-5.7	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-475107/2 Calibration Date: 11/07/2017 08:44
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-2 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R010036.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	6.21	6.14	6.28
PCB-1016 Peak 2	6.98	6.91	7.05
PCB-1016 Peak 3	7.80	7.73	7.87
PCB-1016 Peak 4	8.04	7.97	8.11
PCB-1016 Peak 5	8.22	8.15	8.29
PCB-1016 Peak 6	8.87	8.80	8.94
PCB-1016 Peak 7	9.08	9.01	9.15
PCB-1016 Peak 8	9.59	9.52	9.66
PCB-1260 Peak 1	10.82	10.75	10.89
PCB-1260 Peak 2	11.16	11.09	11.23
PCB-1260 Peak 3	11.67	11.60	11.74
PCB-1260 Peak 4	12.92	12.85	12.99
PCB-1260 Peak 5	13.71	13.64	13.78
PCB-1260 Peak 6	14.37	14.30	14.44
PCB-1260 Peak 7	15.20	15.13	15.27
PCB-1260 Peak 8	16.31	16.24	16.38
Tetrachloro-m-xylene	5.18	5.13	5.23
DCB Decachlorobiphenyl	17.00	16.90	17.10

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\7R010036.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-Nov-2017 08:44:15 ALS Bottle#: 49 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:34:45 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: kapoors

Date: 07-Nov-2017 08:48:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

M

1	3.380	3.380	0.000	64537	20.0	20.0	M
2	2.767	2.767	0.000	30828	20.0	20.0	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	272795	100.0	96.1	
2	4.140	4.140	0.000	166058	100.0	100.7	

RPD = 4.67

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\7R010036.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.207	6.207	0.000	60477	1000.0	922.9	
1	6.983	6.983	0.000	118199	1000.0	902.2	M
1	7.803	7.803	0.000	245609	1000.0	962.8	M
1	8.043	8.043	0.000	112635	1000.0	951.0	M
1	8.223	8.223	0.000	90201	1000.0	1015.7	M
1	8.870	8.870	0.000	82433	1000.0	951.1	M
1	9.080	9.080	0.000	94515	1000.0	1032.3	M
1	9.590	9.590	0.000	89765	1000.0	1063.0	M

Average of Peak Amounts =

975.1

2	4.853	4.853	0.000	39888	1000.0	946.1	
2	5.500	5.500	0.000	77377	1000.0	966.6	M
2	5.840	5.840	0.000	49372	1000.0	997.0	M
2	6.307	6.307	0.000	132494	1000.0	877.5	M
2	6.533	6.533	0.000	61338	1000.0	933.5	M
2	6.633	6.633	0.000	42177	1000.0	1045.7	M
2	7.237	7.237	0.000	63552	1000.0	995.2	M
2	7.877	7.877	0.000	38411	1000.0	1000.9	M

Average of Peak Amounts =

970.3

RPD = 0.50

8 PCB-1260

M

1	10.820	10.820	0.000	88195	1000.0	981.3	M
1	11.157	11.157	0.000	180124	1000.0	969.4	M
1	11.670	11.670	0.000	203791	1000.0	931.4	M
1	12.920	12.920	0.000	162562	1000.0	1039.2	M
1	13.707	13.707	0.000	146726	1000.0	970.0	
1	14.370	14.370	0.000	322876	1000.0	1030.1	
1	15.200	15.200	0.000	236714	1000.0	1051.9	
1	16.307	16.307	0.000	81079	1000.0	1063.3	

Average of Peak Amounts =

1004.6

2	9.257	9.257	0.000	100155	1000.0	1038.4	
2	10.153	10.153	0.000	164966	1000.0	1052.1	
2	10.360	10.360	0.000	75546	1000.0	992.3	M
2	10.800	10.800	0.000	77474	1000.0	969.4	M
2	11.473	11.473	0.000	190510	1000.0	1052.1	
2	12.157	12.157	0.000	89531	1000.0	954.9	
2	12.407	12.407	0.000	52491	1000.0	1124.3	
2	13.900	13.900	0.000	48608	1000.0	1057.9	

Average of Peak Amounts =

1030.2

RPD = 2.52

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	211573	100.0	94.3	
2	15.013	15.013	0.000	180815	100.0	100.5	

RPD = 6.35

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L3_00031

Amount Added: 1.00

Units: ml

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171107-63022.b\\7R010036.D

Injection Date: 07-Nov-2017 08:44:15

Instrument ID: CPESTGC7

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

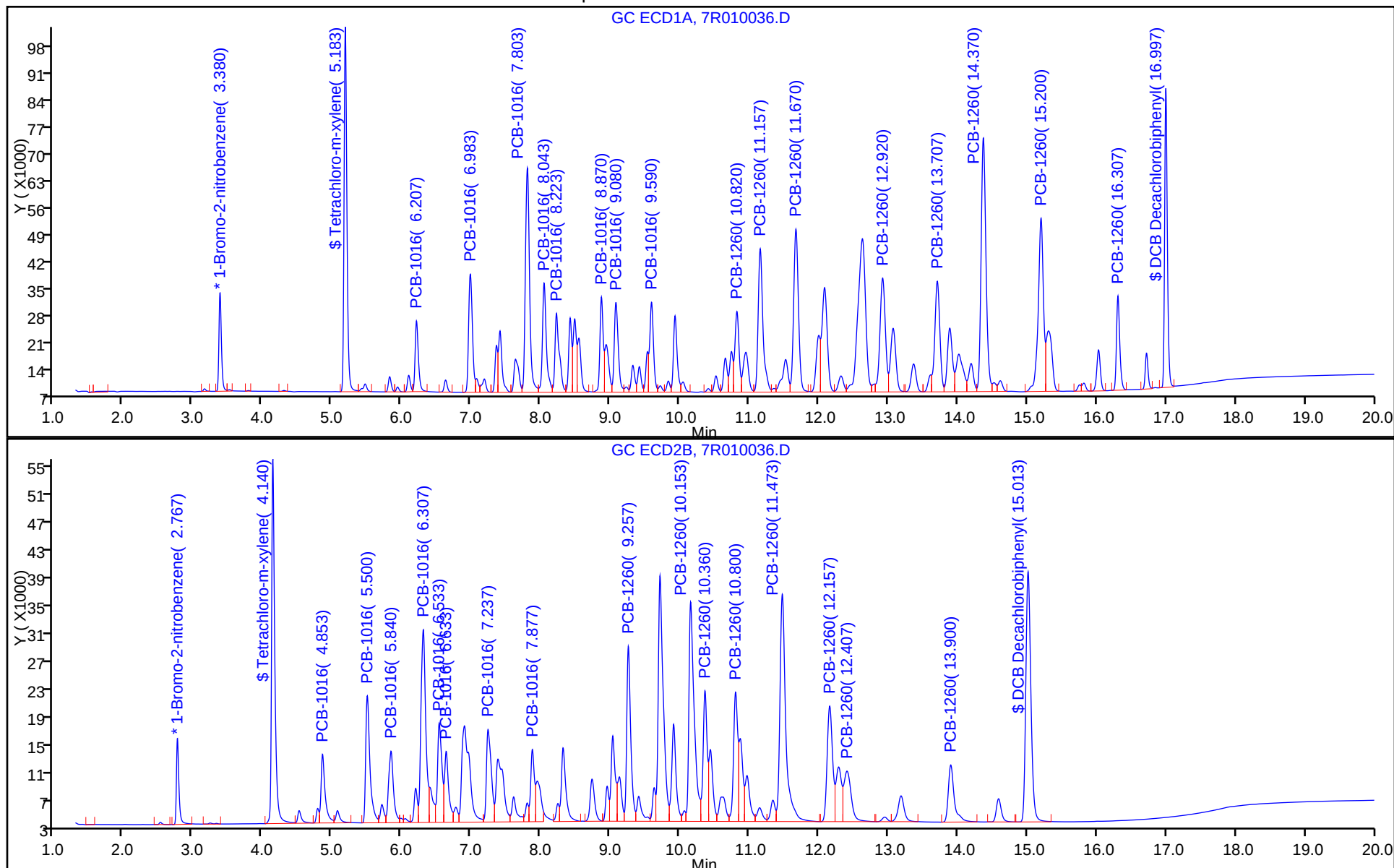
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 49

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\7R010036.D
Injection Date: 07-Nov-2017 08:44:15 Instrument ID: CPESTGC7
Lims ID: CCVIS
Client ID:
Operator ID:
Injection Vol: 1.0 ul
Method: 8082.ISTD
Column:

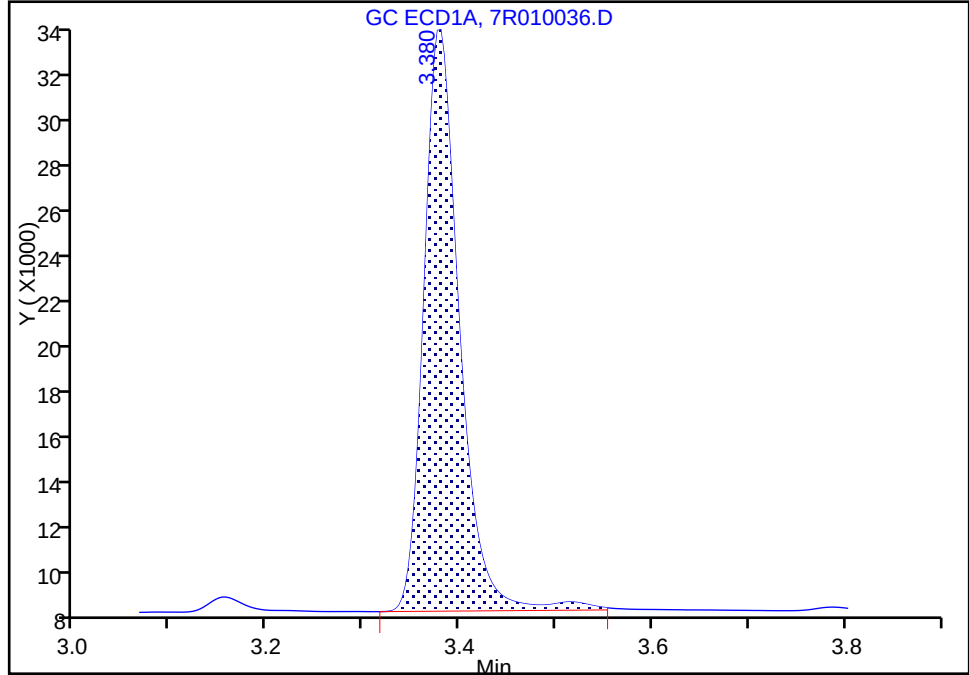
ALS Bottle#: 49 Worklist Smp#: 2
Dil. Factor: 1.0000
Limit Group: GC 8082A PCB ISTD
Detector GC ECD1A

* 13 1-Bromo-2-nitrobenzene, CAS: 577-19-5

Signal: 1

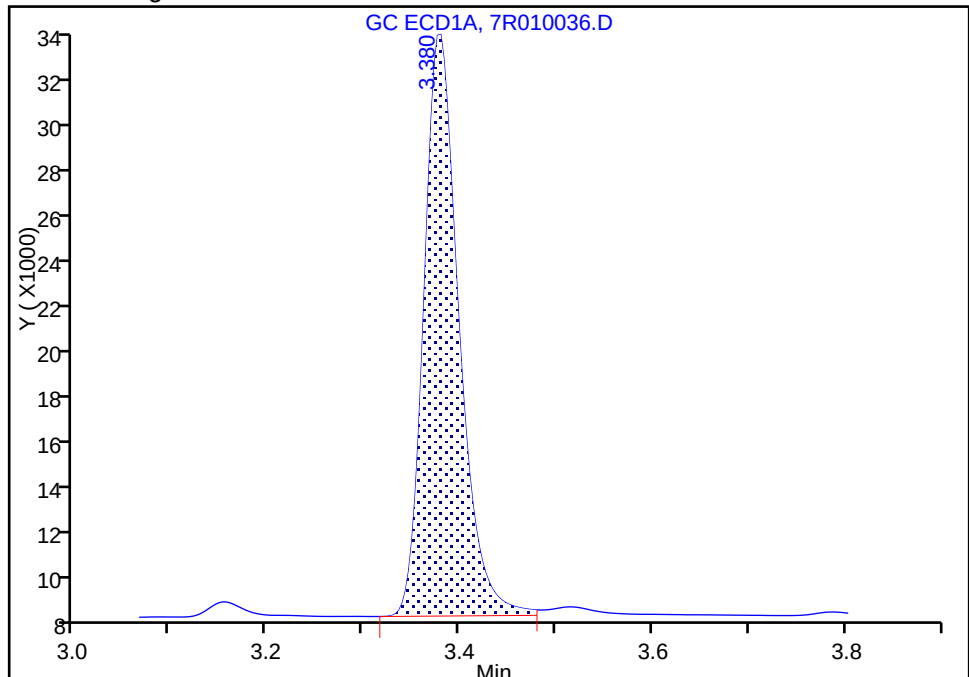
RT: 3.38
Area: 65670
Amount: 20.000000
Amount Units: ug/l

Processing Integration Results



RT: 3.38
Area: 64537
Amount: 20.000000
Amount Units: ug/l

Manual Integration Results



Reviewer: patelji, 07-Nov-2017 12:01:44

Audit Action: Split an Integrated Peak

Audit Reason: Peak not integrated

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171107-63022.b\\7R010036.D

Injection Date: 07-Nov-2017 08:44:15

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

49

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

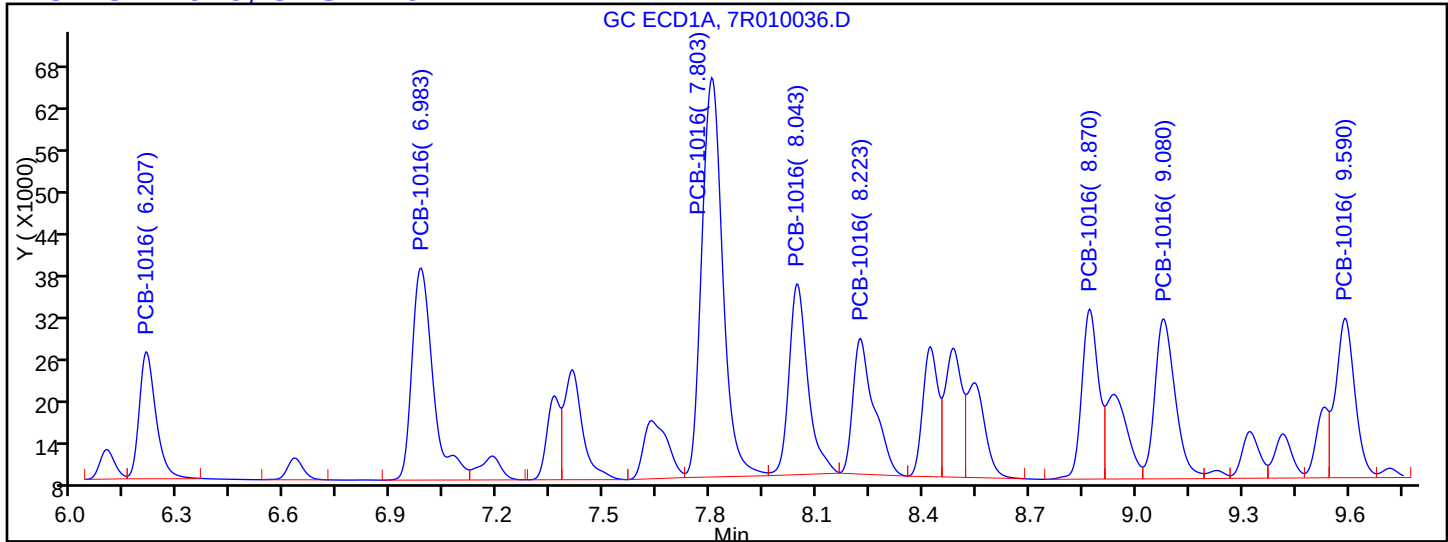
GC 8082A PCB ISTD

Column:

Detector

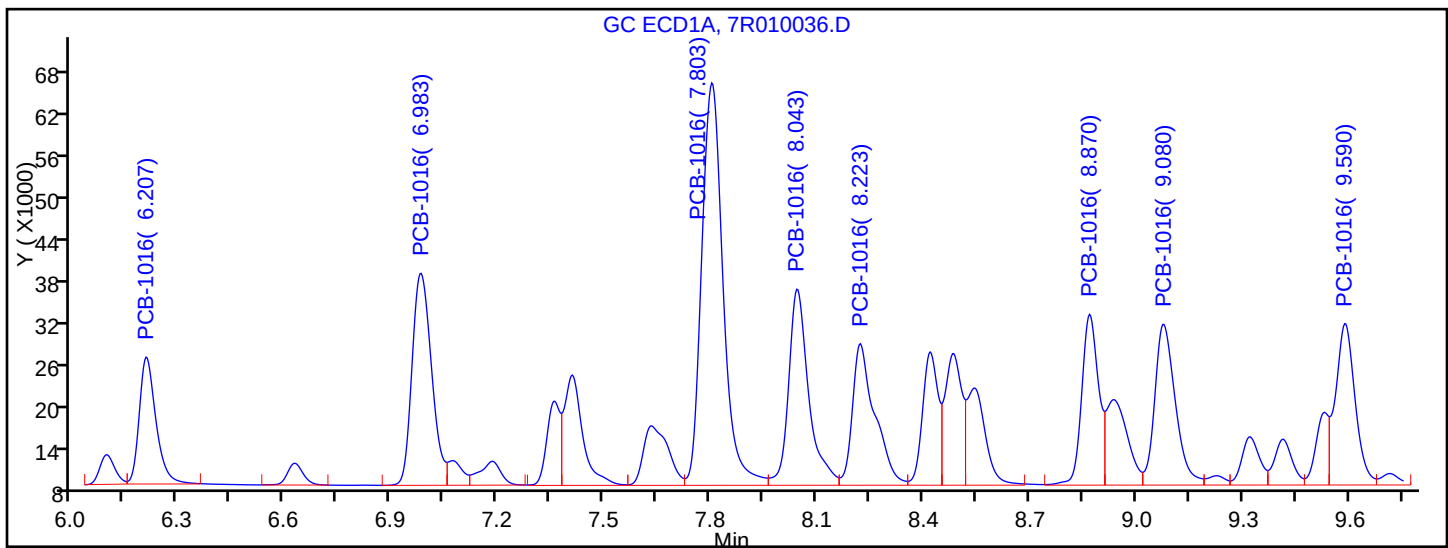
GC ECD1A

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



Processing Integration Results

6.207	Response = 60477
6.983	Response = 128457
7.803	Response = 238530
8.043	Response = 102891
8.223	Response = 81211
8.870	Response = 81362
9.080	Response = 92919
9.590	Response = 87361



Manual Integration Results

6.207	Response = 60477	
6.983	Response = 118199	M
7.803	Response = 245609	M
8.043	Response = 112635	M
8.223	Response = 90201	M
8.870	Response = 82433	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171107-63022.b\\7R010036.D

Injection Date: 07-Nov-2017 08:44:15

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

49

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

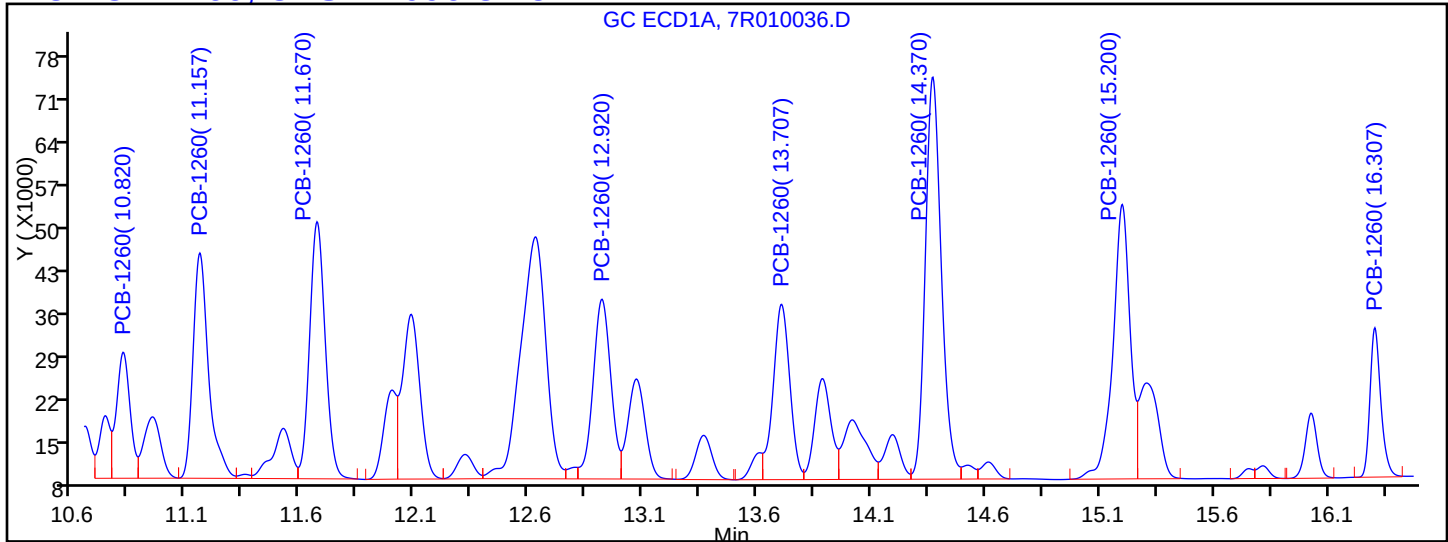
GC 8082A PCB ISTD

Column:

Detector

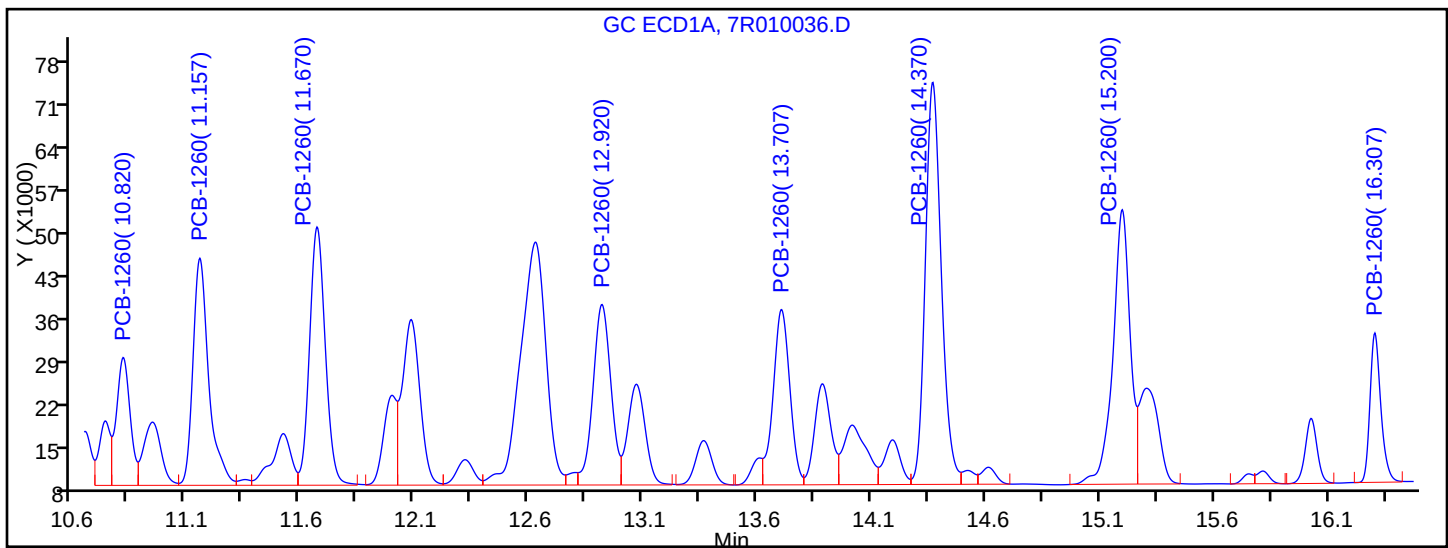
GC ECD1A

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



Processing Integration Results

10.820	Response = 86018
11.157	Response = 175671
11.670	Response = 200890
12.920	Response = 161023
13.707	Response = 146726
14.370	Response = 322876
15.200	Response = 236714
16.307	Response = 81079



Manual Integration Results

10.820	Response = 88195	M
11.157	Response = 180124	M
11.670	Response = 203791	M
12.920	Response = 162562	M
13.707	Response = 146726	
14.370	Response = 322876	

FORM VII
PCBS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-475107/2 Calibration Date: 11/07/2017 08:44
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-1 ID: 0.53(mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R010036.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
PCB-1016 Peak 1	Ave	0.0274	0.0259		946	1000	-5.4	20.0
PCB-1016 Peak 2	Ave	0.0519	0.0502		967	1000	-3.3	20.0
PCB-1016 Peak 3	Ave	0.0321	0.0320		997	1000	-0.3	20.0
PCB-1016 Peak 4	Ave	0.0980	0.0860		878	1000	-12.2	20.0
PCB-1016 Peak 5	Ave	0.0426	0.0398		933	1000	-6.7	20.0
PCB-1016 Peak 6	Ave	0.0262	0.0274		1050	1000	4.6	20.0
PCB-1016 Peak 7	Ave	0.0414	0.0412		995	1000	-0.5	20.0
PCB-1016 Peak 8	Ave	0.0249	0.0249		1000	1000	0.0	20.0
PCB-1260 Peak 1	Ave	0.0626	0.0650		1040	1000	3.8	20.0
PCB-1260 Peak 2	Ave	0.1017	0.1070		1050	1000	5.2	20.0
PCB-1260 Peak 3	Ave	0.0494	0.0490		992	1000	-0.8	20.0
PCB-1260 Peak 4	Ave	0.0518	0.0503		969	1000	-3.1	20.0
PCB-1260 Peak 5	Ave	0.1175	0.1236		1050	1000	5.2	20.0
PCB-1260 Peak 6	Ave	0.0608	0.0581		955	1000	-4.5	20.0
PCB-1260 Peak 7	Ave	0.0303	0.0341		1120	1000	12.4	20.0
PCB-1260 Peak 8	Ave	0.0298	0.0315		1060	1000	5.8	20.0
Tetrachloro-m-xylene	Ave	1.070	1.077		101	100	0.7	20.0
DCB Decachlorobiphenyl	Ave	1.167	1.173		101	100	0.5	20.0

FORM VII
PCBS CONTINUING CALIBRATION RETENTION TIME SUMMARY

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Lab Sample ID: CCVIS 460-475107/2 Calibration Date: 11/07/2017 08:44
 Instrument ID: CPESTGC7 Calib Start Date: 07/29/2017 11:50
 GC Column: CLP-1 ID: 0.53 (mm) Calib End Date: 07/29/2017 13:25
 Lab File ID: 7R010036.D

Analyte	RT	RT WINDOW	
		FROM	TO
PCB-1016 Peak 1	4.85	4.78	4.92
PCB-1016 Peak 2	5.50	5.43	5.57
PCB-1016 Peak 3	5.84	5.77	5.91
PCB-1016 Peak 4	6.31	6.24	6.38
PCB-1016 Peak 5	6.53	6.46	6.60
PCB-1016 Peak 6	6.63	6.56	6.70
PCB-1016 Peak 7	7.24	7.17	7.31
PCB-1016 Peak 8	7.88	7.81	7.95
PCB-1260 Peak 1	9.26	9.19	9.33
PCB-1260 Peak 2	10.15	10.08	10.22
PCB-1260 Peak 3	10.36	10.29	10.43
PCB-1260 Peak 4	10.80	10.73	10.87
PCB-1260 Peak 5	11.47	11.40	11.54
PCB-1260 Peak 6	12.16	12.09	12.23
PCB-1260 Peak 7	12.41	12.34	12.48
PCB-1260 Peak 8	13.90	13.83	13.97
Tetrachloro-m-xylene	4.14	4.09	4.19
DCB Decachlorobiphenyl	15.01	14.91	15.11

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\7R010036.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 07-Nov-2017 08:44:15 ALS Bottle#: 49 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Sublist: chrom-8082.ISTD*sub1
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 07-Nov-2017 12:34:45 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK011

First Level Reviewer: kapoors

Date: 07-Nov-2017 08:48:55

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

M

1	3.380	3.380	0.000	64537	20.0	20.0	M
2	2.767	2.767	0.000	30828	20.0	20.0	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	272795	100.0	96.1	
2	4.140	4.140	0.000	166058	100.0	100.7	

RPD = 4.67

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171107-63022.b\7R010036.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.207	6.207	0.000	60477	1000.0	922.9	
1	6.983	6.983	0.000	118199	1000.0	902.2	M
1	7.803	7.803	0.000	245609	1000.0	962.8	M
1	8.043	8.043	0.000	112635	1000.0	951.0	M
1	8.223	8.223	0.000	90201	1000.0	1015.7	M
1	8.870	8.870	0.000	82433	1000.0	951.1	M
1	9.080	9.080	0.000	94515	1000.0	1032.3	M
1	9.590	9.590	0.000	89765	1000.0	1063.0	M

Average of Peak Amounts =

975.1

2	4.853	4.853	0.000	39888	1000.0	946.1	
2	5.500	5.500	0.000	77377	1000.0	966.6	M
2	5.840	5.840	0.000	49372	1000.0	997.0	M
2	6.307	6.307	0.000	132494	1000.0	877.5	M
2	6.533	6.533	0.000	61338	1000.0	933.5	M
2	6.633	6.633	0.000	42177	1000.0	1045.7	M
2	7.237	7.237	0.000	63552	1000.0	995.2	M
2	7.877	7.877	0.000	38411	1000.0	1000.9	M

Average of Peak Amounts =

970.3

RPD = 0.50

8 PCB-1260

M

1	10.820	10.820	0.000	88195	1000.0	981.3	M
1	11.157	11.157	0.000	180124	1000.0	969.4	M
1	11.670	11.670	0.000	203791	1000.0	931.4	M
1	12.920	12.920	0.000	162562	1000.0	1039.2	M
1	13.707	13.707	0.000	146726	1000.0	970.0	
1	14.370	14.370	0.000	322876	1000.0	1030.1	
1	15.200	15.200	0.000	236714	1000.0	1051.9	
1	16.307	16.307	0.000	81079	1000.0	1063.3	

Average of Peak Amounts =

1004.6

2	9.257	9.257	0.000	100155	1000.0	1038.4	
2	10.153	10.153	0.000	164966	1000.0	1052.1	
2	10.360	10.360	0.000	75546	1000.0	992.3	M
2	10.800	10.800	0.000	77474	1000.0	969.4	M
2	11.473	11.473	0.000	190510	1000.0	1052.1	
2	12.157	12.157	0.000	89531	1000.0	954.9	
2	12.407	12.407	0.000	52491	1000.0	1124.3	
2	13.900	13.900	0.000	48608	1000.0	1057.9	

Average of Peak Amounts =

1030.2

RPD = 2.52

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	211573	100.0	94.3	
2	15.013	15.013	0.000	180815	100.0	100.5	

RPD = 6.35

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SG1660L3_00031

Amount Added: 1.00

Units: ml

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171107-63022.b\\7R010036.D

Injection Date: 07-Nov-2017 08:44:15

Instrument ID: CPESTGC7

Operator ID:

Lims ID: CCVIS

Worklist Smp#: 2

Client ID:

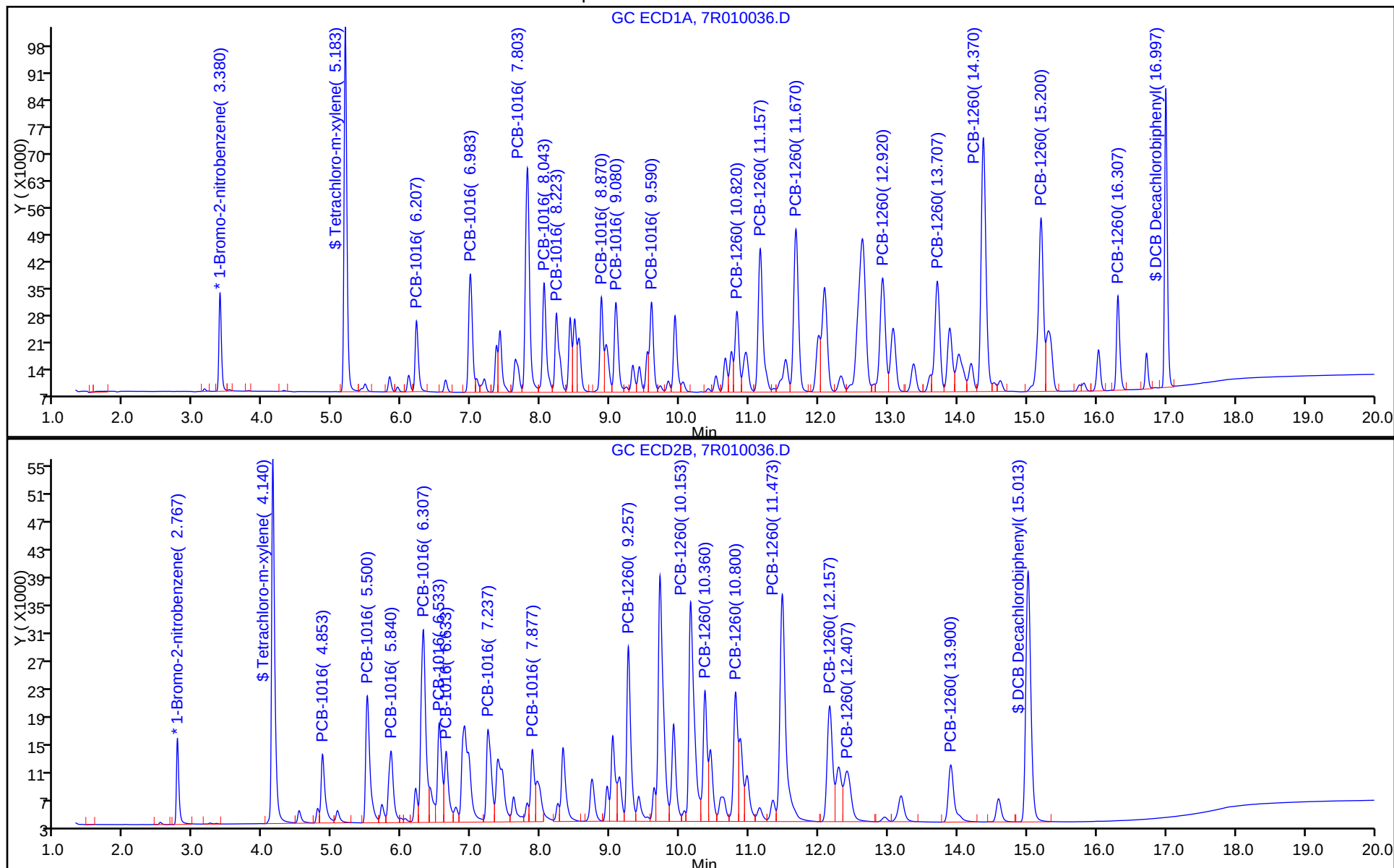
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 49

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171107-63022.b\\7R010036.D

Injection Date: 07-Nov-2017 08:44:15

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

49

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

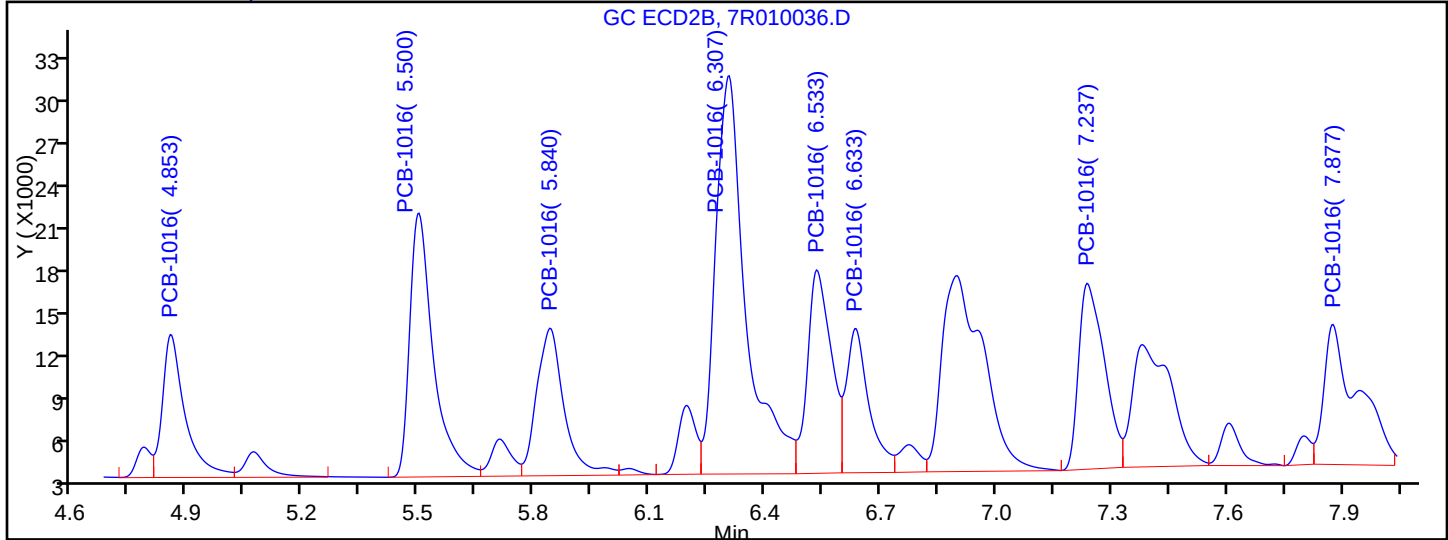
GC 8082A PCB ISTD

Column:

Detector

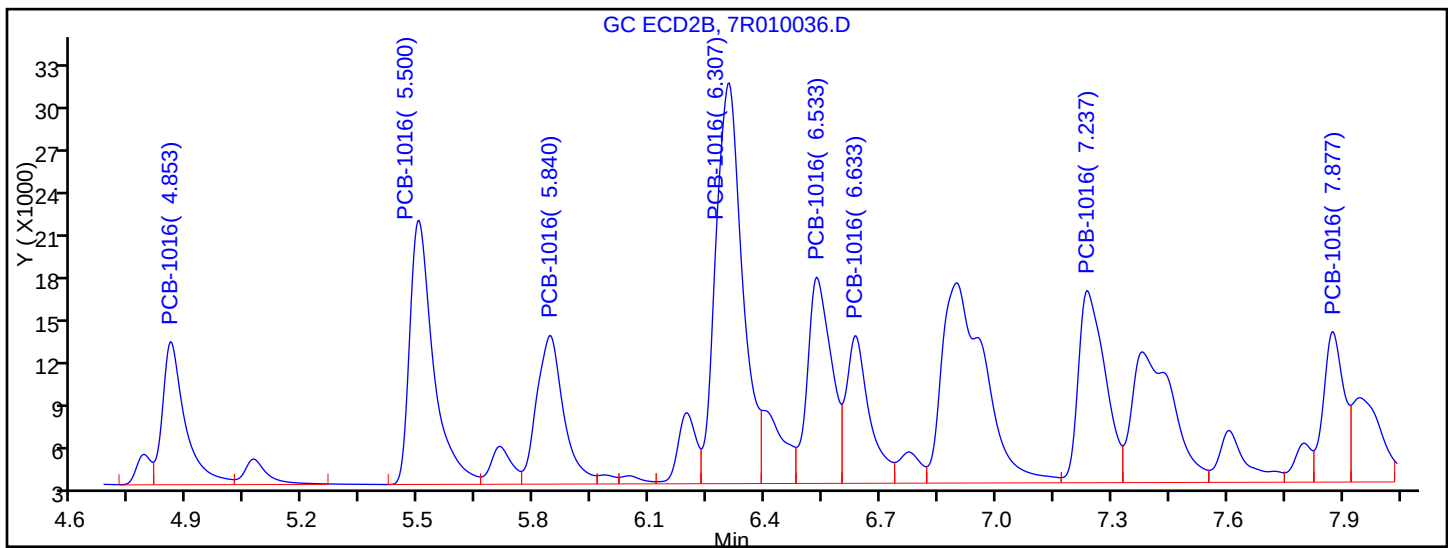
GC ECD2B

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



Processing Integration Results

4.853	Response = 39888
5.500	Response = 77053
5.840	Response = 49912
6.307	Response = 149796
6.533	Response = 59927
6.633	Response = 40271
7.237	Response = 59314
7.877	Response = 58691



Manual Integration Results

4.853	Response = 39888	
5.500	Response = 77377	M
5.840	Response = 49372	M
6.307	Response = 132494	M
6.533	Response = 61338	M
6.633	Response = 42177	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171107-63022.b\\7R010036.D

Injection Date: 07-Nov-2017 08:44:15

Instrument ID: CPESTGC7

Lims ID: CCVIS

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

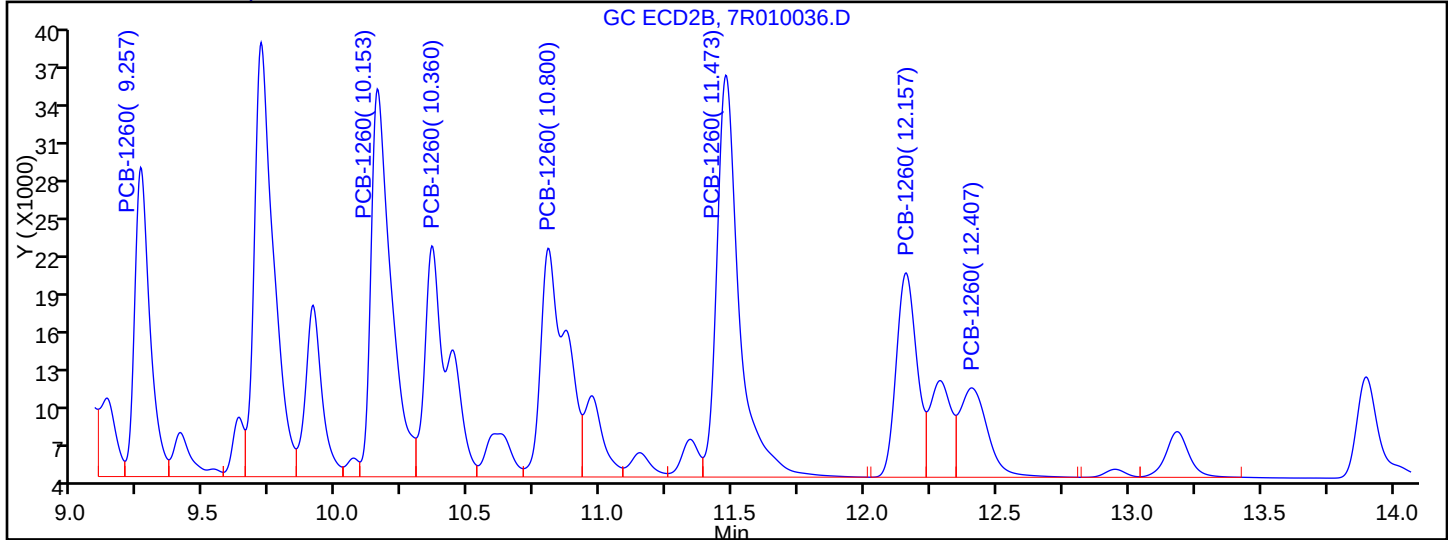
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

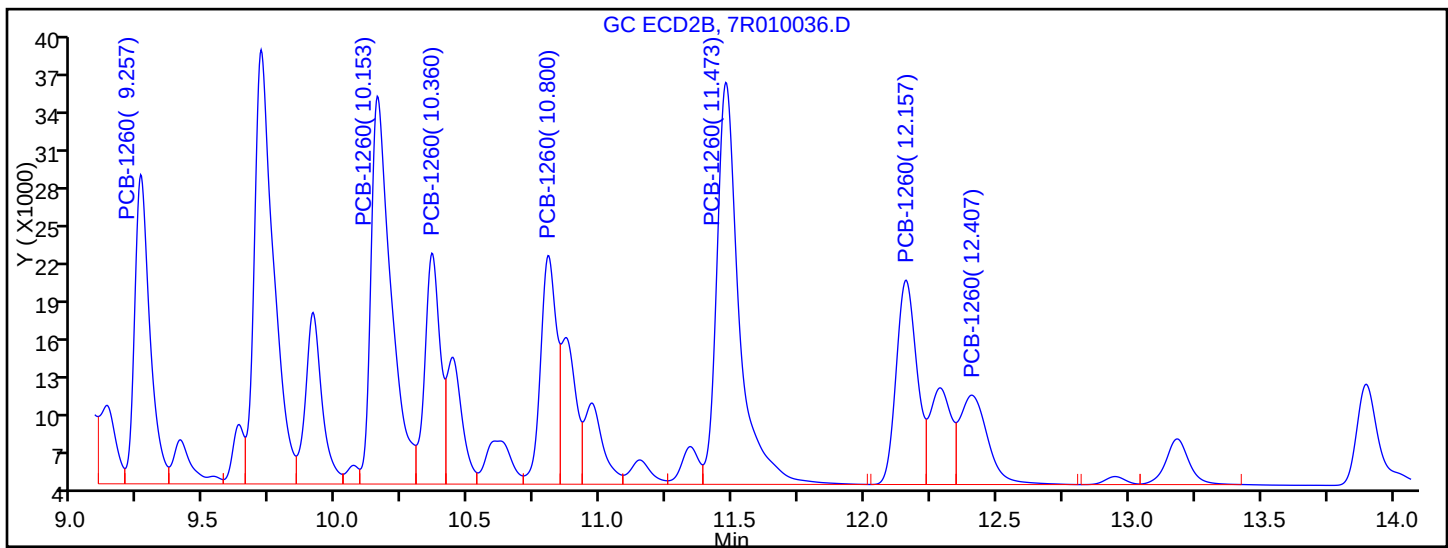
Detector GC ECD2B

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



Processing Integration Results

9.257	Response = 100155
10.153	Response = 164966
10.360	Response = 115643
10.800	Response = 123243
11.473	Response = 190510
12.157	Response = 89531
12.407	Response = 52491
13.900	Response = 48608



Manual Integration Results

9.257	Response = 100155
10.153	Response = 164966
10.360	Response = 75546
10.800	Response = 77474
11.473	Response = 190510
12.157	Response = 89531

M

M

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 460-474606/1-A
Matrix: Water Lab File ID: 7R009993.D
Analysis Method: 8082A Date Collected: _____
Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 09:33
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 474852 Units: ug/L

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	82		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009993.D
Lims ID: MB 460-474606/1-A
Client ID:
Sample Type: MB
Inject. Date: 06-Nov-2017 09:33:43 ALS Bottle#: 6 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A

Column 2 : Det: GC ECD2B

Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.390	3.380	0.010	69871	20.0	20.0	
2	2.757	2.767	-0.010	32257	20.0	20.0	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	5.193	5.183	0.010	255190	100.0	83.0	
2	4.133	4.140	-0.007	144745	100.0	83.9	

RPD = 1.02

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009993.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 11 DCB Decachlorobiphenyl

1	17.000	16.997	0.003	198687	100.0	81.8
2	15.013	15.013	0.000	166872	100.0	88.6

RPD = 8.01

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009993.D

Injection Date: 06-Nov-2017 09:33:43

Instrument ID: CPESTGC7

Operator ID:

Lims ID: MB 460-474606/1-A

Worklist Smp#: 3

Client ID:

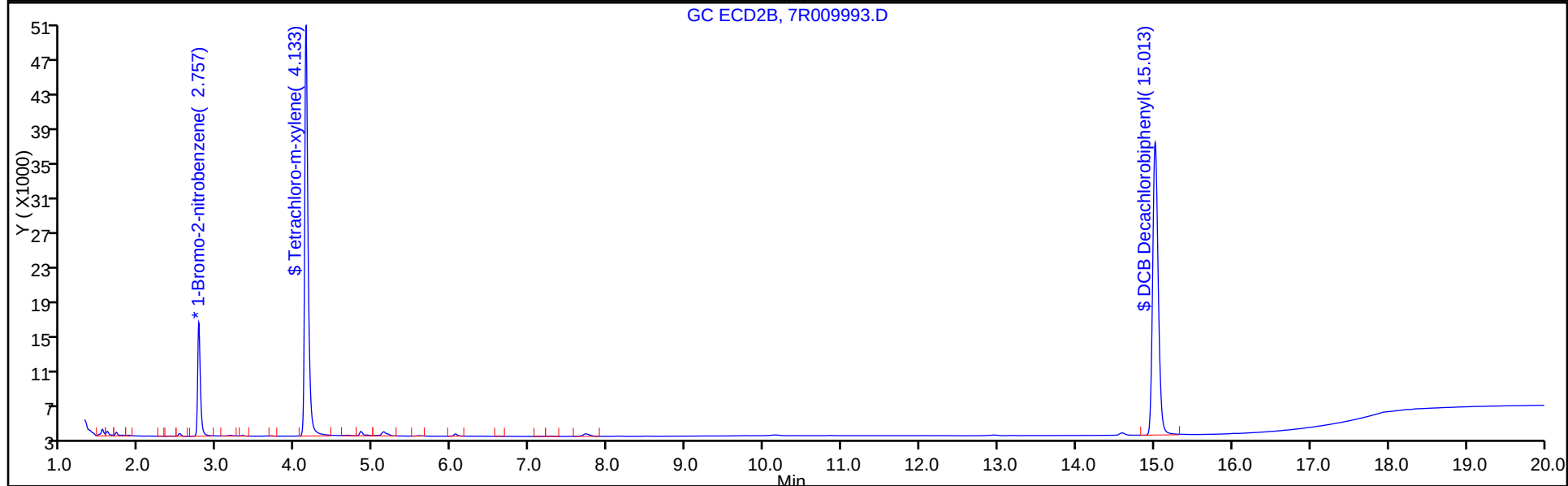
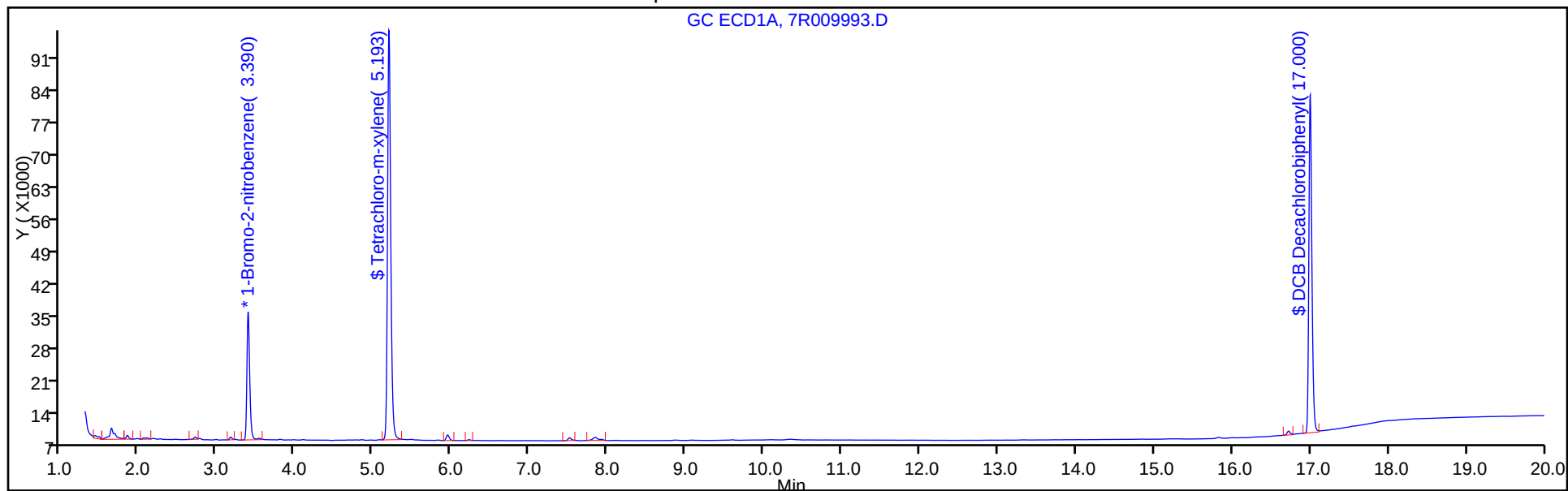
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 460-474606/1-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R009993.D</u>
Analysis Method: <u>8082A</u>	Date Collected: _____
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 09:33</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	0.40	U	0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	0.40	U	0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	0.40	U	0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	89		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009993.D
Lims ID: MB 460-474606/1-A
Client ID:
Sample Type: MB
Inject. Date: 06-Nov-2017 09:33:43 ALS Bottle#: 6 Worklist Smp#: 3
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Sample Info:
Operator ID: Instrument ID: CPESTGC7
Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
Limit Group: GC 8082A PCB ISTD
Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
Integrator: Falcon
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D

Column 1 : Det: GC ECD1A
Column 2 : Det: GC ECD2B

Process Host: XAWRK012

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.390	3.380	0.010	69871	20.0	20.0	
2	2.757	2.767	-0.010	32257	20.0	20.0	

RPD = 0.00

\$ 2 Tetrachloro-m-xylene

1	5.193	5.183	0.010	255190	100.0	83.0	
2	4.133	4.140	-0.007	144745	100.0	83.9	

RPD = 1.02

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009993.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 11 DCB Decachlorobiphenyl

1	17.000	16.997	0.003	198687	100.0	81.8
2	15.013	15.013	0.000	166872	100.0	88.6

RPD = 8.01

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009993.D

Injection Date: 06-Nov-2017 09:33:43

Instrument ID: CPESTGC7

Operator ID:

Lims ID: MB 460-474606/1-A

Worklist Smp#: 3

Client ID:

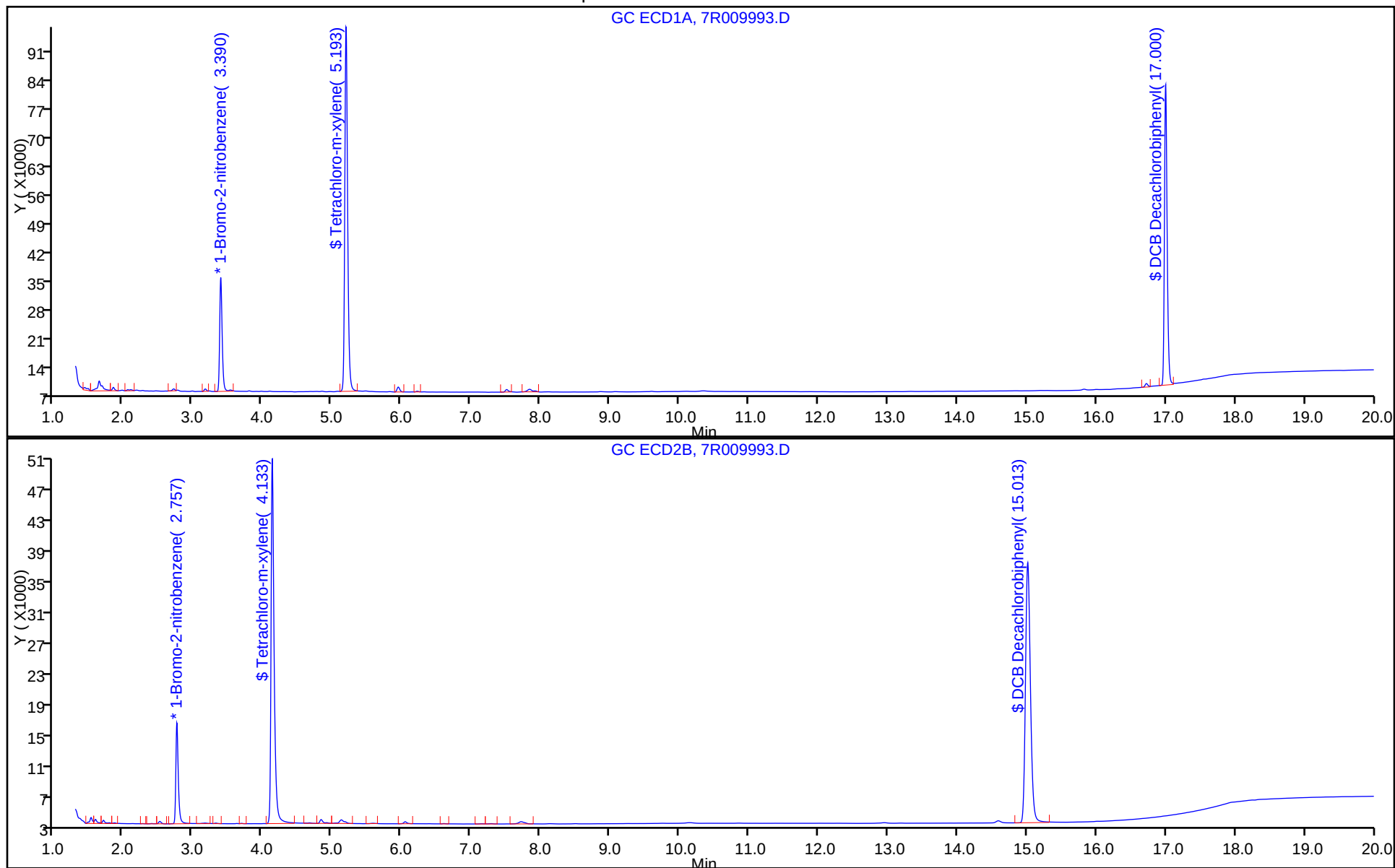
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-474606/2-A
 Matrix: Water Lab File ID: 7R009994.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
 Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 09:57
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: CLP-2 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 474852 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	4.58		0.40	0.10
11096-82-5	Aroclor 1260	4.72		0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	9.30		0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	88		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009994.D
 Lims ID: LCS 460-474606/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 06-Nov-2017 09:57:27 ALS Bottle#: 7 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: patelji Date: 06-Nov-2017 10:09:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.373	3.380	-0.007	64780	20.0	20.0	
2	2.757	2.767	-0.010	31477	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.180	5.183	-0.003	243830	100.0	85.5	
2	4.133	4.140	-0.007	144855	100.0	86.0	
RPD = 0.53							

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009994.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.207	6.210	-0.003	71363	1000.0	1084.9	
1	6.980	6.983	-0.003	138462	1000.0	1052.9	
1	7.803	7.803	0.000	290384	1000.0	1134.1	M
1	8.043	8.047	-0.004	131632	1000.0	1107.3	M
1	8.220	8.223	-0.003	105818	1000.0	1187.1	M
1	8.870	8.870	0.000	98157	1000.0	1128.3	
1	9.077	9.080	-0.003	110863	1000.0	1206.3	
1	9.590	9.593	-0.003	106345	1000.0	1254.6	

Average of Peak Amounts = 1144.4

2	4.850	4.857	-0.007	46389	1000.0	1077.6	
2	5.497	5.500	-0.003	89974	1000.0	1100.8	
2	5.840	5.843	-0.003	57356	1000.0	1134.3	M
2	6.303	6.307	-0.004	161124	1000.0	1045.1	M
2	6.533	6.533	0.000	70716	1000.0	1054.0	
2	6.633	6.637	-0.004	47705	1000.0	1158.4	
2	7.237	7.237	0.000	74518	1000.0	1142.8	M
2	7.873	7.877	-0.004	46509	1000.0	1187.0	M

Average of Peak Amounts = 1112.5

RPD = 2.83

8 PCB-1260

M

1	10.820	10.820	0.000	100527	1000.0	1114.3	
1	11.157	11.157	0.000	214429	1000.0	1149.7	
1	11.670	11.670	0.000	255376	1000.0	1162.8	
1	12.920	12.920	0.000	189249	1000.0	1205.3	
1	13.707	13.707	0.000	170734	1000.0	1124.5	
1	14.370	14.370	0.000	379616	1000.0	1206.6	
1	15.200	15.200	0.000	279274	1000.0	1236.4	
1	16.307	16.307	0.000	94275	1000.0	1231.8	

Average of Peak Amounts = 1178.9

2	9.257	9.257	0.000	116638	1000.0	1184.3	
2	10.153	10.153	0.000	203731	1000.0	1272.6	
2	10.360	10.360	0.000	85530	1000.0	1100.3	M
2	10.800	10.800	0.000	94563	1000.0	1158.8	M
2	11.477	11.473	0.004	223765	1000.0	1210.3	
2	12.157	12.157	0.000	110064	1000.0	1149.7	
2	12.407	12.407	0.000	62523	1000.0	1311.6	
2	13.900	13.900	0.000	56546	1000.0	1205.3	

Average of Peak Amounts = 1199.1

RPD = 1.70

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	197322	100.0	87.6	
2	15.013	15.013	0.000	167294	100.0	91.1	

RPD = 3.84

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009994.D

Injection Date: 06-Nov-2017 09:57:27

Instrument ID: CPESTGC7

Operator ID:

Lims ID: LCS 460-474606/2-A

Worklist Smp#: 4

Client ID:

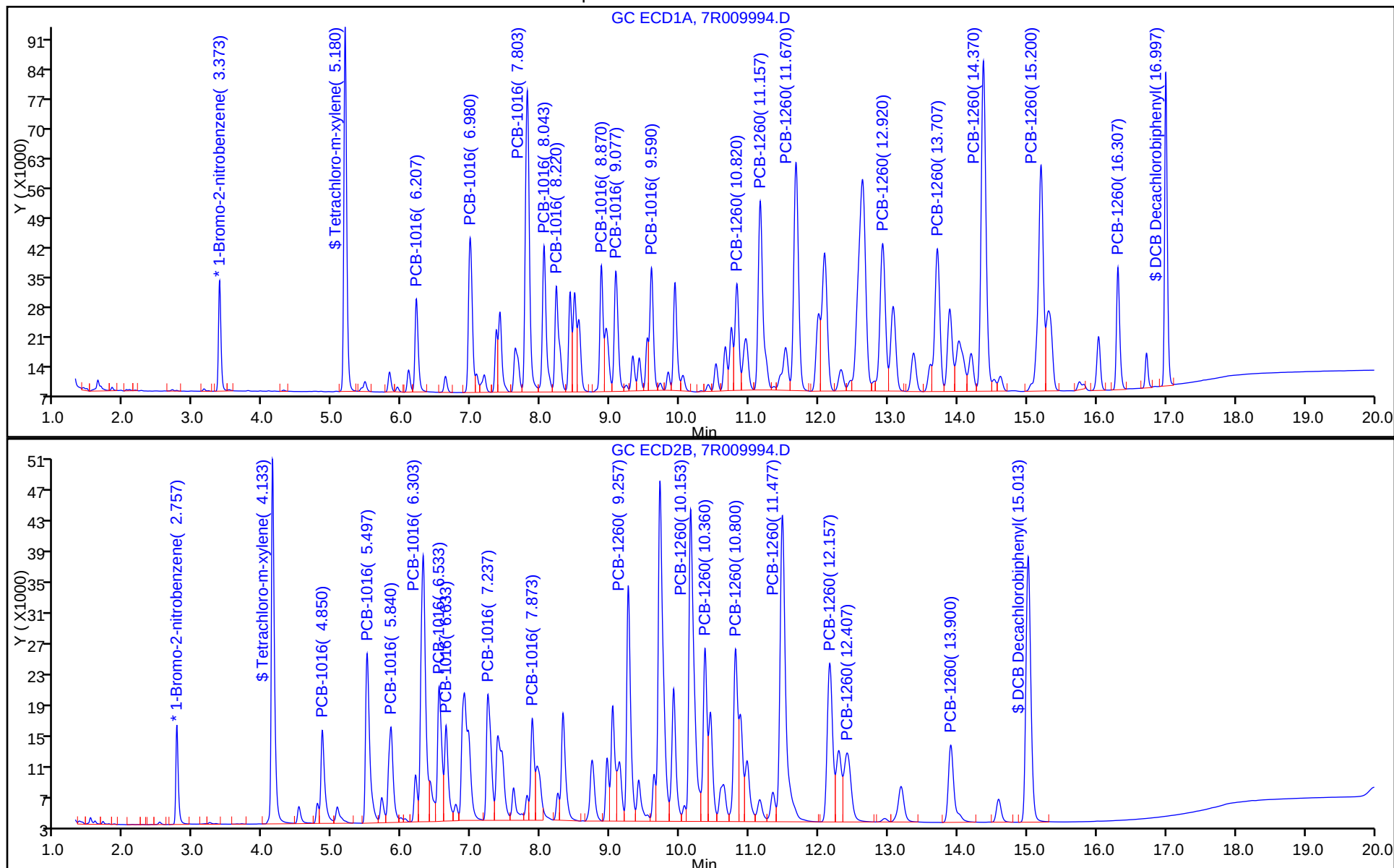
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009994.D

Injection Date: 06-Nov-2017 09:57:27

Instrument ID: CPESTGC7

Lims ID: LCS 460-474606/2-A

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

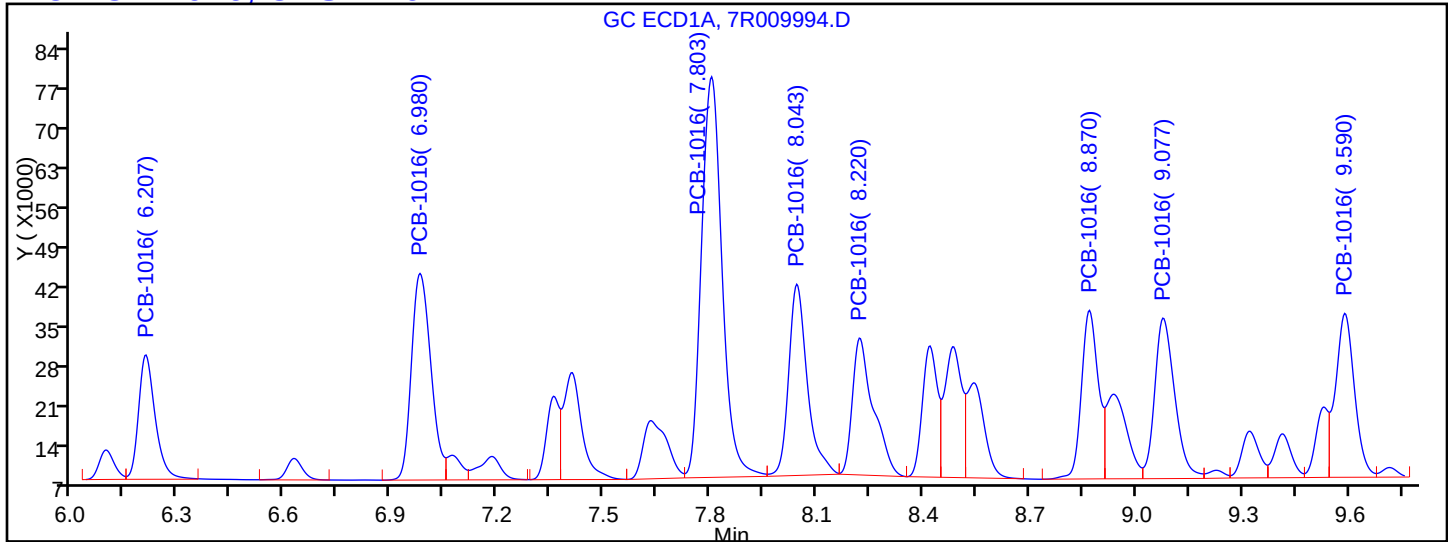
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

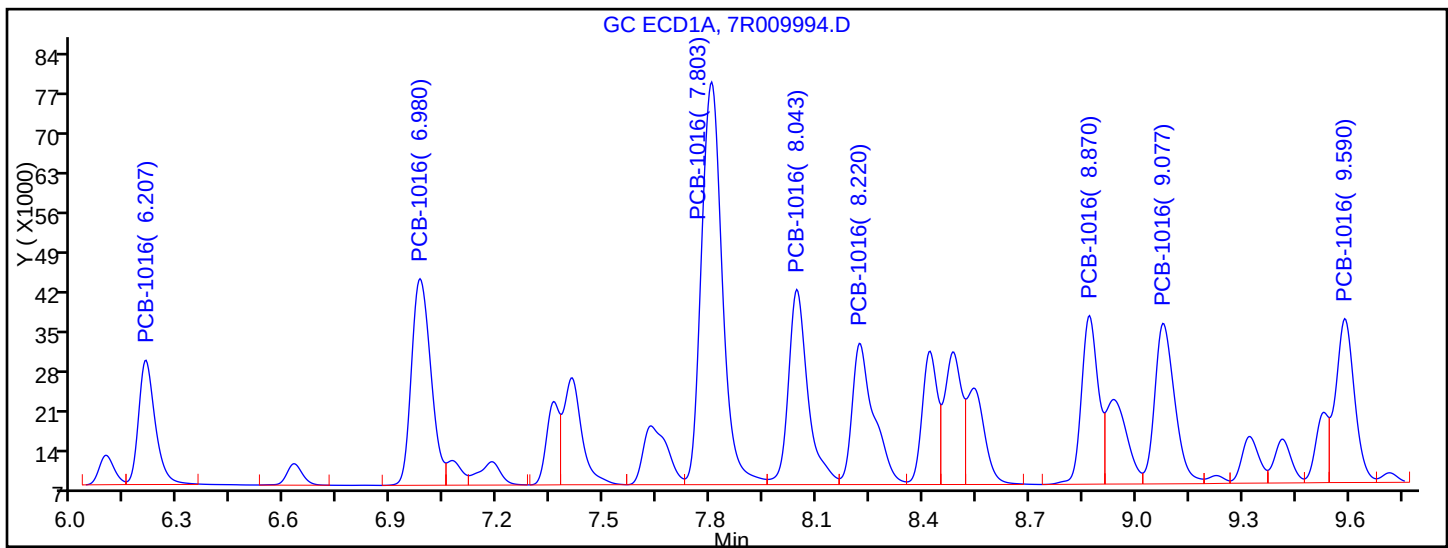
Detector GC ECD1A

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



Processing Integration Results

6.207	Response = 71363
6.980	Response = 138462
7.803	Response = 284798
8.043	Response = 122927
8.220	Response = 98066
8.870	Response = 98157
9.077	Response = 110863
9.590	Response = 106345



Manual Integration Results

6.207	Response = 71363
6.980	Response = 138462
7.803	Response = 290384
8.043	Response = 131632
8.220	Response = 105818
8.870	Response = 98157

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 460-474606/2-A
 Matrix: Water Lab File ID: 7R009994.D
 Analysis Method: 8082A Date Collected: _____
 Extraction Method: 3510C Date Extracted: 11/04/2017 09:36
 Sample wt/vol: 250 (mL) Date Analyzed: 11/06/2017 09:57
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) GC Column: CLP-1 ID: 0.53 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 474852 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	4.45		0.40	0.10
11096-82-5	Aroclor 1260	4.80		0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	9.25		0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	91		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009994.D
 Lims ID: LCS 460-474606/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 06-Nov-2017 09:57:27 ALS Bottle#: 7 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: patelji

Date: 06-Nov-2017 10:09:46

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.373	3.380	-0.007	64780	20.0	20.0	
2	2.757	2.767	-0.010	31477	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.180	5.183	-0.003	243830	100.0	85.5	
2	4.133	4.140	-0.007	144855	100.0	86.0	
RPD = 0.53							

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009994.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.207	6.210	-0.003	71363	1000.0	1084.9	
1	6.980	6.983	-0.003	138462	1000.0	1052.9	
1	7.803	7.803	0.000	290384	1000.0	1134.1	M
1	8.043	8.047	-0.004	131632	1000.0	1107.3	M
1	8.220	8.223	-0.003	105818	1000.0	1187.1	M
1	8.870	8.870	0.000	98157	1000.0	1128.3	
1	9.077	9.080	-0.003	110863	1000.0	1206.3	
1	9.590	9.593	-0.003	106345	1000.0	1254.6	

Average of Peak Amounts = 1144.4

2	4.850	4.857	-0.007	46389	1000.0	1077.6	
2	5.497	5.500	-0.003	89974	1000.0	1100.8	
2	5.840	5.843	-0.003	57356	1000.0	1134.3	M
2	6.303	6.307	-0.004	161124	1000.0	1045.1	M
2	6.533	6.533	0.000	70716	1000.0	1054.0	
2	6.633	6.637	-0.004	47705	1000.0	1158.4	
2	7.237	7.237	0.000	74518	1000.0	1142.8	M
2	7.873	7.877	-0.004	46509	1000.0	1187.0	M

Average of Peak Amounts = 1112.5

RPD = 2.83

8 PCB-1260

M

1	10.820	10.820	0.000	100527	1000.0	1114.3	
1	11.157	11.157	0.000	214429	1000.0	1149.7	
1	11.670	11.670	0.000	255376	1000.0	1162.8	
1	12.920	12.920	0.000	189249	1000.0	1205.3	
1	13.707	13.707	0.000	170734	1000.0	1124.5	
1	14.370	14.370	0.000	379616	1000.0	1206.6	
1	15.200	15.200	0.000	279274	1000.0	1236.4	
1	16.307	16.307	0.000	94275	1000.0	1231.8	

Average of Peak Amounts = 1178.9

2	9.257	9.257	0.000	116638	1000.0	1184.3	
2	10.153	10.153	0.000	203731	1000.0	1272.6	
2	10.360	10.360	0.000	85530	1000.0	1100.3	M
2	10.800	10.800	0.000	94563	1000.0	1158.8	M
2	11.477	11.473	0.004	223765	1000.0	1210.3	
2	12.157	12.157	0.000	110064	1000.0	1149.7	
2	12.407	12.407	0.000	62523	1000.0	1311.6	
2	13.900	13.900	0.000	56546	1000.0	1205.3	

Average of Peak Amounts = 1199.1

RPD = 1.70

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	197322	100.0	87.6	
2	15.013	15.013	0.000	167294	100.0	91.1	

RPD = 3.84

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009994.D

Injection Date: 06-Nov-2017 09:57:27

Instrument ID: CPESTGC7

Operator ID:

Lims ID: LCS 460-474606/2-A

Worklist Smp#: 4

Client ID:

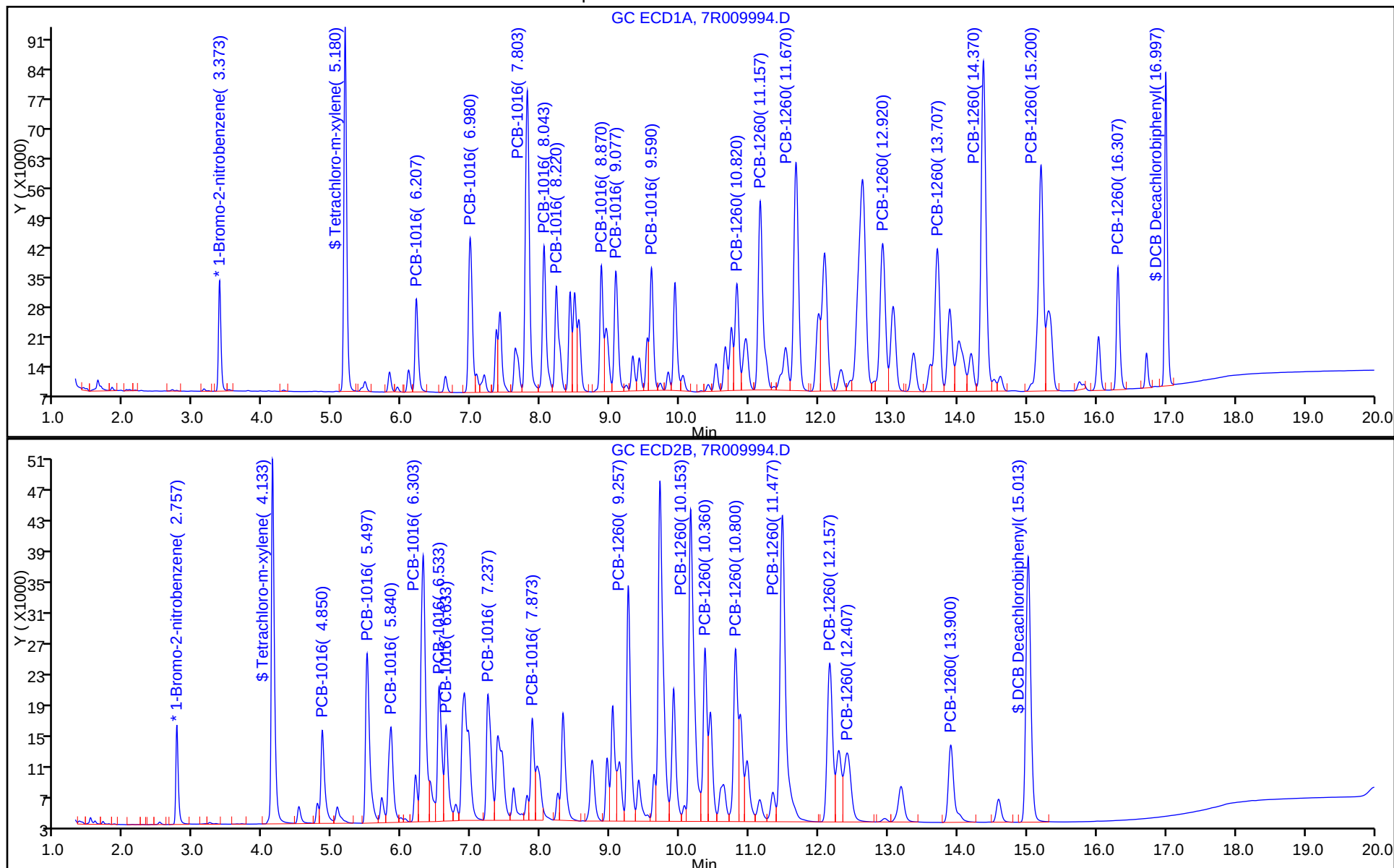
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009994.D

Injection Date: 06-Nov-2017 09:57:27

Instrument ID: CPESTGC7

Lims ID: LCS 460-474606/2-A

Client ID:

Operator ID:

ALS Bottle#:

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

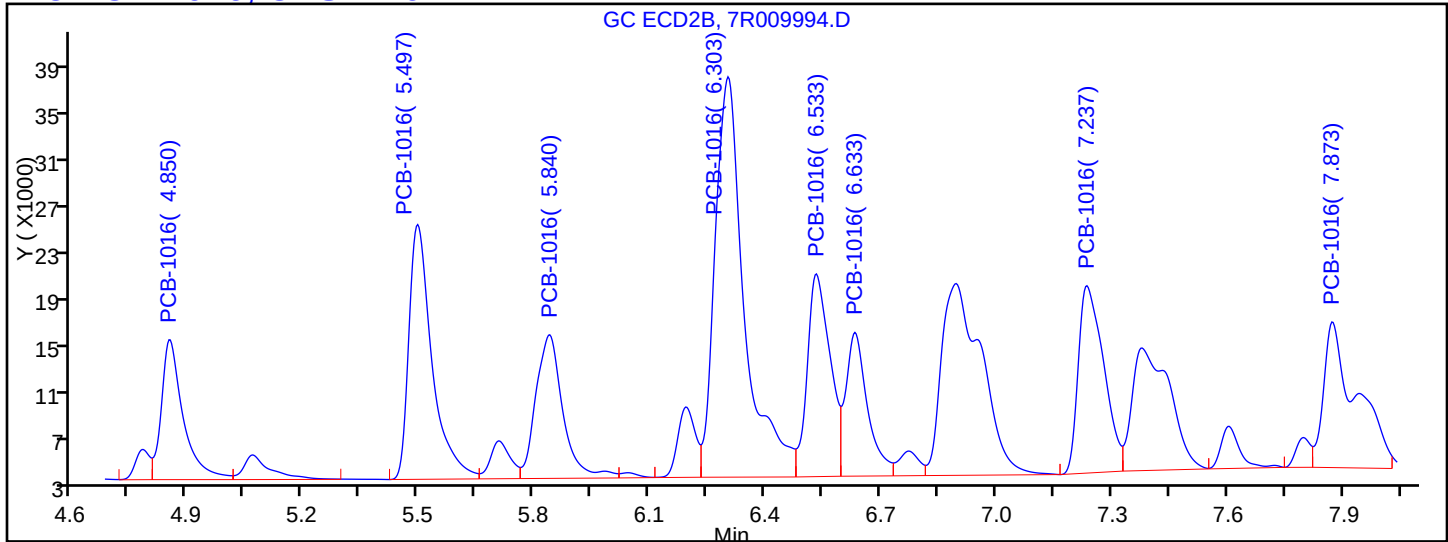
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

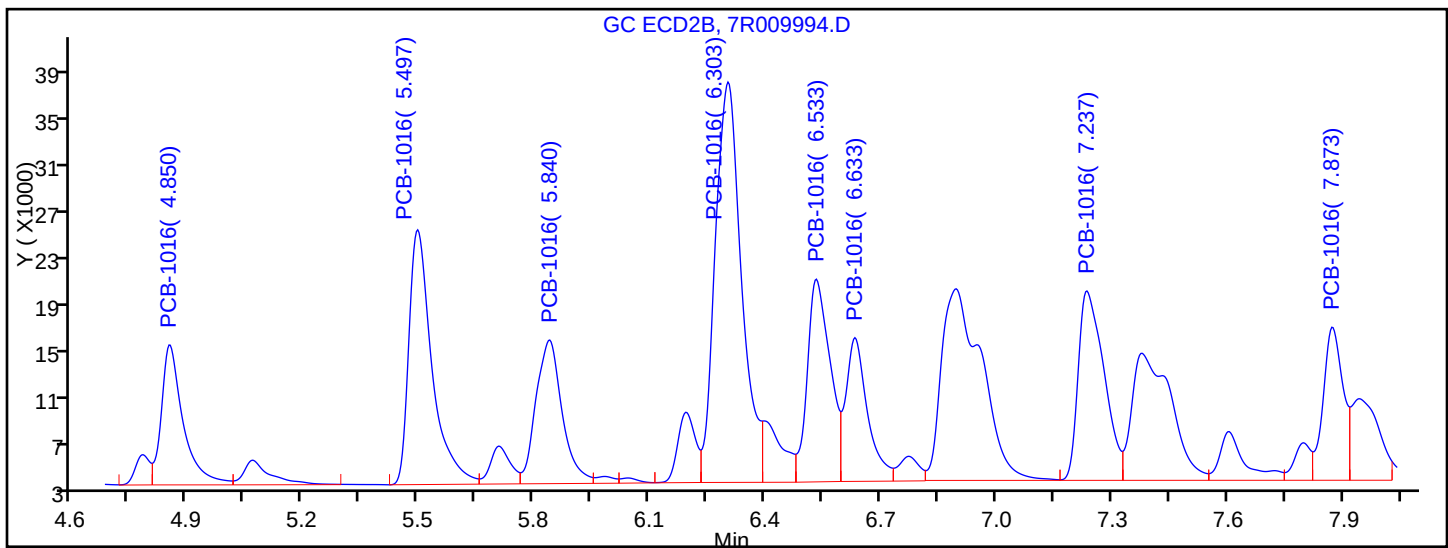
Detector GC ECD2B

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



Processing Integration Results

4.850	Response = 46389
5.497	Response = 89974
5.840	Response = 59302
6.303	Response = 179667
6.533	Response = 70716
6.633	Response = 47705
7.237	Response = 72651
7.873	Response = 72842



Manual Integration Results

4.850	Response = 46389
5.497	Response = 89974
5.840	Response = 57356
6.303	Response = 161124
6.533	Response = 70716
6.633	Response = 47705

M

M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009994.D

Injection Date: 06-Nov-2017 09:57:27

Instrument ID: CPESTGC7

Lims ID: LCS 460-474606/2-A

Client ID:

Operator ID:

ALS Bottle#:

7

Worklist Smp#:

4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

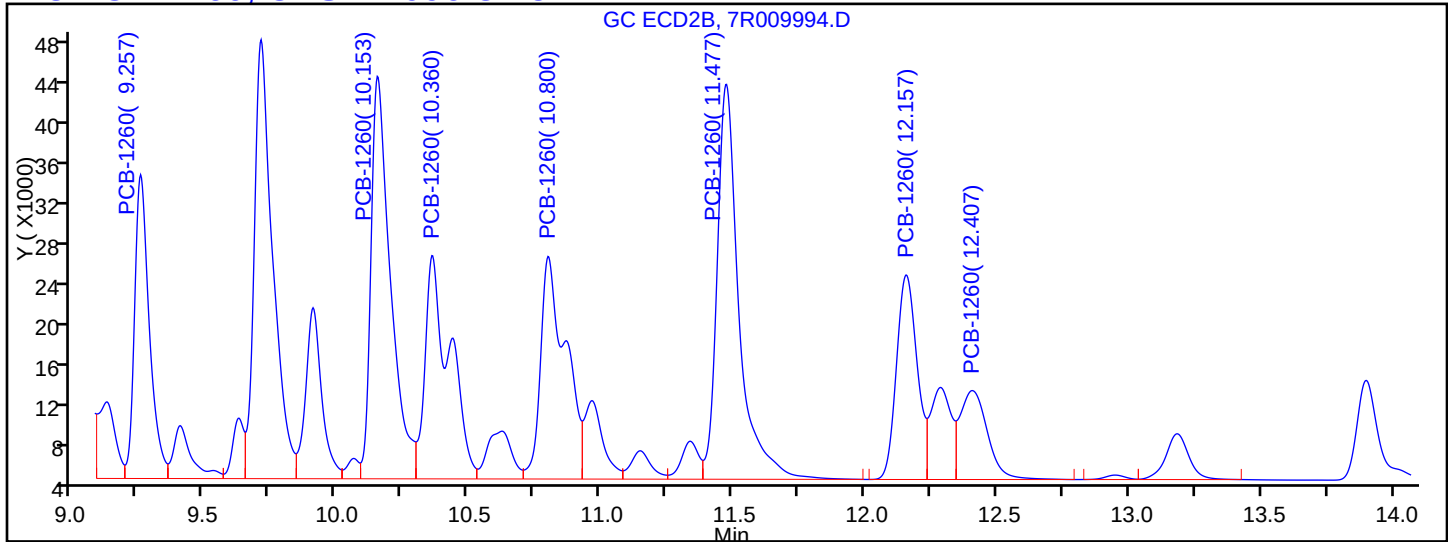
GC 8082A PCB ISTD

Column:

Detector

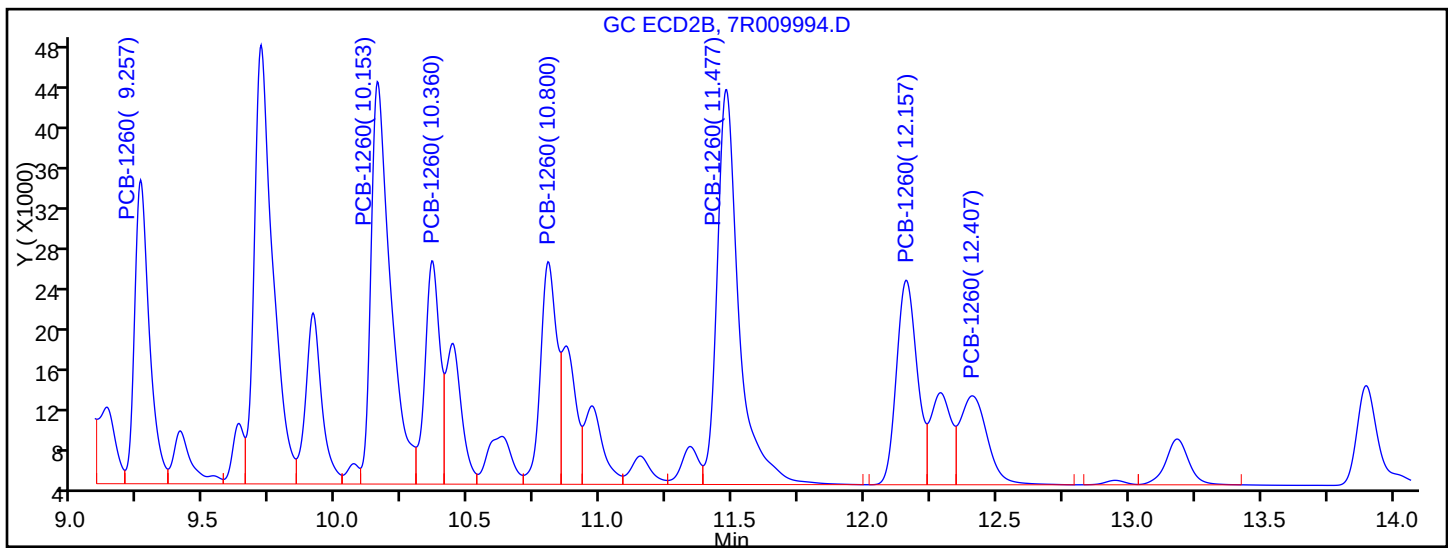
GC ECD2B

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



Processing Integration Results

9.257	Response = 116638
10.153	Response = 203731
10.360	Response = 142440
10.800	Response = 144735
11.477	Response = 223765
12.157	Response = 110064
12.407	Response = 62523
13.900	Response = 56546



Manual Integration Results

9.257	Response = 116638
10.153	Response = 203731
10.360	Response = 85530
10.800	Response = 94563
11.477	Response = 223765
12.157	Response = 110064

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1S MS</u>	Lab Sample ID: <u>460-144244-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R009995.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 10:20</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-2</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	3.13		0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	2.68		0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	5.81		0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	44		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009995.D
 Lims ID: 460-144244-F-1-A MS
 Client ID: MW-1S
 Sample Type: MS
 Inject. Date: 06-Nov-2017 10:20:54 ALS Bottle#: 8 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: patelji

Date: 06-Nov-2017 13:07:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.380	-0.003	62642	20.0	20.0	
2	2.767	2.767	0.000	30910	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	129441	100.0	47.0	
2	4.140	4.140	0.000	73156	100.0	44.2	
RPD = 6.00							

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009995.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.207	6.210	-0.003	46537	1000.0	731.7	
1	6.980	6.983	-0.003	92167	1000.0	724.8	M
1	7.803	7.803	0.000	186136	1000.0	751.7	M
1	8.043	8.047	-0.004	86170	1000.0	749.6	M
1	8.223	8.223	0.000	68794	1000.0	798.1	M
1	8.870	8.870	0.000	65514	1000.0	778.8	M
1	9.077	9.080	-0.003	72984	1000.0	821.3	M
1	9.590	9.593	-0.003	73948	1000.0	902.2	M

Average of Peak Amounts =

782.3

2	4.857	4.857	0.000	29773	1000.0	704.3	
2	5.500	5.500	0.000	58806	1000.0	732.7	M
2	5.843	5.843	0.000	37905	1000.0	763.4	M
2	6.307	6.307	0.000	97796	1000.0	646.0	M
2	6.537	6.533	0.004	46051	1000.0	699.0	M
2	6.633	6.637	-0.004	34034	1000.0	841.6	M
2	7.237	7.237	0.000	48971	1000.0	764.8	M
2	7.877	7.877	0.000	31628	1000.0	822.0	M

Average of Peak Amounts =

746.7

RPD = 4.65

8 PCB-1260

M

1	10.820	10.820	0.000	60275	1000.0	690.9	M
1	11.157	11.157	0.000	131973	1000.0	731.7	M
1	11.670	11.670	0.000	148410	1000.0	698.8	M
1	12.920	12.920	0.000	100785	1000.0	663.8	
1	13.707	13.707	0.000	91460	1000.0	622.9	
1	14.370	14.370	0.000	199459	1000.0	655.6	
1	15.200	15.200	0.000	145552	1000.0	666.4	
1	16.307	16.307	0.000	46927	1000.0	634.1	

Average of Peak Amounts =

670.5

2	9.257	9.257	0.000	67548	1000.0	698.5	M
2	10.157	10.153	0.004	111155	1000.0	707.0	M
2	10.363	10.360	0.003	44579	1000.0	584.0	M
2	10.803	10.800	0.003	48525	1000.0	605.6	M
2	11.477	11.473	0.004	111204	1000.0	612.5	M
2	12.157	12.157	0.000	54331	1000.0	577.9	
2	12.410	12.407	0.003	29565	1000.0	631.6	
2	13.900	13.900	0.000	26606	1000.0	577.5	

Average of Peak Amounts =

624.3

RPD = 7.14

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009995.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	95200	100.0	43.7	
2	15.013	15.013	0.000	77079	100.0	42.7	

RPD = 2.30

S 12 Polychlorinated biphenyls, Total

1						1452.8	

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009995.D

Injection Date: 06-Nov-2017 10:20:54

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-1-A MS

Worklist Smp#: 5

Client ID: MW-1S

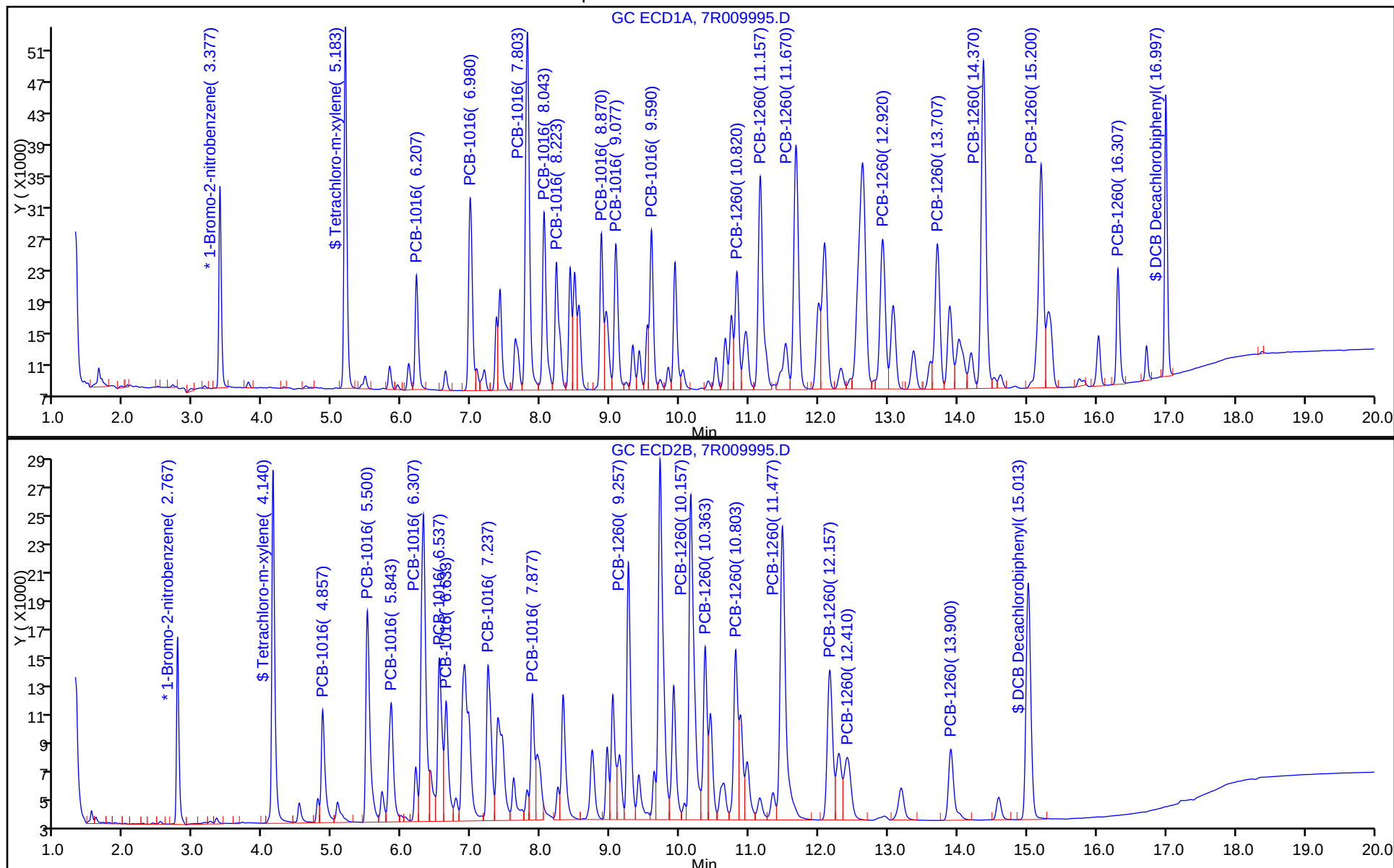
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009995.D

Injection Date: 06-Nov-2017 10:20:54

Instrument ID: CPESTGC7

Lims ID: 460-144244-F-1-A MS

Client ID: MW-1S

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

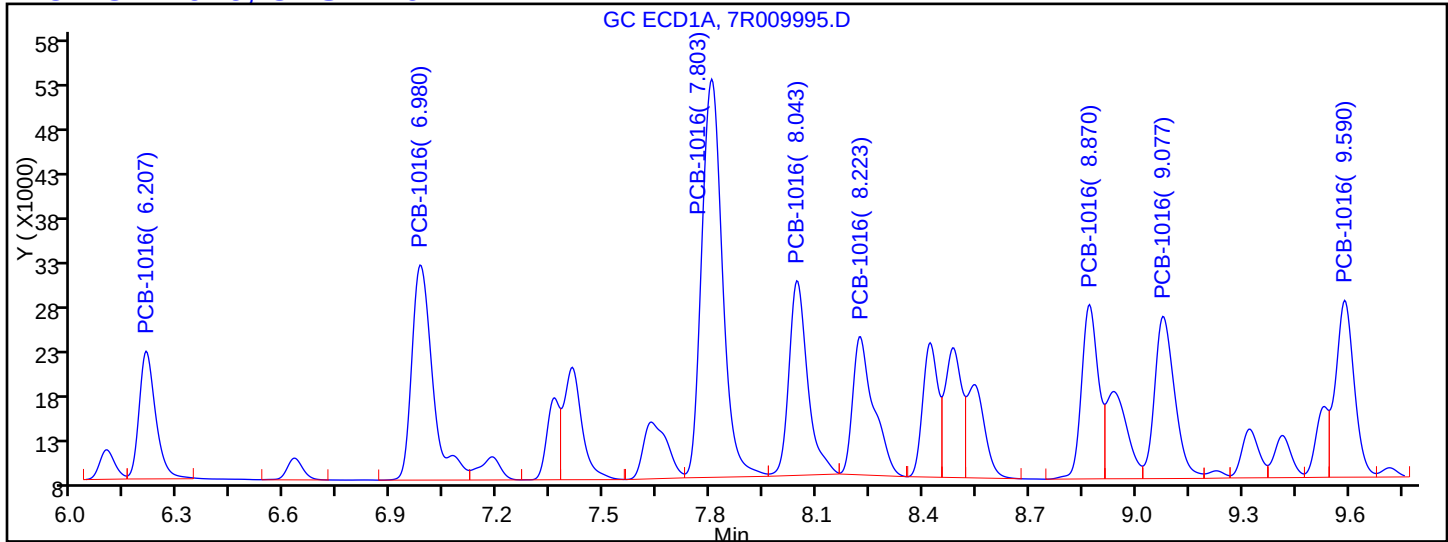
GC 8082A PCB ISTD

Column:

Detector

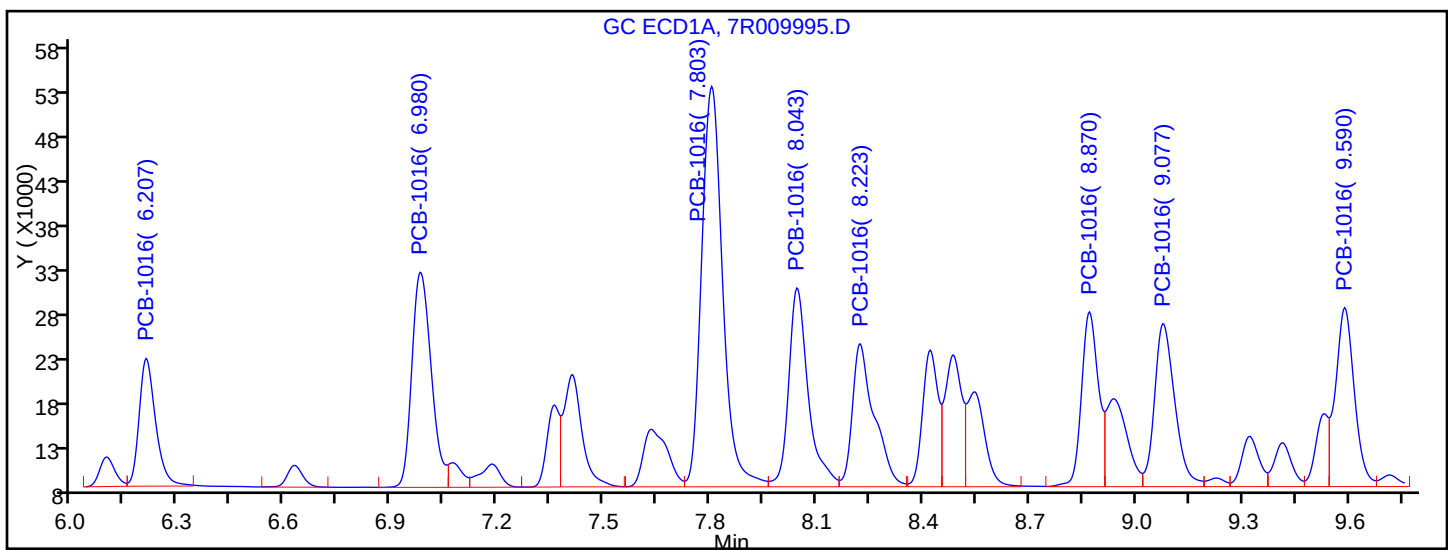
GC ECD1A

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



Processing Integration Results

6.207	Response = 46537
6.980	Response = 99445
7.803	Response = 182174
8.043	Response = 80278
8.223	Response = 63470
8.870	Response = 65024
9.077	Response = 71980
9.590	Response = 72012



Manual Integration Results

6.207	Response = 46537	
6.980	Response = 92167	M
7.803	Response = 186136	M
8.043	Response = 86170	M
8.223	Response = 68794	M
8.870	Response = 65514	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009995.D

Injection Date: 06-Nov-2017 10:20:54

Instrument ID: CPESTGC7

Lims ID: 460-144244-F-1-A MS

Client ID: MW-1S

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

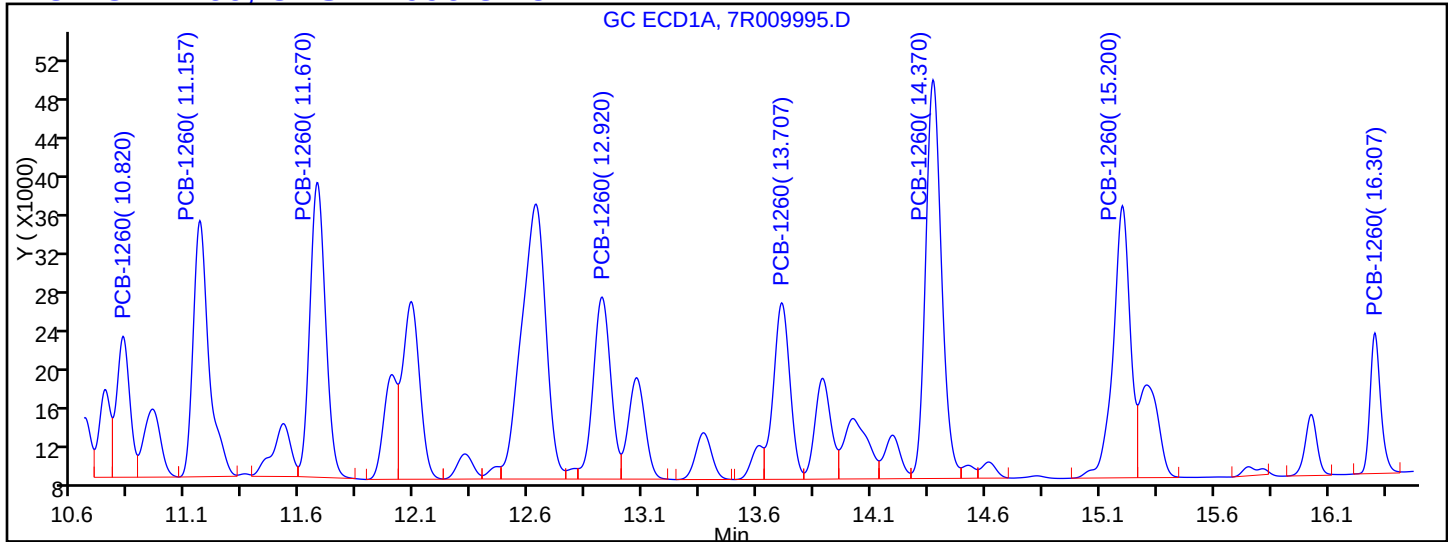
GC 8082A PCB ISTD

Column:

Detector

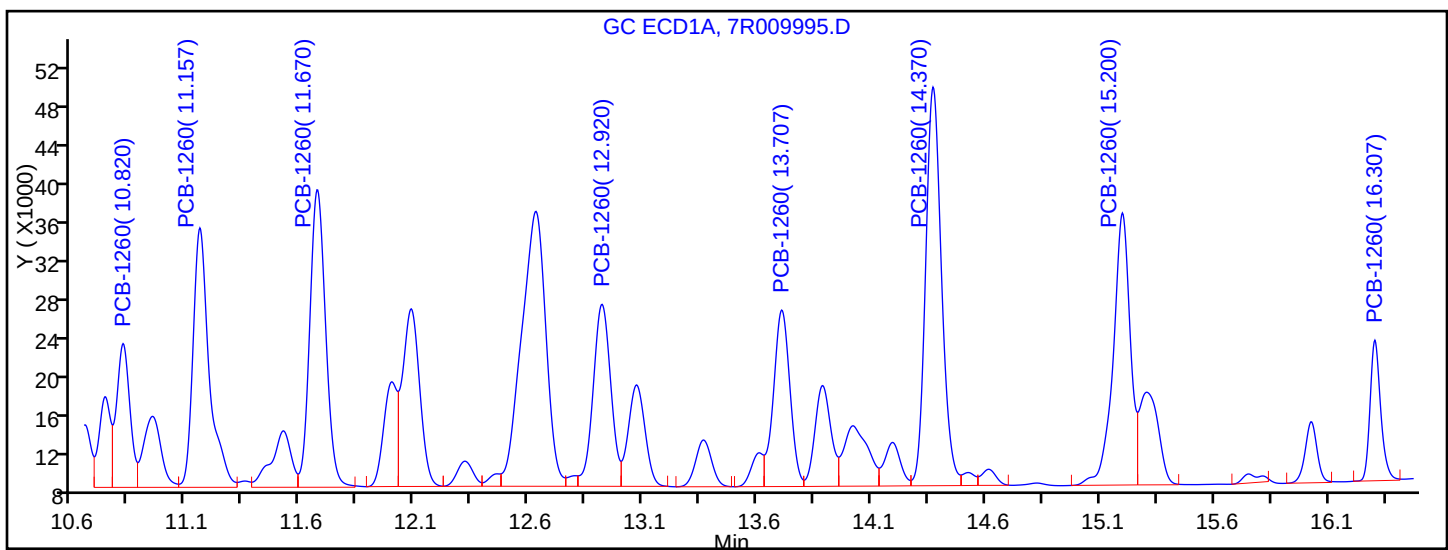
GC ECD1A

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



Processing Integration Results

10.820	Response = 58298
11.157	Response = 126498
11.670	Response = 144652
12.920	Response = 100785
13.707	Response = 91460
14.370	Response = 199459
15.200	Response = 145552
16.307	Response = 46927



Manual Integration Results

10.820	Response = 60275	M
11.157	Response = 131973	M
11.670	Response = 148410	M
12.920	Response = 100785	
13.707	Response = 91460	
14.370	Response = 199459	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1S MS</u>	Lab Sample ID: <u>460-144244-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R009995.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 10:20</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	2.99		0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	2.50		0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	5.49		0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	43		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009995.D
 Lims ID: 460-144244-F-1-A MS
 Client ID: MW-1S
 Sample Type: MS
 Inject. Date: 06-Nov-2017 10:20:54 ALS Bottle#: 8 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: patelji

Date: 06-Nov-2017 13:07:57

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.380	-0.003	62642	20.0	20.0	
2	2.767	2.767	0.000	30910	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	129441	100.0	47.0	
2	4.140	4.140	0.000	73156	100.0	44.2	
RPD = 6.00							

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009995.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.207	6.210	-0.003	46537	1000.0	731.7	
1	6.980	6.983	-0.003	92167	1000.0	724.8	M
1	7.803	7.803	0.000	186136	1000.0	751.7	M
1	8.043	8.047	-0.004	86170	1000.0	749.6	M
1	8.223	8.223	0.000	68794	1000.0	798.1	M
1	8.870	8.870	0.000	65514	1000.0	778.8	M
1	9.077	9.080	-0.003	72984	1000.0	821.3	M
1	9.590	9.593	-0.003	73948	1000.0	902.2	M

Average of Peak Amounts =

782.3

2	4.857	4.857	0.000	29773	1000.0	704.3	
2	5.500	5.500	0.000	58806	1000.0	732.7	M
2	5.843	5.843	0.000	37905	1000.0	763.4	M
2	6.307	6.307	0.000	97796	1000.0	646.0	M
2	6.537	6.533	0.004	46051	1000.0	699.0	M
2	6.633	6.637	-0.004	34034	1000.0	841.6	M
2	7.237	7.237	0.000	48971	1000.0	764.8	M
2	7.877	7.877	0.000	31628	1000.0	822.0	M

Average of Peak Amounts =

746.7

RPD = 4.65

8 PCB-1260

M

1	10.820	10.820	0.000	60275	1000.0	690.9	M
1	11.157	11.157	0.000	131973	1000.0	731.7	M
1	11.670	11.670	0.000	148410	1000.0	698.8	M
1	12.920	12.920	0.000	100785	1000.0	663.8	
1	13.707	13.707	0.000	91460	1000.0	622.9	
1	14.370	14.370	0.000	199459	1000.0	655.6	
1	15.200	15.200	0.000	145552	1000.0	666.4	
1	16.307	16.307	0.000	46927	1000.0	634.1	

Average of Peak Amounts =

670.5

2	9.257	9.257	0.000	67548	1000.0	698.5	M
2	10.157	10.153	0.004	111155	1000.0	707.0	M
2	10.363	10.360	0.003	44579	1000.0	584.0	M
2	10.803	10.800	0.003	48525	1000.0	605.6	M
2	11.477	11.473	0.004	111204	1000.0	612.5	M
2	12.157	12.157	0.000	54331	1000.0	577.9	
2	12.410	12.407	0.003	29565	1000.0	631.6	
2	13.900	13.900	0.000	26606	1000.0	577.5	

Average of Peak Amounts =

624.3

RPD = 7.14

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009995.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	95200	100.0	43.7
2	15.013	15.013	0.000	77079	100.0	42.7

RPD = 2.30

S 12 Polychlorinated biphenyls, Total

1						1452.8

QC Flag Legend

Review Flags

M - Manually Integrated

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009995.D

Injection Date: 06-Nov-2017 10:20:54

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-1-A MS

Worklist Smp#: 5

Client ID: MW-1S

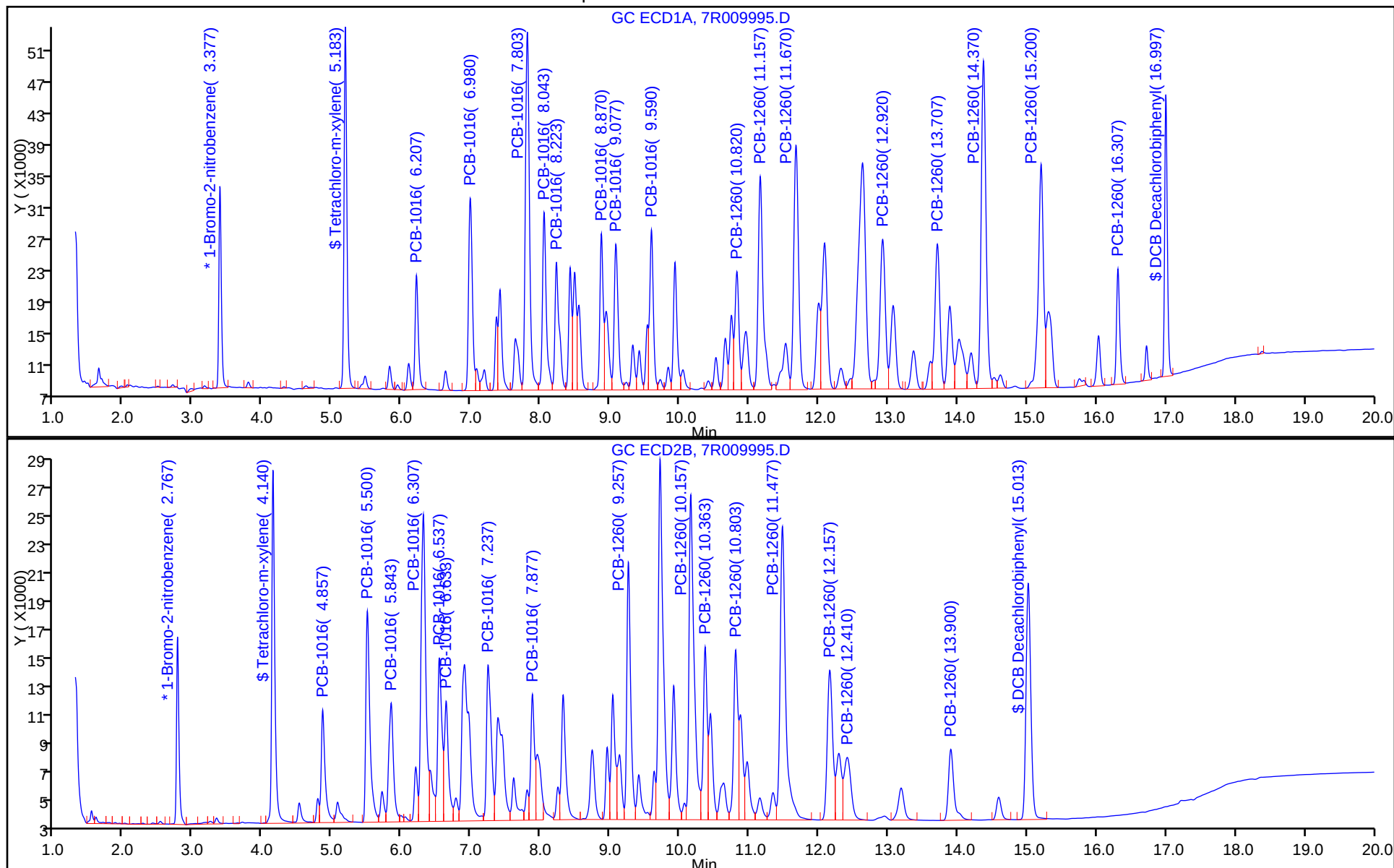
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009995.D

Injection Date: 06-Nov-2017 10:20:54

Instrument ID: CPESTGC7

Lims ID: 460-144244-F-1-A MS

Client ID: MW-1S

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

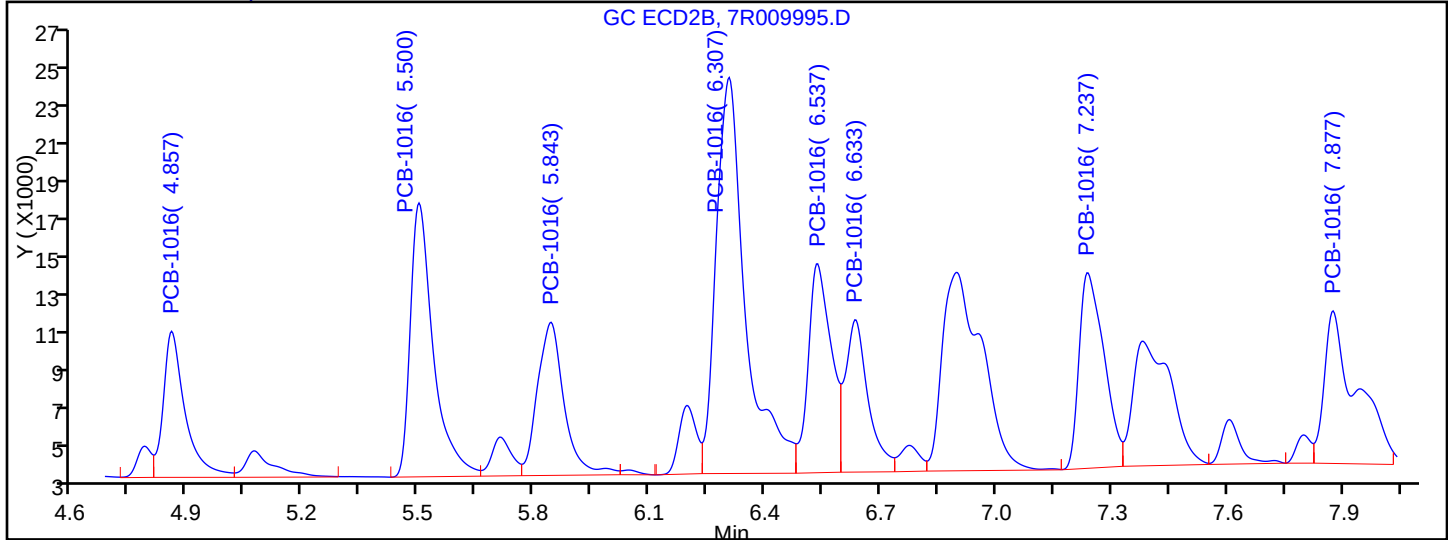
GC 8082A PCB ISTD

Column:

Detector

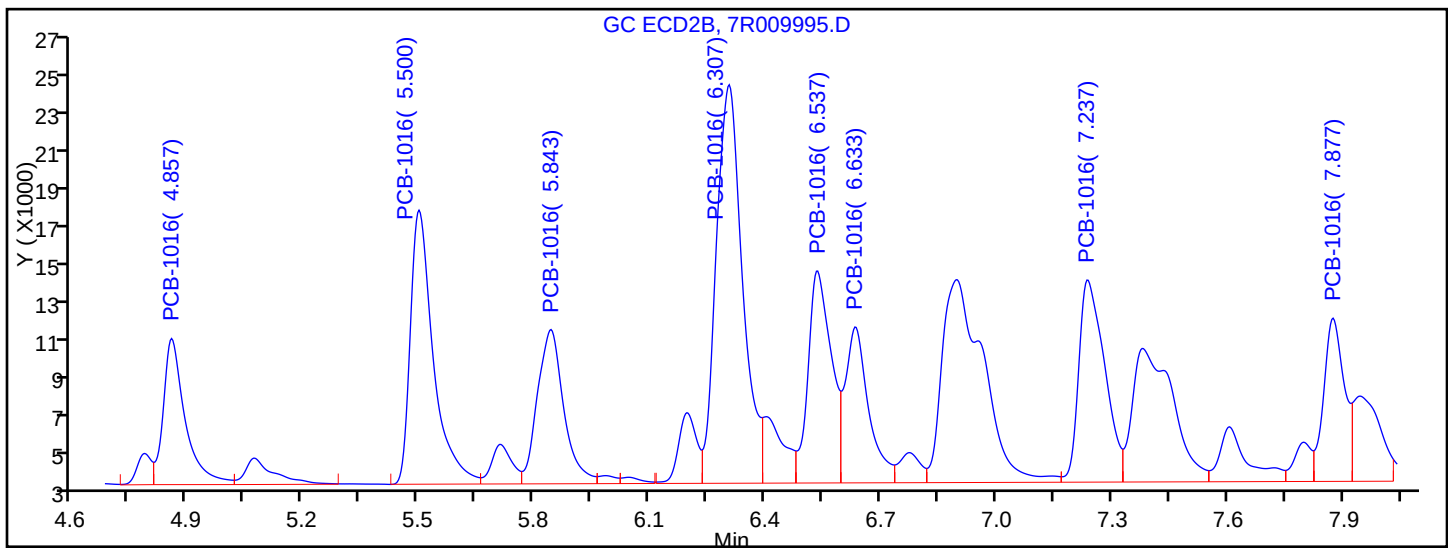
GC ECD2B

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



Processing Integration Results

4.857	Response = 29773
5.500	Response = 58631
5.843	Response = 38183
6.307	Response = 108779
6.537	Response = 44962
6.633	Response = 32480
7.237	Response = 45602
7.877	Response = 46035



Manual Integration Results

4.857	Response = 29773	
5.500	Response = 58806	M
5.843	Response = 37905	M
6.307	Response = 97796	M
6.537	Response = 46051	M
6.633	Response = 34034	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009995.D

Injection Date: 06-Nov-2017 10:20:54

Instrument ID: CPESTGC7

Lims ID: 460-144244-F-1-A MS

Client ID: MW-1S

Operator ID:

ALS Bottle#:

8

Worklist Smp#:

5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 8082.ISTD

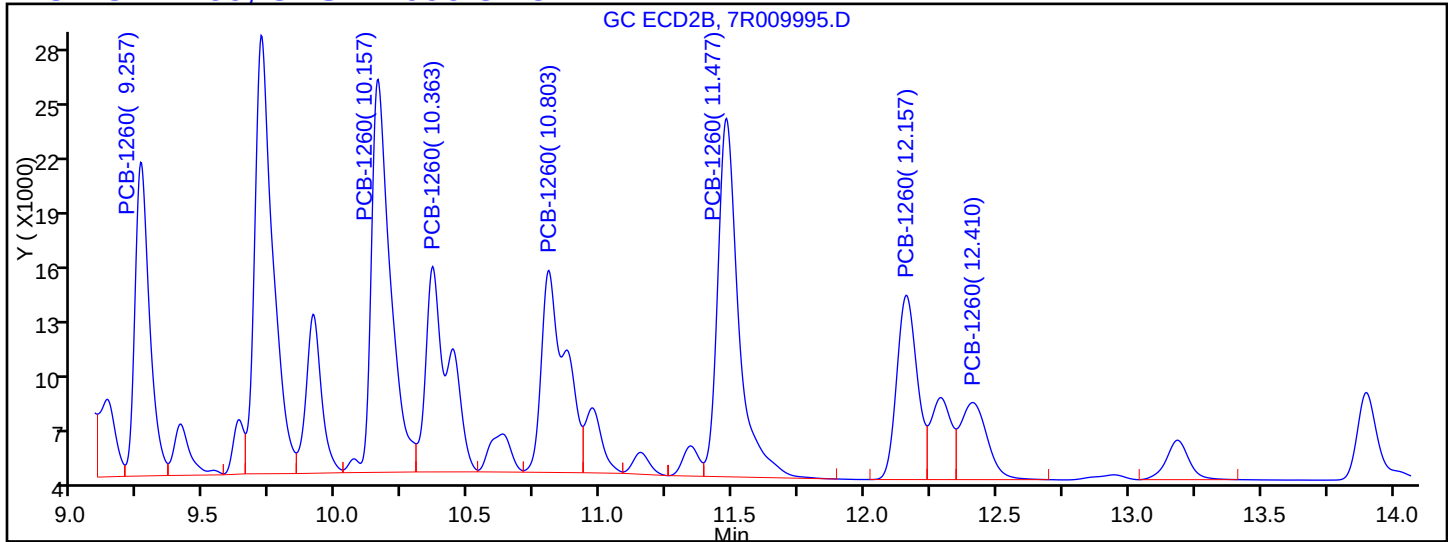
Limit Group: GC 8082A PCB ISTD

Column:

Detector

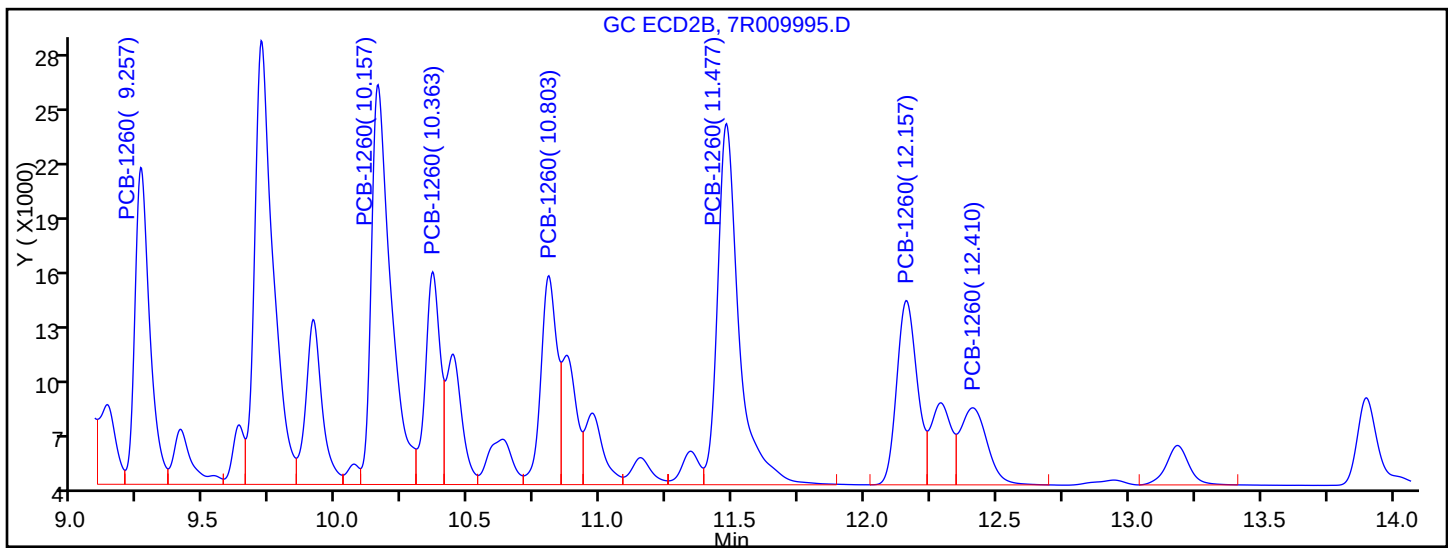
GC ECD2B

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



Processing Integration Results

9.257	Response = 65877
10.157	Response = 108408
10.363	Response = 68541
10.803	Response = 70220
11.477	Response = 108168
12.157	Response = 54331
12.410	Response = 29565
13.900	Response = 26606



Manual Integration Results

9.257	Response = 67548	M
10.157	Response = 111155	M
10.363	Response = 44579	M
10.803	Response = 48525	M
11.477	Response = 111204	M
12.157	Response = 54331	M

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1S MSD</u>	Lab Sample ID: <u>460-144244-1 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R009996.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 10:44</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-2</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	3.10		0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	2.67		0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	5.77		0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	46		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009996.D
 Lims ID: 460-144244-F-1-B MSD
 Client ID: MW-1S
 Sample Type: MSD
 Inject. Date: 06-Nov-2017 10:44:12 ALS Bottle#: 9 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: patelji

Date: 06-Nov-2017 13:07:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.380	-0.003	63190	20.0	20.0	
2	2.767	2.767	0.000	32133	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	130569	100.0	47.0	
2	4.143	4.140	0.003	73678	100.0	42.8	
RPD = 9.16							

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009996.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

							M
1	6.207	6.210	-0.003	44920		700.1	
1	6.980	6.983	-0.003	91699		714.8	M
1	7.803	7.803	0.000	188788		755.8	
1	8.043	8.047	-0.004	87246		752.4	
1	8.220	8.223	-0.003	69271		796.7	
1	8.870	8.870	0.000	64983		765.8	
1	9.077	9.080	-0.003	73540		820.4	M
1	9.590	9.593	-0.003	74275		898.3	

Average of Peak Amounts =

						775.5	
2	4.857	4.857	0.000	29725		676.4	
2	5.500	5.500	0.000	59057		707.8	M
2	5.843	5.843	0.000	38005		736.3	M
2	6.307	6.307	0.000	98900		628.4	M
2	6.537	6.533	0.004	46246		675.2	M
2	6.633	6.637	-0.004	34706		825.5	M
2	7.240	7.237	0.003	49715		746.9	M
2	7.877	7.877	0.000	30866		771.7	M

Average of Peak Amounts =

RPD = 7.28

8 PCB-1260

							M
1	10.820	10.820	0.000	61409		697.8	M
1	11.157	11.157	0.000	133508		733.8	M
1	11.670	11.670	0.000	150262		701.4	M
1	12.920	12.920	0.000	101628		663.5	M
1	13.707	13.707	0.000	89609		605.0	
1	14.370	14.370	0.000	199839		651.1	
1	15.200	15.200	0.000	146319		664.1	
1	16.307	16.307	0.000	47177		631.9	

Average of Peak Amounts =

						668.6	
2	9.257	9.257	0.000	67265		669.1	
2	10.157	10.153	0.004	110415		675.6	M
2	10.363	10.360	0.003	45537		573.8	M
2	10.803	10.800	0.003	48402		581.0	M
2	11.477	11.473	0.004	110238		584.1	
2	12.157	12.157	0.000	54089		553.5	
2	12.410	12.407	0.003	29719		610.7	
2	13.900	13.900	0.000	26698		557.4	

Average of Peak Amounts =

RPD = 10.70

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009996.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	100210	100.0	45.6	
2	15.017	15.013	0.004	81324	100.0	43.4	
RPD = 5.08							

S 12 Polychlorinated biphenyls, Total

1						1444.1	
16 1260 Res 1							
2	12.157	12.177	-0.020	54089		NR	
14 1260 Res 2							
2	12.287	12.307	-0.020	24090		NR	
15 1260 Res 3							
2	12.410	12.427	-0.017	29719		NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

SGPCBISTD_00009 Amount Added: 20.00 Units: uL Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009996.D

Injection Date: 06-Nov-2017 10:44:12

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-1-B MSD

Worklist Smp#: 6

Client ID: MW-1S

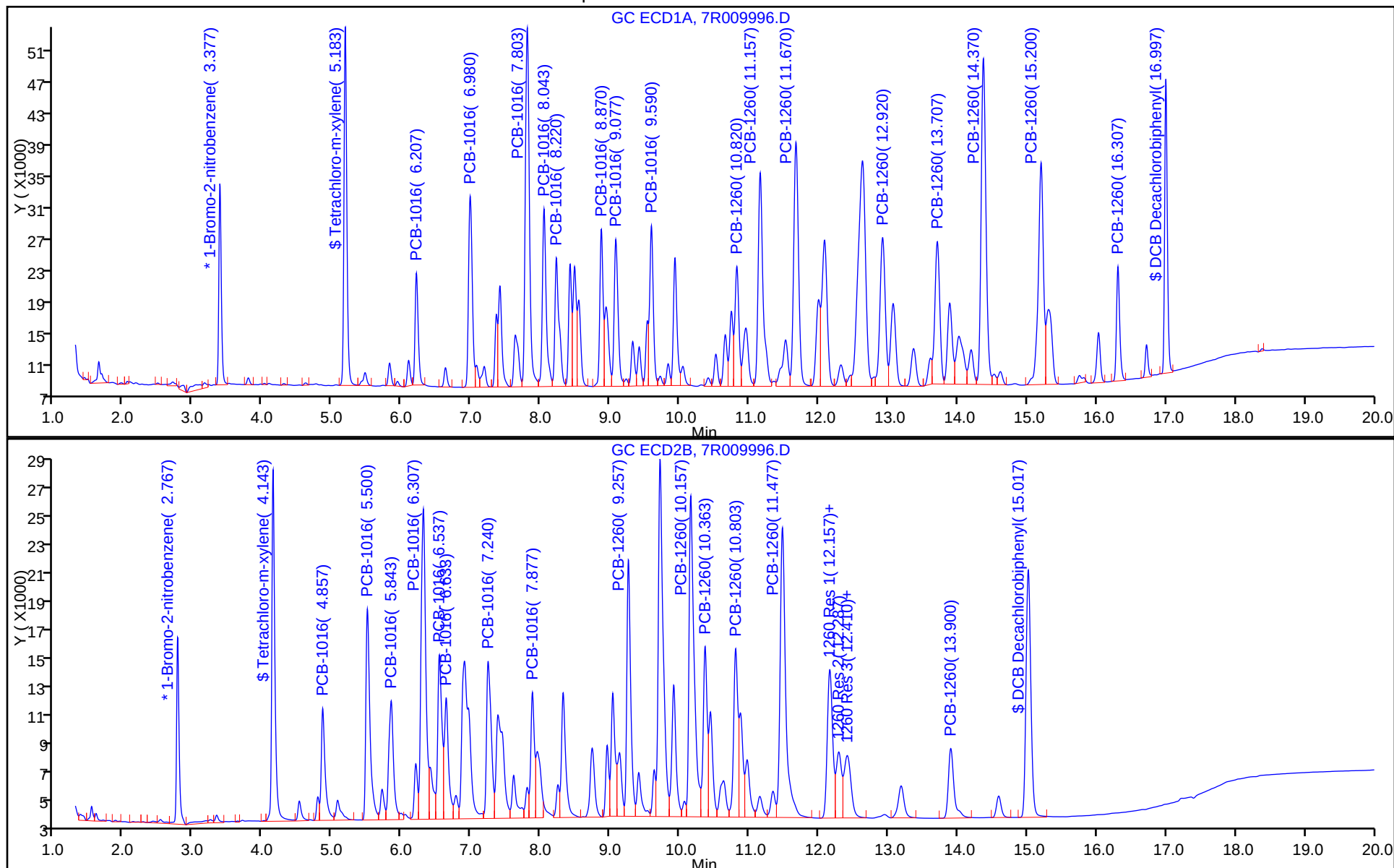
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



Detector GC ECD1A

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009996.D

Injection Date: 06-Nov-2017 10:44:12

Instrument ID: CPESTGC7

Lims ID: 460-144244-F-1-B MSD

Client ID: MW-1S

Operator ID:

ALS Bottle#:

9

Worklist Smp#:

6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

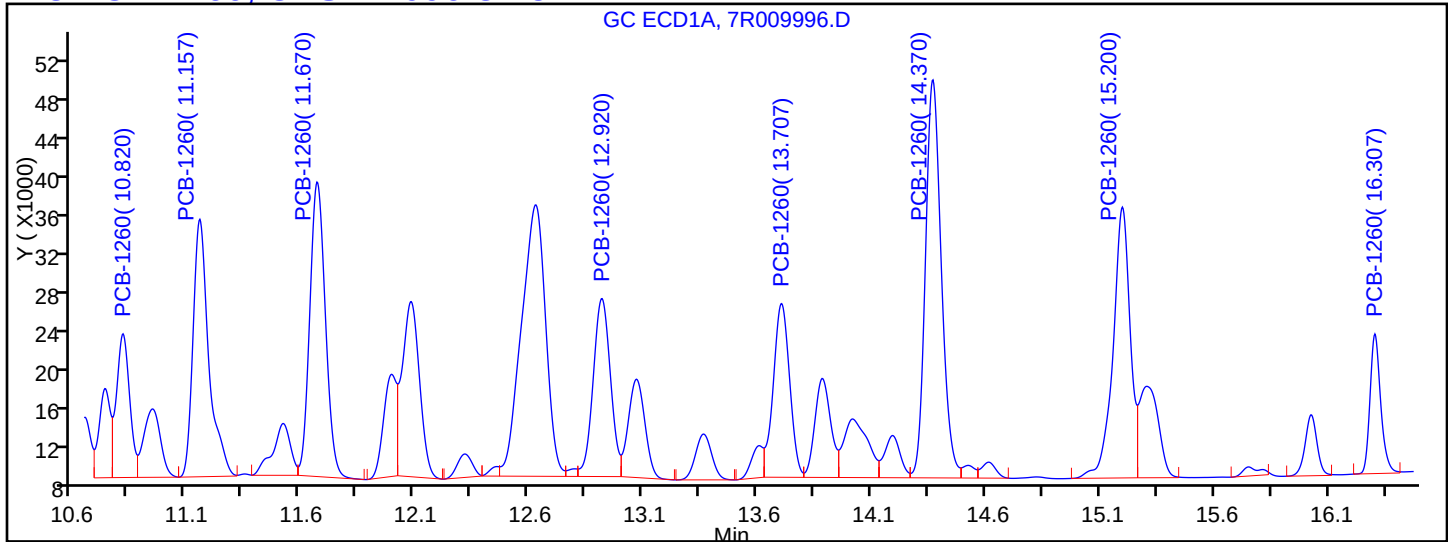
GC 8082A PCB ISTD

Column:

Detector

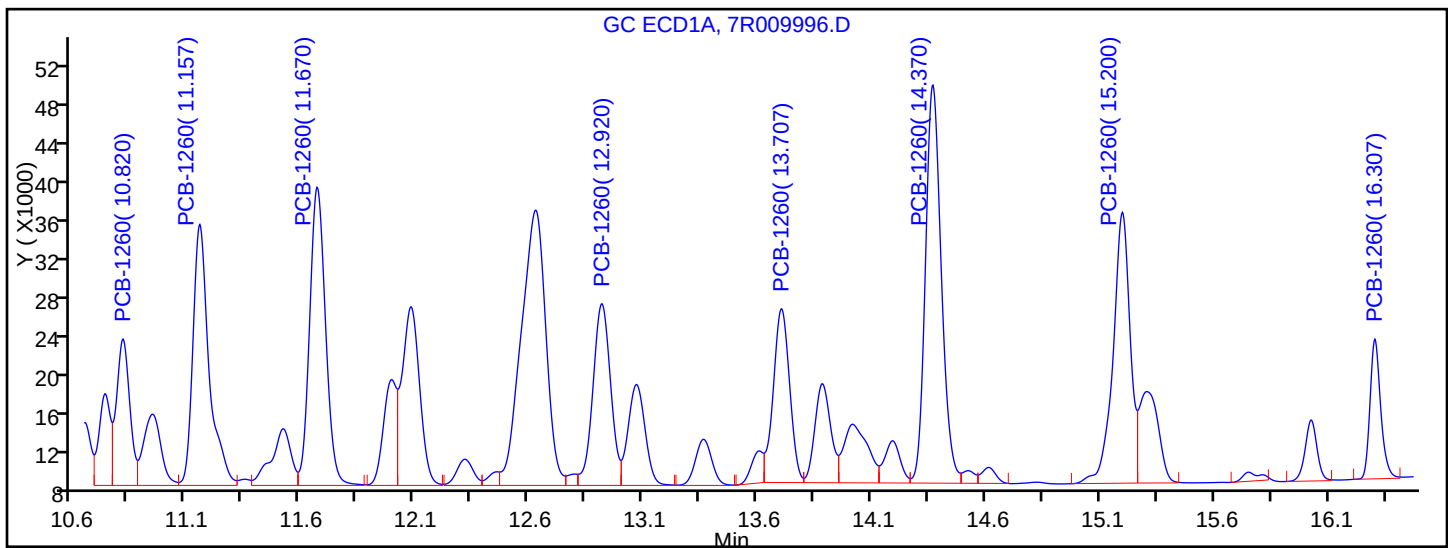
GC ECD1A

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



Processing Integration Results

10.820	Response = 59601
11.157	Response = 127848
11.670	Response = 145381
12.920	Response = 97353
13.707	Response = 89609
14.370	Response = 199839
15.200	Response = 146319
16.307	Response = 47177



Manual Integration Results

10.820	Response = 61409	M
11.157	Response = 133508	M
11.670	Response = 150262	M
12.920	Response = 101628	M
13.707	Response = 89609	
14.370	Response = 199839	

FORM I
PCBS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Edison</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1S MSD</u>	Lab Sample ID: <u>460-144244-1 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>7R009996.D</u>
Analysis Method: <u>8082A</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>3510C</u>	Date Extracted: <u>11/04/2017 09:36</u>
Sample wt/vol: <u>250 (mL)</u>	Date Analyzed: <u>11/06/2017 10:44</u>
Con. Extract Vol.: <u>1 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>CLP-1</u> ID: <u>0.53 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>474852</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
12674-11-2	Aroclor 1016	2.88		0.40	0.10
11104-28-2	Aroclor 1221	0.40	U	0.40	0.10
11141-16-5	Aroclor 1232	0.40	U	0.40	0.10
53469-21-9	Aroclor 1242	0.40	U	0.40	0.10
12672-29-6	Aroclor 1248	0.40	U	0.40	0.10
11097-69-1	Aroclor 1254	0.40	U	0.40	0.099
11096-82-5	Aroclor 1260	2.40		0.40	0.099
37324-23-5	Aroclor-1262	0.40	U	0.40	0.099
11100-14-4	Aroclor 1268	0.40	U	0.40	0.099
1336-36-3	Polychlorinated biphenyls, Total	5.28		0.40	0.10

CAS NO.	SURROGATE	%REC	Q	LIMITS
2051-24-3	DCB Decachlorobiphenyl	43		10-150

TestAmerica Edison
Target Compound Quantitation Report

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009996.D
 Lims ID: 460-144244-F-1-B MSD
 Client ID: MW-1S
 Sample Type: MSD
 Inject. Date: 06-Nov-2017 10:44:12 ALS Bottle#: 9 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info:
 Operator ID: Instrument ID: CPESTGC7
 Method: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\8082.ISTD.m
 Limit Group: GC 8082A PCB ISTD
 Last Update: 06-Nov-2017 14:56:50 Calib Date: 29-Jul-2017 17:20:57
 Integrator: Falcon
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Edison\ChromData\CPESTGC7\20170729-58345.b\7R006202.D
 Column 1 : Det: GC ECD1A
 Column 2 : Det: GC ECD2B
 Process Host: XAWRK012

First Level Reviewer: patelji

Date: 06-Nov-2017 13:07:19

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

* 13 1-Bromo-2-nitrobenzene

1	3.377	3.380	-0.003	63190	20.0	20.0	
2	2.767	2.767	0.000	32133	20.0	20.0	
RPD = 0.00							

\$ 2 Tetrachloro-m-xylene

1	5.183	5.183	0.000	130569	100.0	47.0	
2	4.143	4.140	0.003	73678	100.0	42.8	
RPD = 9.16							

Data File: \\ChromNA\Edison\ChromData\CPESTGC7\20171106-62962.b\7R009996.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

5 PCB-1016

M

1	6.207	6.210	-0.003	44920	700.1		
1	6.980	6.983	-0.003	91699	714.8		M
1	7.803	7.803	0.000	188788	755.8		
1	8.043	8.047	-0.004	87246	752.4		
1	8.220	8.223	-0.003	69271	796.7		
1	8.870	8.870	0.000	64983	765.8		
1	9.077	9.080	-0.003	73540	820.4		M
1	9.590	9.593	-0.003	74275	898.3		

Average of Peak Amounts =

775.5

2	4.857	4.857	0.000	29725	676.4		
2	5.500	5.500	0.000	59057	707.8		M
2	5.843	5.843	0.000	38005	736.3		M
2	6.307	6.307	0.000	98900	628.4		M
2	6.537	6.533	0.004	46246	675.2		M
2	6.633	6.637	-0.004	34706	825.5		M
2	7.240	7.237	0.003	49715	746.9		M
2	7.877	7.877	0.000	30866	771.7		M

Average of Peak Amounts =

721.0

RPD = 7.28

8 PCB-1260

M

1	10.820	10.820	0.000	61409	697.8		M
1	11.157	11.157	0.000	133508	733.8		M
1	11.670	11.670	0.000	150262	701.4		M
1	12.920	12.920	0.000	101628	663.5		M
1	13.707	13.707	0.000	89609	605.0		
1	14.370	14.370	0.000	199839	651.1		
1	15.200	15.200	0.000	146319	664.1		
1	16.307	16.307	0.000	47177	631.9		

Average of Peak Amounts =

668.6

2	9.257	9.257	0.000	67265	669.1		
2	10.157	10.153	0.004	110415	675.6		M
2	10.363	10.360	0.003	45537	573.8		M
2	10.803	10.800	0.003	48402	581.0		M
2	11.477	11.473	0.004	110238	584.1		
2	12.157	12.157	0.000	54089	553.5		
2	12.410	12.407	0.003	29719	610.7		
2	13.900	13.900	0.000	26698	557.4		

Average of Peak Amounts =

600.7

RPD = 10.70

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009996.D

Col	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Response	Cal Amt ug/l	OnCol Amt ug/l	Flags

\$ 11 DCB Decachlorobiphenyl

1	16.997	16.997	0.000	100210	100.0	45.6	
2	15.017	15.013	0.004	81324	100.0	43.4	
RPD = 5.08							

S 12 Polychlorinated biphenyls, Total

1						1444.1	
16 1260 Res 1							
2	12.157	12.177	-0.020	54089		NR	
14 1260 Res 2							
2	12.287	12.307	-0.020	24090		NR	
15 1260 Res 3							
2	12.410	12.427	-0.017	29719		NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Review Flags

M - Manually Integrated

Reagents:

SGPCBISTD_00009

Amount Added: 20.00

Units: uL

Run Reagent

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009996.D

Injection Date: 06-Nov-2017 10:44:12

Instrument ID: CPESTGC7

Operator ID:

Lims ID: 460-144244-F-1-B MSD

Worklist Smp#: 6

Client ID: MW-1S

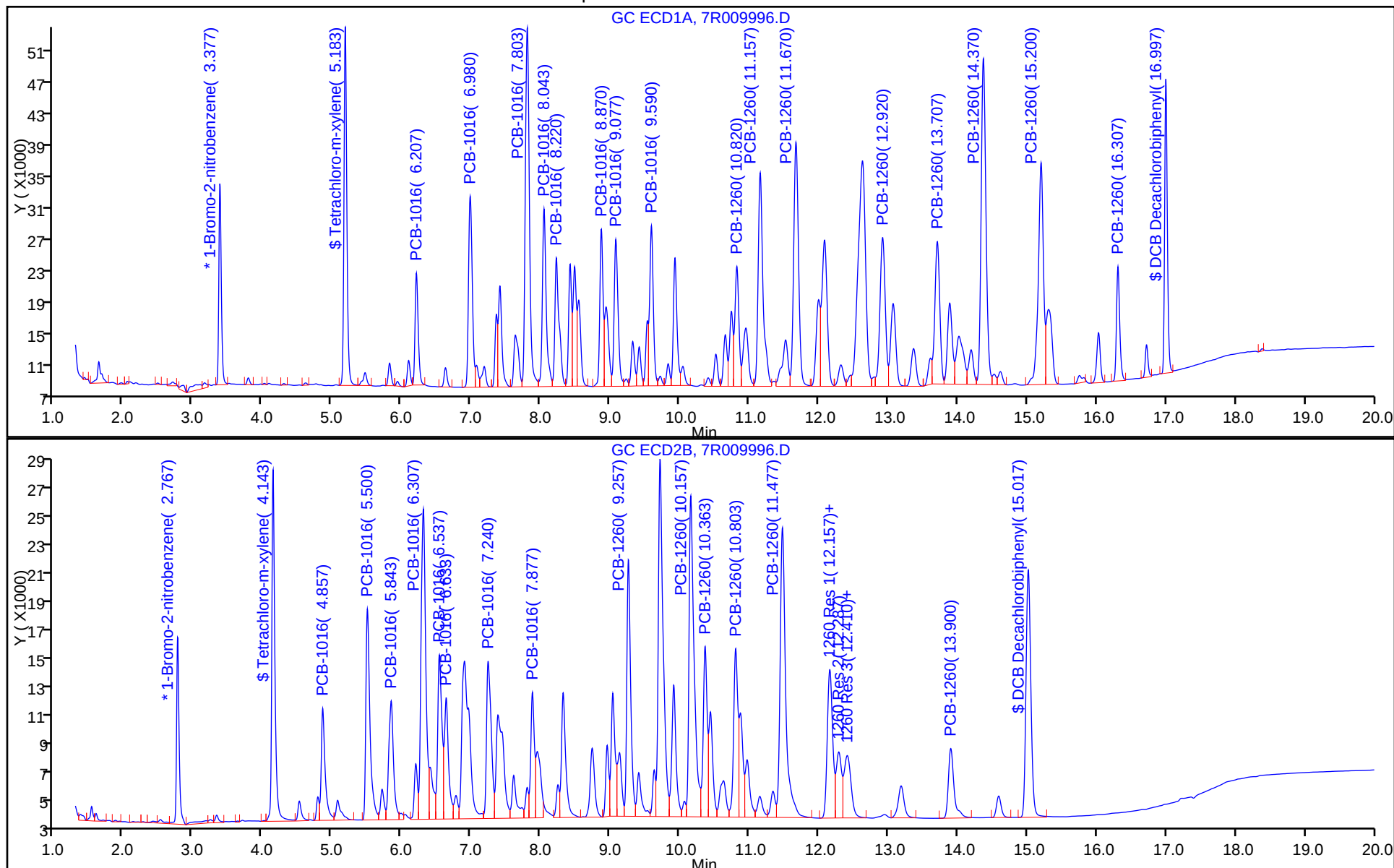
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD



TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009996.D

Injection Date: 06-Nov-2017 10:44:12

Instrument ID: CPESTGC7

Lims ID: 460-144244-F-1-B MSD

Client ID: MW-1S

Operator ID:

ALS Bottle#:

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

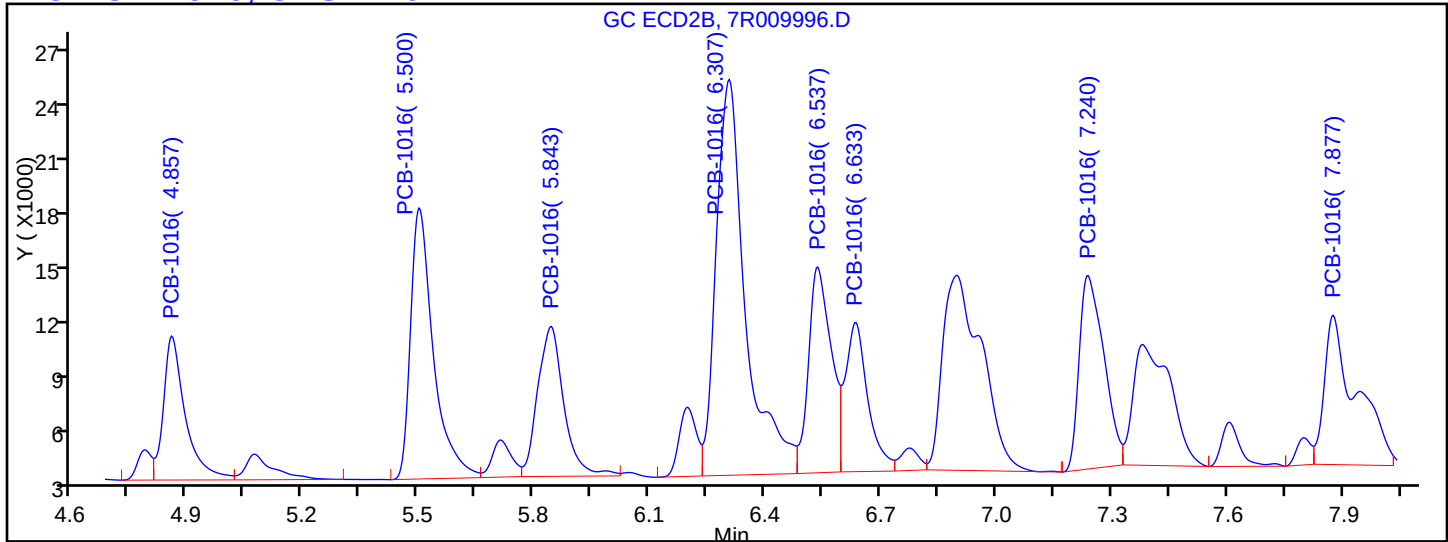
Method: 8082.ISTD

Limit Group: GC 8082A PCB ISTD

Column:

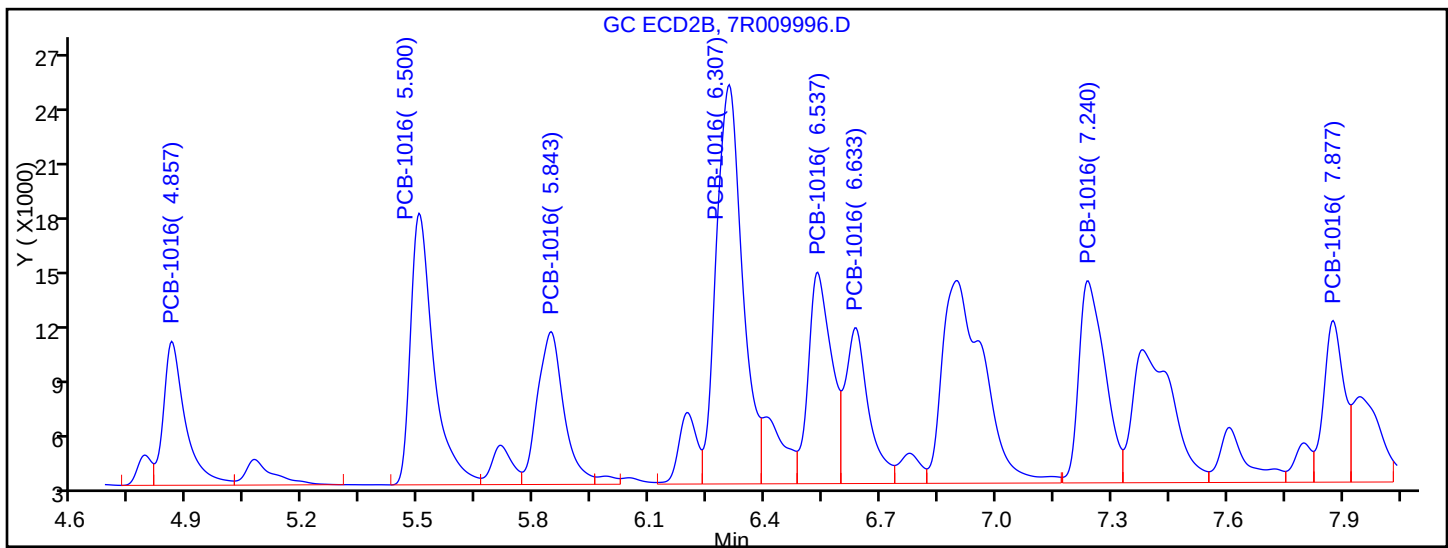
Detector GC ECD2B

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



Processing Integration Results

4.857	Response = 29725
5.500	Response = 58406
5.843	Response = 37174
6.307	Response = 110139
6.537	Response = 44230
6.633	Response = 31728
7.240	Response = 45236
7.877	Response = 44903



Manual Integration Results

4.857	Response = 29725	
5.500	Response = 59057	M
5.843	Response = 38005	M
6.307	Response = 98900	M
6.537	Response = 46246	M
6.633	Response = 34706	M

TestAmerica Edison

Data File: \\ChromNA\\Edison\\ChromData\\CPESTGC7\\20171106-62962.b\\7R009996.D

Injection Date: 06-Nov-2017 10:44:12

Instrument ID: CPESTGC7

Lims ID: 460-144244-F-1-B MSD

Client ID: MW-1S

Operator ID:

ALS Bottle#:

9

Worklist Smp#:

6

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 8082.ISTD

Limit Group:

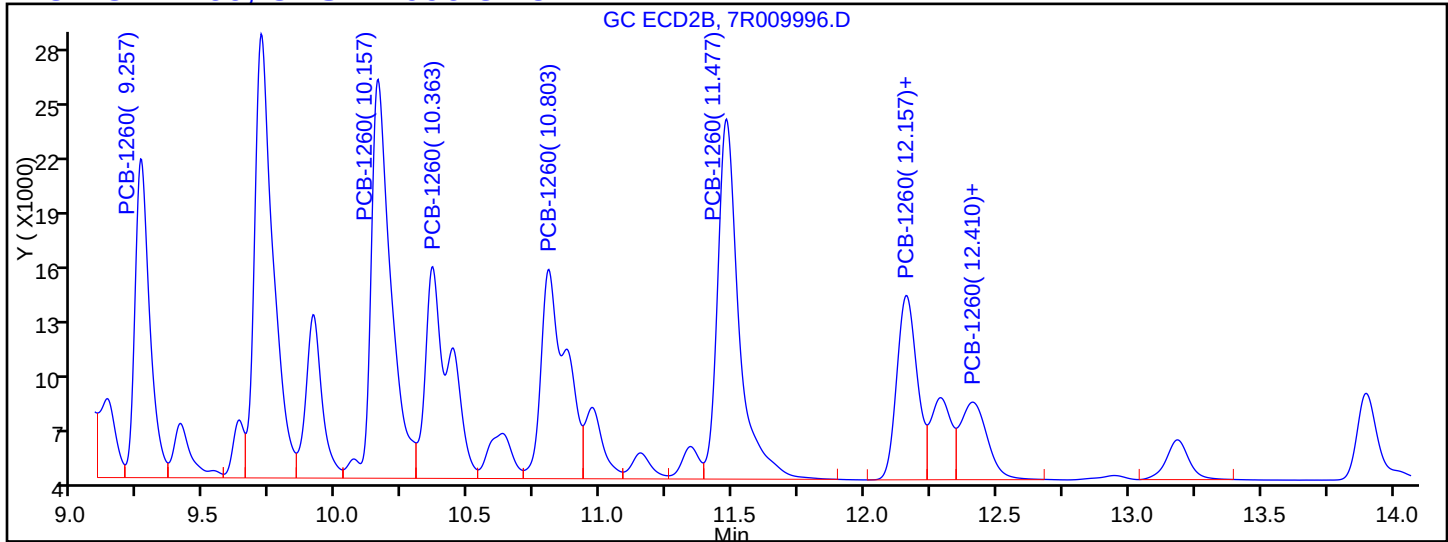
GC 8082A PCB ISTD

Column:

Detector

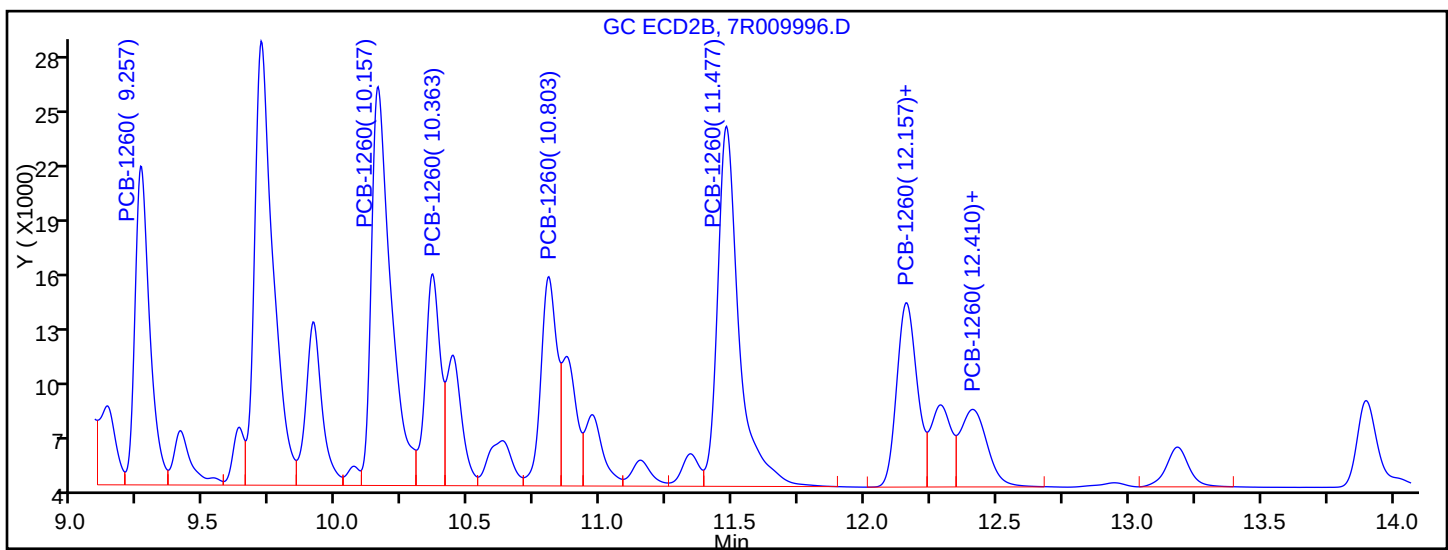
GC ECD2B

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



Processing Integration Results

9.257	Response = 67265
10.157	Response = 113807
10.363	Response = 73697
10.803	Response = 75083
11.477	Response = 110238
12.157	Response = 54089
12.410	Response = 29719
13.900	Response = 26698



Manual Integration Results

9.257	Response = 67265
10.157	Response = 110415
10.363	Response = 45537
10.803	Response = 48402
11.477	Response = 110238
12.157	Response = 54089

M

M

M

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-144244-1

SDG No.: _____

Instrument ID: CPESTGC7 Start Date: 07/29/2017 11:27Analysis Batch Number: 452720 End Date: 07/29/2017 17:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		07/29/2017 11:27	1		CLP-2 0.53 (mm)
ZZZZZ		07/29/2017 11:27	1		CLP-1 0.53 (mm)
IC 460-452720/2		07/29/2017 11:50	1	7R006190.D	CLP-2 0.53 (mm)
IC 460-452720/2		07/29/2017 11:50	1	7R006190.D	CLP-1 0.53 (mm)
IC 460-452720/3		07/29/2017 12:14	1	7R006191.D	CLP-2 0.53 (mm)
IC 460-452720/3		07/29/2017 12:14	1	7R006191.D	CLP-1 0.53 (mm)
IC 460-452720/4 ICRT		07/29/2017 12:38	1	7R006192.D	CLP-2 0.53 (mm)
IC 460-452720/4 ICRT		07/29/2017 12:38	1	7R006192.D	CLP-1 0.53 (mm)
IC 460-452720/5		07/29/2017 13:01	1	7R006193.D	CLP-2 0.53 (mm)
IC 460-452720/5		07/29/2017 13:01	1	7R006193.D	CLP-1 0.53 (mm)
IC 460-452720/6		07/29/2017 13:25	1	7R006194.D	CLP-2 0.53 (mm)
IC 460-452720/6		07/29/2017 13:25	1	7R006194.D	CLP-1 0.53 (mm)
ICV 460-452720/7		07/29/2017 14:35	1		CLP-2 0.53 (mm)
ICV 460-452720/7		07/29/2017 14:35	1		CLP-1 0.53 (mm)
IC 460-452720/8		07/29/2017 14:59	1	7R006196.D	CLP-2 0.53 (mm)
IC 460-452720/8		07/29/2017 14:59	1	7R006196.D	CLP-1 0.53 (mm)
IC 460-452720/9		07/29/2017 15:23	1	7R006197.D	CLP-2 0.53 (mm)
IC 460-452720/9		07/29/2017 15:23	1	7R006197.D	CLP-1 0.53 (mm)
IC 460-452720/10		07/29/2017 15:46	1	7R006198.D	CLP-2 0.53 (mm)
IC 460-452720/10		07/29/2017 15:46	1	7R006198.D	CLP-1 0.53 (mm)
IC 460-452720/11		07/29/2017 16:10	1	7R006199.D	CLP-2 0.53 (mm)
IC 460-452720/11		07/29/2017 16:10	1	7R006199.D	CLP-1 0.53 (mm)
IC 460-452720/12		07/29/2017 16:33	1	7R006200.D	CLP-2 0.53 (mm)
IC 460-452720/12		07/29/2017 16:33	1	7R006200.D	CLP-1 0.53 (mm)
IC 460-452720/13		07/29/2017 16:57	1	7R006201.D	CLP-2 0.53 (mm)
IC 460-452720/13		07/29/2017 16:57	1	7R006201.D	CLP-1 0.53 (mm)
IC 460-452720/14		07/29/2017 17:20	1	7R006202.D	CLP-2 0.53 (mm)
IC 460-452720/14		07/29/2017 17:20	1	7R006202.D	CLP-1 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-144244-1

SDG No.: _____

Instrument ID: CPESTGC7Start Date: 11/06/2017 08:12Analysis Batch Number: 474852End Date: 11/07/2017 06:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/06/2017 08:12	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 08:12	1		CLP-1 0.53 (mm)
CCVIS 460-474852/2		11/06/2017 08:36	1	7R009992.D	CLP-2 0.53 (mm)
CCVIS 460-474852/2		11/06/2017 08:36	1	7R009992.D	CLP-1 0.53 (mm)
MB 460-474606/1-A		11/06/2017 09:33	1	7R009993.D	CLP-2 0.53 (mm)
MB 460-474606/1-A		11/06/2017 09:33	1	7R009993.D	CLP-1 0.53 (mm)
LCS 460-474606/2-A		11/06/2017 09:57	1	7R009994.D	CLP-2 0.53 (mm)
LCS 460-474606/2-A		11/06/2017 09:57	1	7R009994.D	CLP-1 0.53 (mm)
460-144244-1 MS		11/06/2017 10:20	1	7R009995.D	CLP-2 0.53 (mm)
460-144244-1 MS		11/06/2017 10:20	1	7R009995.D	CLP-1 0.53 (mm)
460-144244-1 MSD		11/06/2017 10:44	1	7R009996.D	CLP-2 0.53 (mm)
460-144244-1 MSD		11/06/2017 10:44	1	7R009996.D	CLP-1 0.53 (mm)
460-144244-1		11/06/2017 11:08	1	7R009997.D	CLP-2 0.53 (mm)
460-144244-1		11/06/2017 11:08	1	7R009997.D	CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 11:31	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 11:31	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 12:26	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 12:26	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 12:50	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 12:50	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 13:13	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 13:13	1		CLP-1 0.53 (mm)
CCV 460-474852/12		11/06/2017 13:37	1		CLP-2 0.53 (mm)
CCV 460-474852/12		11/06/2017 13:37	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 14:00	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 14:00	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 14:34	10		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 14:34	10		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 14:58	5		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 14:58	5		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 15:21	25		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 15:21	25		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 15:45	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 15:45	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 16:09	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 16:09	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 16:32	10		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 16:32	10		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 17:00	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 17:00	1		CLP-1 0.53 (mm)
CCVIS 460-474852/21		11/06/2017 17:41	1	7R010011.D	CLP-2 0.53 (mm)
CCVIS 460-474852/21		11/06/2017 17:41	1	7R010011.D	CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 18:05	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 18:05	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 18:28	1		CLP-2 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica EdisonJob No.: 460-144244-1

SDG No.: _____

Instrument ID: CPESTGC7Start Date: 11/06/2017 08:12Analysis Batch Number: 474852End Date: 11/07/2017 06:20

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/06/2017 18:28	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 18:52	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 18:52	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 19:16	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 19:16	1		CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 19:39	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 19:39	1		CLP-1 0.53 (mm)
460-144244-2		11/06/2017 20:03	1	7R010017.D	CLP-2 0.53 (mm)
460-144244-2		11/06/2017 20:03	1	7R010017.D	CLP-1 0.53 (mm)
460-144244-3		11/06/2017 20:27	1	7R010018.D	CLP-2 0.53 (mm)
460-144244-3		11/06/2017 20:27	1	7R010018.D	CLP-1 0.53 (mm)
460-144244-4		11/06/2017 20:50	1	7R010019.D	CLP-2 0.53 (mm)
460-144244-4		11/06/2017 20:50	1	7R010019.D	CLP-1 0.53 (mm)
460-144244-5		11/06/2017 21:14	1	7R010020.D	CLP-2 0.53 (mm)
460-144244-5		11/06/2017 21:14	1	7R010020.D	CLP-1 0.53 (mm)
460-144244-6		11/06/2017 21:37	1	7R010021.D	CLP-2 0.53 (mm)
460-144244-6		11/06/2017 21:37	1	7R010021.D	CLP-1 0.53 (mm)
460-144244-7		11/06/2017 22:00	1	7R010022.D	CLP-2 0.53 (mm)
460-144244-7		11/06/2017 22:00	1	7R010022.D	CLP-1 0.53 (mm)
460-144244-8		11/06/2017 22:24	1	7R010023.D	CLP-2 0.53 (mm)
460-144244-8		11/06/2017 22:24	1	7R010023.D	CLP-1 0.53 (mm)
460-144244-9		11/06/2017 22:48	1	7R010024.D	CLP-2 0.53 (mm)
460-144244-9		11/06/2017 22:48	1	7R010024.D	CLP-1 0.53 (mm)
ZZZZZ		11/06/2017 23:11	1		CLP-2 0.53 (mm)
ZZZZZ		11/06/2017 23:11	1		CLP-1 0.53 (mm)
460-144244-14		11/07/2017 03:11	1	7R010026.D	CLP-2 0.53 (mm)
460-144244-14		11/07/2017 03:11	1	7R010026.D	CLP-1 0.53 (mm)
460-144244-15		11/07/2017 03:35	1	7R010027.D	CLP-2 0.53 (mm)
460-144244-15		11/07/2017 03:35	1	7R010027.D	CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 04:46	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 04:46	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 05:10	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 05:10	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 05:33	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 05:33	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 05:57	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 05:57	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 06:20	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 06:20	1		CLP-1 0.53 (mm)

PCBS ANALYSIS RUN LOG

Lab Name: TestAmerica Edison Job No.: 460-144244-1

SDG No.: _____

Instrument ID: CPESTGC7 Start Date: 11/07/2017 08:20

Analysis Batch Number: 475107 End Date: 11/07/2017 16:01

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		11/07/2017 08:20	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 08:20	1		CLP-1 0.53 (mm)
CCVIS 460-475107/2		11/07/2017 08:44	1	7R010036.D	CLP-2 0.53 (mm)
CCVIS 460-475107/2		11/07/2017 08:44	1	7R010036.D	CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 09:40	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 09:40	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 10:04	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 10:04	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 10:28	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 10:28	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 10:51	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 10:51	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 11:15	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 11:15	1		CLP-1 0.53 (mm)
CCV 460-475107/8		11/07/2017 11:57	1		CLP-2 0.53 (mm)
CCV 460-475107/8		11/07/2017 11:57	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 12:27	2		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 12:27	2		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 12:51	5		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 12:51	5		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 13:15	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 13:15	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 13:38	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 13:38	1		CLP-1 0.53 (mm)
460-144244-10		11/07/2017 14:03	1	7R010047.D	CLP-2 0.53 (mm)
460-144244-10		11/07/2017 14:03	1	7R010047.D	CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 14:26	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 14:26	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 14:50	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 14:50	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 15:13	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 15:13	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 15:37	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 15:37	1		CLP-1 0.53 (mm)
ZZZZZ		11/07/2017 16:01	1		CLP-2 0.53 (mm)
ZZZZZ		11/07/2017 16:01	1		CLP-1 0.53 (mm)

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1

SDG No.: _____

Batch Number: 474606 Batch Start Date: 11/04/17 09:35 Batch Analyst: Poblete, James NBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	ReceivedpH	InitialAmount	FinalAmount	OP_PCB_SP_LVI 00012	OPPSPCBSU_LVI 00013	
MB 460-474606/1		3510C, 8082A		7 SU	250 mL	1 mL		50 uL	
LCS 460-474606/2		3510C, 8082A		7 SU	250 mL	1 mL	50 uL	50 uL	
460-144244-F-1 MS	MW-1S	3510C, 8082A	T	7 SU	250 mL	1 mL	50 uL	50 uL	
460-144244-F-1 MSD	MW-1S	3510C, 8082A	T	7 SU	250 mL	1 mL	50 uL	50 uL	
460-144244-G-1	MW-1S	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-F-2	MW-1D	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-F-3	MW-2S	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-G-4	MW-2D	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-G-5	MW-3S	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-G-6	MW-3D	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-G-7	MW-4S	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-F-8	MW-4D	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-F-9	NPPRS	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-F-10	SPPRS	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-F-14	Leachate	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	
460-144244-F-15	MW-X-DUP	3510C, 8082A	T	7 SU	250 mL	1 mL		50 uL	

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

PCBS BATCH WORKSHEET

Lab Name: TestAmerica Edison Job No.: 460-144244-1

SDG No.: _____

Batch Number: 474606 Batch Start Date: 11/04/17 09:35 Batch Analyst: Poblete, James NBatch Method: 3510C Batch End Date: _____

Batch Notes	
Batch Comment	8082 pcb lvi
Analyst ID - Concentration	JP
Exchange Solvent ID	170197
Exchange Solvent Name	Hexane
N-evap ID	36337
N-evap Temperature	37 Celsius
Na2SO4 ID	170861
Prep Solvent ID	175071
Prep Solvent Name	MECL2
Prep Solvent Volume Used	60 mL
Person's name who did the prep	JP
Uncorrected N-evap Temperature	37 Celsius

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method PFAS

Fluorinated Alkyl Substances by
WS-LC-0025 Attach 1

FORM II
LCMS SURROGATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): GeminiC18 3 ID: 3 (mm)

Client Sample ID	Lab Sample ID	PFHpA #	PFHxS #	PFOA #	PFOS #	PFNA #
MW-1S	460-144244-1	100	102	97	99	95
MW-1D	460-144244-2	99	99	98	98	98
MW-2S	460-144244-3	106	106	104	106	101
MW-2D	460-144244-4	107	108	107	105	108
MW-3S	460-144244-5	104	102	102	101	102
MW-3D	460-144244-6	99	102	101	102	99
MW-4S	460-144244-7	104	105	104	103	104
MW-4D	460-144244-8	102	100	100	99	98
NPPRS	460-144244-9	109	106	107	104	108
SPPRS	460-144244-10	117	112	112	112	112
EB-PROBE	460-144244-11	102	102	101	100	98
EB-TUBING	460-144244-12	100	99	97	96	98
FB-X	460-144244-13	105	104	105	103	104
Leachate	460-144244-14	106	104	102	102	104
MW-X-DUP	460-144244-15	116	115	112	111	114
	MB 320-195744/1-A	106	105	102	103	102
	LCS 320-195744/2-A	99	97	93	95	92
MW-1S MS	460-144244-1 MS	100	98	97	96	97
MW-1S MSD	460-144244-1 MSD	103	100	99	99	98

QC LIMITS

PFHpA = 13C4-PFHpA
PFHxS = 18O2 PFHxS
PFOA = 13C4 PFOA
PFOS = 13C4 PFOS
PFNA = 13C5 PFNA

25-150
25-150
25-150
25-150
25-150

Column to be used to flag recovery values

FORM II WS-LC-0025 At1

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 2017.11.20BX_002.d
 Lab ID: LCS 320-195744/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanesulfonic acid (PFBS)	17.7	17.01	96	72-151	
Perfluorohexanesulfonic acid (PFHxS)	18.2	17.26	95	73-157	
Perfluoroheptanoic acid (PFHpA)	20.0	19.64	98	71-138	
Perfluorooctanoic acid (PFOA)	20.0	18.94	95	70-140	
Perfluorooctanesulfonic acid (PFOS)	18.6	16.91	91	69-144	
Perfluorononanoic acid (PFNA)	20.0	19.85	99	73-147	
18O2 PFHxS	78.5	76.13	97	25-150	
13C4-PFHpA	83.0	82.35	99	25-150	
13C4 PFOA	83.0	77.03	93	25-150	
13C4 PFOS	79.3	75.28	95	25-150	
13C5 PFNA	83.0	76.51	92	25-150	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 2017.11.20BX_005.d
 Lab ID: 460-144244-1 MS Client ID: MW-1S MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorobutanesulfonic acid (PFBS)	16.1	2.00 U	16.18	100	55-147	
Perfluorohexanesulfonic acid (PFHxS)	16.6	2.00 U	15.45	93	58-138	
Perfluoroheptanoic acid (PFHpA)	18.3	2.00 U	17.98	99	63-135	
Perfluorooctanoic acid (PFOA)	18.3	2.00 U	17.00	93	63-141	
Perfluorooctanesulfonic acid (PFOS)	16.9	2.00 U	14.99	89	47-162	
Perfluorononanoic acid (PFNA)	18.3	2.00 U	17.34	95	71-140	
18O2 PFHxS	78.5	79.7	77.30	98	25-150	
13C4-PFHpA	83.0	83.1	82.62	100	25-150	
13C4 PFOA	83.0	80.4	80.38	97	25-150	
13C4 PFOS	79.3	78.7	76.50	96	25-150	
13C5 PFNA	83.0	79.1	80.38	97	25-150	

Column to be used to flag recovery and RPD values

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: 2017.11.20BX_006.d
 Lab ID: 460-144244-1 MSD Client ID: MW-1S MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanesulfonic acid (PFBS)	16.2	16.17	100	0	30	55-147	
Perfluorohexanesulfonic acid (PFHxS)	16.6	16.07	97	4	30	58-138	
Perfluoroheptanoic acid (PFHpA)	18.3	17.98	98	0	30	63-135	
Perfluorooctanoic acid (PFOA)	18.3	16.91	93	1	30	63-141	
Perfluorooctanesulfonic acid (PFOS)	17.0	14.00	83	7	30	47-162	
Perfluorononanoic acid (PFNA)	18.3	16.93	93	2	30	71-140	
18O2 PFHxS	78.5	78.30	100			25-150	
13C4-PFHpA	83.0	85.39	103			25-150	
13C4 PFOA	83.0	82.27	99			25-150	
13C4 PFOS	79.3	78.77	99			25-150	
13C5 PFNA	83.0	81.16	98			25-150	

Column to be used to flag recovery and RPD values

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1
 SDG No.: _____
 Lab File ID: 2017.11.20BX_001.d Lab Sample ID: MB 320-195744/1-A
 Matrix: Water Date Extracted: 11/20/2017 09:48
 Instrument ID: A7_N Date Analyzed: 11/21/2017 00:09
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 320-195744/2-A	2017.11.20B X 002.d	11/21/2017 00:28
MW-1S	460-144244-1	2017.11.20B X 004.d	11/21/2017 01:04
MW-1S MS	460-144244-1 MS	2017.11.20B X 005.d	11/21/2017 01:23
MW-1S MSD	460-144244-1 MSD	2017.11.20B X 006.d	11/21/2017 01:41
MW-1D	460-144244-2	2017.11.20B X 007.d	11/21/2017 01:59
MW-2S	460-144244-3	2017.11.20B X 008.d	11/21/2017 02:18
MW-2D	460-144244-4	2017.11.20B X 009.d	11/21/2017 02:36
MW-3S	460-144244-5	2017.11.20B X 010.d	11/21/2017 02:54
MW-3D	460-144244-6	2017.11.20B X 012.d	11/21/2017 03:31
MW-4S	460-144244-7	2017.11.20B X 013.d	11/21/2017 03:49
MW-4D	460-144244-8	2017.11.20B X 014.d	11/21/2017 04:08
NPPRS	460-144244-9	2017.11.20B X 015.d	11/21/2017 04:26
SPPRS	460-144244-10	2017.11.20B X 016.d	11/21/2017 04:44
EB-PROBE	460-144244-11	2017.11.20B X 017.d	11/21/2017 05:03
EB-TUBING	460-144244-12	2017.11.20B X 018.d	11/21/2017 05:21
FB-X	460-144244-13	2017.11.20B X 019.d	11/21/2017 05:39
Leachate	460-144244-14	2017.11.20B X 020.d	11/21/2017 05:58
MW-X-DUP	460-144244-15	2017.11.20B X 021.d	11/21/2017 06:16

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1S</u>	Lab Sample ID: <u>460-144244-1</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_004.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 01:04</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	102		25-150
STL01892	13C4-PFHpA	100		25-150
STL00990	13C4 PFOA	97		25-150
STL00991	13C4 PFOS	99		25-150
STL00995	13C5 PFNA	95		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_004.d
 Lims ID: 460-144244-A-1-D
 Client ID: MW-1S
 Sample Type: Client
 Inject. Date: 21-Nov-2017 01:04:44 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-1-d
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc Date: 22-Nov-2017 09:40:47

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA	217.00 > 172.00	6.005	5.873	0.132	3330889	0.0364		72.8	31341	
D 4 13C5-PFPeA	267.90 > 223.00	6.526	6.513	0.013	3921600	0.0515		103	27166	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	6.566	6.569	-0.003	1.000	29863	0.000201		25.8	
D 6 13C2 PFHxA	315.00 > 270.00	7.016	7.019	-0.003	3069169	0.0491		98.1	35109	
9 Perfluorohexanesulfonic acid	399.00 > 80.00	7.546	7.552	-0.006	1.000	25538	0.000264		80.6	
D 10 18O2 PFHxS	403.00 > 84.00	7.558	7.555	0.003	3932385	0.0480		102	36538	
D 11 13C4-PFHpA	367.00 > 322.00	7.558	7.561	-0.003	2399617	0.0500		100	23962	
D 14 13C4 PFOA	417.00 > 372.00	8.134	8.150	-0.016	2037192	0.0484		96.8	30838	
D 17 13C4 PFOS	503.00 > 80.00	8.713	8.734	-0.021	3832957	0.0474		99.1	20367	
D 19 13C5 PFNA	468.00 > 423.00	8.742	8.770	-0.028	1537738	0.0477		95.4	19932	
D 21 13C8 FOSA	506.00 > 78.00	9.264	9.262	0.002	4979600	0.0392		78.4	29127	
D 23 13C2 PFDA	515.00 > 470.00	9.336	9.387	-0.051	1322300	0.0503		101	22765	
D 27 13C2 PFUnA	565.00 > 520.00	9.902	9.971	-0.069	1049049	0.0464		92.9	16214	
D 30 13C2 PFDaA	615.00 > 570.00	10.428	10.522	-0.094	1121620	0.0485		97.1	10777	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 13C2-PFTeDA										
715.00 > 670.00	11.393	11.531	-0.138		1058033	0.0358		71.5	6849	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.277	12.482	-0.205		635171	0.0193		38.7	4134	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_004.d

Injection Date: 21-Nov-2017 01:04:44

Instrument ID: A7_N

Lims ID: 460-144244-A-1-D

Lab Sample ID: 320-144244-1

Client ID: MW-1S

Operator ID: abservice

ALS Bottle#: 4

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

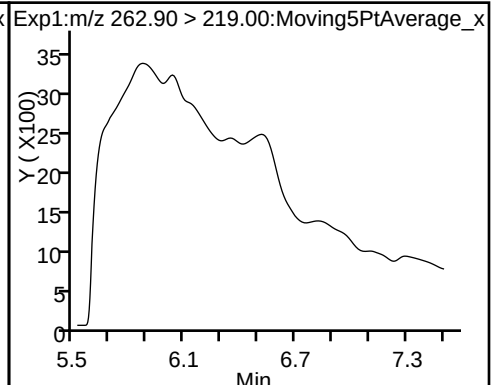
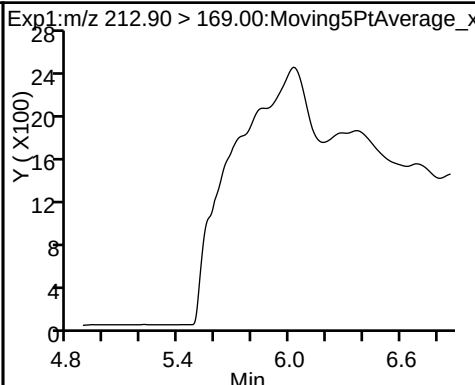
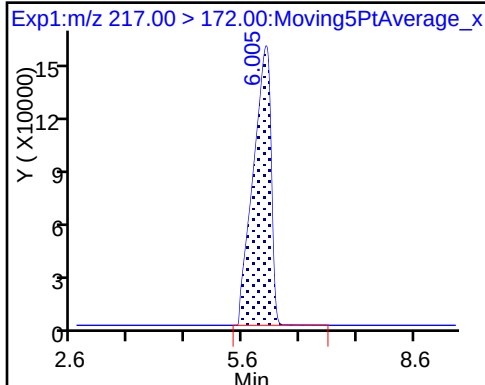
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid (ND)

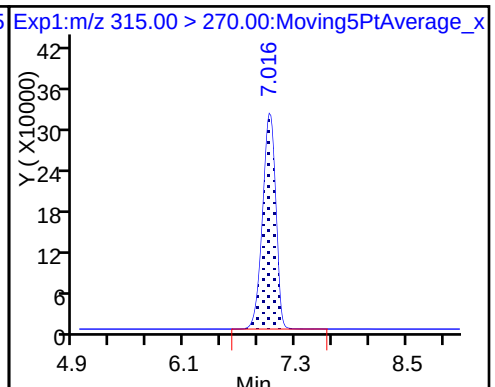
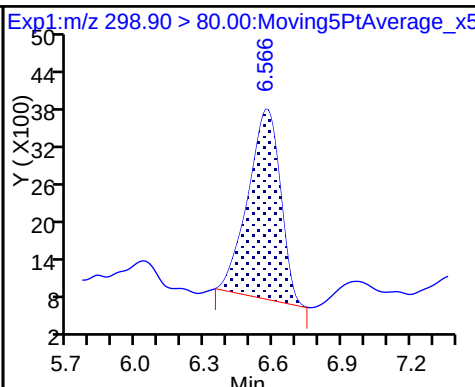
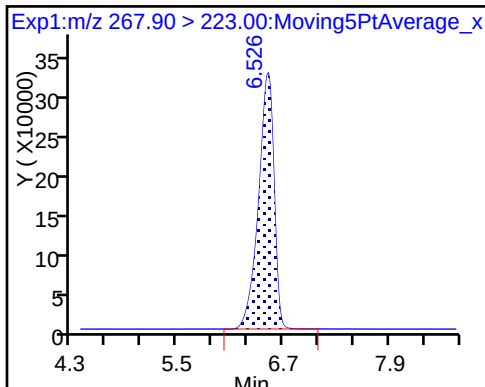
3 Perfluoropentanoic acid (ND)



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

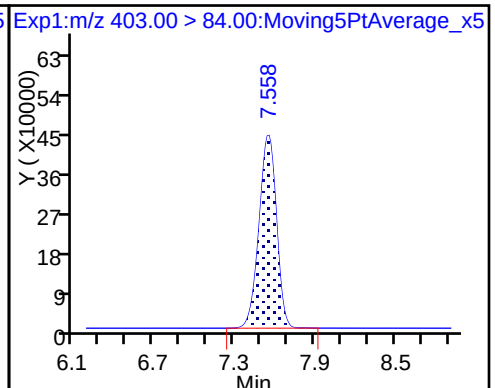
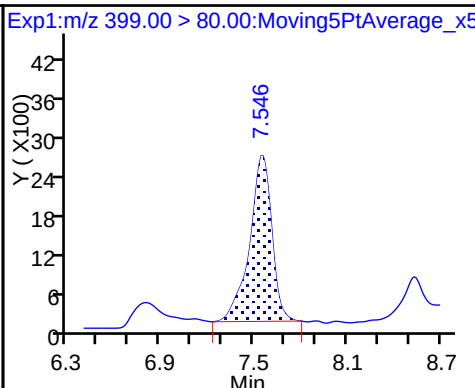
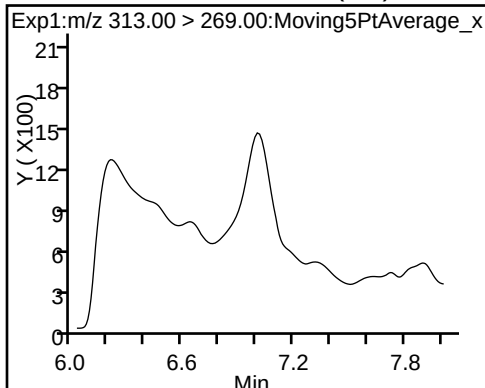
D 6 13C2 PFHxA



7 Perfluorohexanoic acid (ND)

9 Perfluorohexanesulfonic acid

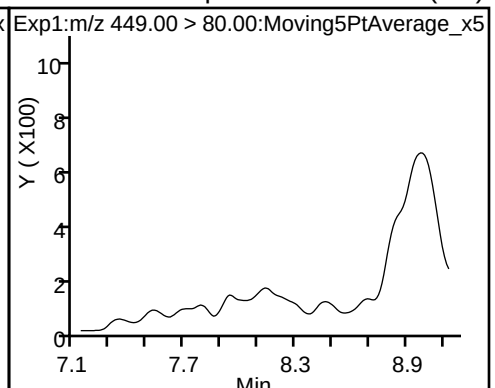
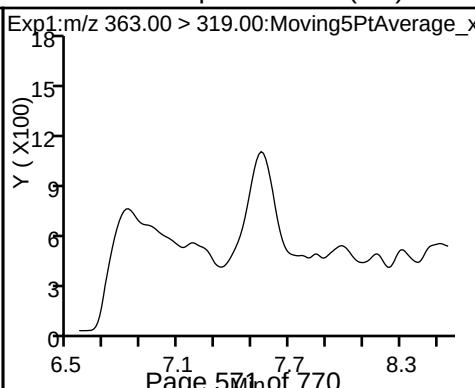
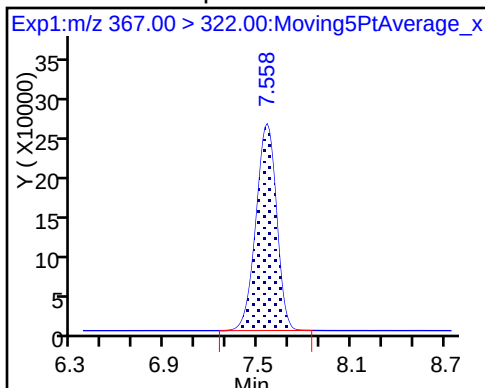
D 10 18O2 PFHxS



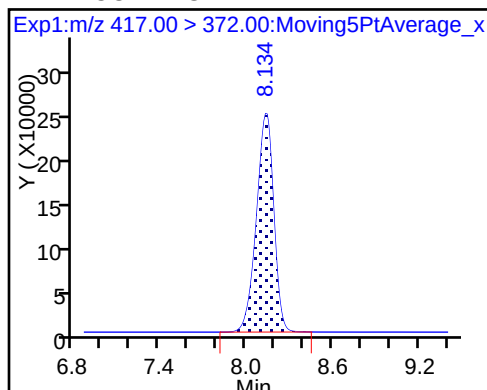
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

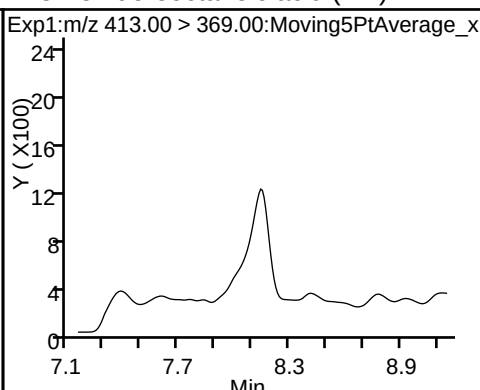
13 Perfluoroheptanesulfonic Acid (ND)



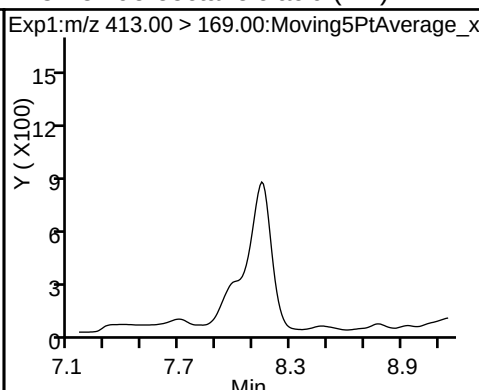
D 14 13C4 PFOA



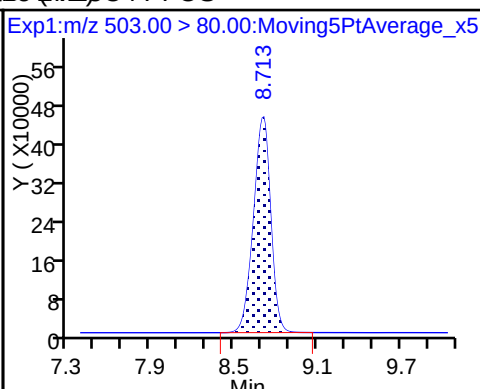
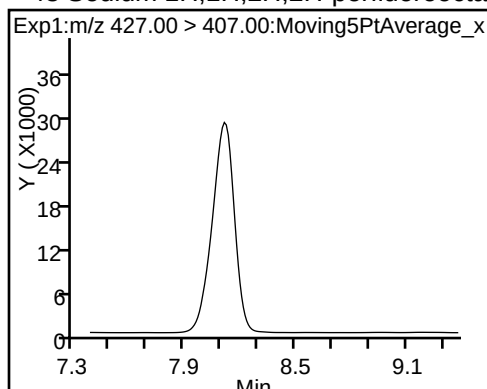
15 Perfluorooctanoic acid (ND)



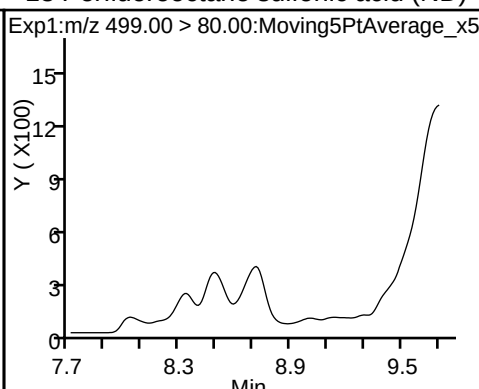
15 Perfluorooctanoic acid (ND)



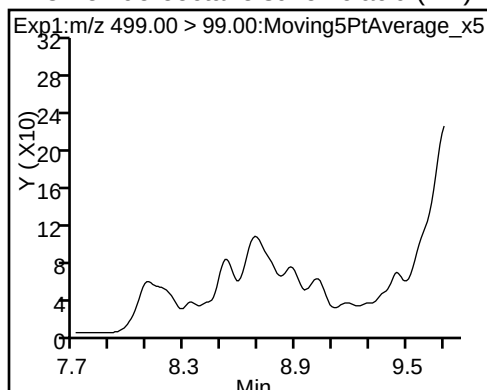
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (ND) D 15 13C4 PFOS



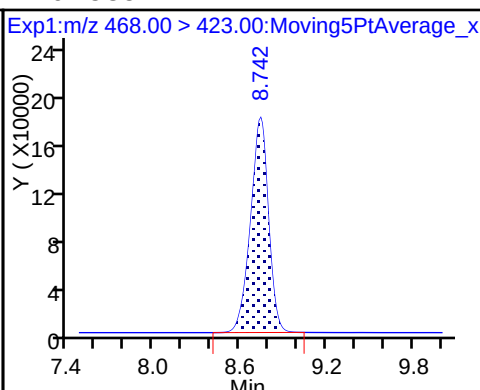
18 Perfluorooctane sulfonic acid (ND)



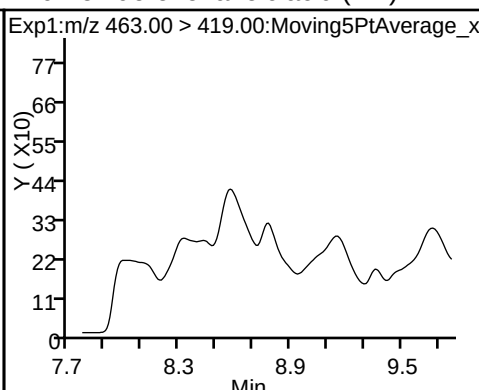
18 Perfluorooctane sulfonic acid (ND)



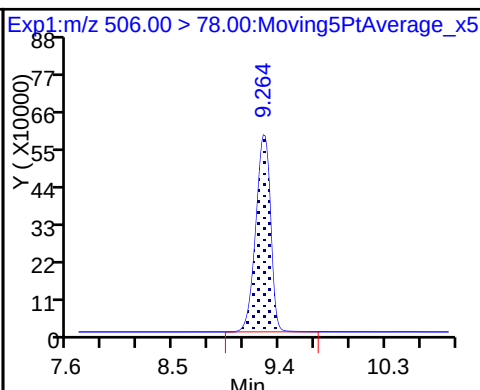
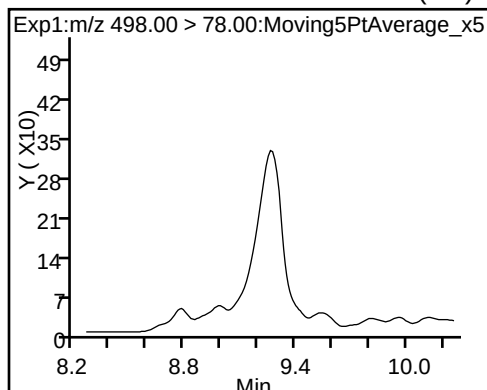
D 19 13C5 PFNA



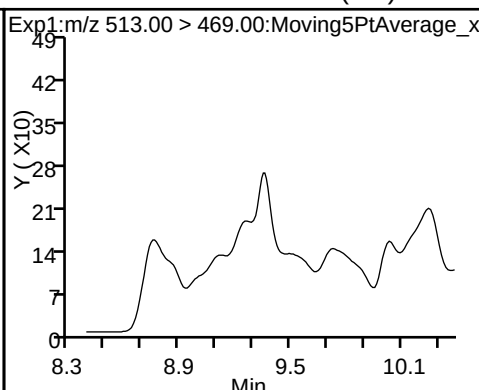
20 Perfluorononanoic acid (ND)



22 Perfluorooctane Sulfonamide (ND) D 21 13C8 FOSA



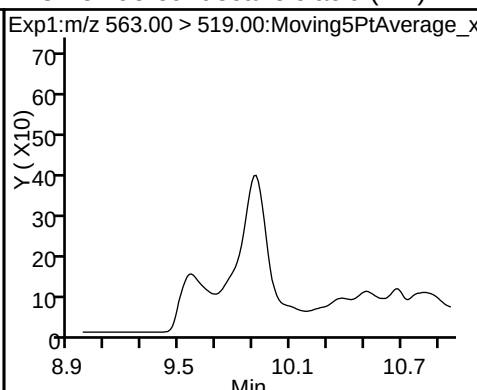
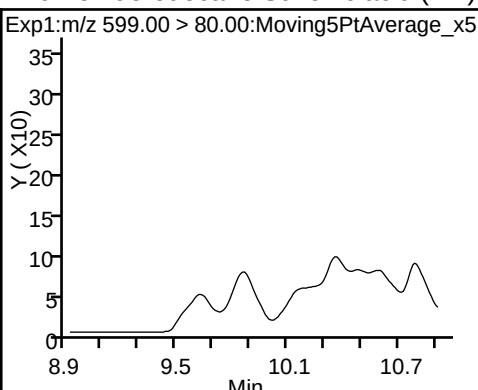
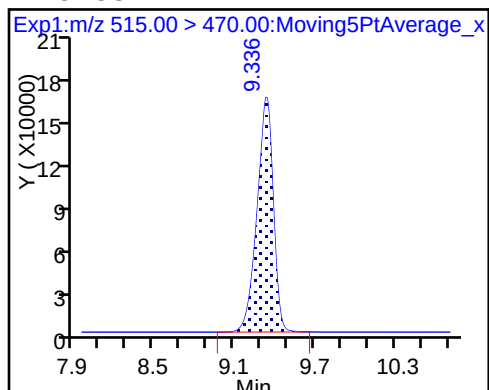
24 Perfluorodecanoic acid (ND)



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid (ND)

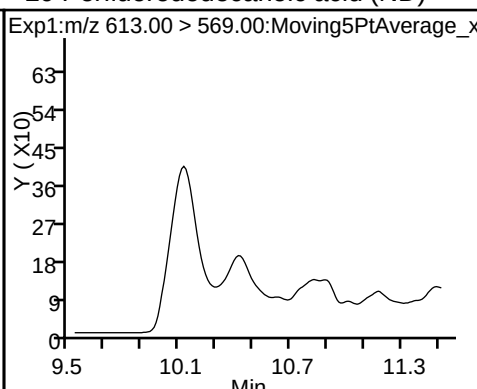
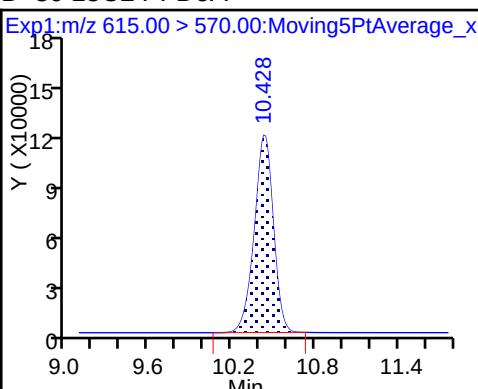
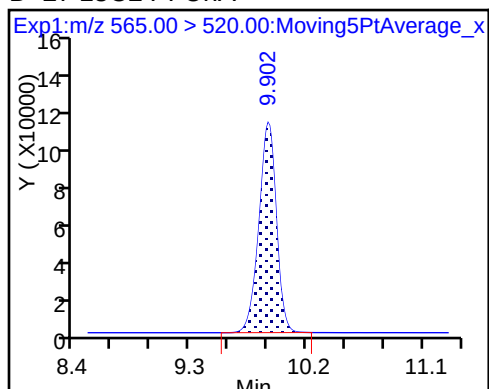
28 Perfluoroundecanoic acid (ND)



D 27 13C2 PFUnA

D 30 13C2 PFDaA

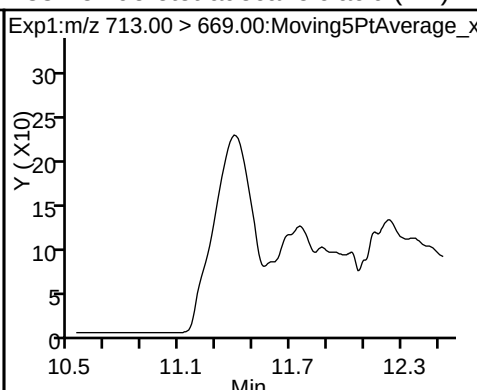
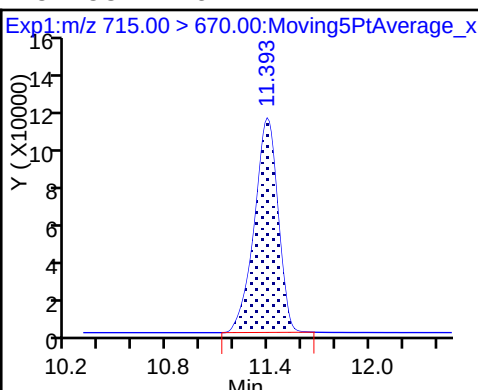
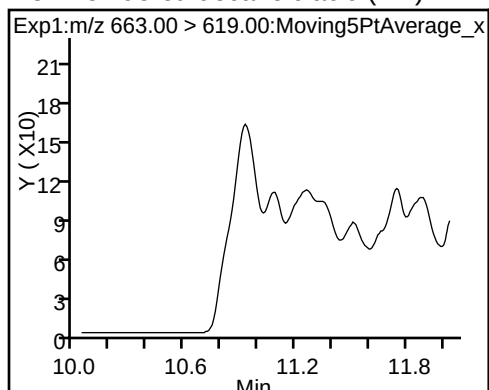
29 Perfluorododecanoic acid (ND)



31 Perfluorotridecanoic acid (ND)

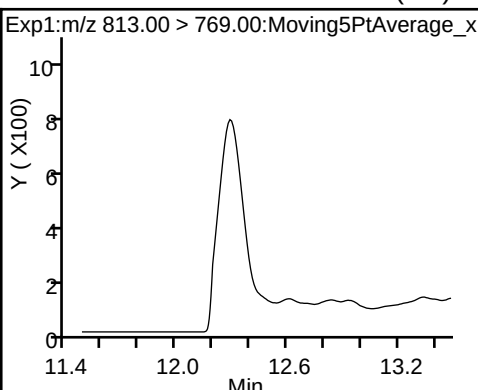
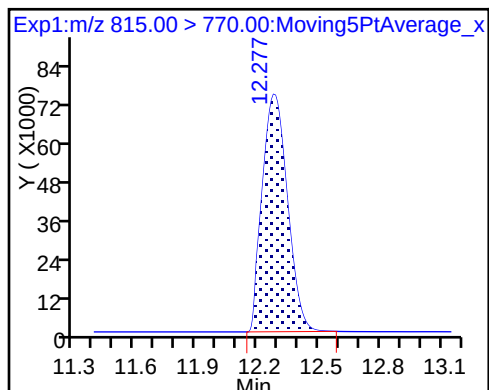
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid (ND)



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1D</u>	Lab Sample ID: <u>460-144244-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_007.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 01:59</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	99		25-150
STL01892	13C4-PFHpA	99		25-150
STL00990	13C4 PFOA	98		25-150
STL00991	13C4 PFOS	98		25-150
STL00995	13C5 PFNA	98		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_007.d
 Lims ID: 460-144244-A-2-B
 Client ID: MW-1D
 Sample Type: Client
 Inject. Date: 21-Nov-2017 01:59:46 ALS Bottle#: 7 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-2-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 10 18O2 PFHxS										
403.00 > 84.00	7.545	7.555	-0.010		3821423	0.0467		98.7	35874	
D 11 13C4-PFHpA										
367.00 > 322.00	7.557	7.561	-0.004		2369205	0.0494		98.8	26378	
D 14 13C4 PFOA										
417.00 > 372.00	8.133	8.150	-0.017		2071229	0.0492		98.5	28028	
D 17 13C4 PFOS										
503.00 > 80.00	8.699	8.734	-0.035		3798872	0.0470		98.3	23446	
D 19 13C5 PFNA										
468.00 > 423.00	8.731	8.770	-0.039		1578288	0.0489		97.9	22881	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_007.d

Injection Date: 21-Nov-2017 01:59:46

Instrument ID: A7_N

Lims ID: 460-144244-A-2-B

Lab Sample ID: 320-144244-2

Client ID: MW-1D

Operator ID: abservice

ALS Bottle#: 7

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

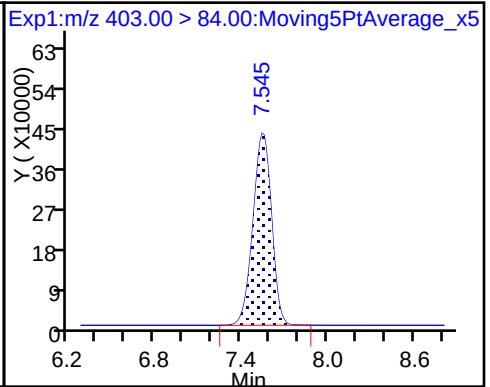
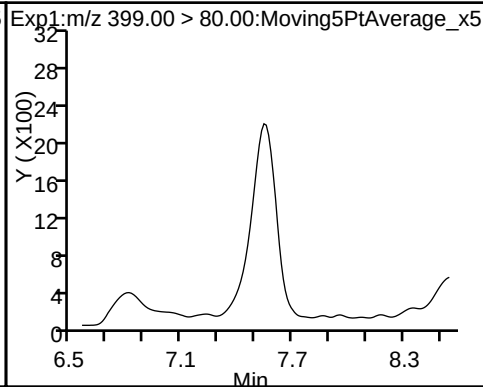
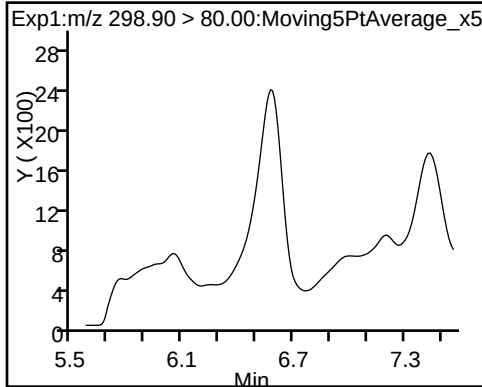
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid (ND)

9 Perfluorohexanesulfonic acid (ND)

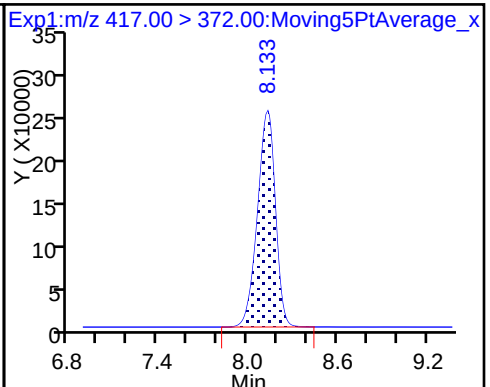
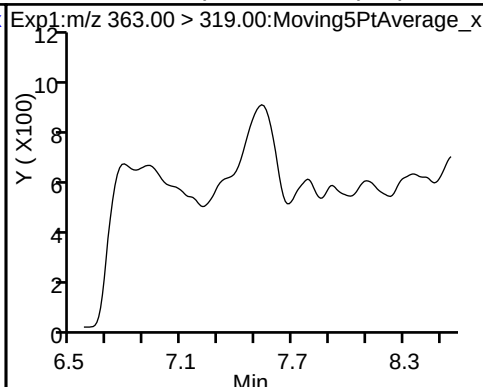
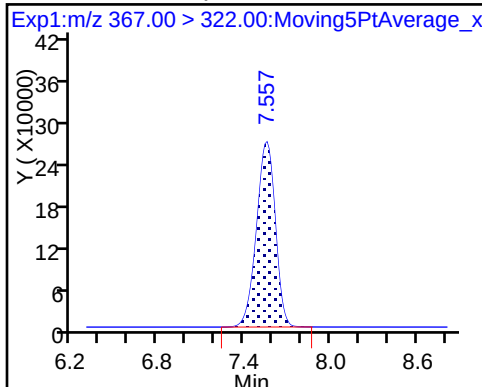
D 10 18O2 PFHxS



D 11 13C4-PFHpa

12 Perfluoroheptanoic acid (ND)

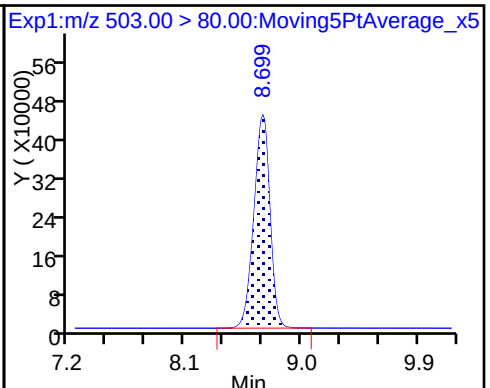
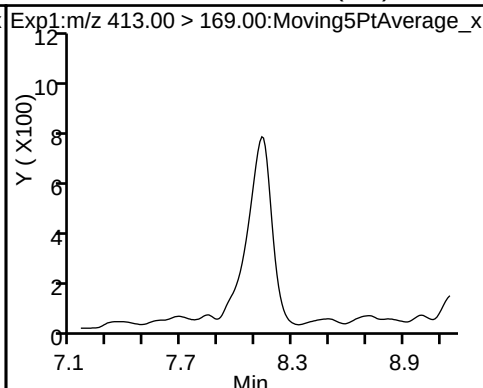
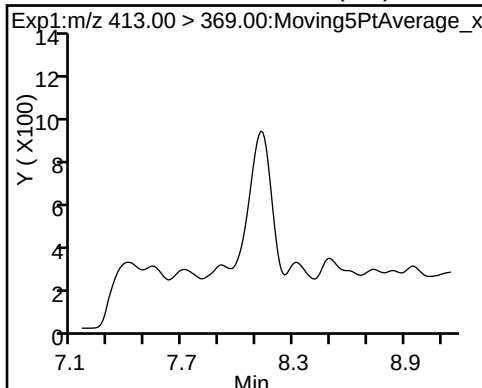
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

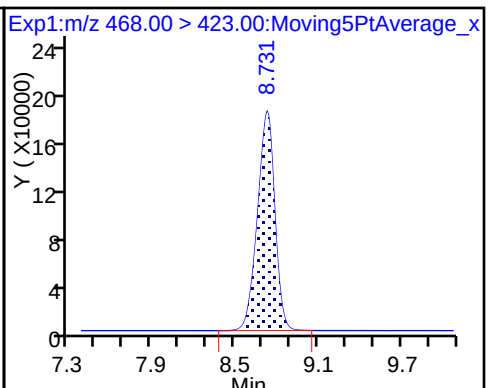
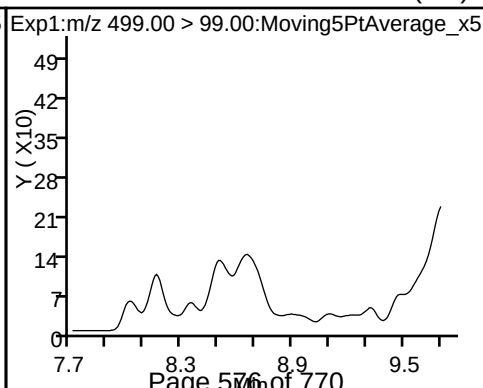
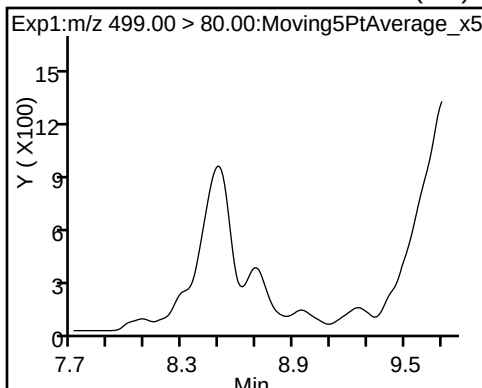
D 17 13C4 PFOS



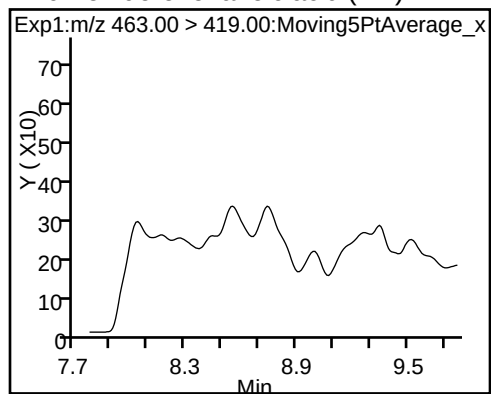
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2S</u>	Lab Sample ID: <u>460-144244-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_008.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>11/01/2017 10:25</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 02:18</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	106		25-150
STL01892	13C4-PFHpA	106		25-150
STL00990	13C4 PFOA	104		25-150
STL00991	13C4 PFOS	106		25-150
STL00995	13C5 PFNA	101		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_008.d
 Lims ID: 460-144244-A-3-B
 Client ID: MW-2S
 Sample Type: Client
 Inject. Date: 21-Nov-2017 02:18:07 ALS Bottle#: 8 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-3-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 10 18O2 PFHxS	403.00 > 84.00	7.558	7.555	0.003	4102219	0.0501		106	39319	
D 11 13C4-PFHpA	367.00 > 322.00	7.558	7.561	-0.003	2543575	0.0531		106	25936	
D 14 13C4 PFOA	417.00 > 372.00	8.143	8.150	-0.007	2177994	0.0518		104	27274	
D 17 13C4 PFOS	503.00 > 80.00	8.713	8.734	-0.021	4106048	0.0508		106	21504	
D 19 13C5 PFNA	468.00 > 423.00	8.742	8.770	-0.028	1623794	0.0503		101	21548	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_008.d

Injection Date: 21-Nov-2017 02:18:07

Instrument ID: A7_N

Lims ID: 460-144244-A-3-B

Lab Sample ID: 320-144244-3

Client ID: MW-2S

Operator ID: abservice

ALS Bottle#: 8

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

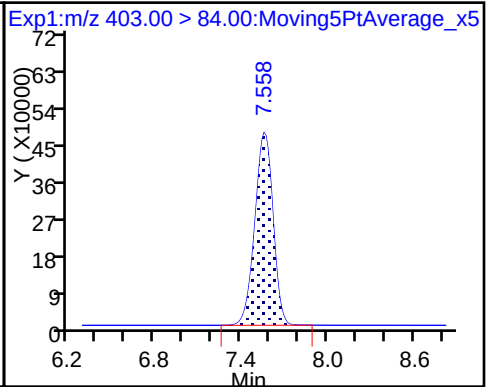
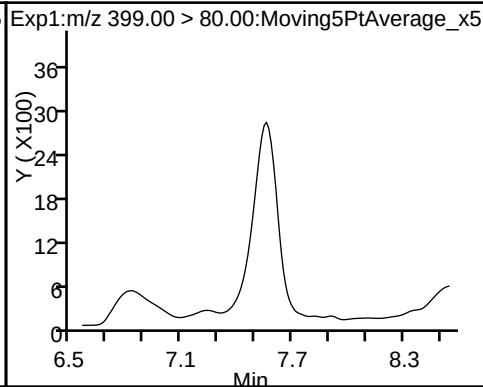
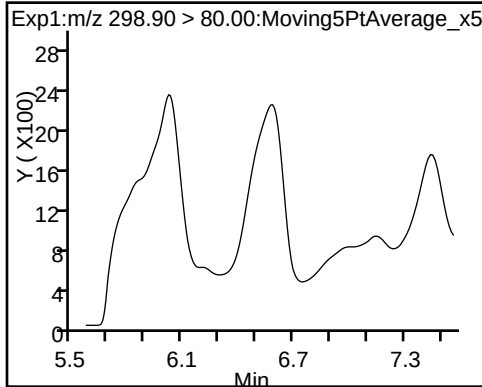
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid (ND)

9 Perfluorohexanesulfonic acid (ND)

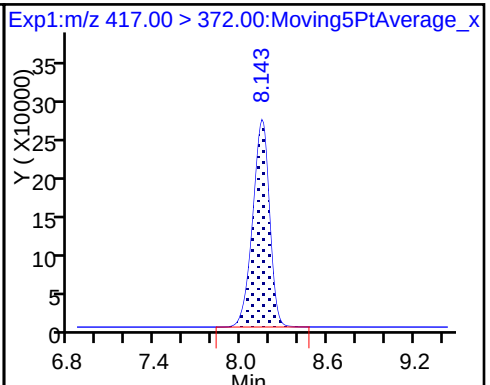
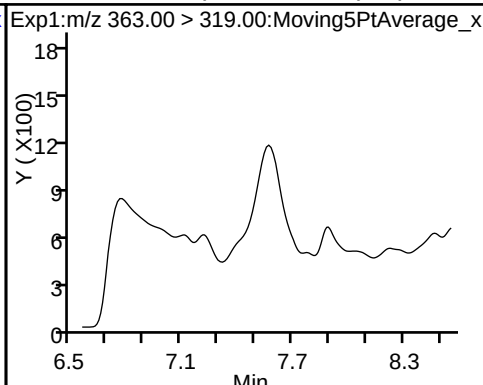
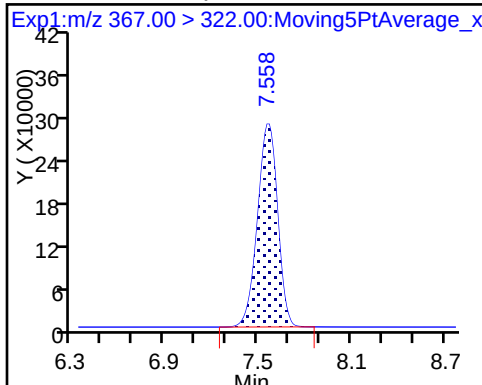
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

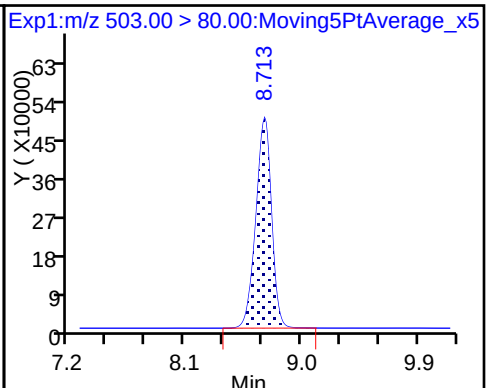
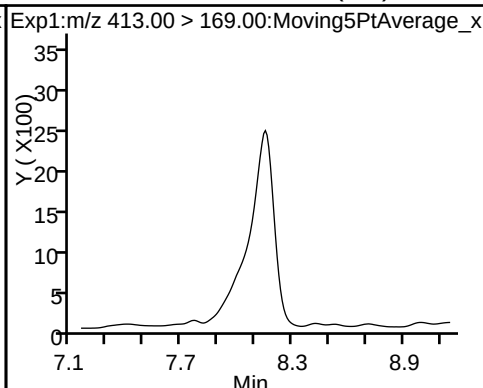
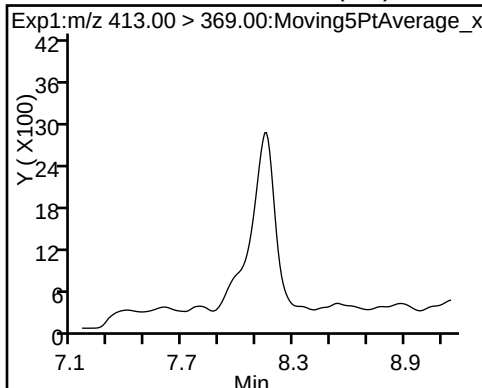
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

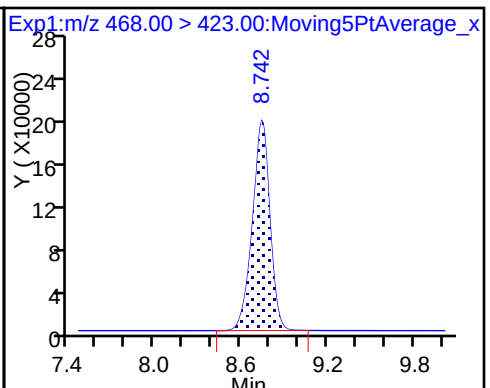
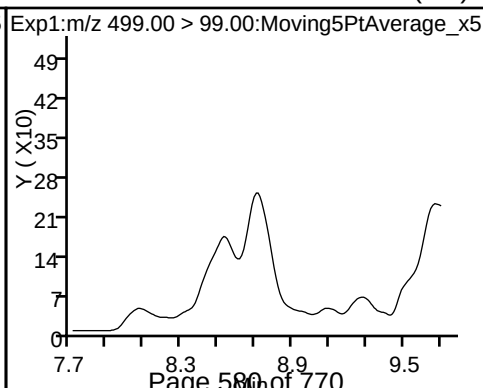
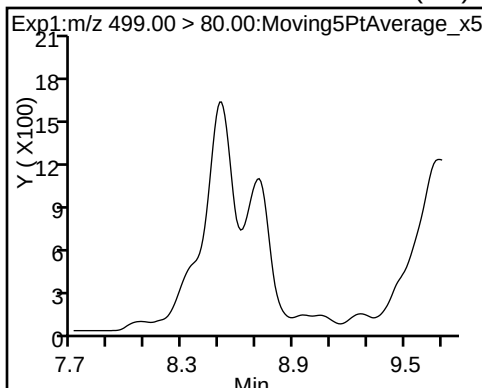
D 17 13C4 PFOS



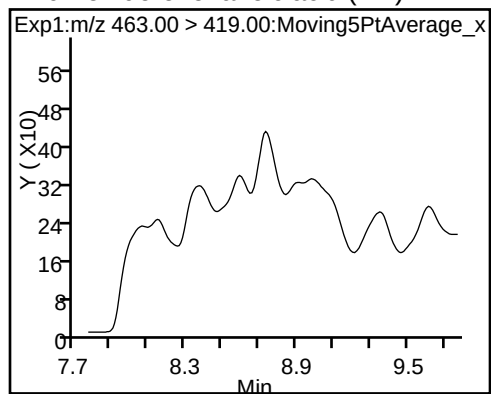
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-2D</u>	Lab Sample ID: <u>460-144244-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_009.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>11/01/2017 10:40</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 02:36</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	0.95	J	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	108		25-150
STL01892	13C4-PFHpA	107		25-150
STL00990	13C4 PFOA	107		25-150
STL00991	13C4 PFOS	105		25-150
STL00995	13C5 PFNA	108		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_009.d
 Lims ID: 460-144244-A-4-B
 Client ID: MW-2D
 Sample Type: Client
 Inject. Date: 21-Nov-2017 02:36:28 ALS Bottle#: 9 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-4-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 10 18O2 PFHxS										
403.00 > 84.00	7.546	7.555	-0.009		4189712	0.0512		108	36989	
D 11 13C4-PFHpA										
367.00 > 322.00	7.559	7.561	-0.002		2574968	0.0537		107	26173	
D 14 13C4 PFOA										
417.00 > 372.00	8.135	8.150	-0.016		2260074	0.0537		107	28204	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.135	8.152	-0.018	1.000	29842	0.000575			78.3	
413.00 > 169.00	8.135	8.152	-0.018	1.000	30016		0.99(0.90-1.10)		344	
D 17 13C4 PFOS										
503.00 > 80.00	8.704	8.734	-0.030		4060014	0.0502		105	19394	
D 19 13C5 PFNA										
468.00 > 423.00	8.733	8.770	-0.037		1735701	0.0538		108	25873	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_009.d

Injection Date: 21-Nov-2017 02:36:28

Instrument ID: A7_N

Lims ID: 460-144244-A-4-B

Lab Sample ID: 320-144244-4

Client ID: MW-2D

Operator ID: abservice

ALS Bottle#: 9

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

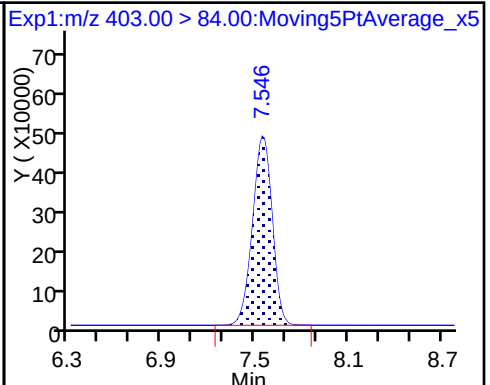
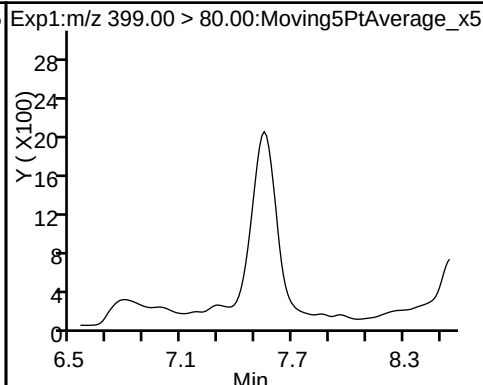
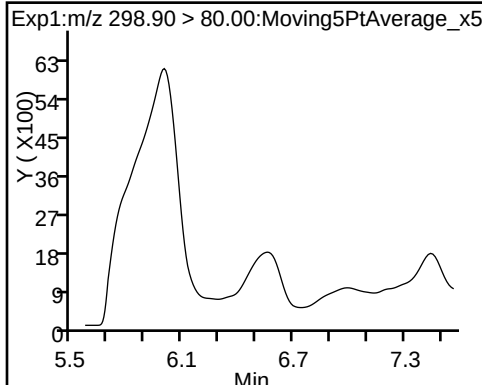
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid (ND)

9 Perfluorohexanesulfonic acid (ND)

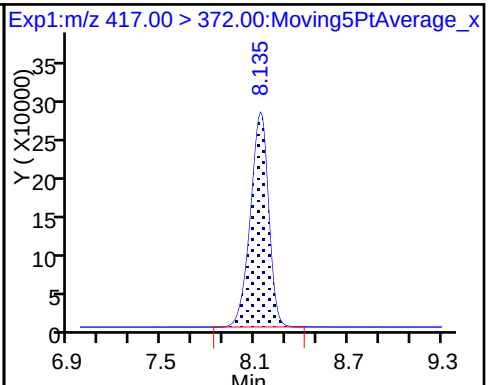
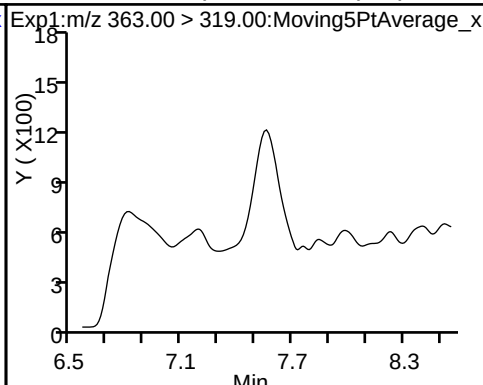
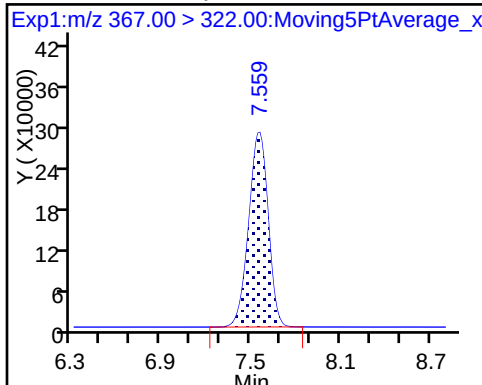
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

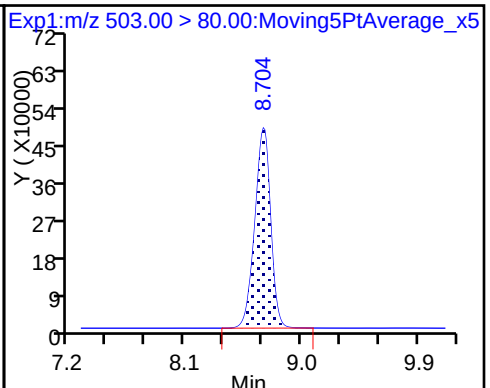
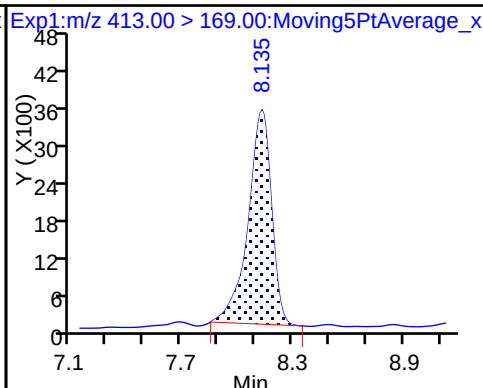
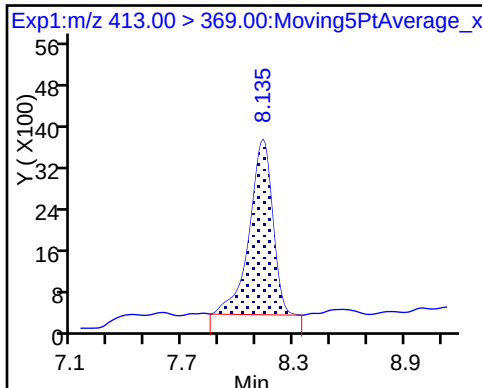
D 14 13C4 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

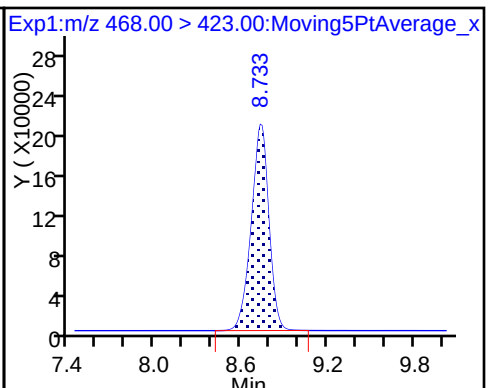
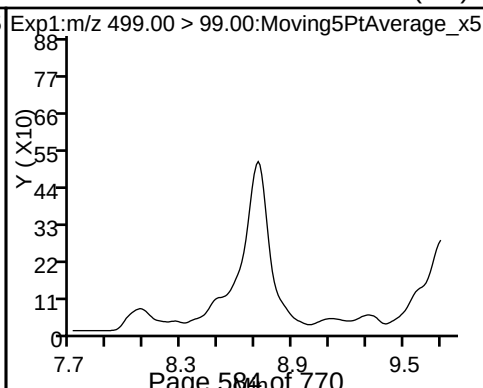
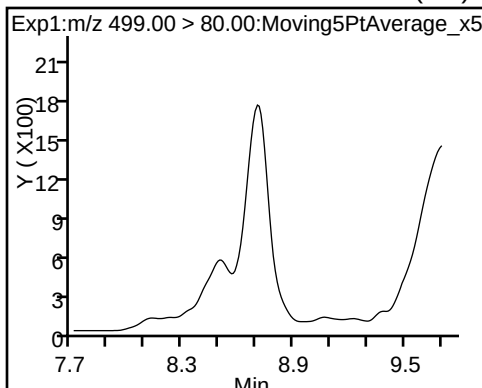
D 17 13C4 PFOS



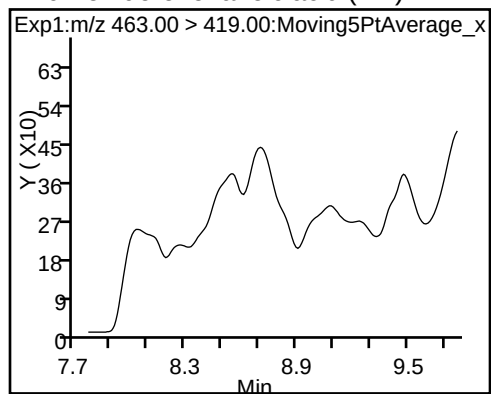
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-3S</u>	Lab Sample ID: <u>460-144244-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_010.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 17:10</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 02:54</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	25.9		2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	43.4		2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	1.48	J	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	102		25-150
STL01892	13C4-PFHpA	104		25-150
STL00990	13C4 PFOA	102		25-150
STL00991	13C4 PFOS	101		25-150
STL00995	13C5 PFNA	102		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_010.d
 Lims ID: 460-144244-A-5-B
 Client ID: MW-3S
 Sample Type: Client
 Inject. Date: 21-Nov-2017 02:54:50 ALS Bottle#: 10 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-5-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d
 Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 22-Nov-2017 09:45:02

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.586	6.569	0.017	1.000	32938	0.000220			17.1	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.558	7.552	0.006	1.000	26721	0.000274			86.1	
D 10 18O2 PFHxS										
403.00 > 84.00	7.558	7.555	0.003		3964879	0.0484		102	37298	
D 11 13C4-PFHpA										
367.00 > 322.00	7.570	7.561	0.009		2486423	0.0519		104	21355	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.570	7.561	0.009	1.000	802100	0.0156			774	
D 14 13C4 PFOA										
417.00 > 372.00	8.143	8.150	-0.007		2147816	0.0511		102	26589	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.143	8.152	-0.009	1.000	1291154	0.0262			3437	
413.00 > 169.00	8.143	8.152	-0.009	1.000	1228031		1.05(0.90-1.10)		13717	
D 17 13C4 PFOS										
503.00 > 80.00	8.712	8.734	-0.022		3900575	0.0482		101	16053	
18 Perfluorooctane sulfonic acid										M
499.00 > 80.00	8.722	8.738	-0.016	1.000	64852	0.000707			48.3	
499.00 > 99.00	8.712	8.738	-0.026	0.999	13228		4.90(0.90-1.10)		52.7	M
D 19 13C5 PFNA										
468.00 > 423.00	8.741	8.770	-0.029		1639045	0.0508		102	27840	
20 Perfluorononanoic acid										M
463.00 > 419.00	8.751	8.771	-0.020	1.000	29436	0.000891			78.7	M

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_010.d

Injection Date: 21-Nov-2017 02:54:50

Instrument ID: A7_N

Lims ID: 460-144244-A-5-B

Lab Sample ID: 320-144244-5

Client ID: MW-3S

Operator ID: abservice

ALS Bottle#: 10

Worklist Smp#: 11

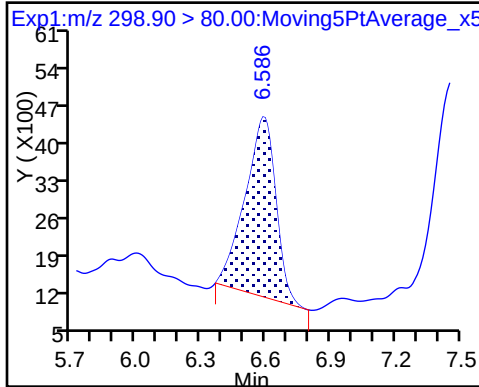
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

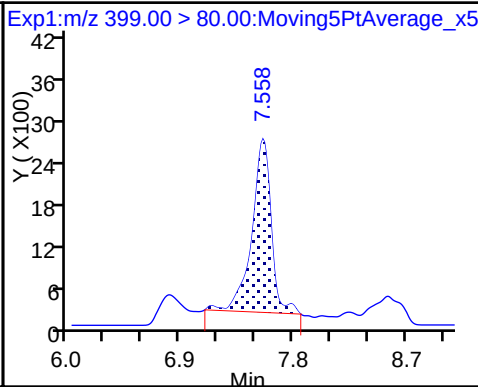
Method: A7_N

Limit Group: LC PFAS ICAL

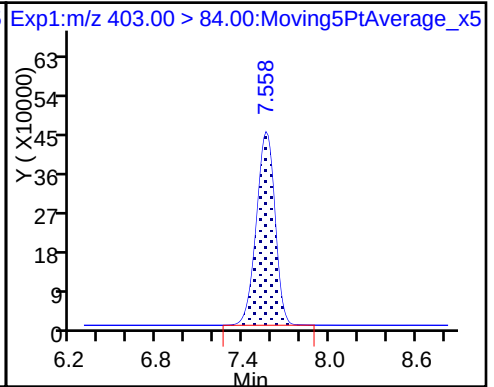
5 Perfluorobutanesulfonic acid



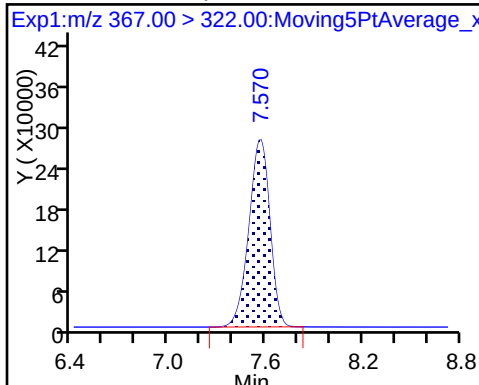
9 Perfluorohexanesulfonic acid



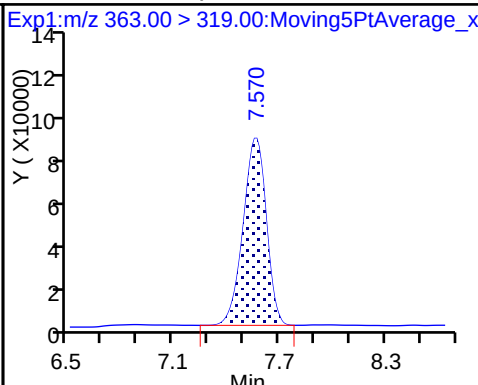
D 10 18O2 PFHxS



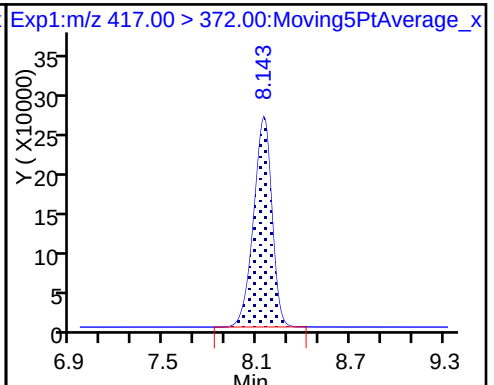
D 11 13C4-PFHpA



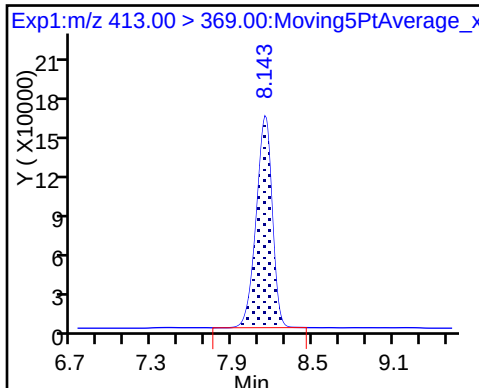
12 Perfluoroheptanoic acid



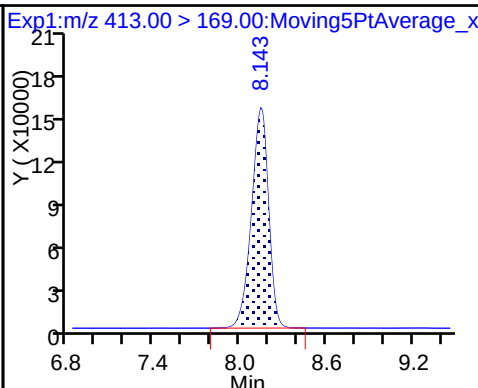
D 14 13C4 PFOA



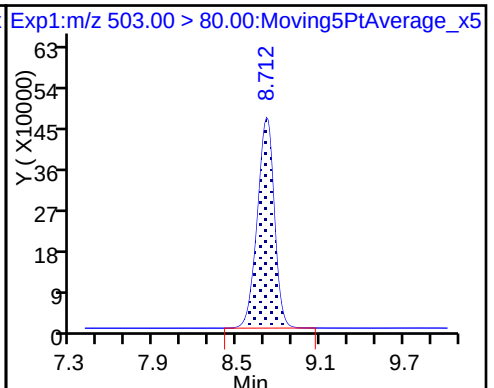
15 Perfluorooctanoic acid



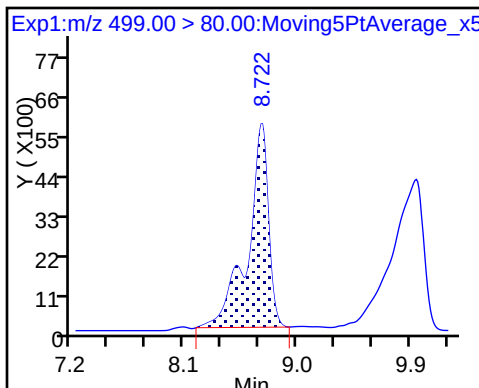
15 Perfluorooctanoic acid



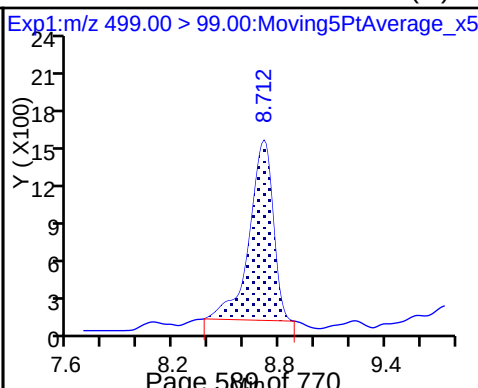
D 17 13C4 PFOS



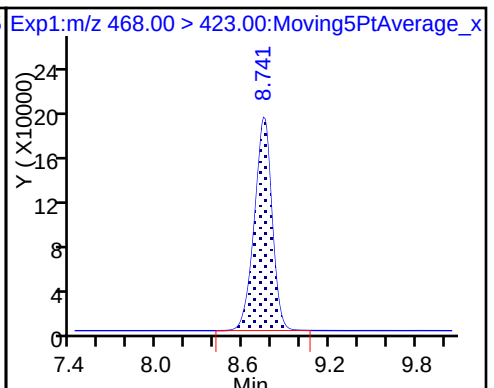
18 Perfluorooctane sulfonic acid



18 Perfluorooctane sulfonic acid (M)

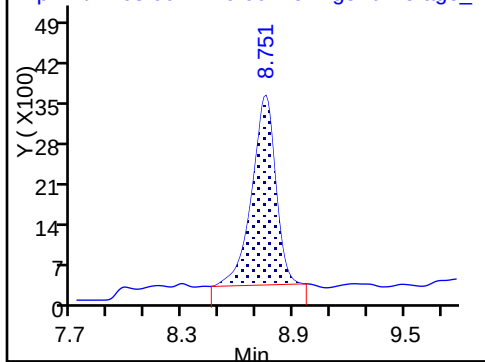


D 19 13C5 PFNA



20 Perfluorononanoic acid (M)

Exp1:m/z 463.00 > 419.00:Moving5PtAverage_x



TestAmerica Sacramento

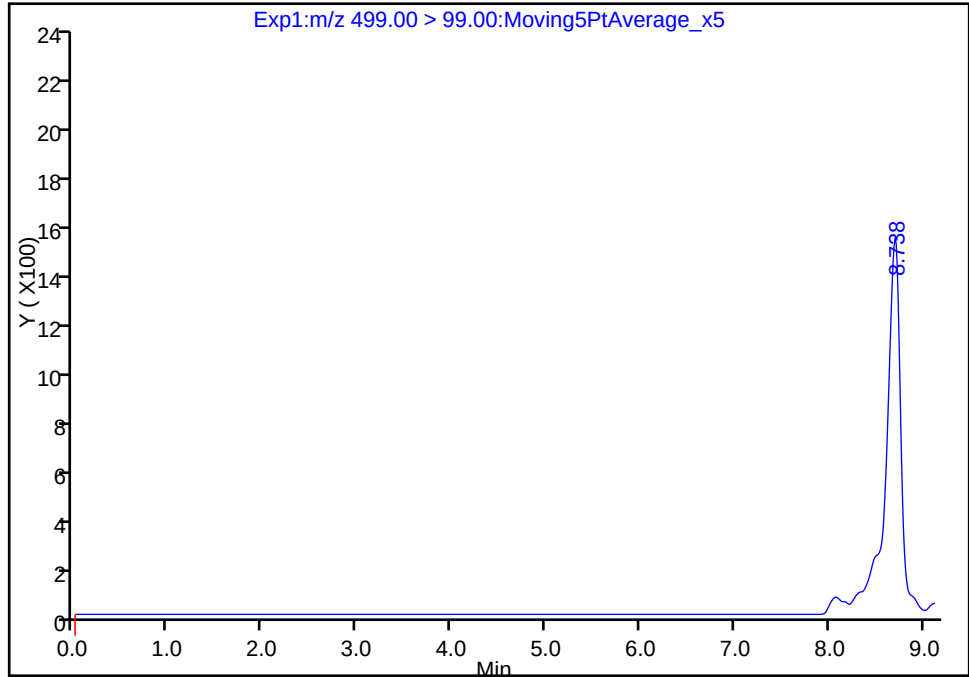
Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_010.d
Injection Date: 21-Nov-2017 02:54:50 Instrument ID: A7_N
Lims ID: 460-144244-A-5-B Lab Sample ID: 320-144244-5
Client ID: MW-3S
Operator ID: abservice ALS Bottle#: 10 Worklist Smp#: 11
Injection Vol: 1.0 ul Dil. Factor: 1.0000
Method: A7_N Limit Group: LC PFAS ICAL
Column: Detector EXP1

18 Perfluorooctane sulfonic acid, CAS: 1763-23-1

Signal: 2

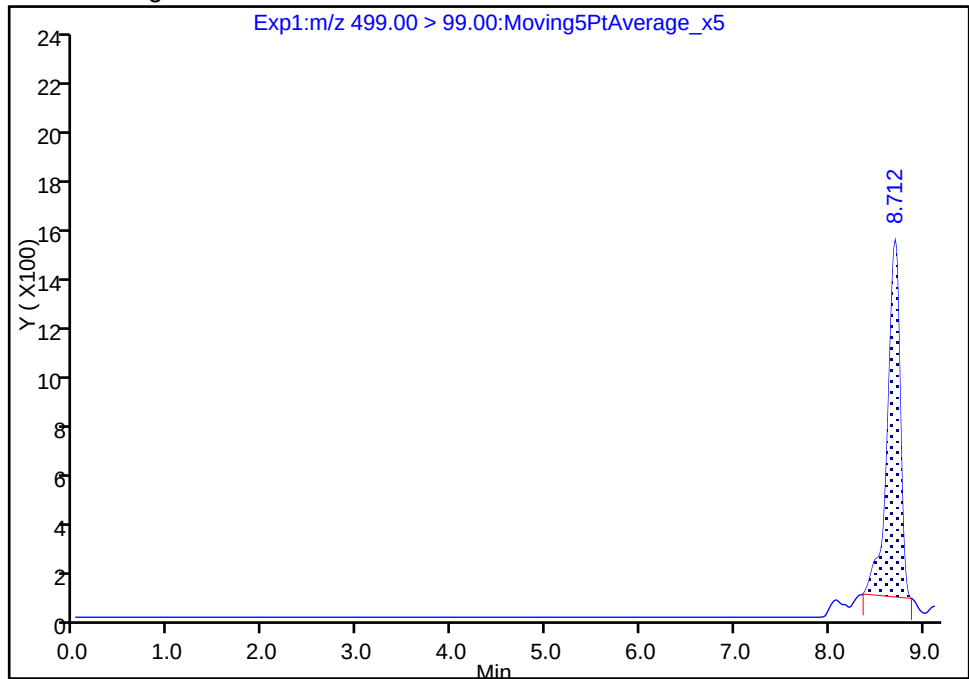
RT: 8.74
Area: 0
Amount: 0.000707
Amount Units: ng/ml

Processing Integration Results



RT: 8.71
Area: 13228
Amount: 0.000707
Amount Units: ng/ml

Manual Integration Results



Reviewer: westendorfc, 22-Nov-2017 09:41:34

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Sacramento

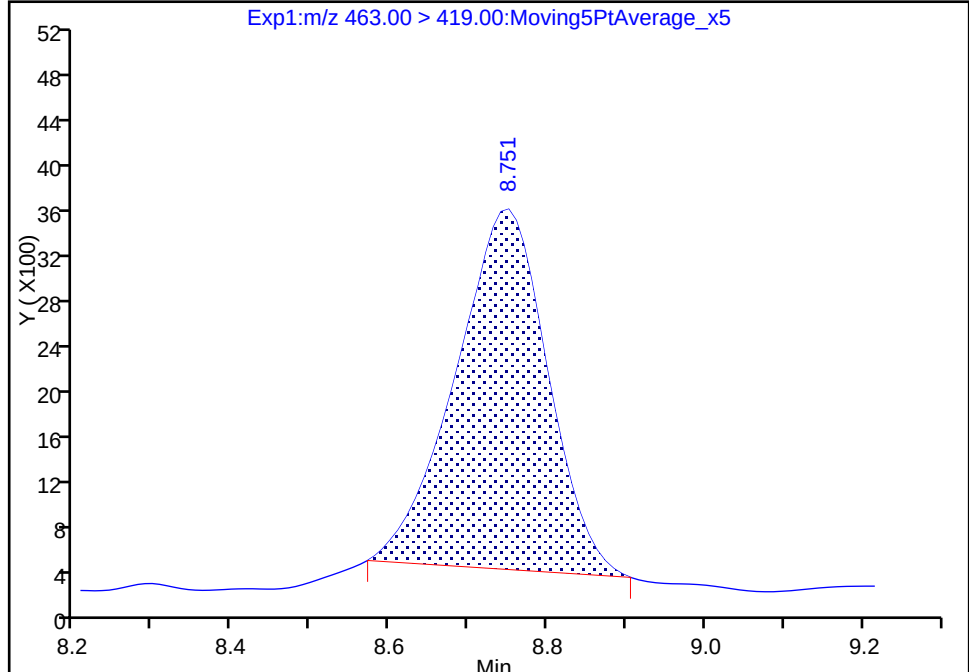
Data File:	\\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_010.d				
Injection Date:	21-Nov-2017 02:54:50	Instrument ID:	A7_N		
Lims ID:	460-144244-A-5-B	Lab Sample ID:	320-144244-5		
Client ID:	MW-3S				
Operator ID:	abservice	ALS Bottle#:	10	Worklist Smp#:	11
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	A7_N	Limit Group:	LC PFAS ICAL		
Column:		Detector	EXP1		

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

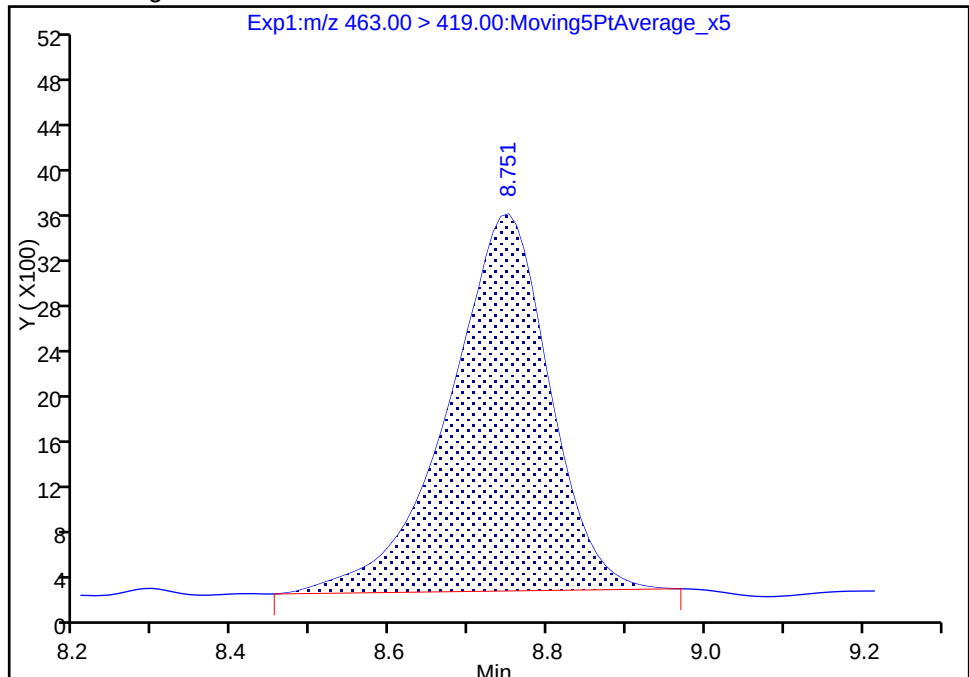
RT: 8.75
Area: 25657
Amount: 0.000777
Amount Units: ng/ml

Processing Integration Results



RT: 8.75
Area: 29436
Amount: 0.000891
Amount Units: ng/ml

Manual Integration Results



Reviewer: westendorfc, 22-Nov-2017 09:44:55

Audit Action: Manually Integrated

Audit Reason: Baseline

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-3D</u>	Lab Sample ID: <u>460-144244-6</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_012.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>11/01/2017 12:55</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 03:31</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	0.89	J	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	102		25-150
STL01892	13C4-PFHpA	99		25-150
STL00990	13C4 PFOA	101		25-150
STL00991	13C4 PFOS	102		25-150
STL00995	13C5 PFNA	99		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_012.d
 Lims ID: 460-144244-A-6-B
 Client ID: MW-3D
 Sample Type: Client
 Inject. Date: 21-Nov-2017 03:31:32 ALS Bottle#: 12 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-6-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc Date: 22-Nov-2017 09:45:28

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

D 10 18O2 PFHxS
 403.00 > 84.00 7.546 7.555 -0.009 3956063 0.0483 102 34410

D 11 13C4-PFHpA
 367.00 > 322.00 7.559 7.561 -0.002 2365710 0.0493 98.7 23882

12 Perfluoroheptanoic acid
 363.00 > 319.00 7.546 7.561 -0.015 1.000 12925 0.000264 14.3

D 14 13C4 PFOA
 417.00 > 372.00 8.135 8.150 -0.015 2120822 0.0504 101 29290

15 Perfluorooctanoic acid
 413.00 > 369.00 8.135 8.152 -0.017 1.000 26110 0.000536 57.5
 413.00 > 169.00 8.135 8.152 -0.017 1.000 29194 0.89(0.90-1.10) 347

D 17 13C4 PFOS
 503.00 > 80.00 8.704 8.734 -0.030 3939708 0.0487 102 15226

18 Perfluorooctane sulfonic acid
 499.00 > 80.00 8.704 8.738 -0.034 1.000 50307 0.000543 36.7 M
 499.00 > 99.00 8.704 8.738 -0.034 1.000 9236 5.45(0.90-1.10) 37.9 M

D 19 13C5 PFNA
 468.00 > 423.00 8.733 8.770 -0.037 1602157 0.0497 99.4 23770

QC Flag Legend

Review Flags

M - Manually Integrated

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_012.d

Injection Date: 21-Nov-2017 03:31:32

Instrument ID: A7_N

Lims ID: 460-144244-A-6-B

Lab Sample ID: 320-144244-6

Client ID: MW-3D

Operator ID: abservice

ALS Bottle#: 12

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

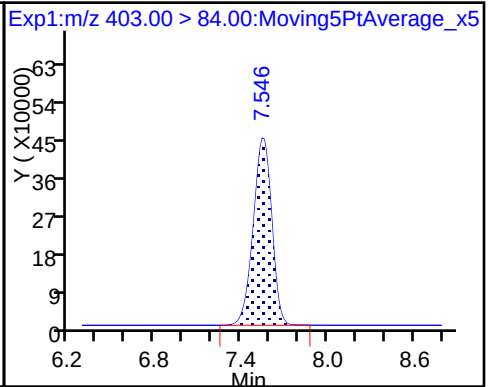
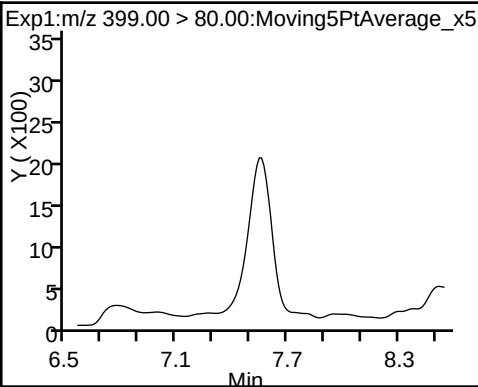
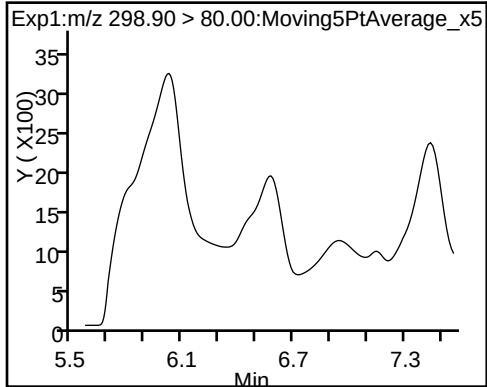
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid (ND)

9 Perfluorohexanesulfonic acid (ND)

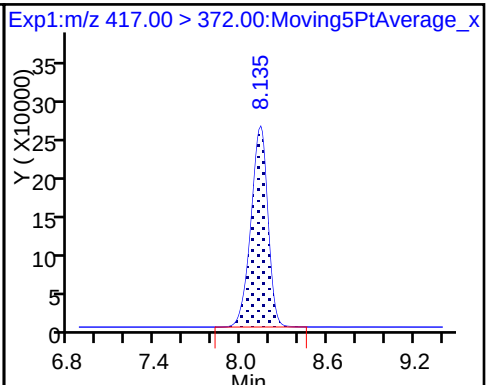
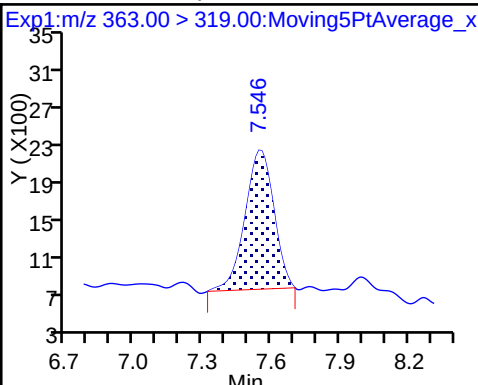
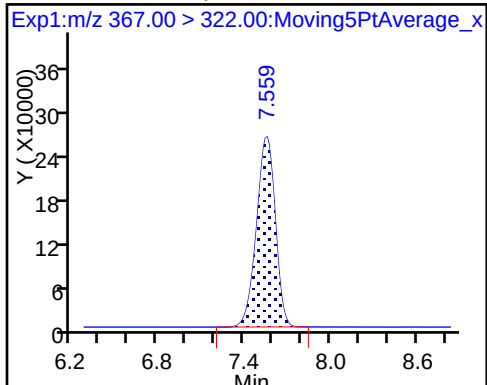
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

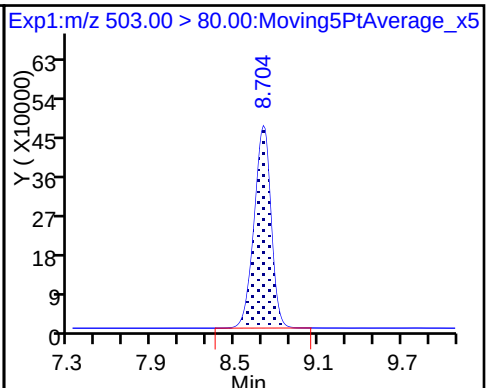
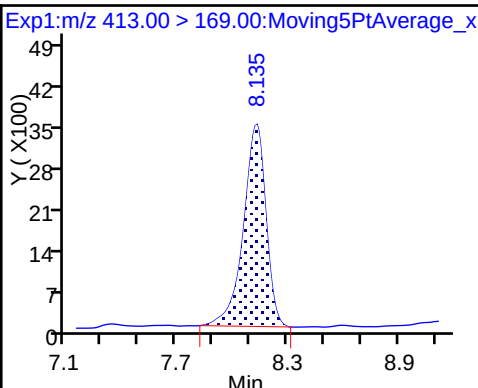
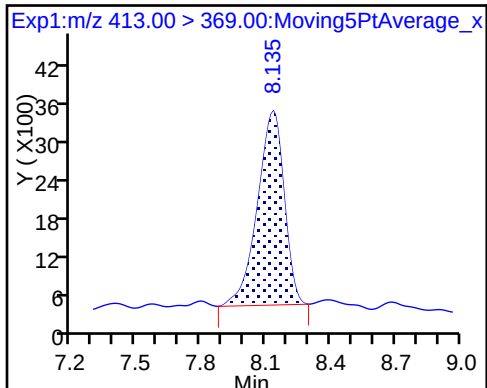
D 14 13C4 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

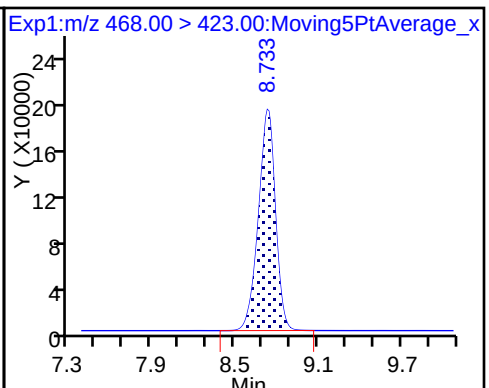
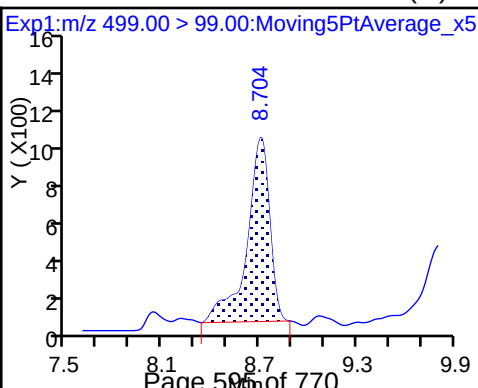
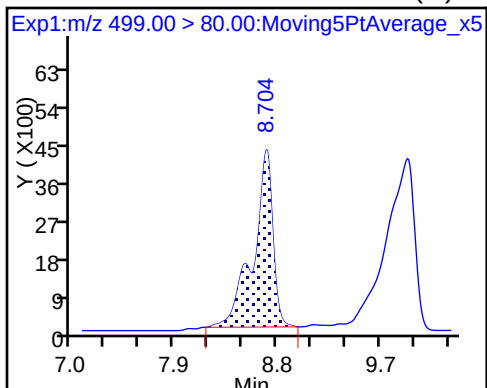
D 17 13C4 PFOS



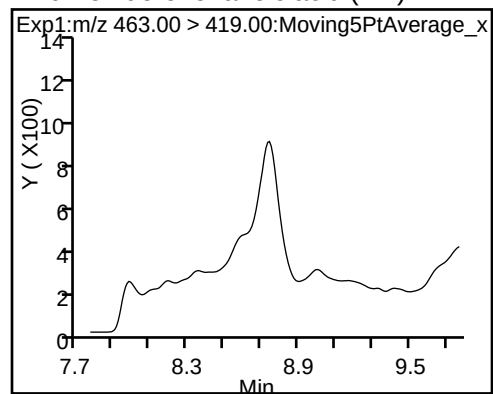
18 Perfluorooctane sulfonic acid (M)

18 Perfluorooctane sulfonic acid (M)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



TestAmerica Sacramento

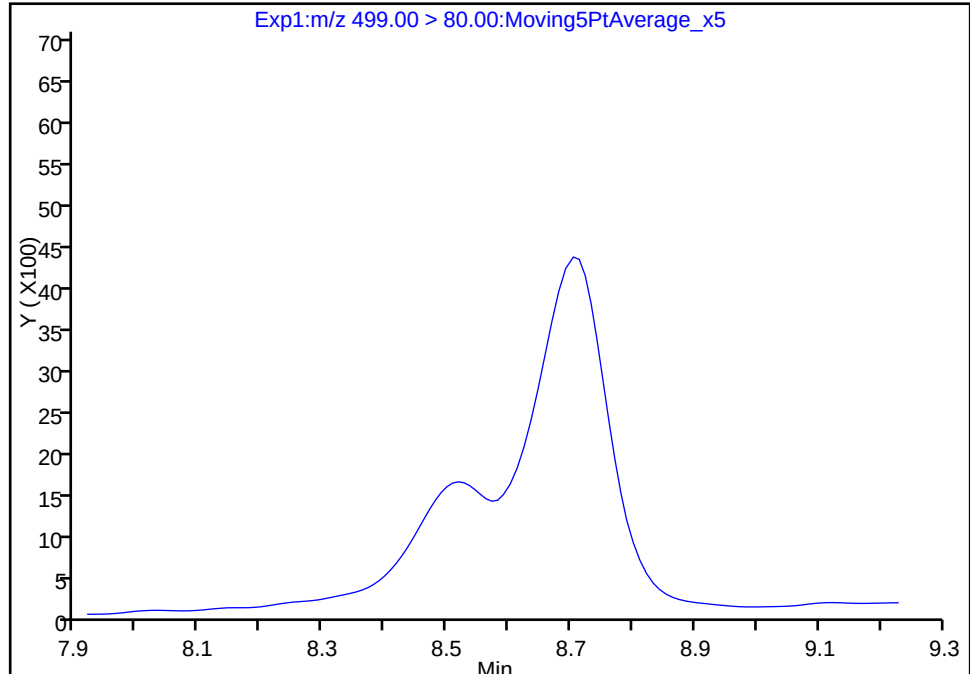
Data File:	\\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_012.d				
Injection Date:	21-Nov-2017 03:31:32	Instrument ID:	A7_N		
Lims ID:	460-144244-A-6-B	Lab Sample ID:	320-144244-6		
Client ID:	MW-3D				
Operator ID:	abservice	ALS Bottle#:	12	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	A7_N	Limit Group:	LC PFAS ICAL		
Column:		Detector	EXP1		

18 Perfluorooctane sulfonic acid, CAS: 1763-23-1

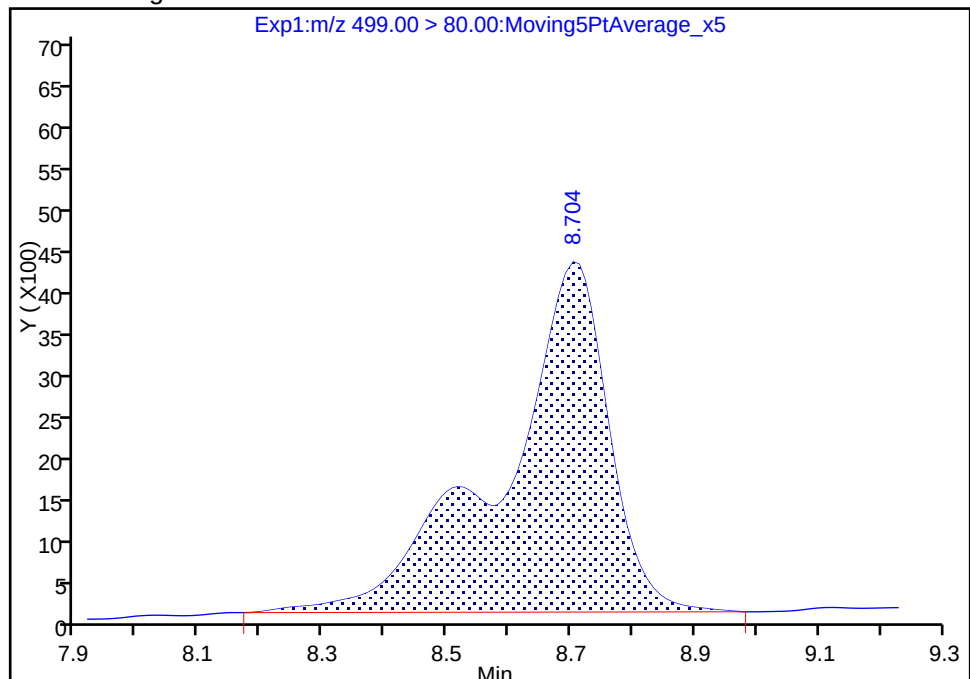
Signal: 1

Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results



Reviewer: westendorfc, 22-Nov-2017 09:45:22

Audit Action: Manually Integrated

Audit Reason: Assign Peak

TestAmerica Sacramento

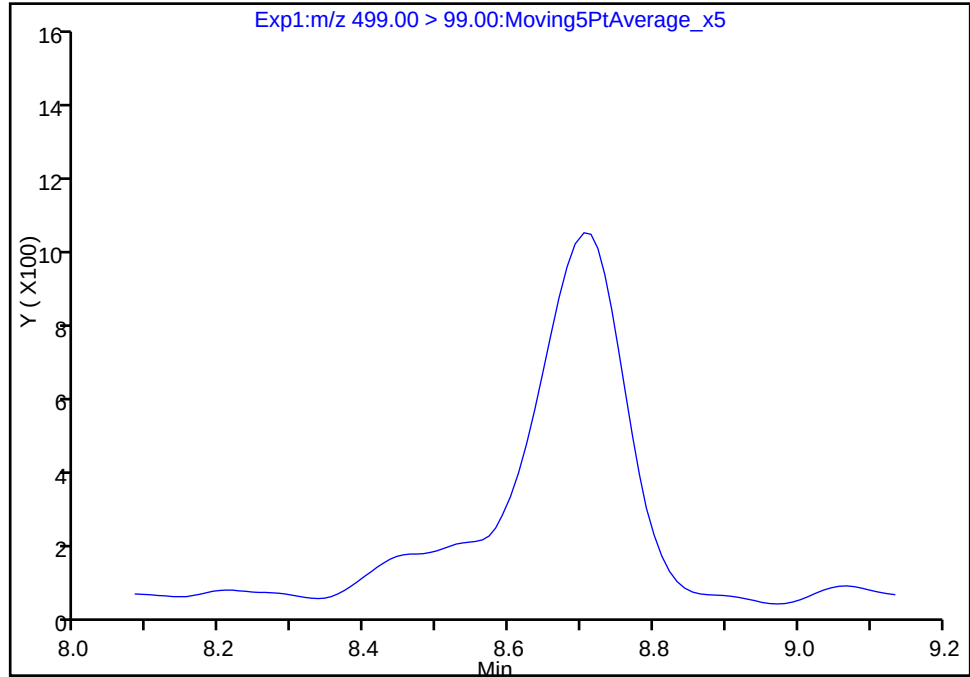
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Injection Date:	21-Nov-2017 03:31:32	Instrument ID:	A7_N		
Lims ID:	460-144244-A-6-B	Lab Sample ID:	320-144244-6		
Client ID:	MW-3D				
Operator ID:	abservice	ALS Bottle#:	12	Worklist Smp#:	13
Injection Vol:	1.0 ul	Dil. Factor:	1.0000		
Method:	A7_N	Limit Group:	LC PFAS ICAL		
Column:		Detector	EXP1		

18 Perfluorooctane sulfonic acid, CAS: 1763-23-1

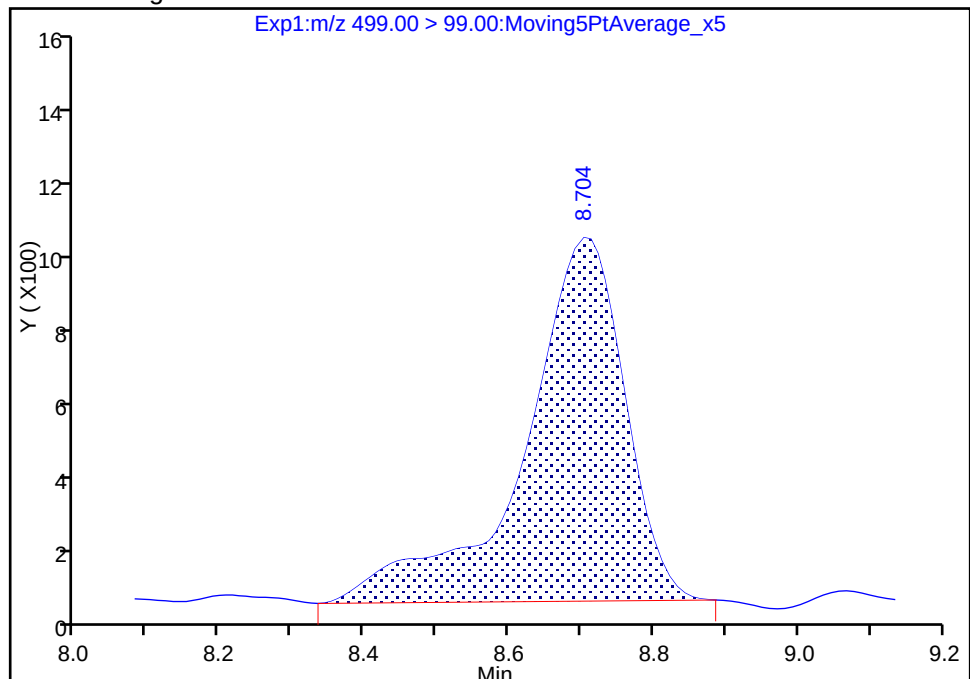
Signal: 2

Not Detected
Expected RT: 8.74

Processing Integration Results



Manual Integration Results

RT: 8.70
Area: 9236
Amount: 0.000543
Amount Units: ng/ml

Reviewer: westendorfc, 22-Nov-2017 09:45:24

Audit Action: Manually Integrated

Audit Reason: Assign Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-4S</u>	Lab Sample ID: <u>460-144244-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_013.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>11/01/2017 12:20</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 03:49</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	105		25-150
STL01892	13C4-PFHpA	104		25-150
STL00990	13C4 PFOA	104		25-150
STL00991	13C4 PFOS	103		25-150
STL00995	13C5 PFNA	104		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_013.d
 Lims ID: 460-144244-A-7-B
 Client ID: MW-4S
 Sample Type: Client
 Inject. Date: 21-Nov-2017 03:49:54 ALS Bottle#: 13 Worklist Smp#: 14
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-7-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d
 Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 22-Nov-2017 09:45:42

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.587	6.569	0.018	1.000	66793	0.000435			31.0	
D 10 18O2 PFHxS										
403.00 > 84.00	7.559	7.555	0.004		4057383	0.0495		105	34081	
D 11 13C4-PFHpA										
367.00 > 322.00	7.571	7.561	0.010		2481239	0.0518		104	23745	
D 14 13C4 PFOA										
417.00 > 372.00	8.153	8.150	0.003		2185766	0.0520		104	35127	
D 17 13C4 PFOS										
503.00 > 80.00	8.723	8.734	-0.011		3964834	0.0490		103	21570	
D 19 13C5 PFNA										
468.00 > 423.00	8.752	8.770	-0.018		1671413	0.0518		104	25955	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_013.d

Injection Date: 21-Nov-2017 03:49:54

Instrument ID: A7_N

Lims ID: 460-144244-A-7-B

Lab Sample ID: 320-144244-7

Client ID: MW-4S

Operator ID: abservice

ALS Bottle#: 13

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

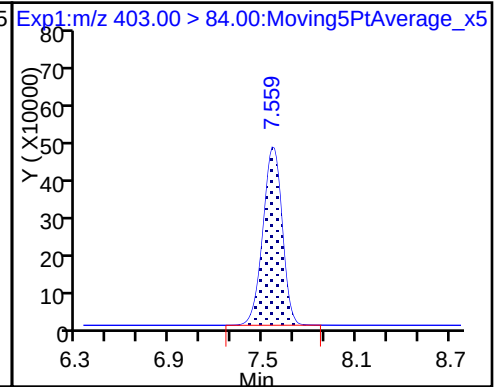
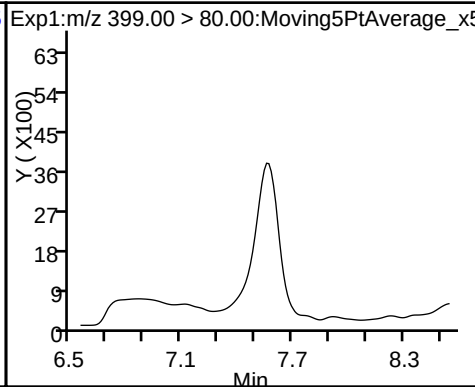
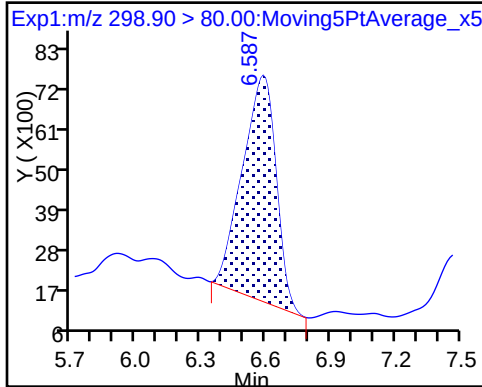
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid

9 Perfluorohexanesulfonic acid (ND)

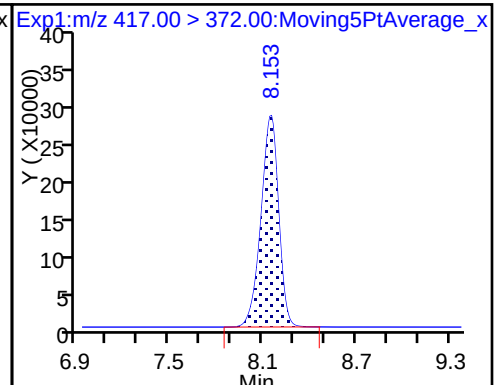
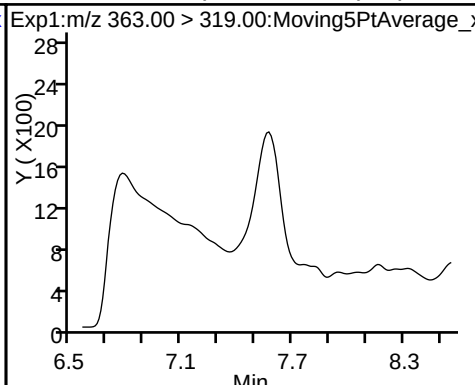
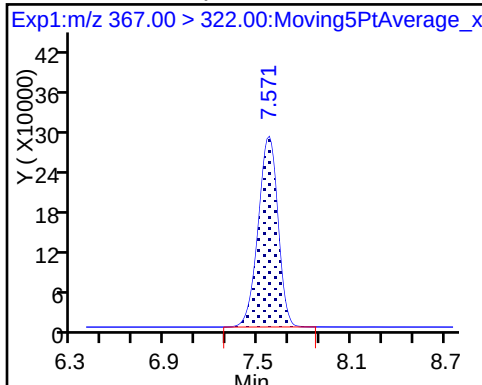
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

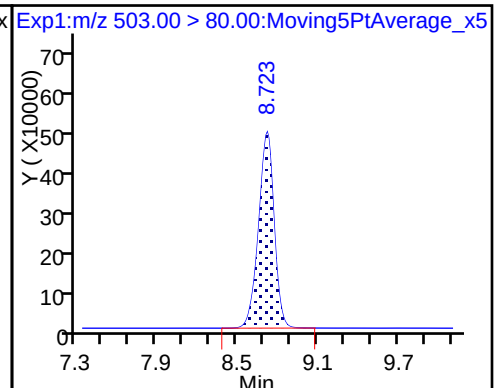
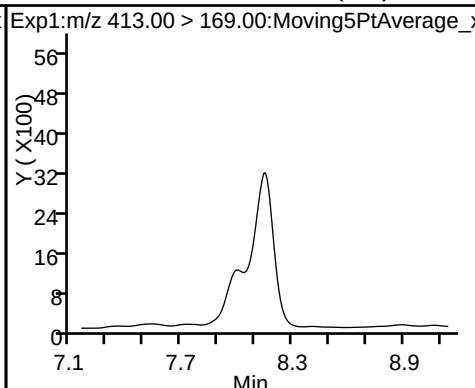
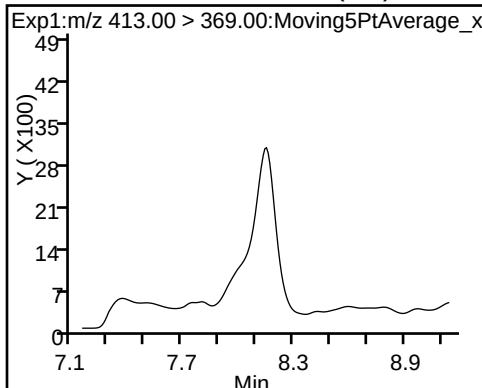
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

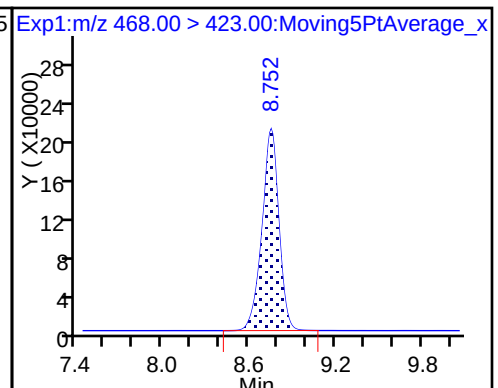
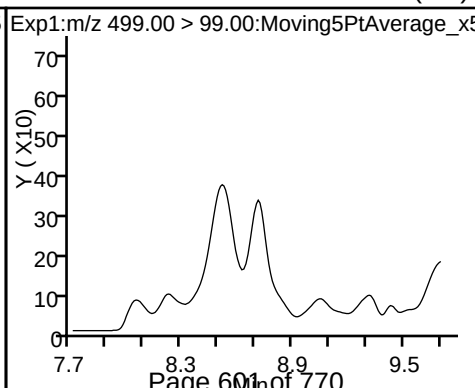
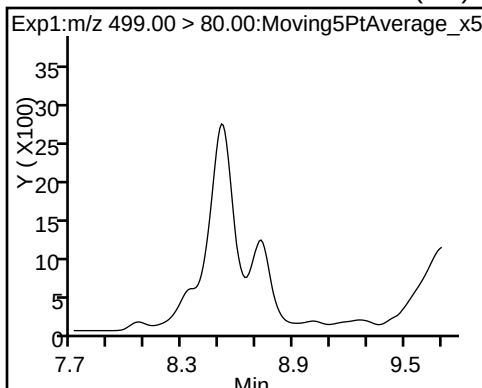
D 17 13C4 PFOS



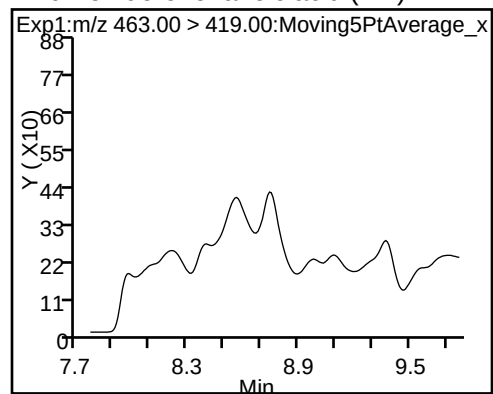
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-4D</u>	Lab Sample ID: <u>460-144244-8</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_014.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>11/01/2017 12:30</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 04:08</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	100		25-150
STL01892	13C4-PFHpA	102		25-150
STL00990	13C4 PFOA	100		25-150
STL00991	13C4 PFOS	99		25-150
STL00995	13C5 PFNA	98		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_014.d
 Lims ID: 460-144244-B-8-A
 Client ID: MW-4D
 Sample Type: Client
 Inject. Date: 21-Nov-2017 04:08:15 ALS Bottle#: 14 Worklist Smp#: 15
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-b-8-a
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d
 Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 22-Nov-2017 09:45:58

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.587	6.569	0.018	1.000	39992	0.000272			24.6	
D 10 18O2 PFHxS										
403.00 > 84.00	7.558	7.555	0.003		3884294	0.0474		100	40780	
D 11 13C4-PFHpA										
367.00 > 322.00	7.558	7.561	-0.003		2442648	0.0509		102	27773	
D 14 13C4 PFOA										
417.00 > 372.00	8.134	8.150	-0.016		2104835	0.0500		100	26967	
D 17 13C4 PFOS										
503.00 > 80.00	8.704	8.734	-0.030		3825410	0.0473		98.9	19888	
D 19 13C5 PFNA										
468.00 > 423.00	8.732	8.770	-0.038		1585512	0.0492		98.3	21654	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_014.d

Injection Date: 21-Nov-2017 04:08:15

Instrument ID: A7_N

Lims ID: 460-144244-B-8-A

Lab Sample ID: 320-144244-8

Client ID: MW-4D

Operator ID: abservice

ALS Bottle#: 14

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

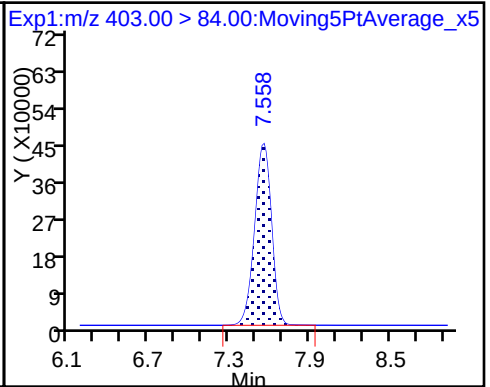
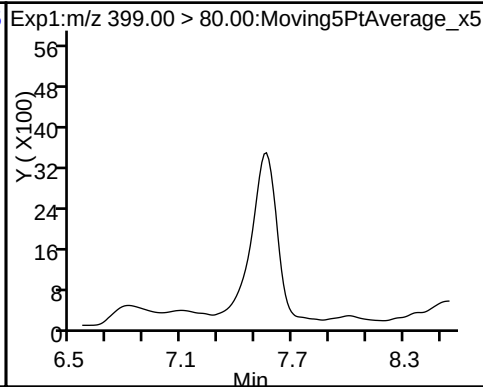
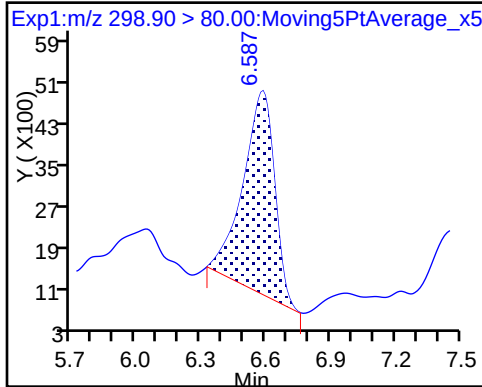
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid

9 Perfluorohexanesulfonic acid (ND)

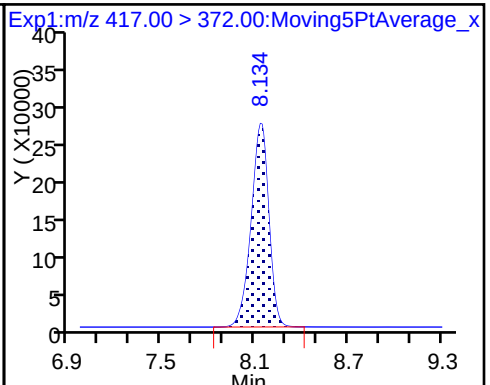
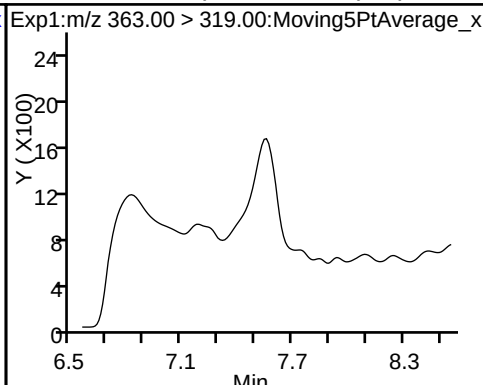
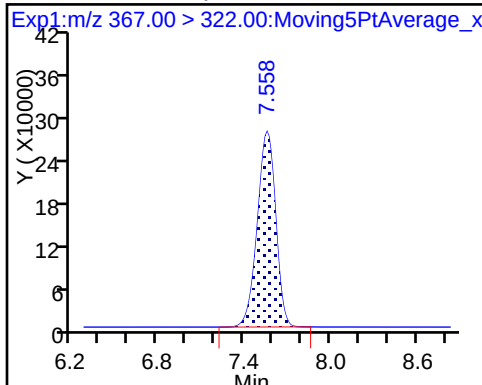
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

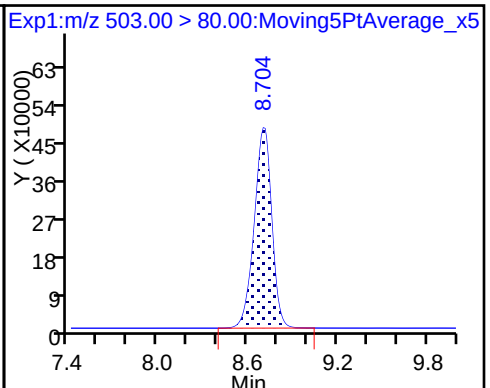
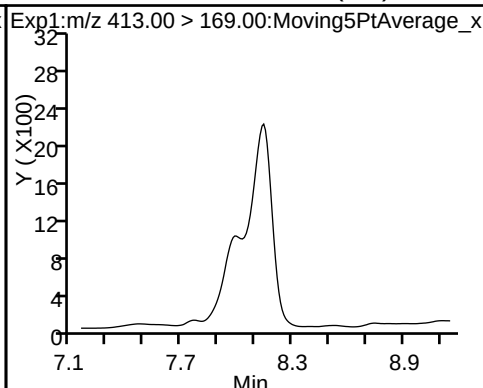
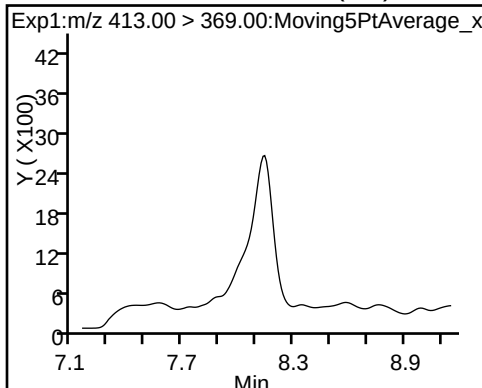
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

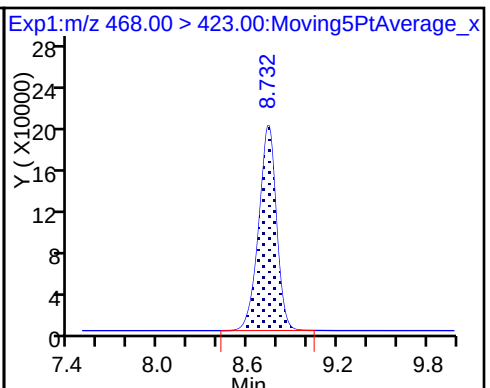
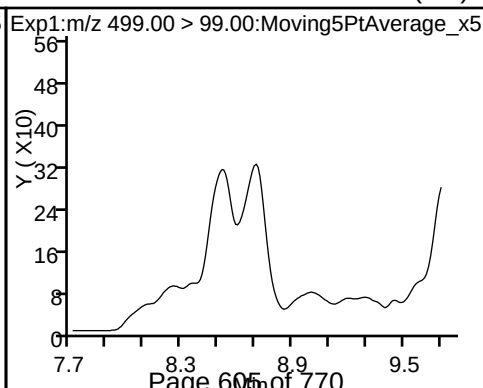
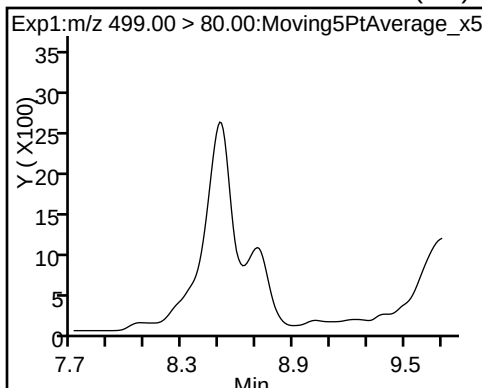
D 17 13C4 PFOS



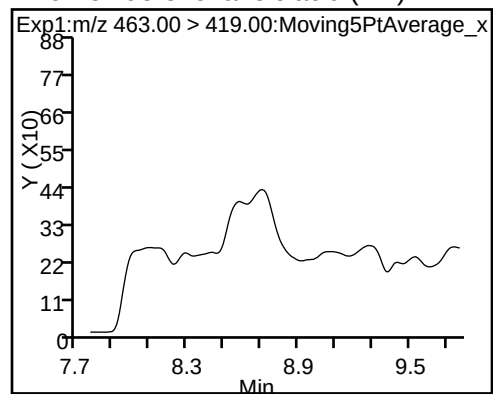
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>NPPRS</u>	Lab Sample ID: <u>460-144244-9</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_015.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 12:50</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 04:26</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	106		25-150
STL01892	13C4-PFHpA	109		25-150
STL00990	13C4 PFOA	107		25-150
STL00991	13C4 PFOS	104		25-150
STL00995	13C5 PFNA	108		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_015.d
 Lims ID: 460-144244-A-9-B
 Client ID: NPPRS
 Sample Type: Client
 Inject. Date: 21-Nov-2017 04:26:36 ALS Bottle#: 15 Worklist Smp#: 16
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-9-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.573	6.569	0.004	1.000	65833	0.000425			42.6	
D 10 18O2 PFHxS										
403.00 > 84.00	7.554	7.555	-0.001		4095989	0.0500		106	34549	
D 11 13C4-PFHpA										
367.00 > 322.00	7.554	7.561	-0.007		2606465	0.0544		109	30223	
D 14 13C4 PFOA										
417.00 > 372.00	8.129	8.150	-0.021		2257203	0.0537		107	32171	
D 17 13C4 PFOS										
503.00 > 80.00	8.697	8.734	-0.037		4021000	0.0497		104	20698	
D 19 13C5 PFNA										
468.00 > 423.00	8.738	8.770	-0.032		1740279	0.0540		108	30853	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_015.d

Injection Date: 21-Nov-2017 04:26:36

Instrument ID: A7_N

Lims ID: 460-144244-A-9-B

Lab Sample ID: 320-144244-9

Client ID: NPPRS

Operator ID: abservice

ALS Bottle#: 15

Worklist Smp#: 16

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

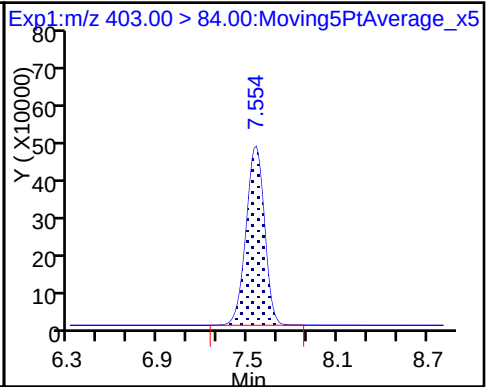
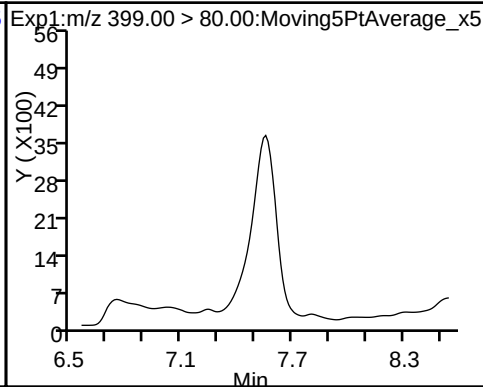
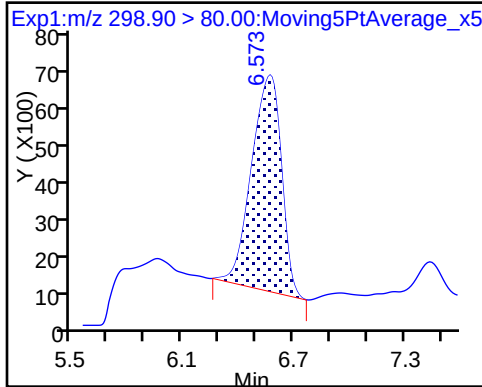
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid

9 Perfluorohexanesulfonic acid (ND)

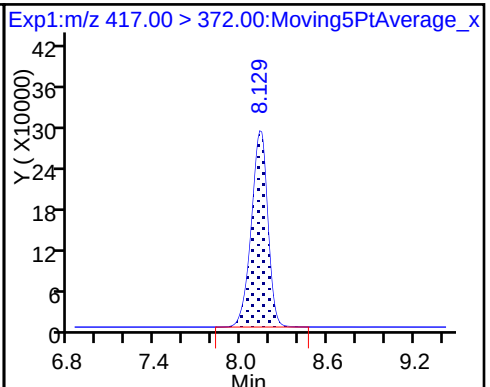
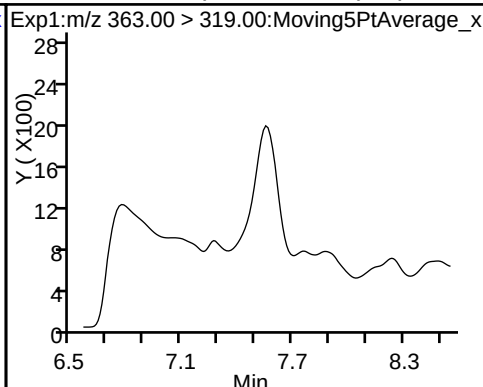
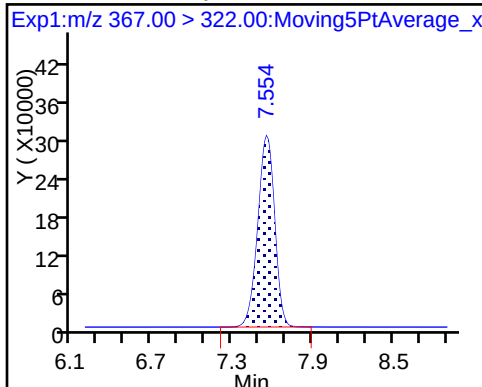
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

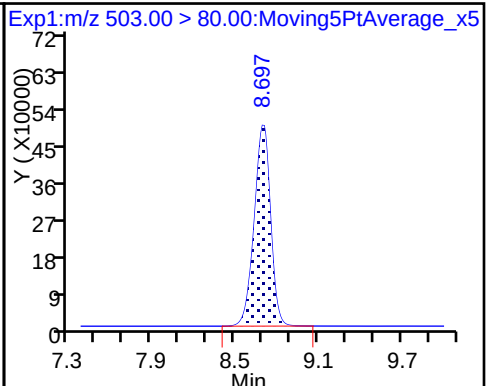
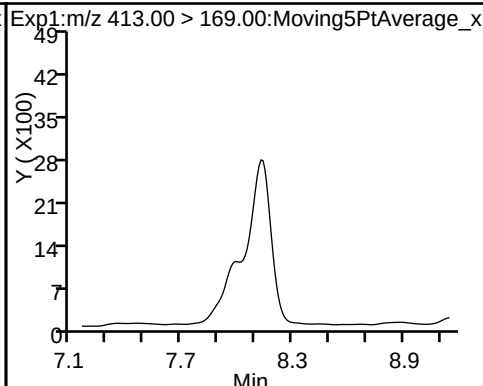
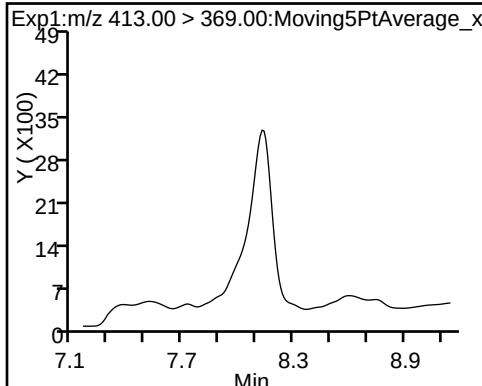
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

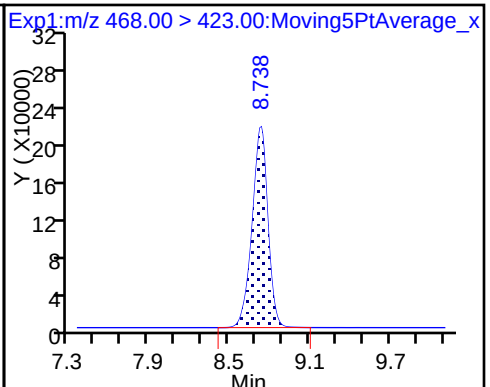
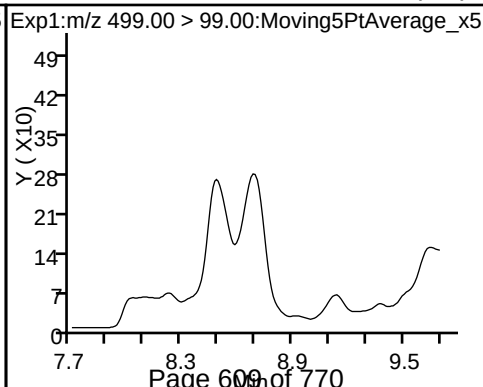
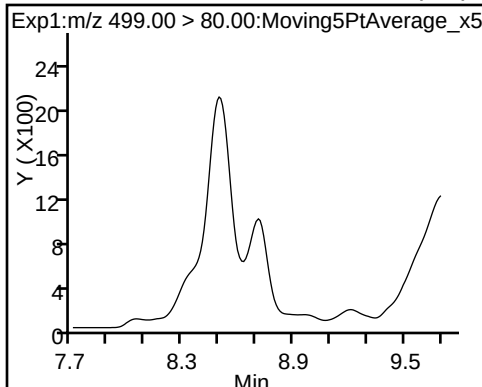
D 17 13C4 PFOS



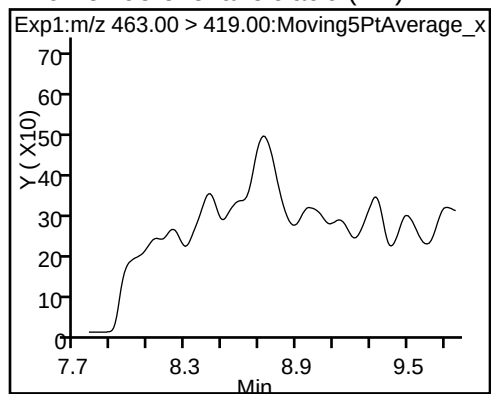
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>SPPRS</u>	Lab Sample ID: <u>460-144244-10</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_016.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 12:30</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 04:44</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	0.99	J	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	112		25-150
STL01892	13C4-PFHpA	117		25-150
STL00990	13C4 PFOA	112		25-150
STL00991	13C4 PFOS	112		25-150
STL00995	13C5 PFNA	112		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_016.d
 Lims ID: 460-144244-A-10-B
 Client ID: SPPRS
 Sample Type: Client
 Inject. Date: 21-Nov-2017 04:44:56 ALS Bottle#: 16 Worklist Smp#: 17
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-10-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d
 Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 22-Nov-2017 09:46:17

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.576	6.569	0.007	1.000	97668	0.000598			62.2	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.546	7.552	-0.006	1.000	33844	0.000319			90.7	
D 10 18O2 PFHxS										
403.00 > 84.00	7.546	7.555	-0.009		4321611	0.0528		112	33876	
D 11 13C4-PFHpA										
367.00 > 322.00	7.558	7.561	-0.003		2808832	0.0586		117	29515	
D 14 13C4 PFOA										
417.00 > 372.00	8.134	8.150	-0.016		2360647	0.0561		112	33513	
D 17 13C4 PFOS										
503.00 > 80.00	8.710	8.734	-0.024		4326279	0.0535		112	23511	
D 19 13C5 PFNA										
468.00 > 423.00	8.738	8.770	-0.032		1813677	0.0562		112	24797	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_016.d

Injection Date: 21-Nov-2017 04:44:56

Instrument ID: A7_N

Lims ID: 460-144244-A-10-B

Lab Sample ID: 320-144244-10

Client ID: SPPRS

Operator ID: abservice

ALS Bottle#: 16

Worklist Smp#: 17

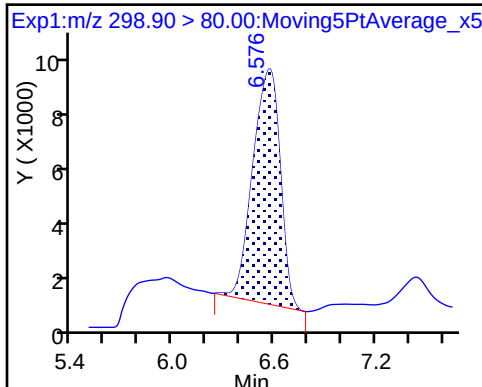
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

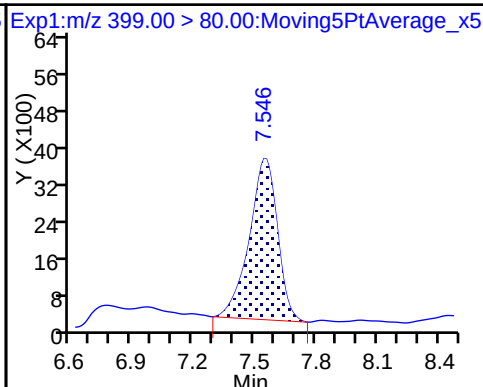
Method: A7_N

Limit Group: LC PFAS ICAL

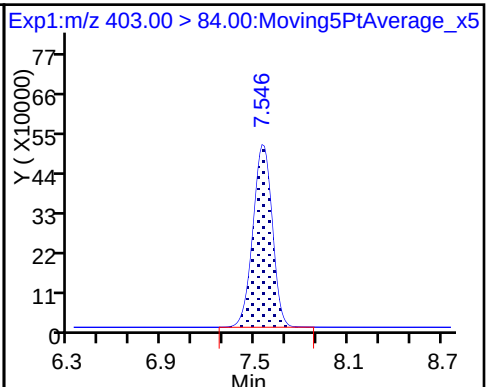
5 Perfluorobutanesulfonic acid



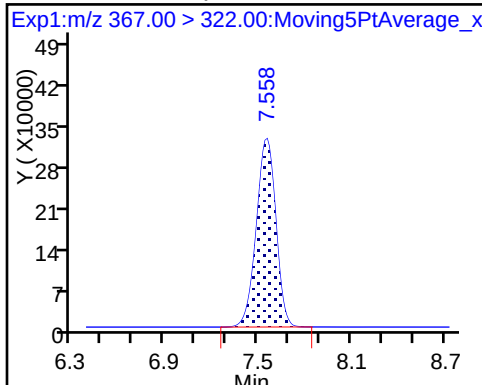
9 Perfluorohexanesulfonic acid



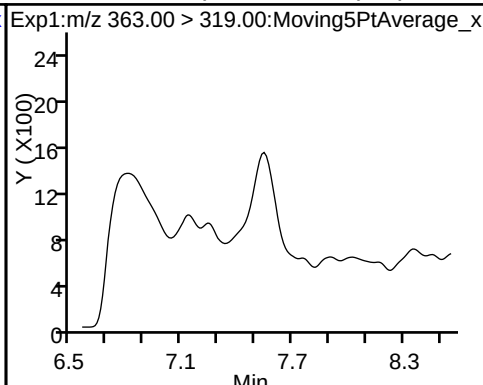
D 10 18O2 PFHxS



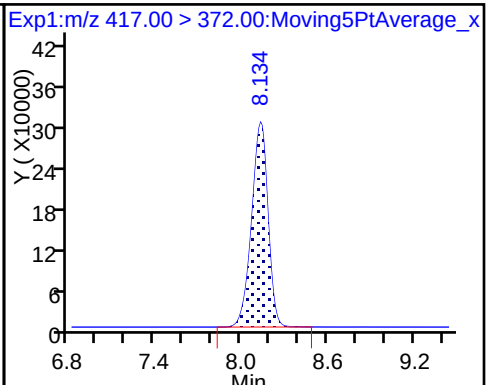
D 11 13C4-PFHpA



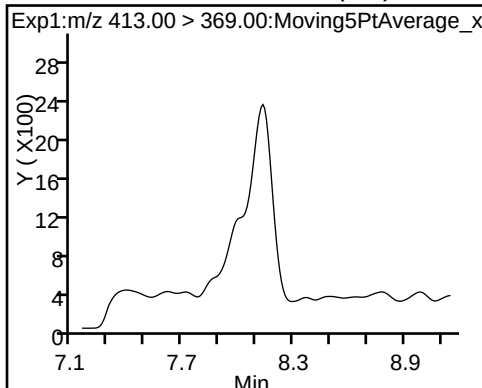
12 Perfluoroheptanoic acid (ND)



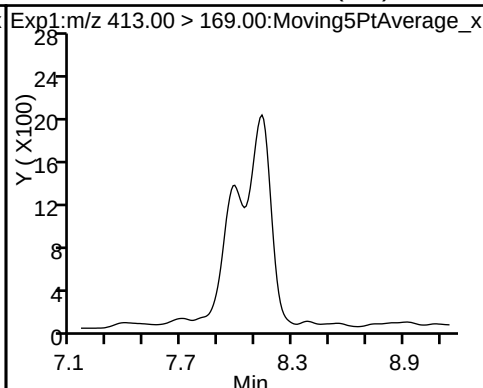
D 14 13C4 PFOA



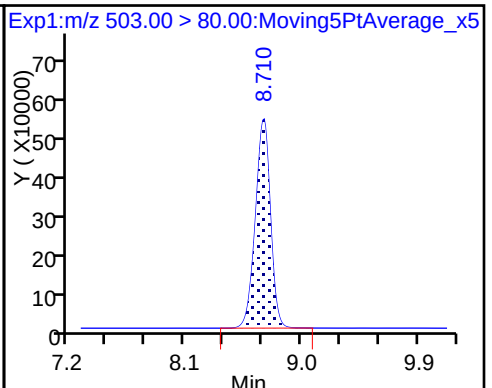
15 Perfluorooctanoic acid (ND)



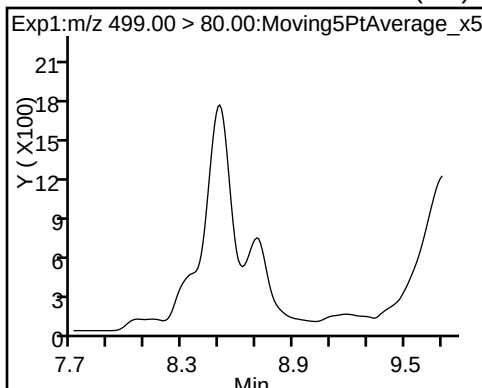
15 Perfluorooctanoic acid (ND)



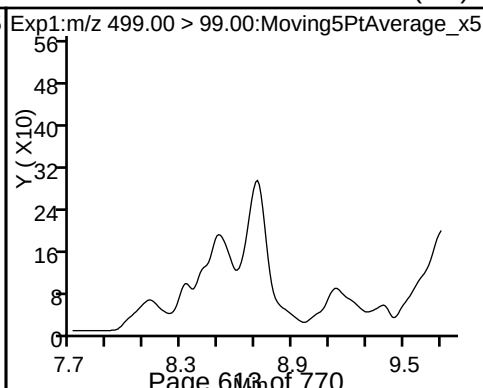
D 17 13C4 PFOS



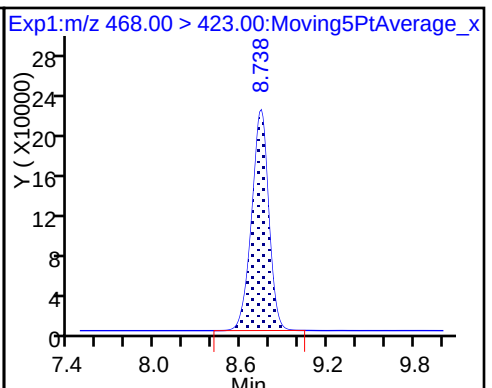
18 Perfluorooctane sulfonic acid (ND)



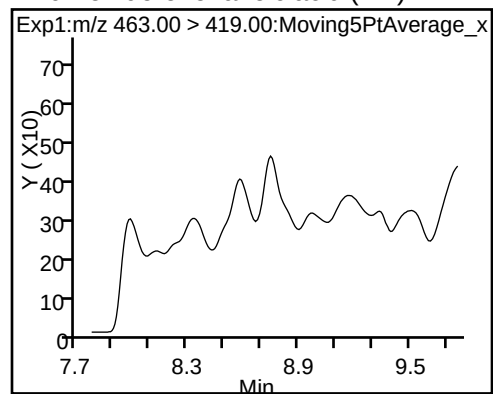
18 Perfluorooctane sulfonic acid (ND)



D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>EB-PROBE</u>	Lab Sample ID: <u>460-144244-11</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_017.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 11:10</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 05:03</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	102		25-150
STL01892	13C4-PFHpA	102		25-150
STL00990	13C4 PFOA	101		25-150
STL00991	13C4 PFOS	100		25-150
STL00995	13C5 PFNA	98		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_017.d
 Lims ID: 460-144244-A-11-B
 Client ID: EB-PROBE
 Sample Type: Client
 Inject. Date: 21-Nov-2017 05:03:18 ALS Bottle#: 17 Worklist Smp#: 18
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-11-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d
 Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 22-Nov-2017 09:46:25

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 10 18O2 PFHxS	403.00 > 84.00	7.545	7.555	-0.010	3945373	0.0482		102	29969	
D 11 13C4-PFHpA	367.00 > 322.00	7.558	7.561	-0.003	2434592	0.0508		102	30795	
D 14 13C4 PFOA	417.00 > 372.00	8.134	8.150	-0.016	2122567	0.0505		101	23068	
D 17 13C4 PFOS	503.00 > 80.00	8.700	8.734	-0.034	3849972	0.0476		99.6	14503	
D 19 13C5 PFNA	468.00 > 423.00	8.731	8.770	-0.039	1585114	0.0491		98.3	19563	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_017.d

Injection Date: 21-Nov-2017 05:03:18

Instrument ID: A7_N

Lims ID: 460-144244-A-11-B

Lab Sample ID: 320-144244-11

Client ID: EB-PROBE

Operator ID: abservice

ALS Bottle#: 17

Worklist Smp#: 18

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

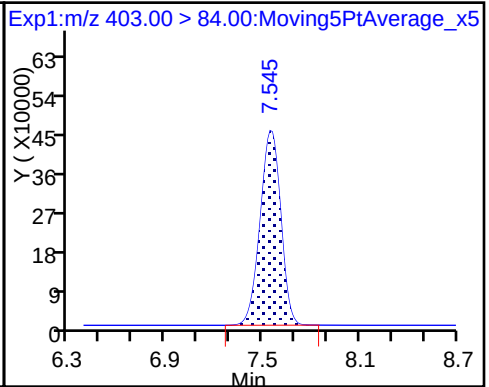
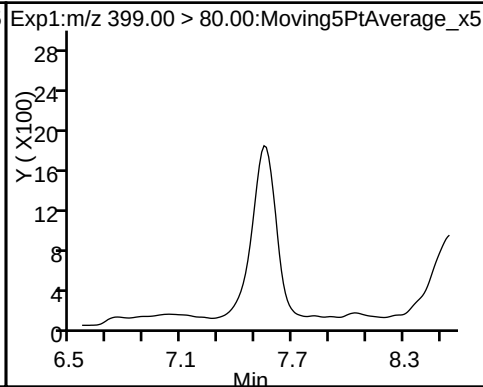
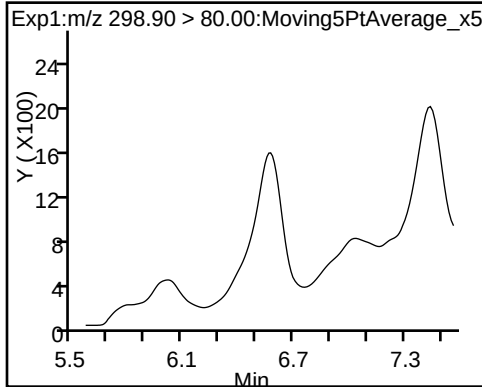
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid (ND)

9 Perfluorohexanesulfonic acid (ND)

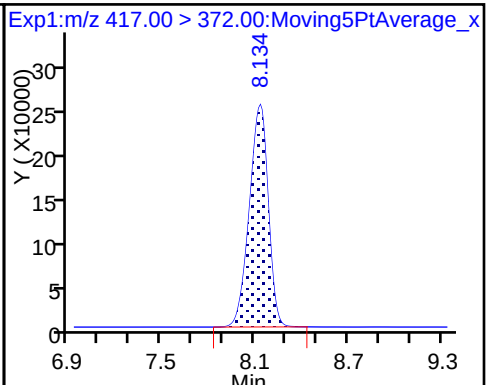
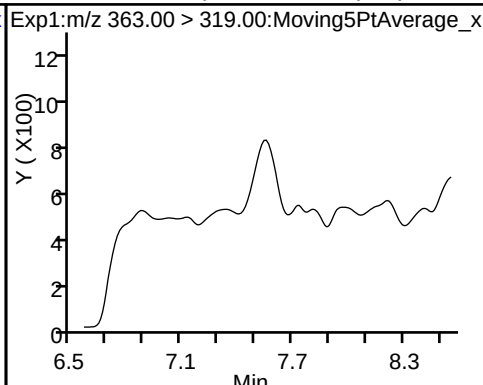
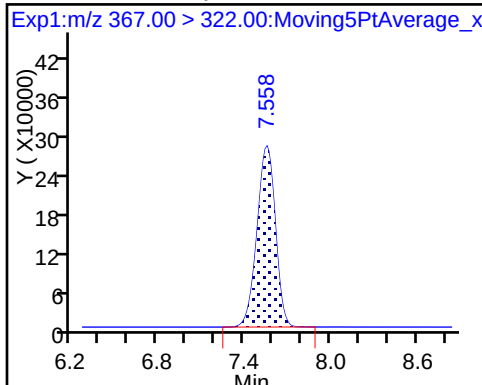
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

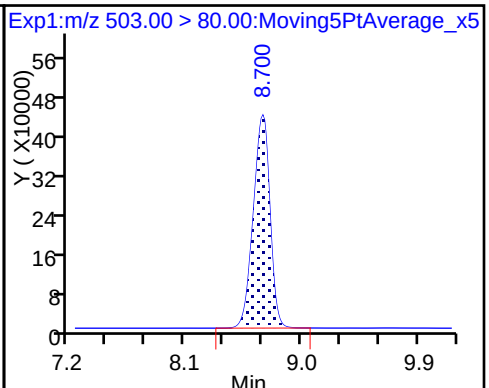
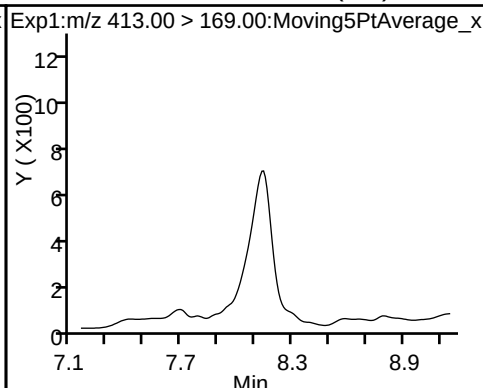
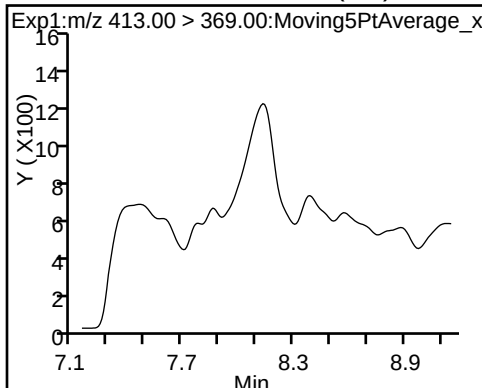
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

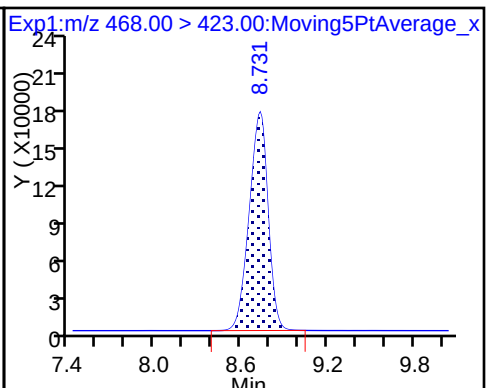
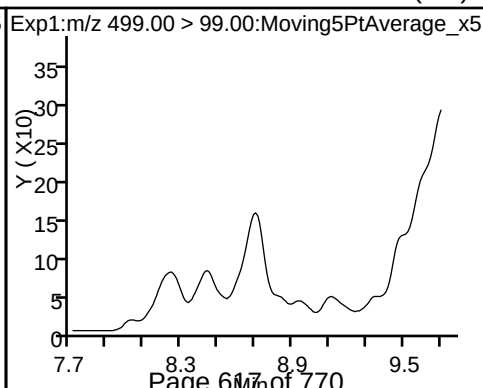
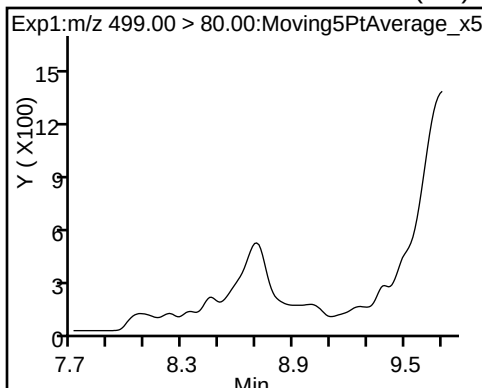
D 17 13C4 PFOS



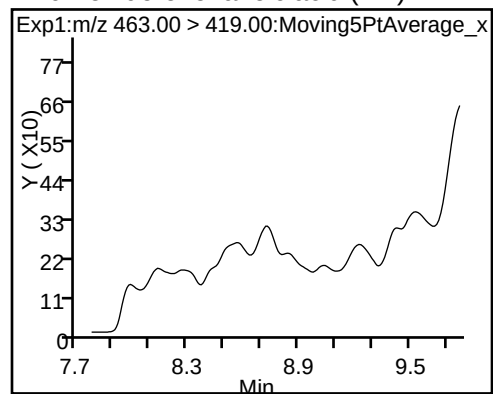
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>EB-TUBING</u>	Lab Sample ID: <u>460-144244-12</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_018.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 11:25</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 05:21</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	99		25-150
STL01892	13C4-PFHpA	100		25-150
STL00990	13C4 PFOA	97		25-150
STL00991	13C4 PFOS	96		25-150
STL00995	13C5 PFNA	98		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_018.d
 Lims ID: 460-144244-A-12-B
 Client ID: EB-TUBING
 Sample Type: Client
 Inject. Date: 21-Nov-2017 05:21:38 ALS Bottle#: 18 Worklist Smp#: 19
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-12-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc Date: 22-Nov-2017 09:46:34

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 10 18O2 PFHxS	403.00 > 84.00	7.545	7.555	-0.010	3851924	0.0470		99.4	33875	
D 11 13C4-PFHpA	367.00 > 322.00	7.558	7.561	-0.003	2389265	0.0498		99.7	27057	
D 14 13C4 PFOA	417.00 > 372.00	8.134	8.150	-0.016	2048526	0.0487		97.4	27294	
D 17 13C4 PFOS	503.00 > 80.00	8.700	8.734	-0.034	3715912	0.0459		96.1	15650	
D 19 13C5 PFNA	468.00 > 423.00	8.731	8.770	-0.039	1583990	0.0491		98.2	22742	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_018.d

Injection Date: 21-Nov-2017 05:21:38

Instrument ID: A7_N

Lims ID: 460-144244-A-12-B

Lab Sample ID: 320-144244-12

Client ID: EB-TUBING

Operator ID: abservice

ALS Bottle#: 18

Worklist Smp#: 19

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

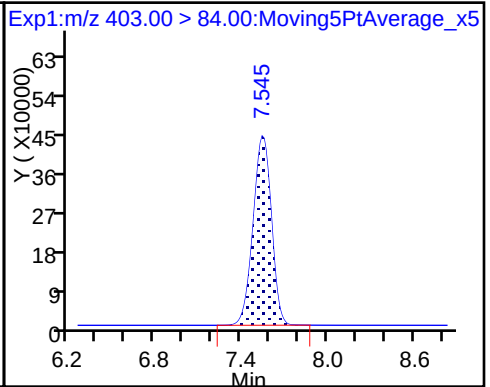
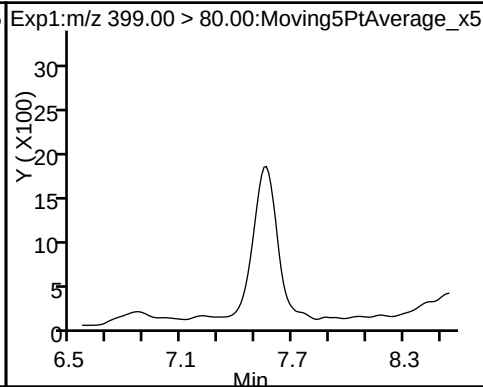
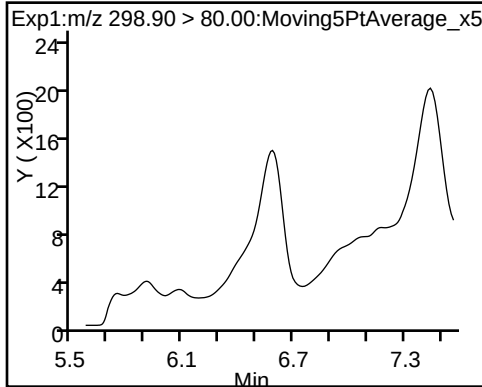
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid (ND)

9 Perfluorohexanesulfonic acid (ND)

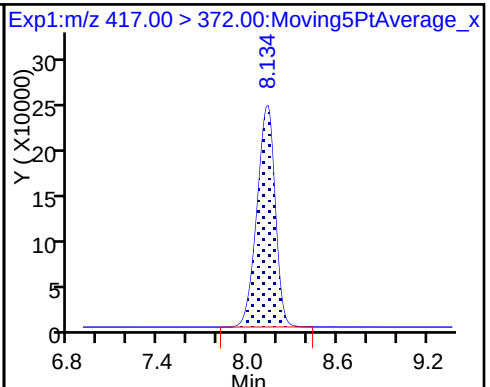
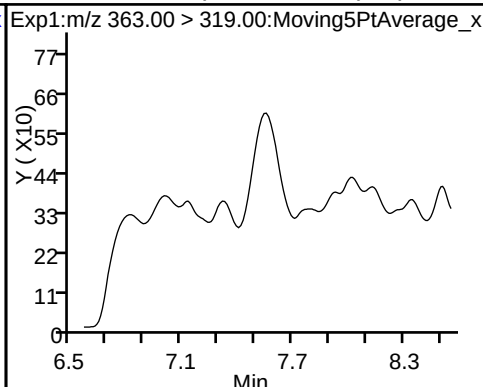
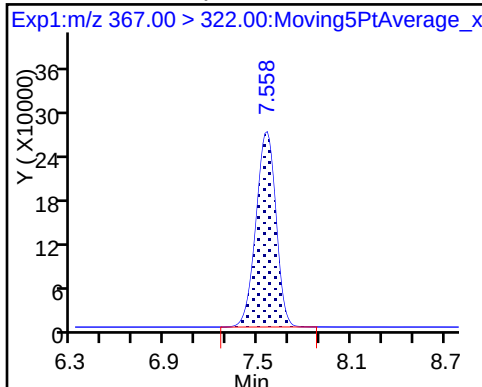
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

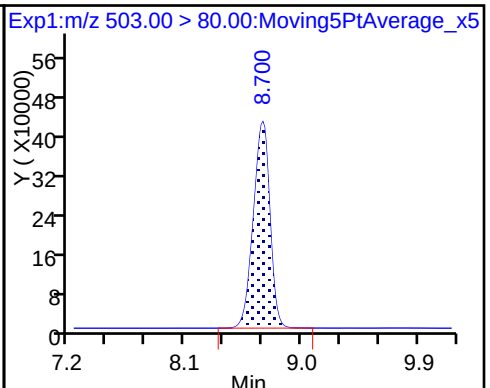
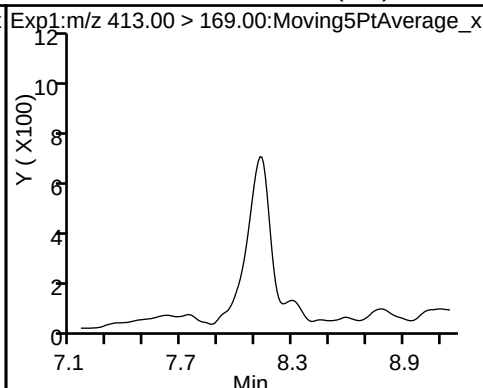
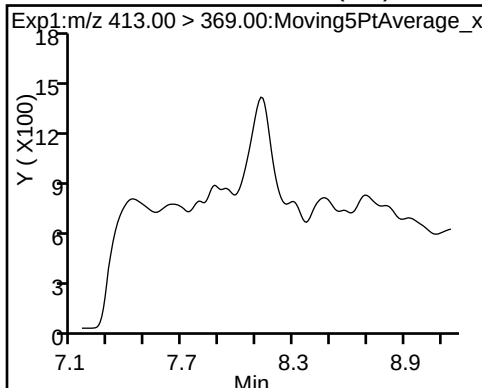
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

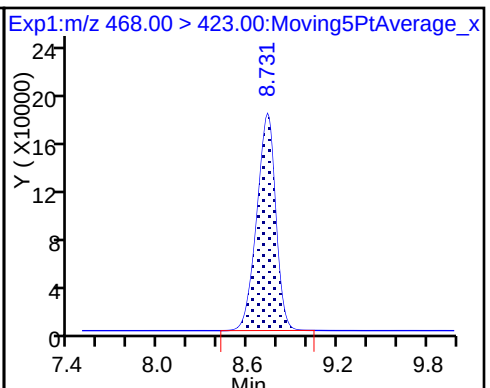
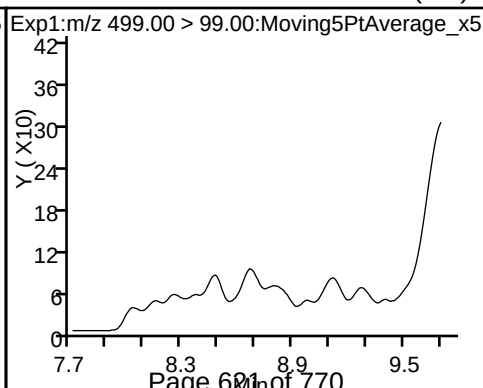
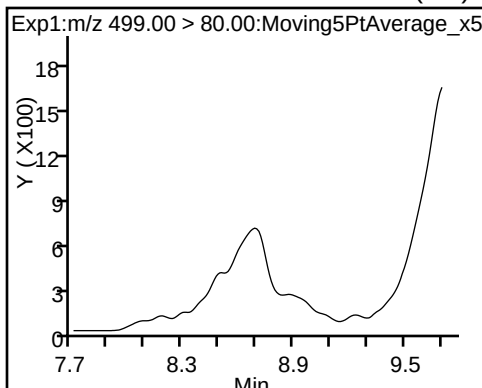
D 17 13C4 PFOS



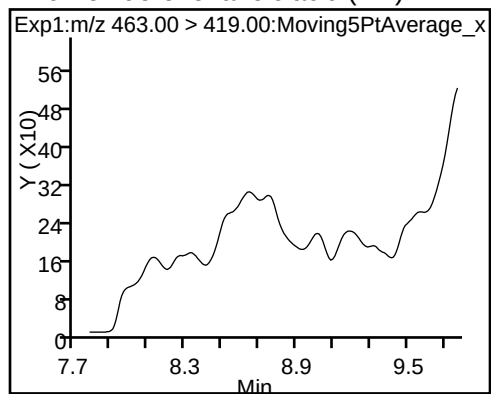
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>FB-X</u>	Lab Sample ID: <u>460-144244-13</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_019.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>11/01/2017 13:15</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 05:39</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	104		25-150
STL01892	13C4-PFHpA	105		25-150
STL00990	13C4 PFOA	105		25-150
STL00991	13C4 PFOS	103		25-150
STL00995	13C5 PFNA	104		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_019.d
 Lims ID: 460-144244-A-13-B
 Client ID: FB-X
 Sample Type: Client
 Inject. Date: 21-Nov-2017 05:39:59 ALS Bottle#: 19 Worklist Smp#: 20
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-13-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc Date: 22-Nov-2017 09:46:43

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.546	7.552	-0.006	1.000	16557	0.000168			84.1	
D 10 18O2 PFHxS										
403.00 > 84.00	7.546	7.555	-0.009		4010428	0.0490		104	32499	
D 11 13C4-PFHpA										
367.00 > 322.00	7.546	7.561	-0.015		2518423	0.0525		105	23757	
D 14 13C4 PFOA										
417.00 > 372.00	8.124	8.150	-0.026		2211625	0.0526		105	28933	
D 17 13C4 PFOS										
503.00 > 80.00	8.691	8.734	-0.043		3986298	0.0493		103	18717	
D 19 13C5 PFNA										
468.00 > 423.00	8.732	8.770	-0.038		1682719	0.0522		104	23389	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_019.d

Injection Date: 21-Nov-2017 05:39:59

Instrument ID: A7_N

Lims ID: 460-144244-A-13-B

Lab Sample ID: 320-144244-13

Client ID: FB-X

Operator ID: abservice

ALS Bottle#: 19

Worklist Smp#: 20

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

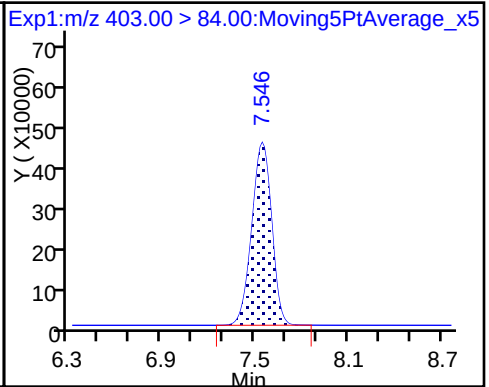
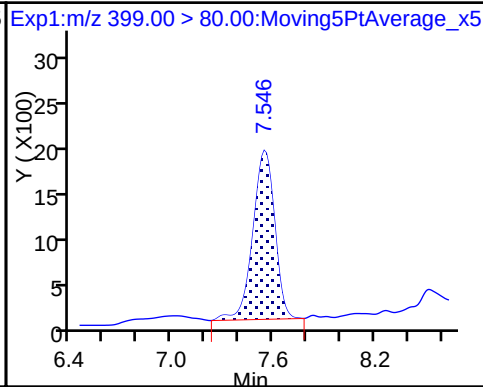
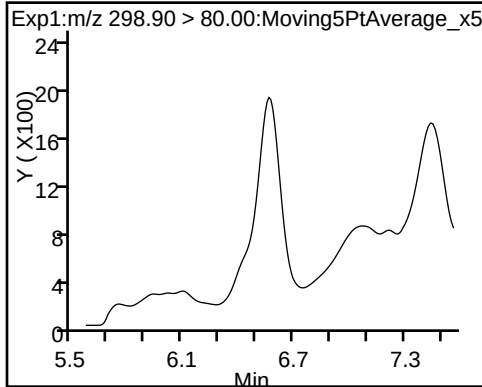
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid (ND)

9 Perfluorohexanesulfonic acid

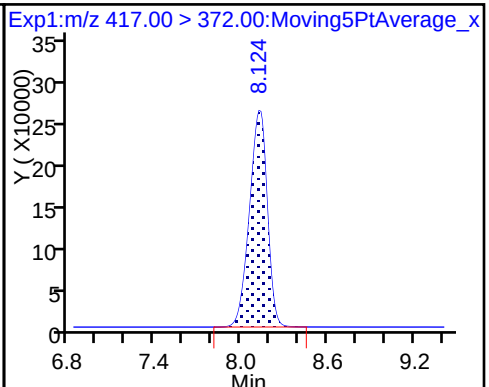
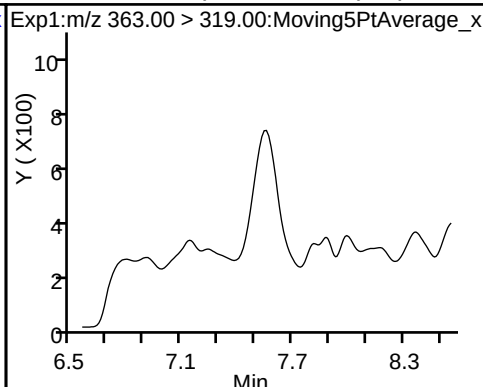
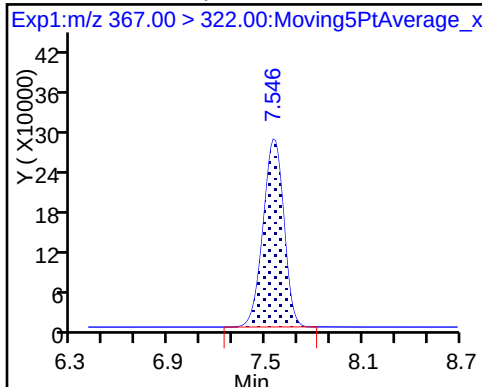
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

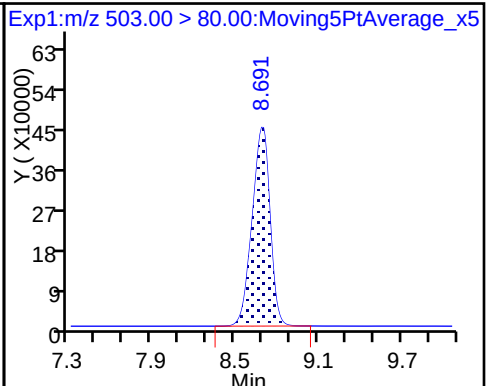
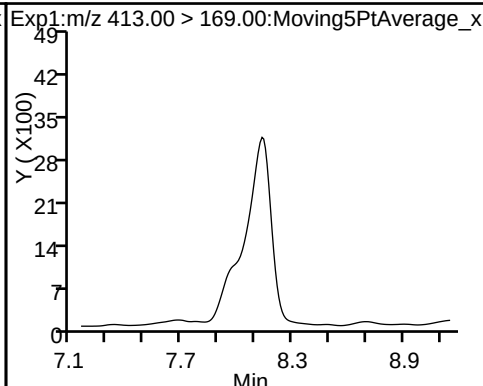
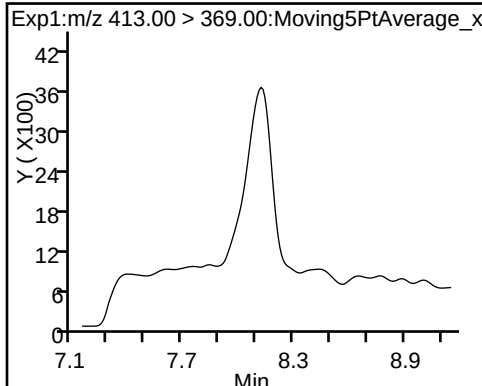
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

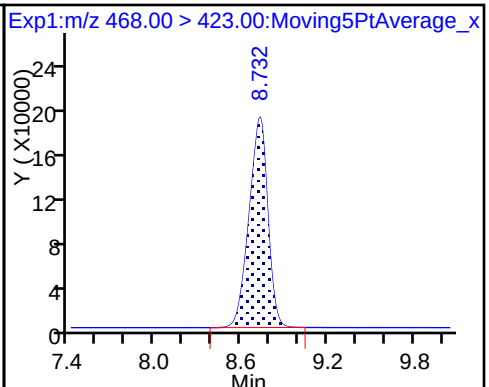
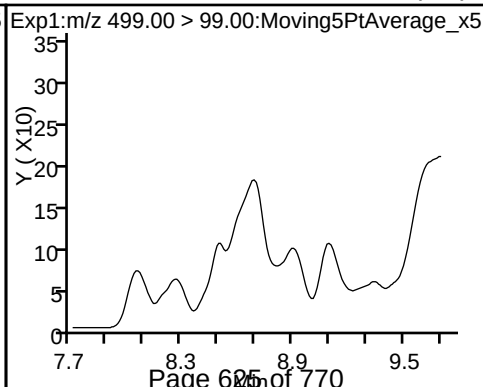
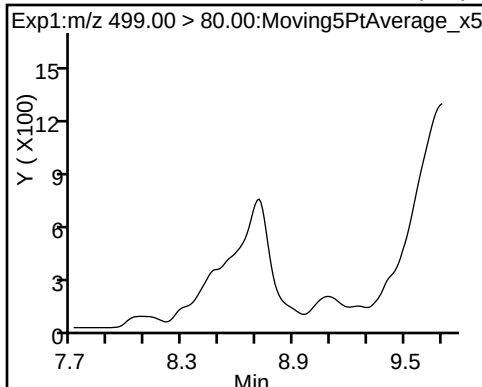
D 17 13C4 PFOS



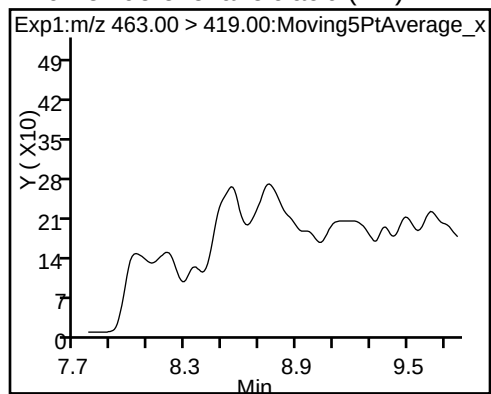
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>Leachate</u>	Lab Sample ID: <u>460-144244-14</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_020.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 12:05</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 05:58</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	104		25-150
STL01892	13C4-PFHpA	106		25-150
STL00990	13C4 PFOA	102		25-150
STL00991	13C4 PFOS	102		25-150
STL00995	13C5 PFNA	104		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_020.d
 Lims ID: 460-144244-A-14-B
 Client ID: Leachate
 Sample Type: Client
 Inject. Date: 21-Nov-2017 05:58:19 ALS Bottle#: 20 Worklist Smp#: 21
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-14-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d
 Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 22-Nov-2017 09:46:57

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.576	6.569	0.007	1.000	40136	0.000262			32.8	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.546	7.552	-0.006	1.000	33234	0.000335			90.1	
D 10 18O2 PFHxS										
403.00 > 84.00	7.546	7.555	-0.009		4043081	0.0494		104	33280	
D 11 13C4-PFHpA										
367.00 > 322.00	7.546	7.561	-0.015		2552521	0.0532		106	28774	
D 14 13C4 PFOA										
417.00 > 372.00	8.124	8.150	-0.026		2144158	0.0510		102	26928	
D 17 13C4 PFOS										
503.00 > 80.00	8.691	8.734	-0.043		3939825	0.0487		102	19697	
D 19 13C5 PFNA										
468.00 > 423.00	8.723	8.770	-0.047		1672358	0.0519		104	25335	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_020.d

Injection Date: 21-Nov-2017 05:58:19

Instrument ID: A7_N

Lims ID: 460-144244-A-14-B

Lab Sample ID: 320-144244-14

Client ID: Leachate

Operator ID: abservice

ALS Bottle#: 20

Worklist Smp#: 21

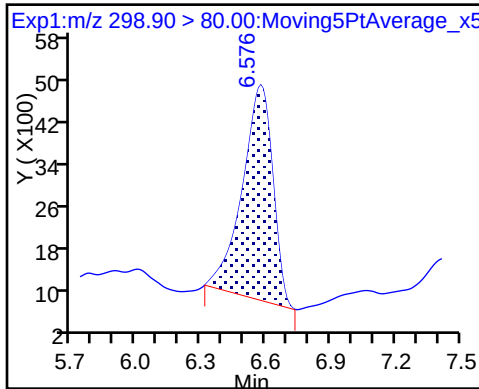
Injection Vol: 1.0 ul

Dil. Factor: 1.0000

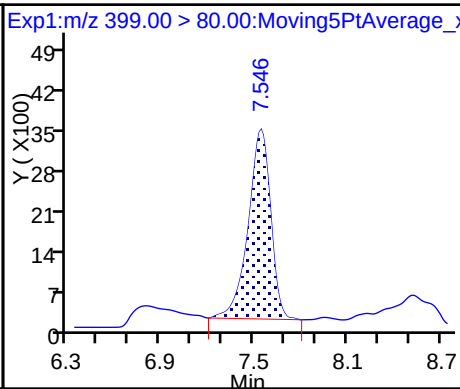
Method: A7_N

Limit Group: LC PFAS ICAL

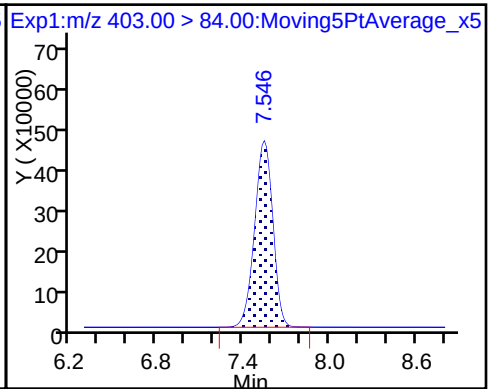
5 Perfluorobutanesulfonic acid



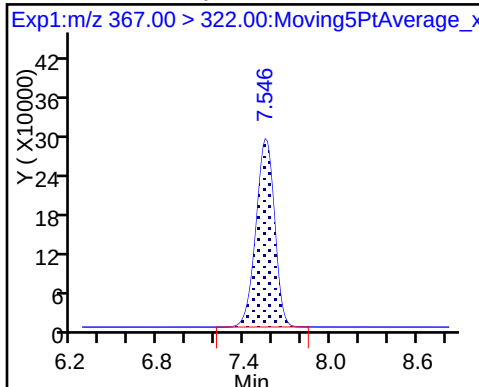
9 Perfluorohexanesulfonic acid



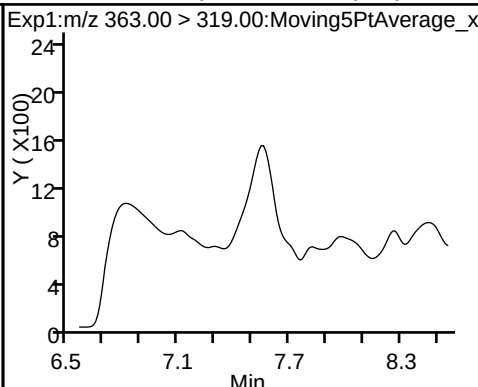
D 10 18O2 PFHxS



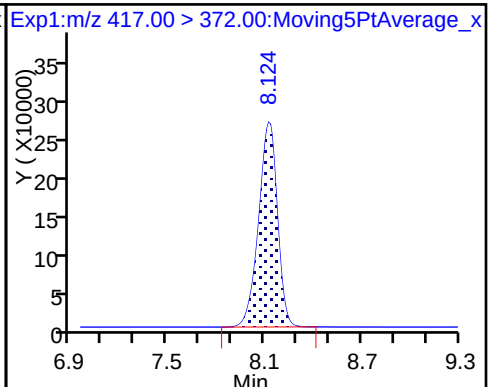
D 11 13C4-PFHpA



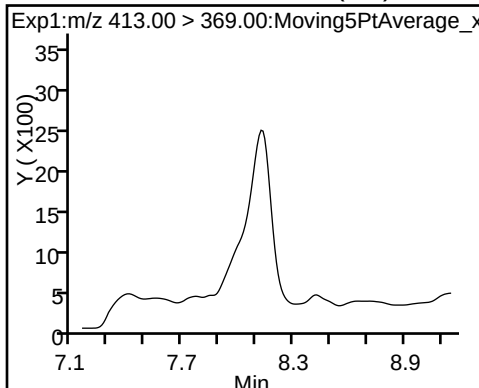
12 Perfluoroheptanoic acid (ND)



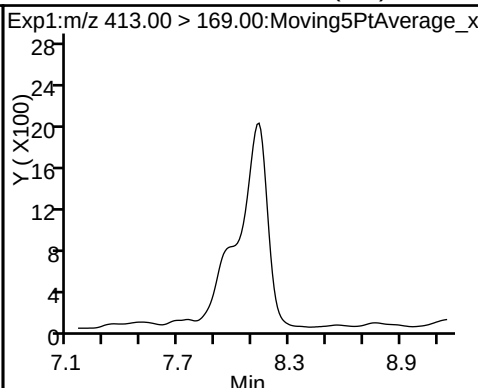
D 14 13C4 PFOA



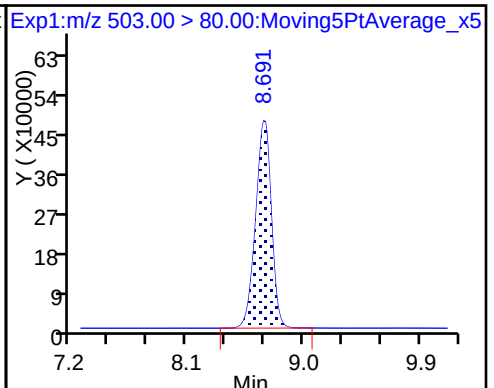
15 Perfluorooctanoic acid (ND)



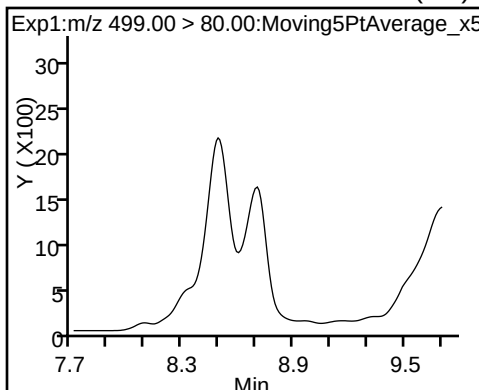
15 Perfluorooctanoic acid (ND)



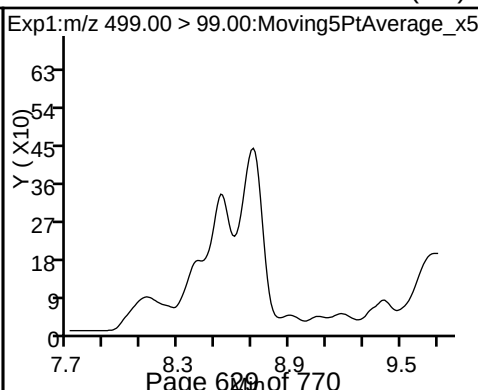
D 17 13C4 PFOS



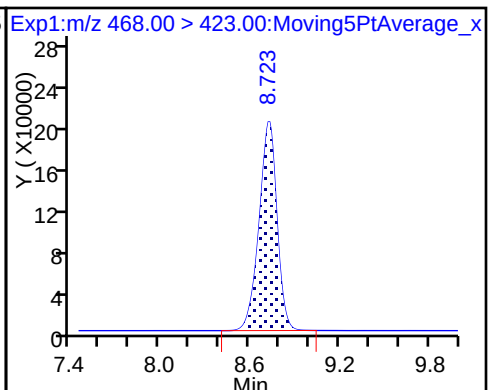
18 Perfluorooctane sulfonic acid (ND)



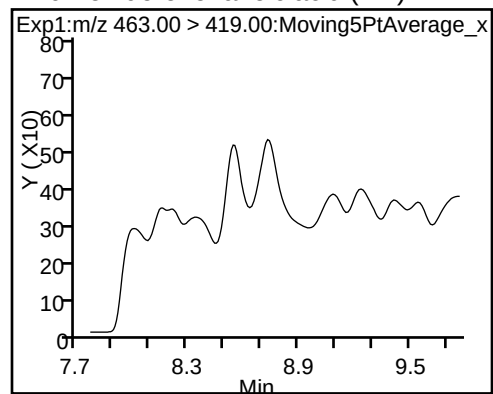
18 Perfluorooctane sulfonic acid (ND)



D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-X-DUP</u>	Lab Sample ID: <u>460-144244-15</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_021.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 00:00</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 06:16</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	115		25-150
STL01892	13C4-PFHpA	116		25-150
STL00990	13C4 PFOA	112		25-150
STL00991	13C4 PFOS	111		25-150
STL00995	13C5 PFNA	114		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_021.d
 Lims ID: 460-144244-A-15-B
 Client ID: MW-X-DUP
 Sample Type: Client
 Inject. Date: 21-Nov-2017 06:16:40 ALS Bottle#: 21 Worklist Smp#: 22
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-15-b
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 10 18O2 PFHxS	403.00 > 84.00	7.546	7.555	-0.009	4457656	0.0544		115	37302	
D 11 13C4-PFHpA	367.00 > 322.00	7.546	7.561	-0.015	2781429	0.0580		116	29469	
D 14 13C4 PFOA	417.00 > 372.00	8.123	8.150	-0.027	2345562	0.0558		112	29773	
D 17 13C4 PFOS	503.00 > 80.00	8.691	8.734	-0.043	4277142	0.0529		111	22415	
D 19 13C5 PFNA	468.00 > 423.00	8.723	8.770	-0.047	1845036	0.0572		114	28107	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_021.d

Injection Date: 21-Nov-2017 06:16:40

Instrument ID: A7_N

Lims ID: 460-144244-A-15-B

Lab Sample ID: 320-144244-15

Client ID: MW-X-DUP

Operator ID: abservice

ALS Bottle#: 21

Worklist Smp#: 22

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

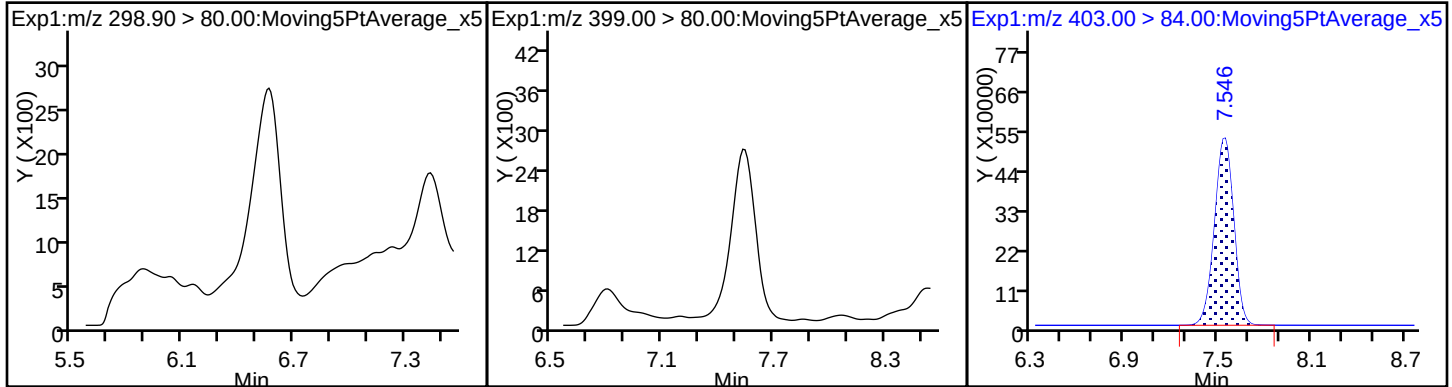
Method: A7_N

Limit Group: LC PFAS ICAL

5 Perfluorobutanesulfonic acid (ND)

9 Perfluorohexanesulfonic acid (ND)

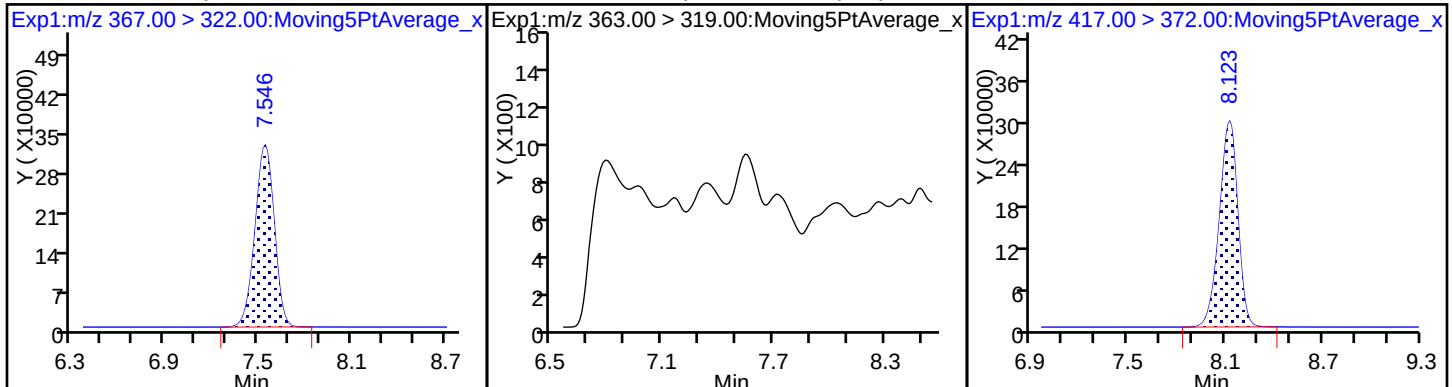
D 10 18O2 PFHxS



D 11 13C4-PFHpa

12 Perfluoroheptanoic acid (ND)

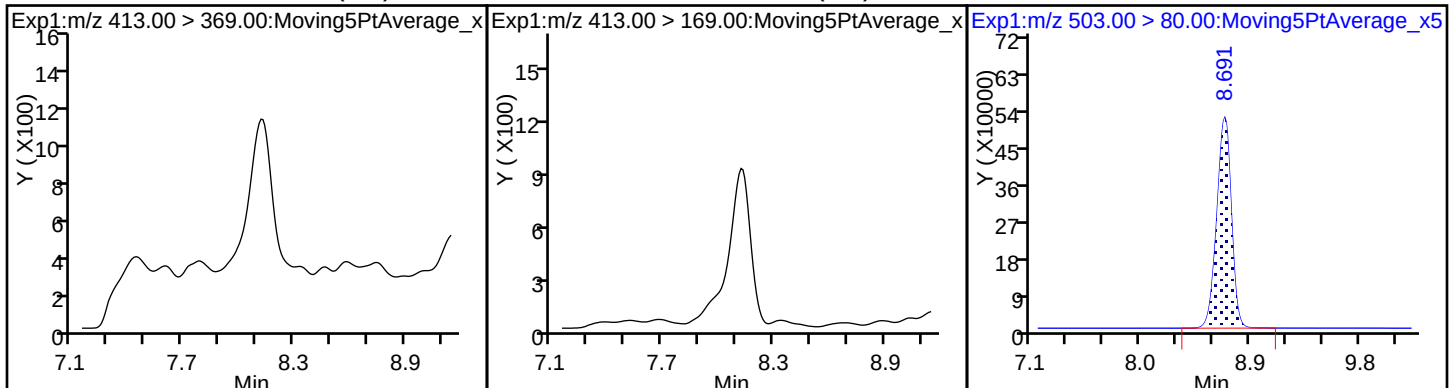
D 14 13C4 PFOA



15 Perfluorooctanoic acid (ND)

15 Perfluorooctanoic acid (ND)

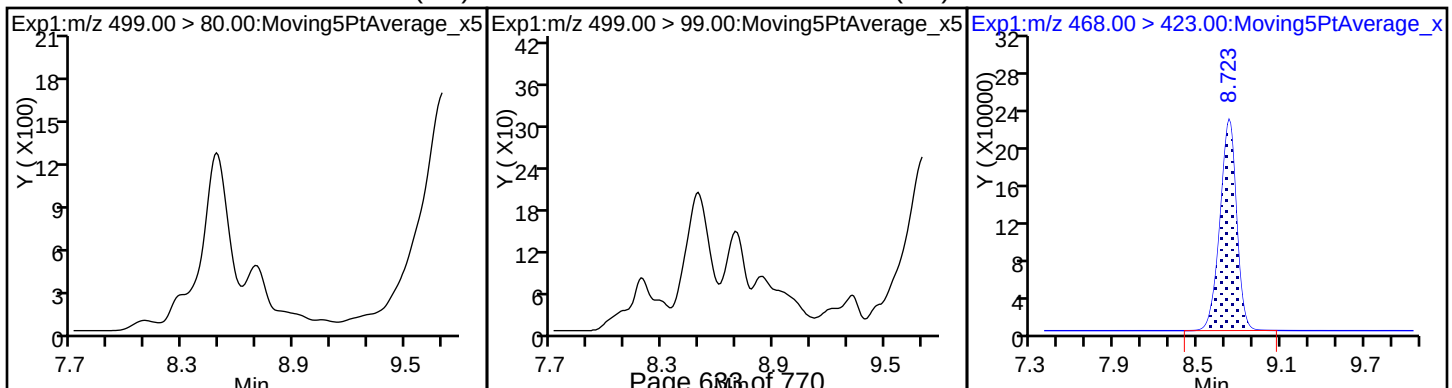
D 17 13C4 PFOS



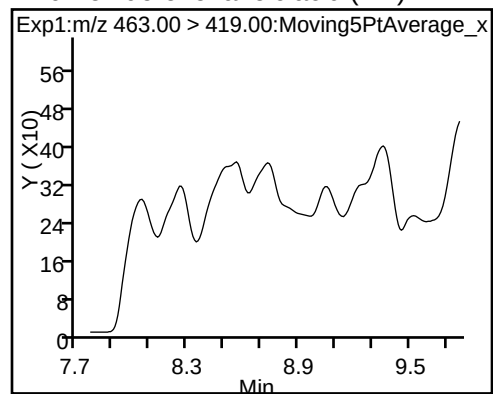
18 Perfluorooctane sulfonic acid (ND)

18 Perfluorooctane sulfonic acid (ND)

D 19 13C5 PFNA



20 Perfluorononanoic acid (ND)



FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RETENTION TIME SUMMARY

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1 Analy Batch No.: 191314

SDG No.: _____

Instrument ID: A7_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 14:59 Calibration End Date: 10/26/2017 17:08 Calibration ID: 35496

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 320-191314/4	2017.10.26A_ICAL_003.d
Level 2	STD 320-191314/5	2017.10.26A_ICAL_004.d
Level 3	STD 320-191314/6	2017.10.26A_ICAL_005.d
Level 4	STD 320-191314/7	2017.10.26A_ICAL_006.d
Level 5	STD 320-191314/8	2017.10.26A_ICAL_007.d
Level 6	STD 320-191314/9	2017.10.26A_ICAL_008.d
Level 7	STD 320-191314/10	2017.10.26A_ICAL_009.d
Level 8	STD 320-191314/11	2017.10.26A_ICAL_010.d

ANALYTE	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5	LVL 6	LVL 7	LVL 8			RT WINDOW	AVG RT
Perfluorobutanoic acid (PFBA)	5.869	5.877	5.886	5.878	5.869	5.894	5.868	5.870			5.626 - 6.126	5.876
Perfluoropentanoic acid (PFPA)	6.485	6.516	6.526	6.516	6.516	6.525	6.515	6.506			6.263 - 6.763	6.513
Perfluorobutanesulfonic acid (PFBS)	6.545	6.576	6.577	6.576	6.566	6.576	6.566	6.567			6.319 - 6.819	6.569
Perfluorohexanoic acid (PFHxA)	7.002	7.028	7.029	7.016	7.015	7.028	7.015	7.016			6.769 - 7.269	7.019
Perfluorohexanesulfonic acid (PFHxS)	7.545	7.558	7.559	7.558	7.545	7.558	7.545	7.546			7.302 - 7.802	7.552
Perfluoroheptanoic acid (PFHpA)	7.557	7.570	7.571	7.558	7.558	7.570	7.557	7.546			7.311 - 7.811	7.561
Perfluoroheptanesulfonic Acid (PFHpS)	8.133	8.134	8.144	8.134	8.134	8.134	8.123	8.124			7.882 - 8.382	8.133
Perfluorooctanoic acid (PFOA)	8.152	8.161	8.162	8.152	8.152	8.152	8.142	8.144			7.902 - 8.402	8.152
Perfluorooctanesulfonic acid (PFOS)	8.750	8.741	8.742	8.742	8.732	8.741	8.731	8.723			8.488 - 8.988	8.738
Perfluorononanoic acid (PFNA)	8.779	8.779	8.780	8.770	8.770	8.769	8.760	8.762			8.521 - 9.021	8.771
Perfluorooctane Sulfonamide (FOSA)	9.262	9.263	9.265	9.264	9.263	9.262	9.262	9.254			9.012 - 9.512	9.262
Perfluorodecanoic acid (PFDA)	9.400	9.392	9.399	9.385	9.384	9.384	9.376	9.375			9.137 - 9.637	9.387
Perfluorodecanesulfonic acid (PFDS)	9.934	9.923	9.934	9.924	9.912	9.912	9.912	9.911			9.670 - 10.170	9.920
Perfluoroundecanoic acid (PFUnA)	9.978	9.978	9.987	9.969	9.968	9.967	9.968	9.957			9.721 - 10.221	9.972
Perfluorododecanoic acid (PFDoA)	10.534	10.534	10.533	10.523	10.522	10.522	10.510	10.509			10.273 - 10.773	10.523
Perfluorotridecanoic Acid (PFTriA)	11.052	11.043	11.051	11.035	11.034	11.034	11.025	11.021			10.787 - 11.287	11.037
Perfluorotetradecanoic acid (PFTeA)	11.550	11.543	11.542	11.536	11.528	11.522	11.519	11.515			11.282 - 11.782	11.532
Perfluoro-n-hexadecanoic acid (PFHxDA)	12.519	12.510	12.500	12.480	12.481	12.473	12.463	12.455			12.235 - 12.735	12.485
13C4 PFBA	5.860	5.877	5.878	5.878	5.869	5.886	5.868	5.870			5.623 - 6.123	5.873
13C5-PFPeA	6.485	6.516	6.526	6.516	6.516	6.525	6.515	6.506			6.263 - 6.763	6.513
13C2 PFHxA	7.002	7.028	7.029	7.016	7.015	7.028	7.015	7.016			6.769 - 7.269	7.019
18O2 PFHxS	7.545	7.558	7.571	7.558	7.558	7.558	7.545	7.546			7.305 - 7.805	7.555
13C4-PFHpA	7.557	7.570	7.571	7.558	7.558	7.570	7.557	7.546			7.311 - 7.811	7.561
13C4 PFOA	8.152	8.152	8.162	8.152	8.143	8.152	8.142	8.144			7.900 - 8.400	8.150
13C4 PFOS	8.740	8.741	8.742	8.732	8.732	8.731	8.731	8.723			8.484 - 8.984	8.734
13C5 PFNA	8.779	8.779	8.780	8.770	8.760	8.769	8.760	8.762			8.520 - 9.020	8.770
13C8 FOSA	9.262	9.263	9.265	9.264	9.263	9.262	9.262	9.254			9.012 - 9.512	9.262
13C2 PFDA	9.400	9.392	9.399	9.385	9.384	9.384	9.376	9.375			9.137 - 9.637	9.387
13C2 PFUnA	9.988	9.978	9.977	9.969	9.968	9.967	9.968	9.957			9.721 - 10.221	9.972
13C2 PFDoA	10.534	10.534	10.533	10.523	10.511	10.522	10.510	10.509			10.272 - 10.772	10.522
13C2-PFTeDA	11.550	11.543	11.542	11.528	11.528	11.522	11.519	11.515			11.281 - 11.781	11.531
13C2-PFHxDA	12.510	12.501	12.500	12.480	12.471	12.473	12.463	12.455			12.232 - 12.732	12.482

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1 Analy Batch No.: 191314

SDG No.: _____

Instrument ID: A7_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 14:59 Calibration End Date: 10/26/2017 17:08 Calibration ID: 35496

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 320-191314/4	2017.10.26A_ICAL_003.d
Level 2	STD 320-191314/5	2017.10.26A_ICAL_004.d
Level 3	STD 320-191314/6	2017.10.26A_ICAL_005.d
Level 4	STD 320-191314/7	2017.10.26A_ICAL_006.d
Level 5	STD 320-191314/8	2017.10.26A_ICAL_007.d
Level 6	STD 320-191314/9	2017.10.26A_ICAL_008.d
Level 7	STD 320-191314/10	2017.10.26A_ICAL_009.d
Level 8	STD 320-191314/11	2017.10.26A_ICAL_010.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 LVL 8		B	M1	M2								
13C4 PFBA	93282400 89838100	91378680 89357460	93444380 92928740	91811040 90504300	Ave		91568137.5				1.7		50.0			
13C5-PFPeA	83457180 75014700	74246640 74084360	77133620 75262100	77243080 72505500	Ave		76118397.5				4.4		50.0			
13C2 PFHxA	69176320 61137300	62293600 60265060	62976040 62293260	61494980 60816640	Ave		62556650.0				4.5		50.0			
18O2 PFHxS	91437188 82301924	80117209 78892854	80725391 83255159	79605560 78818161	Ave		81894180.8				5.1		50.0			
13C4-PFHpA	52854300 48762460	46536220 46641600	47909620 48753580	47877260 44225240	Ave		47945035.0				5.2		50.0			
13C4 PFOA	46882760 41628000	42253320 40956960	42729220 40949100	42430640 38743540	Ave		42071692.5				5.5		50.0			
13C4 PFOS	90481841 79445858	80006569 77289456	78916130 81613954	80439644 78909707	Ave		80887894.9				5.0		50.0			
13C5 PFNA	35681060 31762500	32083080 30650700	31852960 32305440	32910680 30768120	Ave		32251817.5				4.9		50.0			
13C8 FOSA	135389640 151388160	112559800 127079680	110027040 142387260	113123540 124607680	Ave		127070350				11.9		50.0			
13C2 PFDA	30299260 26865100	25418240 25804560	25510040 26519900	25239060 24800120	Ave		26307035.0				6.6		50.0			
13C2 PFUnA	27001260 23318680	21454180 22383500	21212380 23148300	21009160 21166200	Ave		22586707.5				8.9		50.0			
13C2 PFDoA	25033280 27921600	20812560 23131940	19629700 25656640	19597620 23102920	Ave		23110782.5				13.0		50.0			
13C2-PFTeDA	27548840 55594740	16412680 29362100	20255820 38454860	17998440 31066420	Ave		29586737.5				43.4		50.0			
13C2-PFHxDA	43004560 29161940	17550340 21450220	25178500 35048200	21936020 69352800	Ave		32835322.5				51.4	*	50.0			

Note: The M1 coefficient is the same as Ave CF for an Ave curve type.

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1 Analy Batch No.: 191314
SDG No.: _____
Instrument ID: A7_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/26/2017 14:59 Calibration End Date: 10/26/2017 17:08 Calibration ID: 35496

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	2.0037 0.9153	2.1684 0.9074	1.0654 0.9073	0.9486	1.0871	AveID		1.2504				41.8	*	35.0			
Perfluoropentanoic acid (PFPA)	1.0503 1.0477	1.2533 1.0576	1.0673 1.0317	1.0404	1.0758	AveID		1.0780				6.7		35.0			
Perfluorobutanesulfonic acid (PFBS)	1.4183 1.8655	1.8433 1.8189	1.8849 1.7179	1.8722	1.8896	AveID		1.7888				8.9		50.0			
Perfluorohexanoic acid (PFHxA)	0.8360 0.9816	1.2767 0.9926	1.0289 0.9682	1.0085	1.0527	AveID		1.0181				12.1		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.0755 1.1331	1.2712 1.1559	1.1747 1.1327	1.1775	1.1773	AveID		1.1622				4.8		50.0			
Perfluoroheptanoic acid (PFHpA)	0.8817 1.0531	1.0585 1.0300	1.0830 1.0759	1.0442	1.0582	AveID		1.0356				6.2		35.0			
Perfluoroheptanesulfonic Acid (PFHpS)	0.8073 1.1300	1.1330 1.1140	1.1306 1.0868	1.1113	1.1568	AveID		1.0837				10.5		50.0			
Perfluorooctanoic acid (PFOA)	0.9795 1.1285	1.3567 1.1226	1.1524 1.1061	1.1281	1.2157	AveID		1.1487				9.3		35.0			
Perfluorooctanesulfonic acid (PFOS)	0.9678 1.1061	1.2965 1.1175	1.1503 1.1049	1.0968	1.1496	AveID		1.1237				8.0		35.0			
Perfluorononanoic acid (PFNA)	0.7838 1.0501	1.0241 1.0419	1.0500 1.0158	1.0081	1.0854	AveID		1.0074				9.3		35.0			
Perfluorooctane Sulfonamide (FOSA)	1.0078 1.0100	1.0188 1.0184	1.0285 0.9539	1.0088	1.0394	AveID		1.0107				2.5		35.0			
Perfluorodecanoic acid (PFDA)	0.8276 1.0581	1.0901 1.0313	1.0088 1.0477	1.0509	1.0504	AveID		1.0206				8.0		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.5764 0.6383	0.5994 0.6679	0.6268 0.6547	0.6008	0.6884	AveID		0.6316				6.0		50.0			
Perfluoroundecanoic acid (PFUnA)	1.0561 1.0513	1.0599 1.0769	1.1470 1.0631	1.0880	1.0854	AveID		1.0785				2.9		35.0			
Perfluorododecanoic acid (PFDoA)	1.0043 1.0441	1.1014 1.0576	1.0343 1.0520	1.0694	1.0447	AveID		1.0510				2.7		35.0			
Perfluorotridecanoic Acid (PFTriA)	0.9835 1.0978	0.9705 1.1799	0.9507 1.0331	0.9428	1.5835	AveID		1.0927				19.6		50.0			
Perfluorotetradecanoic acid (PFTeA)	1.0680 1.1574	0.7493 1.3874	0.9740 1.2360	0.8336	1.8923	AveID		1.1623				31.1		50.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	2.3389 0.8882	0.9092 1.3012	1.2902 2.8211	1.0662	1.0239	L2ID	0.0006	1.3144							0.7310	*	0.9900

Note: The M1 coefficient is the same as Ave RRF for an Ave curve type.

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1 Analy Batch No.: 191314

SDG No.: _____

Instrument ID: A7_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 14:59 Calibration End Date: 10/26/2017 17:08 Calibration ID: 35496

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 320-191314/4	2017.10.26A_ICAL_003.d
Level 2	STD 320-191314/5	2017.10.26A_ICAL_004.d
Level 3	STD 320-191314/6	2017.10.26A_ICAL_005.d
Level 4	STD 320-191314/7	2017.10.26A_ICAL_006.d
Level 5	STD 320-191314/8	2017.10.26A_ICAL_007.d
Level 6	STD 320-191314/9	2017.10.26A_ICAL_008.d
Level 7	STD 320-191314/10	2017.10.26A_ICAL_009.d
Level 8	STD 320-191314/11	2017.10.26A_ICAL_010.d

ANALYTE	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
		LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
13C4 PFBA	Ave	4664120 4467873	4568934 4646437	4672219 4525215	4590552	4491905	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C5-PFPeA	Ave	4172859 3704218	3712332 3763105	3856681 3625275	3862154	3750735	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C2 PFHxA	Ave	3458816 3013253	3114680 3114663	3148802 3040832	3074749	3056865	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
18O2 PFHxS	Ave	4324979 3731632	3789544 3937969	3818311 3728099	3765343	3892881	0.0473 0.0473	0.0473 0.0473	0.0473 0.0473	0.0473	0.0473
13C4-PFHpA	Ave	2642715 2332080	2326811 2437679	2395481 2211262	2393863	2438123	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C4 PFOA	Ave	2344138 2047848	2112666 2047455	2136461 1937177	2121532	2081400	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C4 PFOS	Ave	4325032 3694436	3824314 3901147	3772191 3771884	3845015	3797512	0.0478 0.0478	0.0478 0.0478	0.0478 0.0478	0.0478	0.0478
13C5 PFNA	Ave	1784053 1532535	1604154 1615272	1592648 1538406	1645534	1588125	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C8 FOSA	Ave	6769482 6353984	5627990 7119363	5501352 6230384	5656177	7569408	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C2 PFDA	Ave	1514963 1290228	1270912 1325995	1275502 1240006	1261953	1343255	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C2 PFUnA	Ave	1350063 1119175	1072709 1157415	1060619 1058310	1050458	1165934	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C2 PFDoA	Ave	1251664 1156597	1040628 1282832	981485 1155146	979881	1396080	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C2-PFTeDA	Ave	1377442 1468105	820634 1922743	1012791 1553321	899922	2779737	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500
13C2-PFHxDA	Ave	2150228 1072511	877517 1752410	1258925 3467640	1096801	1458097	0.0500 0.0500	0.0500 0.0500	0.0500 0.0500	0.0500	0.0500

FORM VI
LCMS BY EXTERNAL STANDARD - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1 Analy Batch No.: 191314
SDG No.: _____
Instrument ID: A7_N GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 10/26/2017 14:59 Calibration End Date: 10/26/2017 17:08 Calibration ID: 35496

Curve Type Legend:

Ave = Average

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1 Analy Batch No.: 191314

SDG No.: _____

Instrument ID: A7_N GC Column: GeminiC18 3 ID: 3(mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 14:59 Calibration End Date: 10/26/2017 17:08 Calibration ID: 35496

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	STD 320-191314/4	2017.10.26A_ICAL_003.d
Level 2	STD 320-191314/5	2017.10.26A_ICAL_004.d
Level 3	STD 320-191314/6	2017.10.26A_ICAL_005.d
Level 4	STD 320-191314/7	2017.10.26A_ICAL_006.d
Level 5	STD 320-191314/8	2017.10.26A_ICAL_007.d
Level 6	STD 320-191314/9	2017.10.26A_ICAL_008.d
Level 7	STD 320-191314/10	2017.10.26A_ICAL_009.d
Level 8	STD 320-191314/11	2017.10.26A_ICAL_010.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	186912 4089324	396296 8432811	497786 16423726	870930	1953175	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluoropentanoic acid (PFPA)		AveID	87659 3880810	186112 7959556	411610 14960326	803608	1613953	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluorobutanesulfonic acid (PFBS)		AveID	114641 6505156	261100 13386467	672537 23938516	1317487	2749620	0.000884 0.0442	0.00177 0.0884	0.00442 0.177	0.00884	0.0177
Perfluorohexanoic acid (PFHxA)		AveID	57830 2957665	159057 6183087	323967 11776220	620204	1287171	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluorohexanesulfonic acid (PFHxS)		AveID	89494 4067504	185365 8757589	431457 16248121	852959	1763525	0.000910 0.0455	0.00182 0.0910	0.00455 0.182	0.00910	0.0182
Perfluoroheptanoic acid (PFHpA)		AveID	46600 2455798	98519 5021627	259429 9516183	499932	1031983	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	69537 4157182	172586 8655412	424713 16328157	850993	1749843	0.000952 0.0476	0.00190 0.0952	0.00476 0.190	0.00952	0.0190
Perfluorooctanoic acid (PFOA)		AveID	45920 2310972	114647 4596988	246214 8571148	478650	1012183	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluorooctanesulfonic acid (PFOS)		AveID	81262 3966643	192519 8463557	421221 16181300	818728	1695068	0.000928 0.0464	0.00186 0.0928	0.00464 0.186	0.00928	0.0186
Perfluorononanoic acid (PFNA)		AveID	27967 1609254	65710 3365853	167233 6250979	331762	689497	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluorooctane Sulfonamide (FOSA)		AveID	136450 6417742	229363 14501197	565798 23773792	1141232	3147048	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluorodecanoic acid (PFDA)		AveID	25077 1365133	55415 2735067	128672 5196400	265245	564362	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluorodecanesulfonic acid (PFDS)		AveID	50276 2377931	92461 5254479	238431 9960495	465889	1054394	0.000964 0.0482	0.00193 0.0964	0.00482 0.193	0.00964	0.0193
Perfluoroundecanoic acid (PFUnA)		AveID	28516 1176538	45480 2492877	121654 4500483	228572	506187	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluorododecanoic acid (PFDoA)		AveID	25141 1207607	45844 2713410	101514 4861002	209579	583414	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1 Analy Batch No.: 191314

SDG No.: _____

Instrument ID: A7_N GC Column: GeminiC18 3 ID: 3 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 10/26/2017 14:59 Calibration End Date: 10/26/2017 17:08 Calibration ID: 35496

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Perfluorotridecanoic Acid (PFTriA)		AveID	24621 1269688	40399 3027271	93312 4773356	184765	884299	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluorotetradecanoic acid (PFTeA)		AveID	26736 1338633	31190 3559699	95599 5711156	163368	1056732	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	58550 1027254	37847 3338556	126629 13035084	208945	571757	0.00100 0.0500	0.00200 0.100	0.00500 0.200	0.0100	0.0200

Curve Type Legend:

AveID = Average isotope dilution L2ID = Linear 1/conc^2 IsoDil

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_003.d
 Lims ID: STD L1
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 26-Oct-2017 14:59:39 ALS Bottle#: 3 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD L1
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub23
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:18:16 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.860	5.873	-0.013		4664120	0.0509		102	59696	
1 Perfluorobutyric acid										
212.90 > 169.00	5.869	5.876	-0.007	1.000	186912	0.001602		160	4.2	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.485	6.513	-0.028	1.000	87659	0.000974		97.4	46.5	
D 4 13C5-PFPeA										
267.90 > 223.00	6.485	6.513	-0.028		4172859	0.0548		110	45309	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.545	6.569	-0.024	1.000	114641	0.000701		79.3	312	
D 6 13C2 PFHxA										
315.00 > 270.00	7.002	7.019	-0.017		3458816	0.0553		111	64704	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.002	7.019	-0.017	1.000	57830	0.000821		82.1	168	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.545	7.552	-0.007	1.000	89494	0.000842		92.5	954	
D 10 18O2 PFHxS										
403.00 > 84.00	7.545	7.555	-0.010		4324979	0.0528		112	41508	
D 11 13C4-PFHpA										
367.00 > 322.00	7.557	7.561	-0.004		2642715	0.0551		110	32701	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.557	7.561	-0.004	1.000	46600	0.000851		85.1	177	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.133	8.132	0.001	1.000	69537	0.000709		74.5	841	
D 14 13C4 PFOA										
417.00 > 372.00	8.152	8.150	0.002		2344138	0.0557		111	33682	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.152	8.152	0.0	1.000	45920	0.000853		85.3	199	
413.00 > 169.00	8.152	8.152	0.0	1.000	45173		1.02(0.90-1.10)	85.3	542	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.740	8.734	0.006		4325032	0.0535		112	33092	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.750	8.738	0.012	1.000	81262	0.000799		86.1	194	
499.00 > 99.00	8.741	8.738	0.003	0.999	0		0.00(0.90-1.10)	86.1		
D 19 13C5 PFNA										
468.00 > 423.00	8.779	8.770	0.009		1784053	0.0553		111	26932	
20 Perfluorononanoic acid										
463.00 > 419.00	8.779	8.771	0.008	1.000	27967	0.000778		77.8	187	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.262	9.262	0.0	1.000	136450	0.000997		99.7	1852	
D 21 13C8 FOSA										
506.00 > 78.00	9.262	9.262	0.0		6769482	0.0533		107	39762	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.400	9.387	0.013	1.000	25077	0.000811		81.1	263	
D 23 13C2 PFDA										
515.00 > 470.00	9.400	9.387	0.013		1514963	0.0576		115	31798	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.934	9.920	0.014	1.000	50276	0.000880		91.3	638	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.978	9.971	0.007	1.000	28516	0.000979		97.9	291	
D 27 13C2 PFUnA										
565.00 > 520.00	9.988	9.971	0.017		1350063	0.0598		120	23527	
D 30 13C2 PFDaA										
615.00 > 570.00	10.534	10.522	0.012		1251664	0.0542		108	16736	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.534	10.523	0.011	1.000	25141	0.000956		95.6	199	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.052	11.037	0.015	1.000	24621	0.000900		90.0	179	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.550	11.531	0.019		1377442	0.0466		93.1	11502	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.550	11.532	0.018	1.000	26736	0.000919		91.9	189	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.510	12.482	0.028		2150228	0.0655		131	8713	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.519	12.485	0.034	1.000	58550	0.001326		133	158	

Reagents:

LCPFC-LL-L1_00011

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_003.d

Injection Date: 26-Oct-2017 14:59:39

Instrument ID: A7_N

Lims ID: STD L1

Client ID:

Operator ID: abservice

ALS Bottle#: 3

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

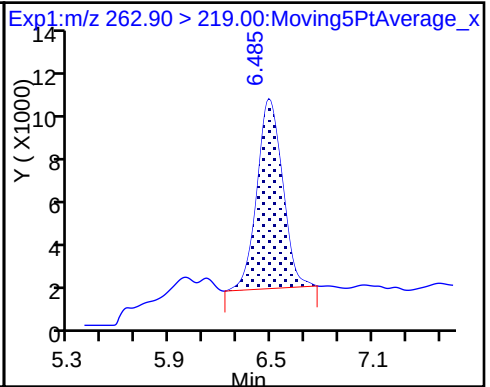
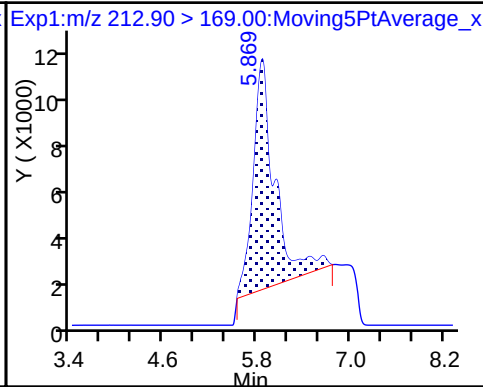
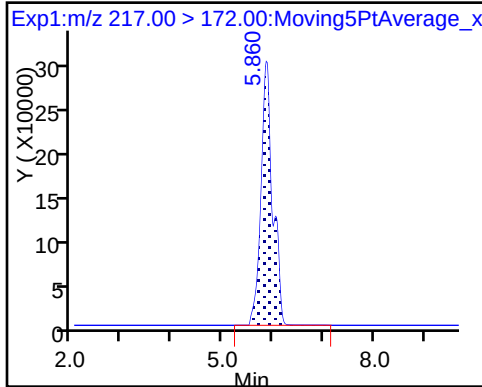
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

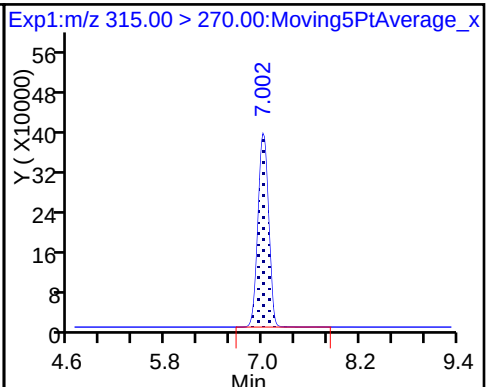
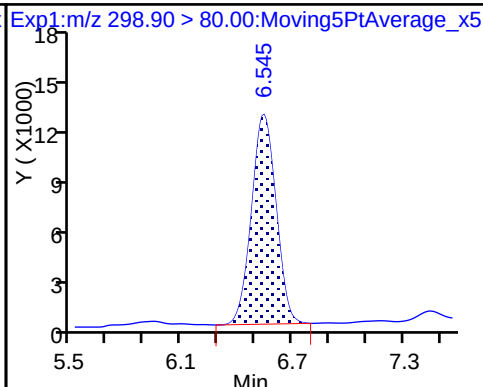
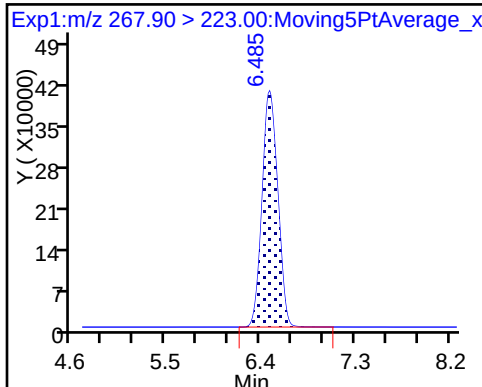
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

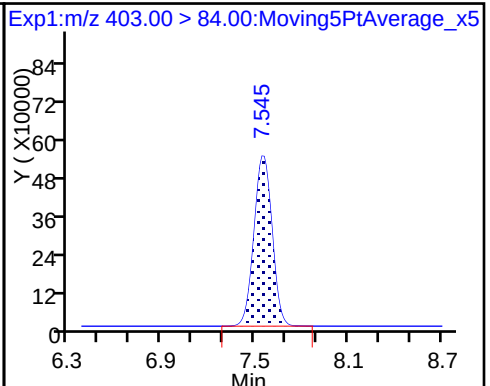
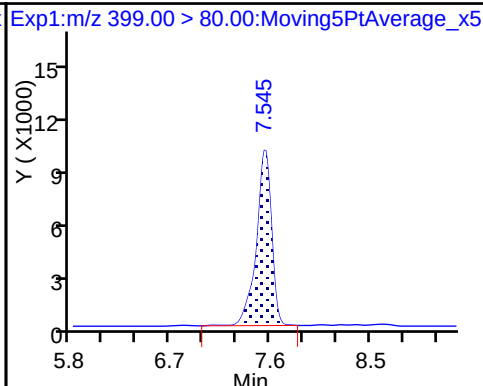
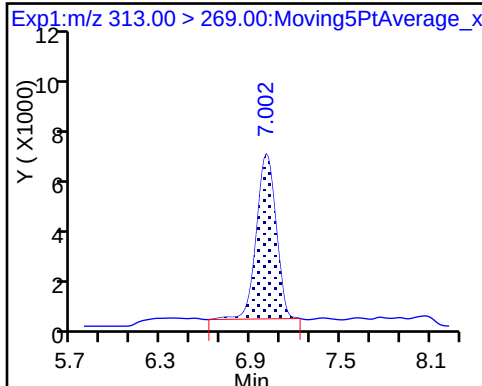
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

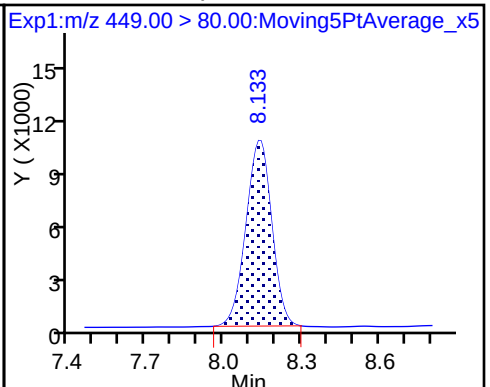
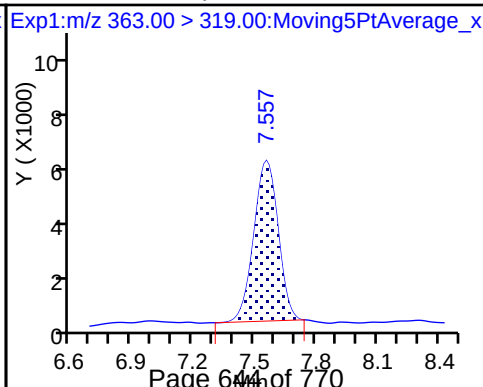
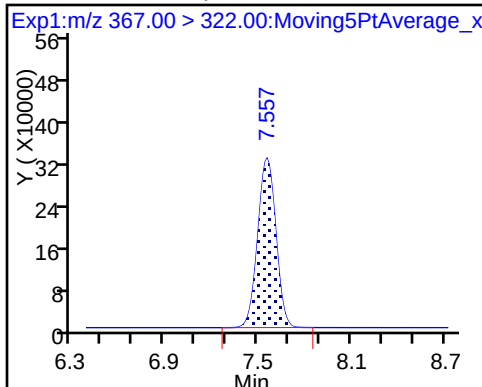
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

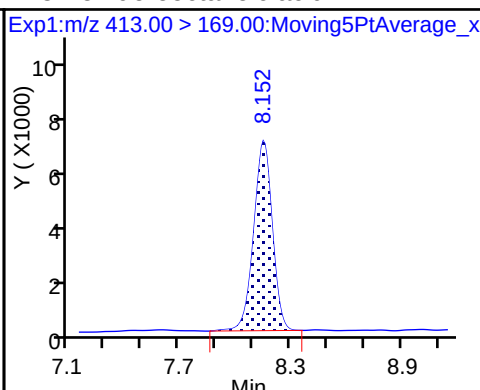
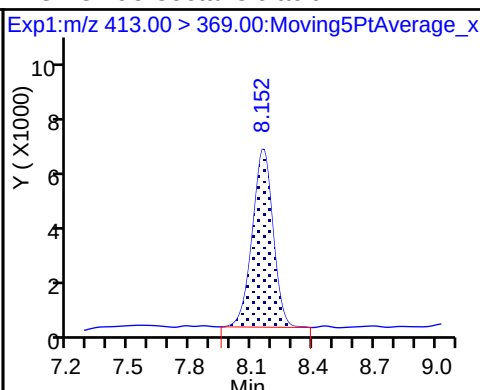
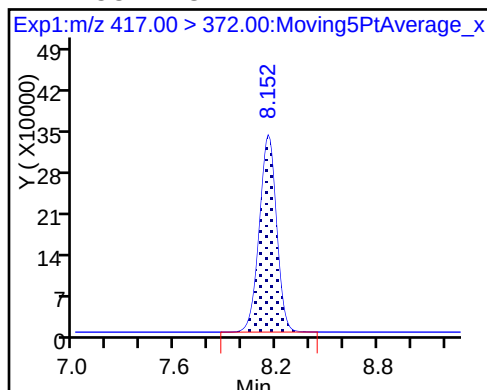
13 Perfluoroheptanesulfonic Acid



D 14 13C4 PFOA

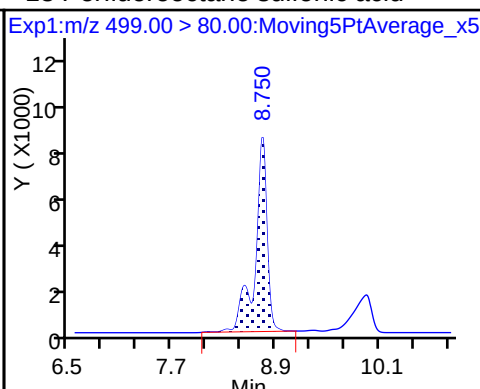
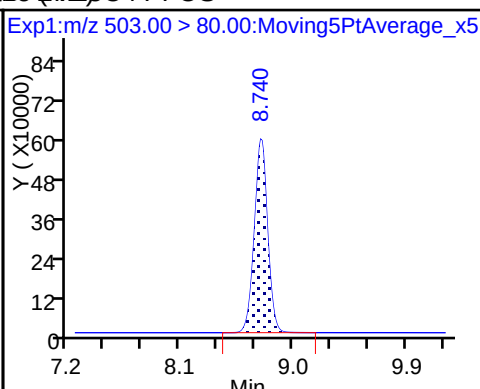
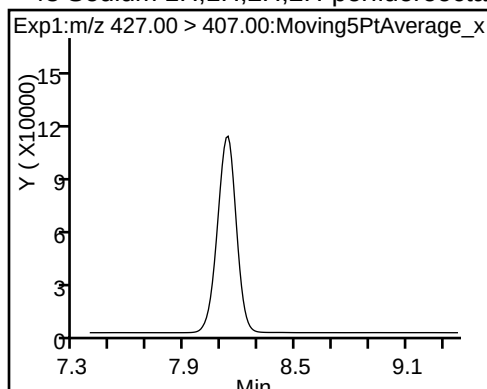
15 Perfluorooctanoic acid

15 Perfluorooctanoic acid



48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)

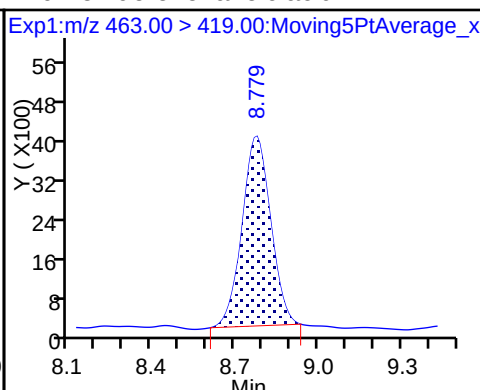
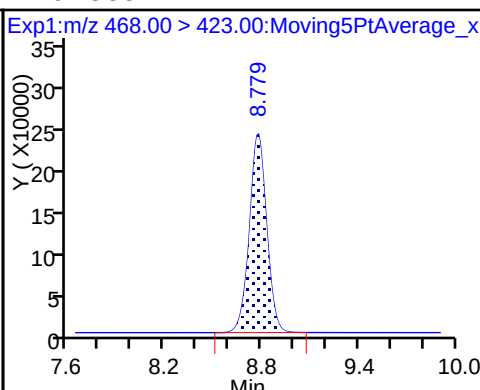
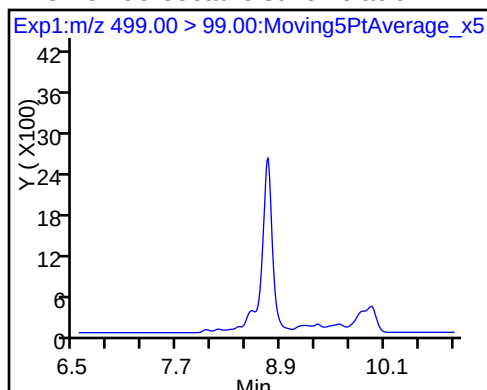
18 Perfluorooctane sulfonic acid



18 Perfluorooctane sulfonic acid

D 19 13C5 PFNA

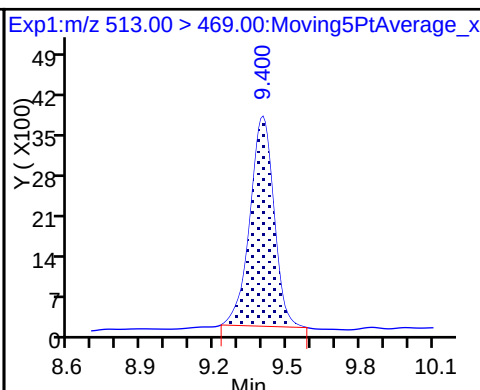
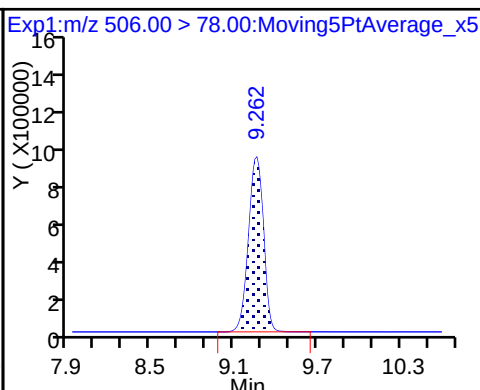
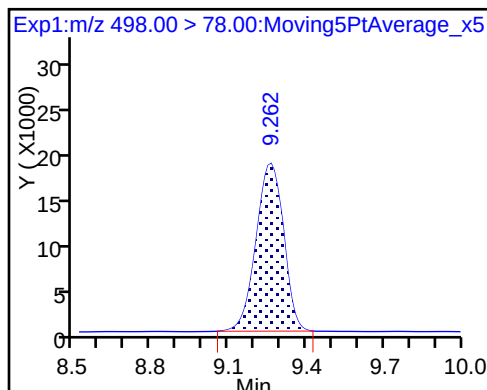
20 Perfluorononanoic acid



22 Perfluorooctane Sulfonamide

D 21 13C8 FOSA

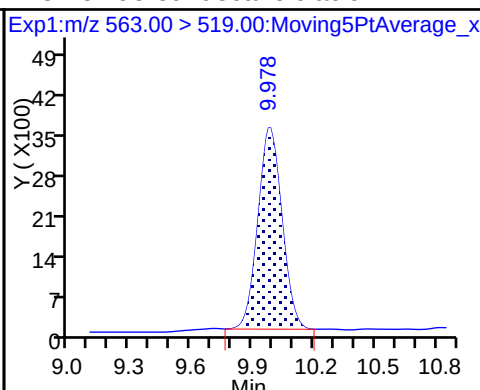
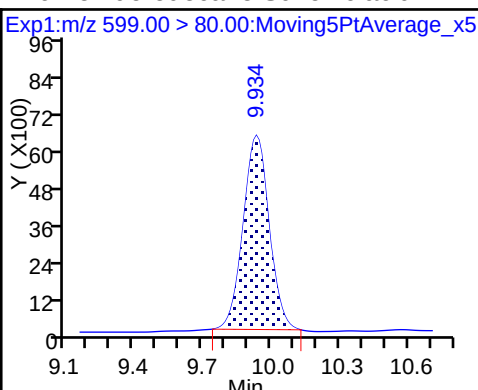
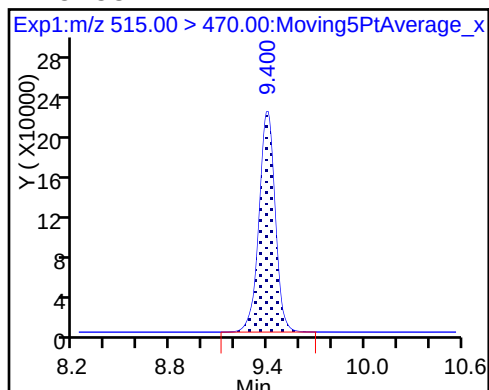
24 Perfluorodecanoic acid



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid

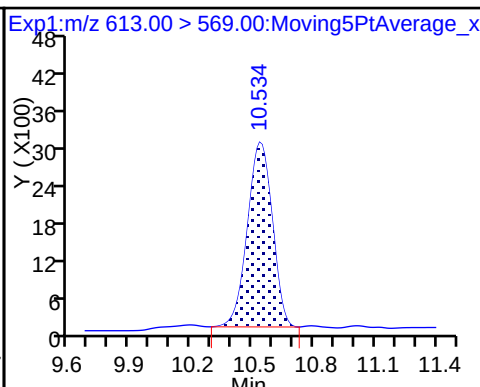
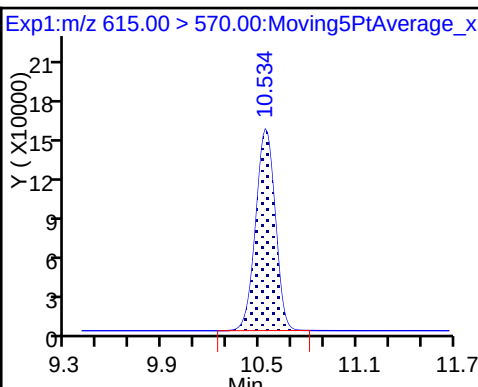
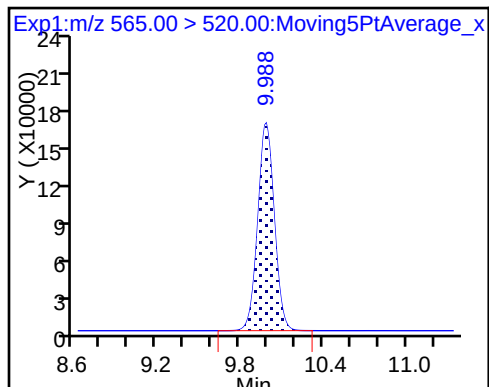
28 Perfluoroundecanoic acid



D 27 13C2 PFUnA

D 30 13C2 PFDaA

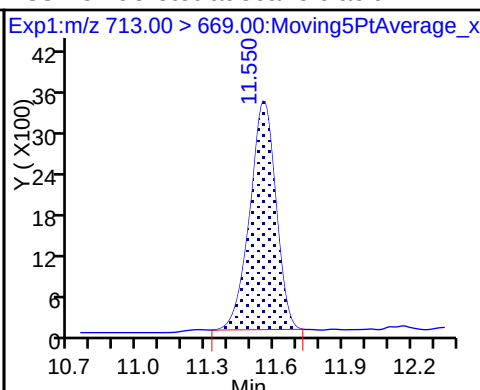
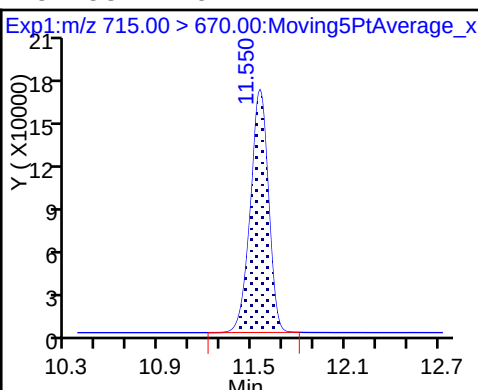
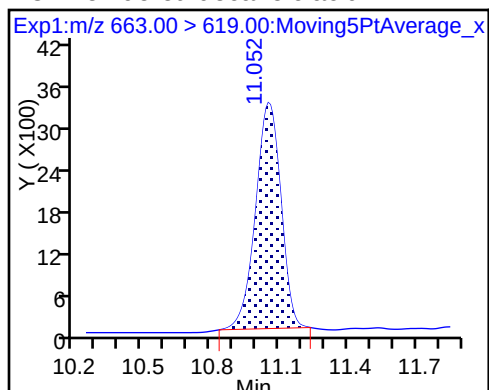
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

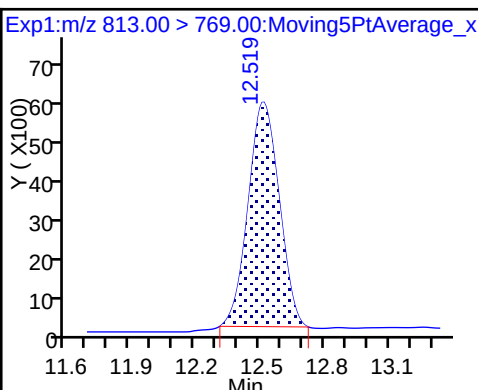
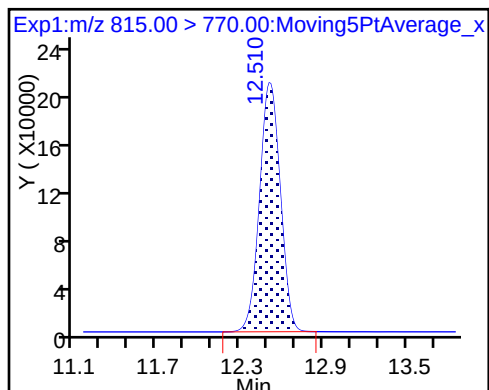
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_004.d
 Lims ID: STD L2
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 26-Oct-2017 15:18:02 ALS Bottle#: 4 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD L2
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub23
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:18:24 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.877	5.873	0.004		4568934	0.0499		99.8	93996	
1 Perfluorobutyric acid										
212.90 > 169.00	5.877	5.876	0.001	1.000	396296	0.003468		173	9.1	
D 4 13C5-PFPeA										
267.90 > 223.00	6.516	6.513	0.003		3712332	0.0488		97.5	32206	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.516	6.513	0.003	1.000	186112	0.002325		116	93.5	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.576	6.569	0.007	1.000	261100	0.001822		103	1009	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.028	7.019	0.009	1.000	159057	0.002508		125	242	
D 6 13C2 PFHxA										
315.00 > 270.00	7.028	7.019	0.009		3114680	0.0498		99.6	50432	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.558	7.552	0.006	1.000	185365	0.001991		109	965	
D 10 18O2 PFHxS										
403.00 > 84.00	7.558	7.555	0.003		3789544	0.0463		97.8	38539	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.570	7.561	0.009	1.000	98519	0.002044		102	144	
D 11 13C4-PFHpA										
367.00 > 322.00	7.570	7.561	0.009		2326811	0.0485		97.1	30251	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.134	8.132	0.002	1.000	172586	0.001991		105	1168	
D 14 13C4 PFOA										
417.00 > 372.00	8.152	8.150	0.002		2112666	0.0502		100	31221	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.161	8.152	0.009	1.000	114647	0.002362		118	274	
413.00 > 169.00	8.152	8.152	0.0	0.999	112599		1.02(0.90-1.10)	118	1034	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.741	8.734	0.007		3824314	0.0473		98.9	18877	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.741	8.738	0.003	1.000	192519	0.002141		115	431	
499.00 > 99.00	8.741	8.738	0.003	1.000	0		0.00(0.90-1.10)	115		
D 19 13C5 PFNA										
468.00 > 423.00	8.779	8.770	0.009		1604154	0.0497		99.5	31407	
20 Perfluorononanoic acid										
463.00 > 419.00	8.779	8.771	0.008	1.000	65710	0.002033		102	260	
D 21 13C8 FOSA										
506.00 > 78.00	9.263	9.262	0.001		5627990	0.0443		88.6	42592	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.263	9.262	0.001	1.000	229363	0.002016		101	2643	
D 23 13C2 PFDA										
515.00 > 470.00	9.392	9.387	0.005		1270912	0.0483		96.6	26715	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.392	9.387	0.005	1.000	55415	0.002136		107	462	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.923	9.920	0.003	1.000	92461	0.001830		94.9	1173	
D 27 13C2 PFUnA										
565.00 > 520.00	9.978	9.971	0.007		1072709	0.0475		95.0	16606	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.978	9.971	0.007	1.000	45480	0.001966		98.3	386	
D 30 13C2 PFDaA										
615.00 > 570.00	10.534	10.522	0.012		1040628	0.0450		90.1	12480	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.534	10.523	0.011	1.000	45844	0.002096		105	154	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.043	11.037	0.006	1.000	40399	0.001776		88.8	202	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.543	11.531	0.012		820634	0.0277		55.5	7304	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.543	11.532	0.011	1.000	31190	0.001289		64.5	166	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.501	12.482	0.019		877517	0.0267		53.4	4839	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.510	12.485	0.025	1.000	37847	0.000930		46.5	100	

Reagents:

LCPFC-LL-L2_00015

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_004.d

Injection Date: 26-Oct-2017 15:18:02

Instrument ID: A7_N

Lims ID: STD L2

Client ID:

Operator ID: abservice

ALS Bottle#: 4

Worklist Smp#: 5

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

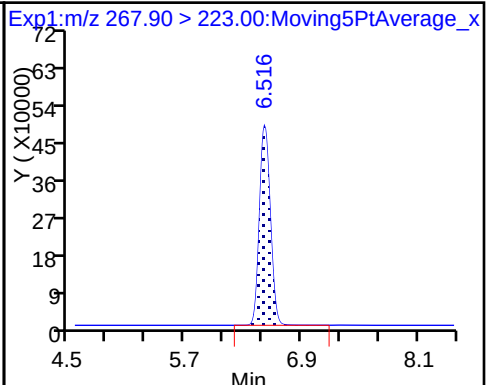
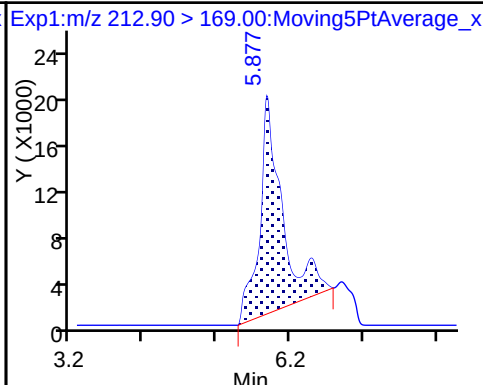
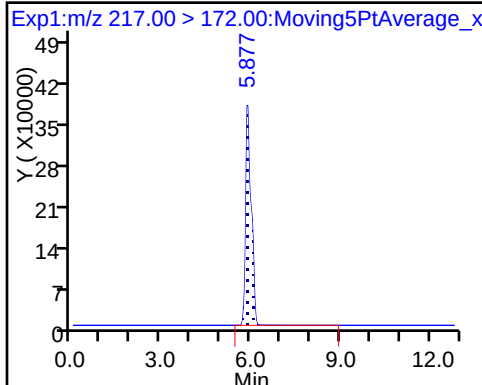
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

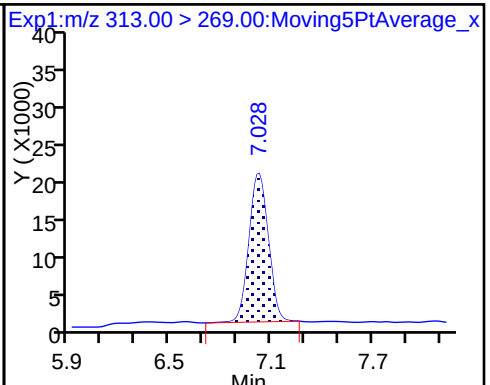
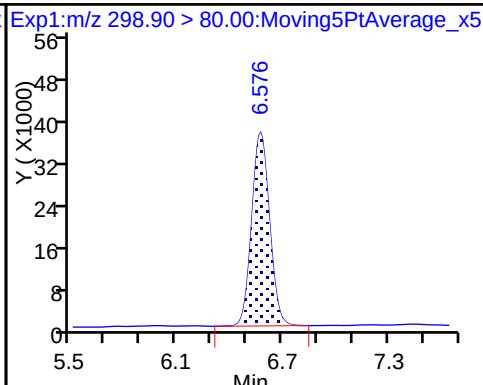
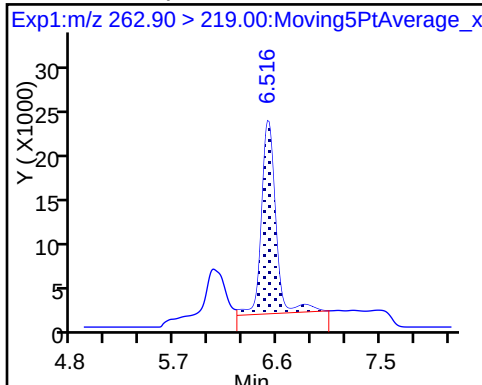
D 4 13C5-PFPeA



3 Perfluoropentanoic acid

5 Perfluorobutanesulfonic acid

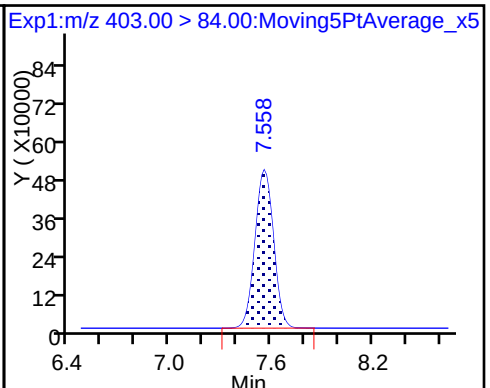
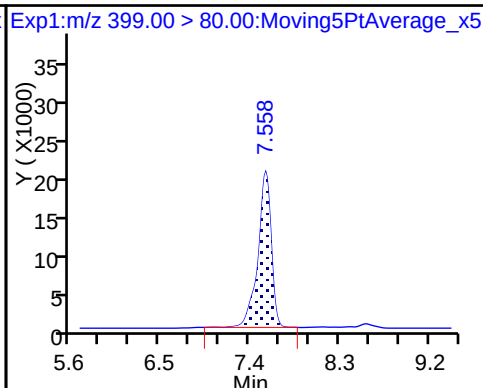
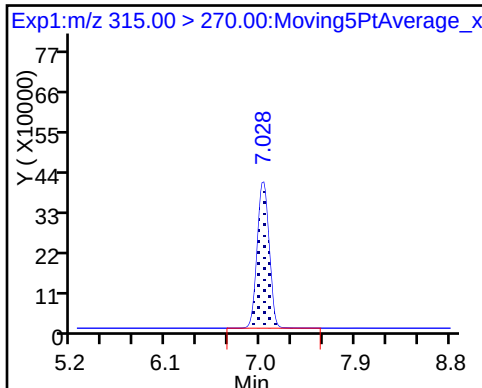
7 Perfluorohexanoic acid



D 6 13C2 PFHxA

9 Perfluorohexanesulfonic acid

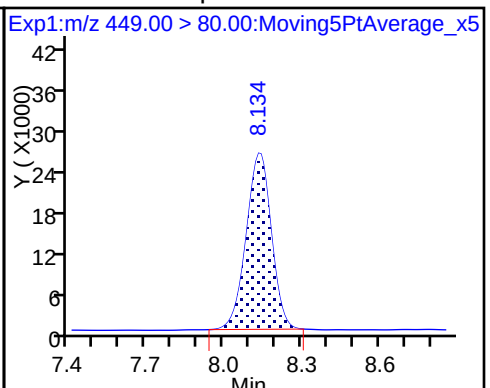
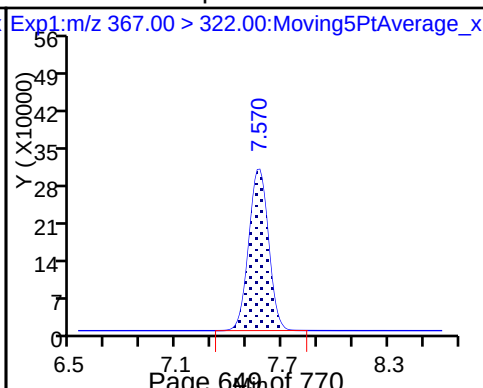
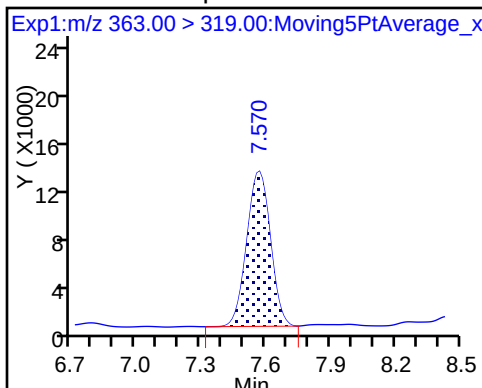
D 10 18O2 PFHxS



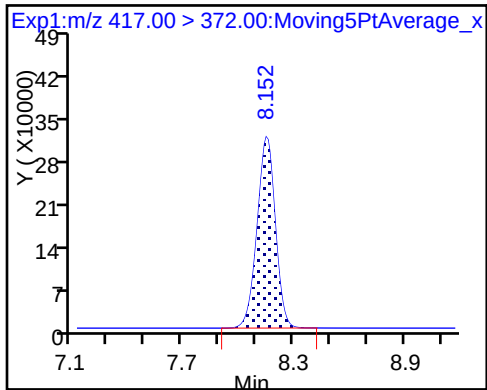
12 Perfluoroheptanoic acid

D 11 13C4-PFHpA

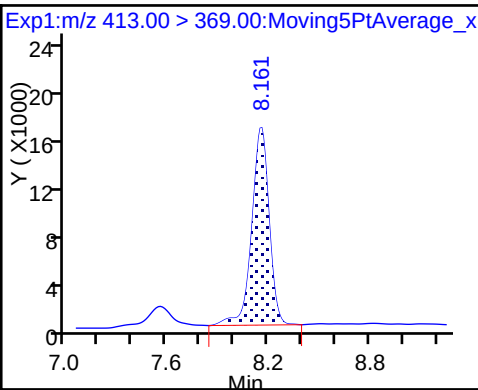
13 Perfluoroheptanesulfonic Acid



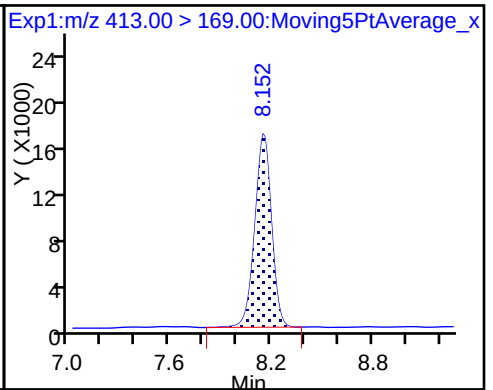
D 14 13C4 PFOA



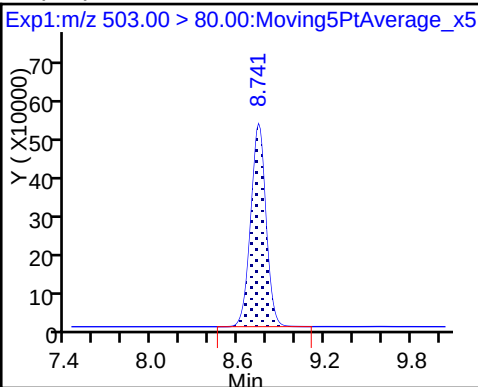
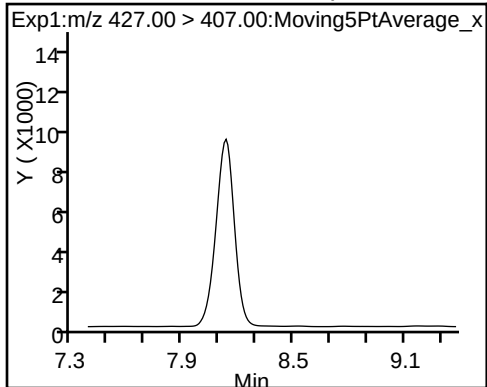
15 Perfluorooctanoic acid



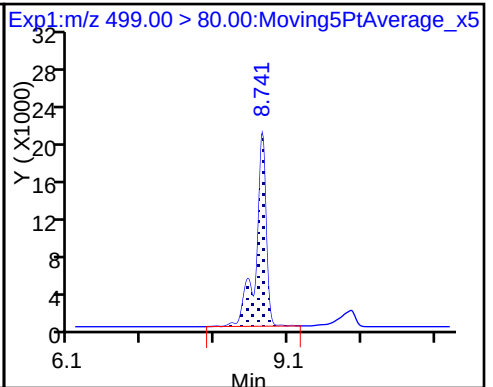
15 Perfluorooctanoic acid



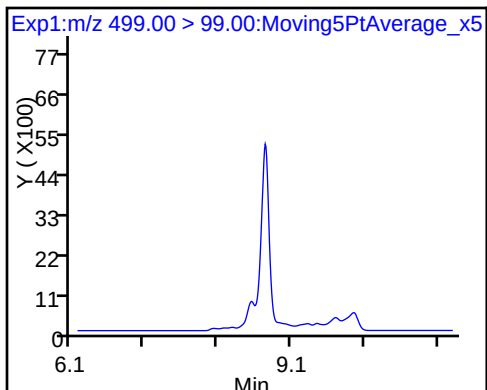
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)



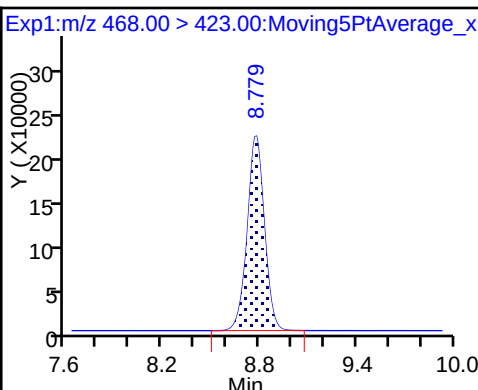
18 Perfluorooctane sulfonic acid



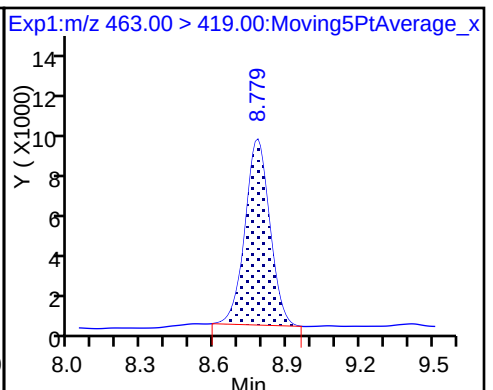
18 Perfluorooctane sulfonic acid



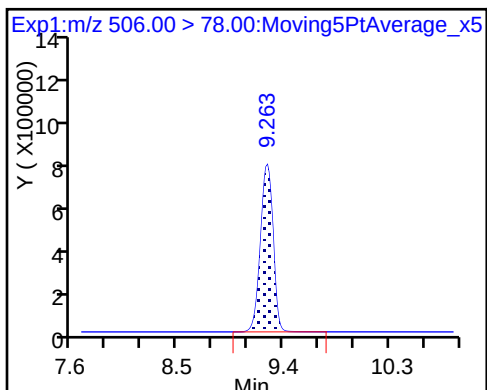
D 19 13C5 PFNA



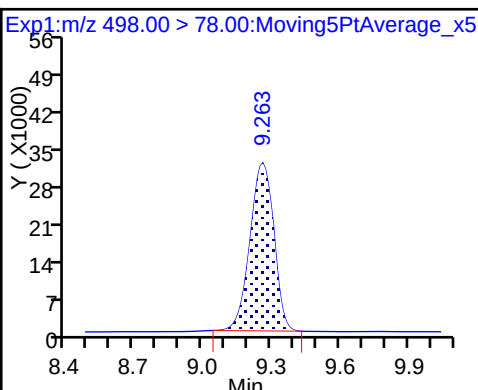
20 Perfluorononanoic acid



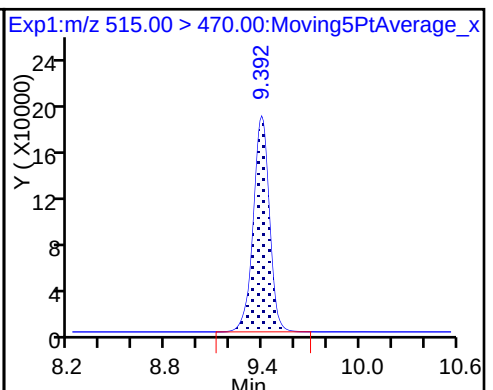
D 21 13C8 FOSA



22 Perfluorooctane Sulfonamide



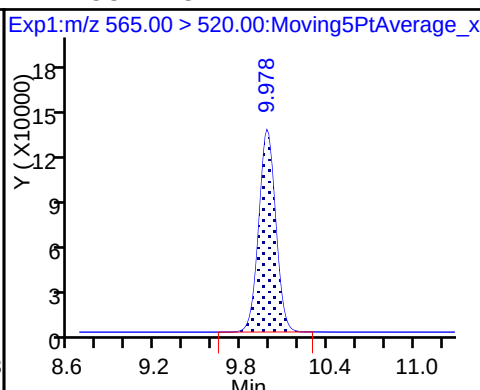
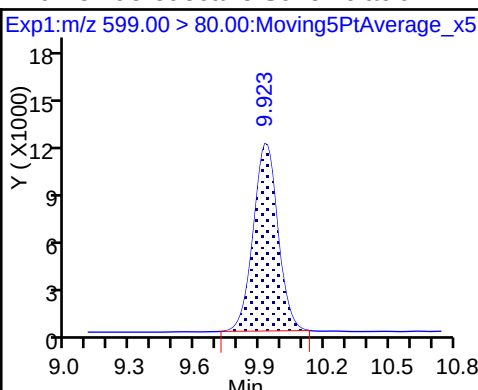
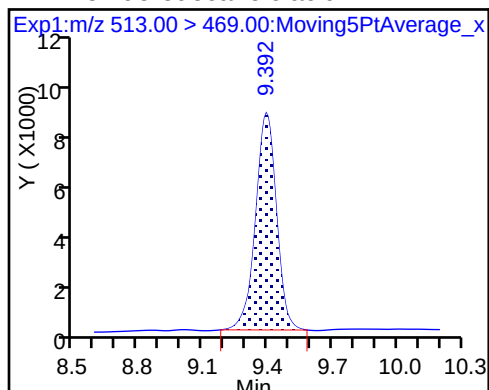
D 23 13C2 PFDA



24 Perfluorodecanoic acid

26 Perfluorodecane Sulfonic acid

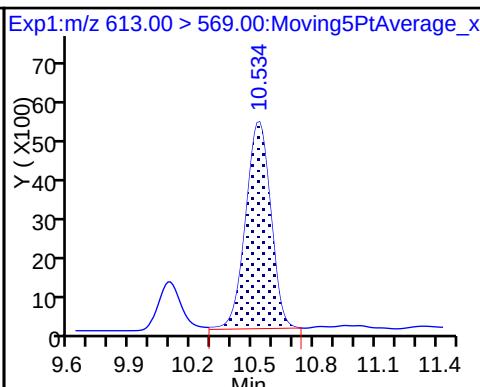
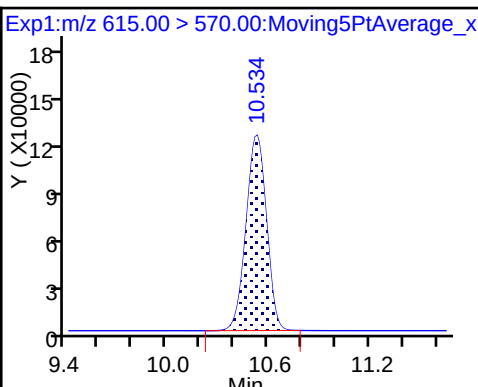
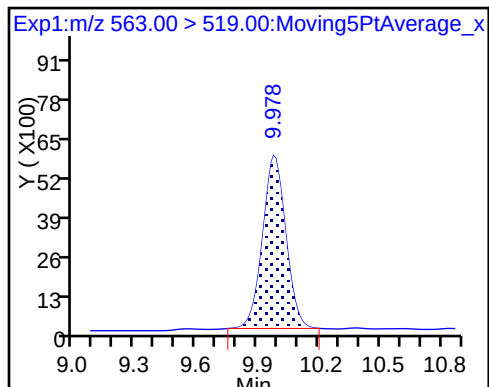
D 27 13C2 PFUnA



28 Perfluoroundecanoic acid

D 30 13C2 PFDaA

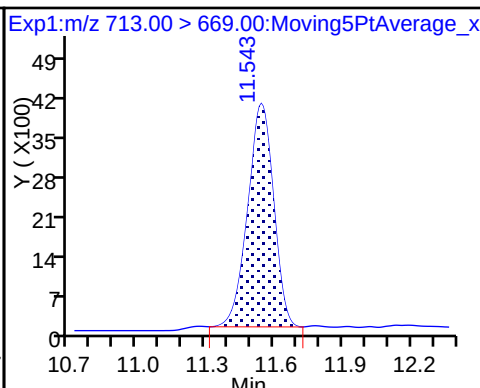
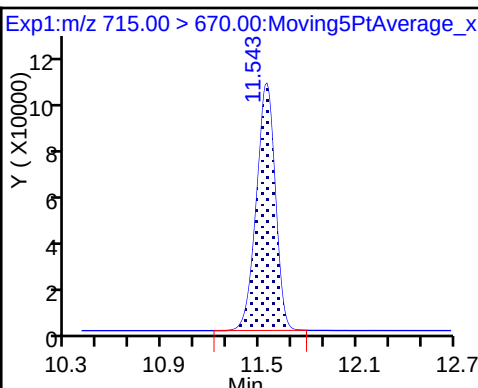
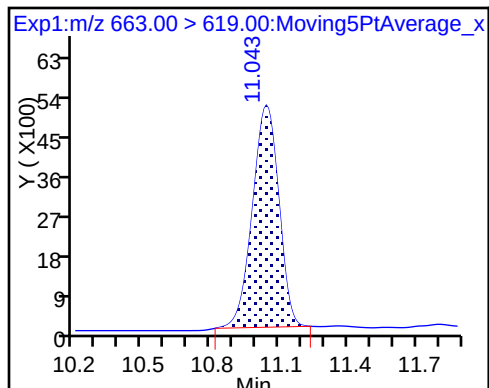
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

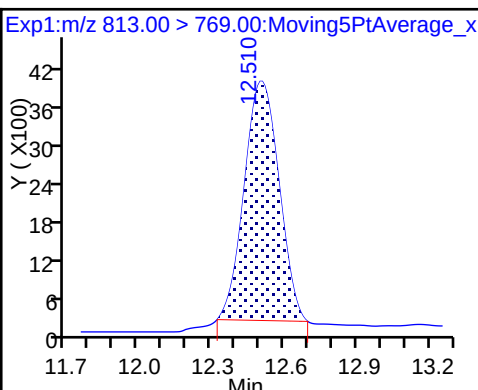
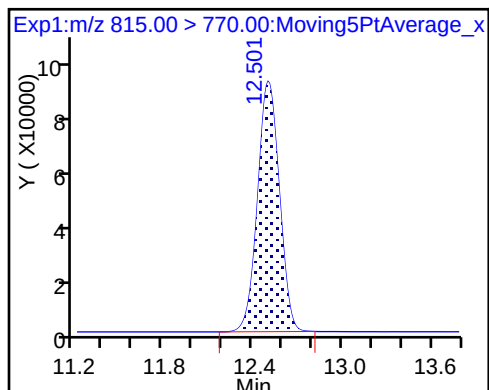
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_005.d
 Lims ID: STD L3
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 26-Oct-2017 15:36:25 ALS Bottle#: 5 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD L3
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub23
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:18:33 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.878	5.873	0.005		4672219	0.0510		102	91568	
1 Perfluorobutyric acid										
212.90 > 169.00	5.886	5.876	0.010	1.000	497786	0.004260		85.2	15.6	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.526	6.513	0.013	1.000	411610	0.004950		99.0	251	
D 4 13C5-PFPeA										
267.90 > 223.00	6.526	6.513	0.013		3856681	0.0507		101	45442	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.577	6.569	0.008	1.000	672537	0.004657		105	2212	
D 6 13C2 PFHxA										
315.00 > 270.00	7.029	7.019	0.010		3148802	0.0503		101	51563	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.029	7.019	0.010	1.000	323967	0.005053		101	916	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.559	7.552	0.006	1.000	431457	0.004599		101	1446	
D 10 18O2 PFHxS										
403.00 > 84.00	7.571	7.555	0.016		3818311	0.0466		98.6	35862	
D 11 13C4-PFHpA										
367.00 > 322.00	7.571	7.561	0.010		2395481	0.0500		99.9	28632	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.571	7.561	0.010	1.000	259429	0.005229		105	876	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.144	8.132	0.012	1.000	424713	0.004966		104	2162	
D 14 13C4 PFOA										
417.00 > 372.00	8.162	8.150	0.012		2136461	0.0508		102	35001	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.162	8.152	0.010	1.000	246214	0.005016		100	955	
413.00 > 169.00	8.162	8.152	0.010	1.000	241527		1.02(0.90-1.10)	100	2978	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.742	8.734	0.008		3772191	0.0466		97.6	22621	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.742	8.738	0.004	1.000	421221	0.004750		102	894	
499.00 > 99.00	8.742	8.738	0.004	1.000	91717		4.59(0.90-1.10)	102	511	
D 19 13C5 PFNA										
468.00 > 423.00	8.780	8.770	0.010		1592648	0.0494		98.8	31189	
20 Perfluorononanoic acid										
463.00 > 419.00	8.780	8.771	0.009	1.000	167233	0.005212		104	967	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.265	9.262	0.003	1.000	565798	0.005088		102	6557	
D 21 13C8 FOSA										
506.00 > 78.00	9.265	9.262	0.003		5501352	0.0433		86.6	36375	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.399	9.387	0.012	1.000	128672	0.004942		98.8	1353	
D 23 13C2 PFDA										
515.00 > 470.00	9.399	9.387	0.012		1275502	0.0485		97.0	23202	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.934	9.920	0.014	1.000	238431	0.004784		99.2	2163	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.987	9.971	0.016	1.000	121654	0.005318		106	1235	
D 27 13C2 PFUnA										
565.00 > 520.00	9.977	9.971	0.006		1060619	0.0470		93.9	18729	
D 30 13C2 PFDaA										
615.00 > 570.00	10.533	10.522	0.011		981485	0.0425		84.9	13142	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.533	10.523	0.010	1.000	101514	0.004921		98.4	351	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.051	11.037	0.014	1.000	93312	0.004350		87.0	617	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.542	11.531	0.011		1012791	0.0342		68.5	8446	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.542	11.532	0.010	1.000	95599	0.004190		83.8	479	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.500	12.482	0.018		1258925	0.0383		76.7	5896	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.500	12.485	0.015	1.000	126629	0.004454		89.1	334	

Reagents:

LCPFC-LL-L3_00010

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_005.d

Injection Date: 26-Oct-2017 15:36:25

Instrument ID: A7_N

Lims ID: STD L3

Client ID:

Operator ID: abservice

ALS Bottle#: 5

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

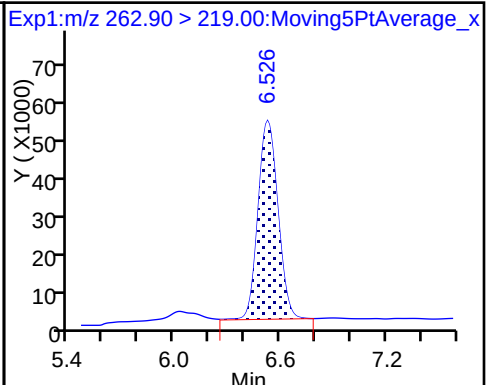
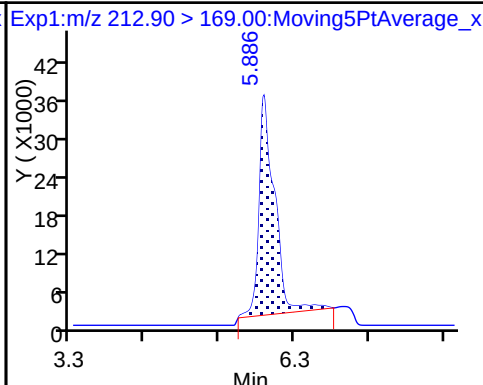
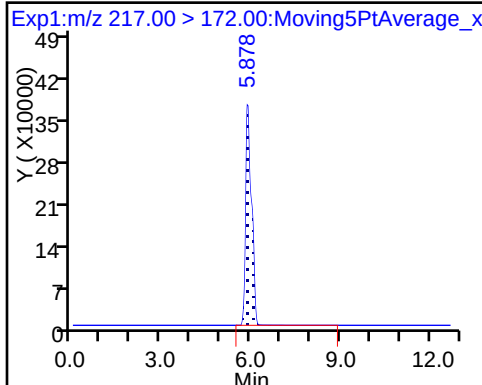
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

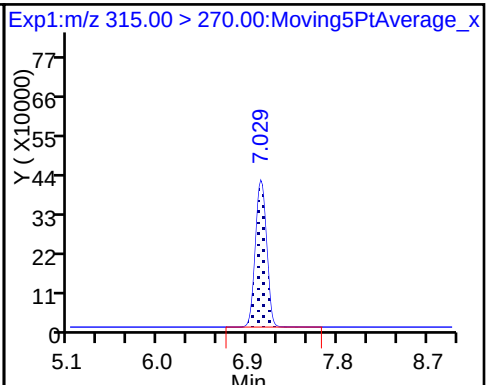
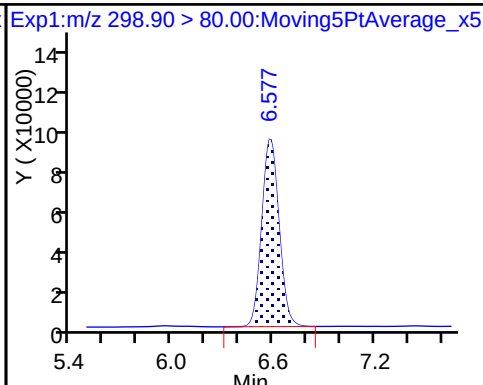
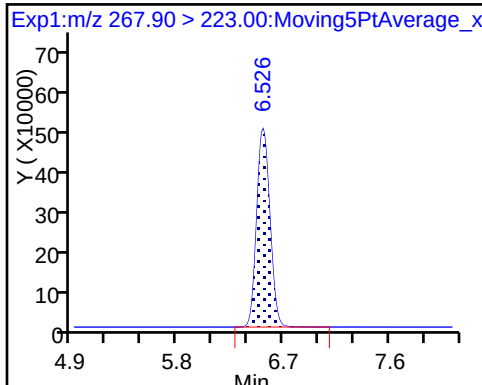
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

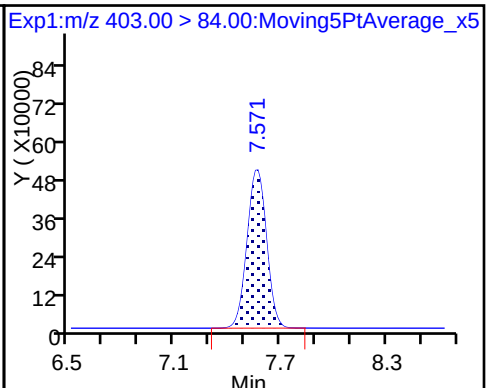
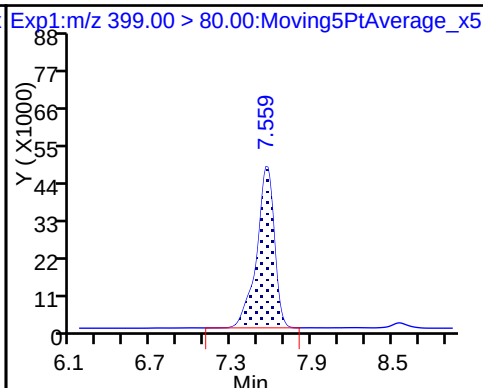
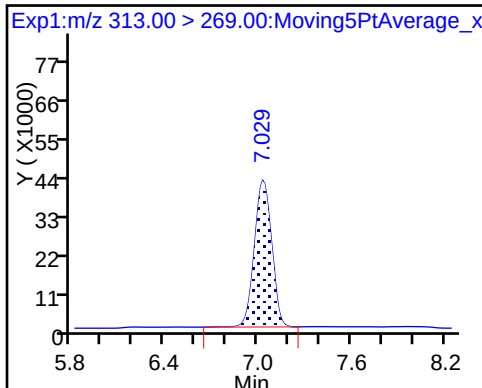
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

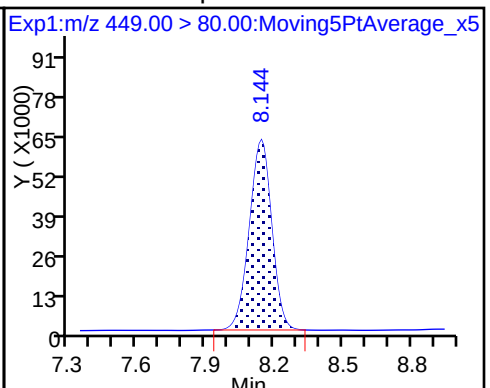
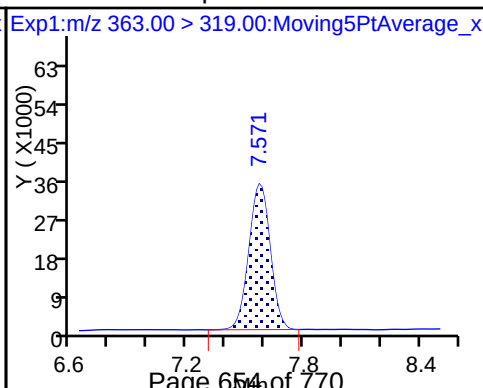
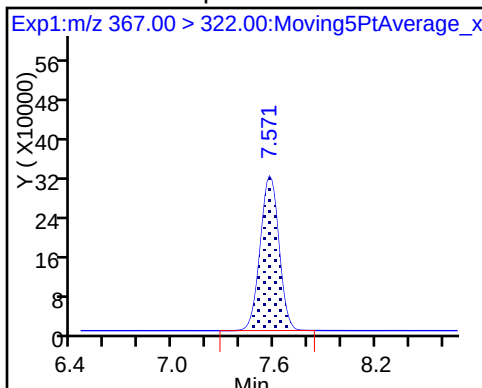
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

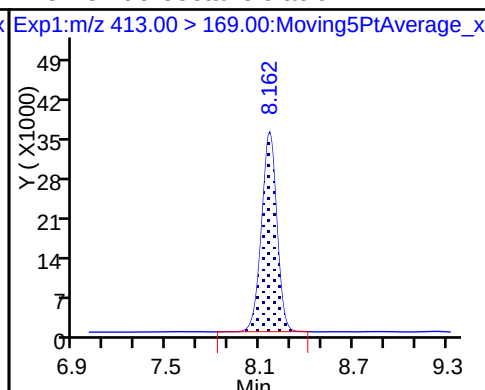
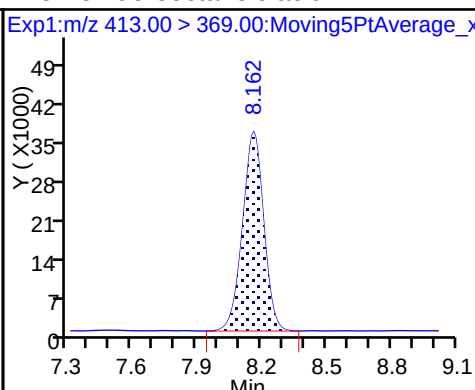
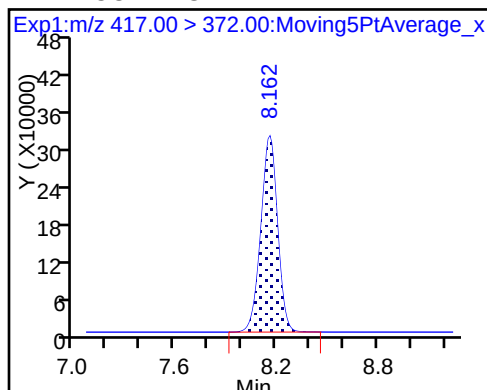
13 Perfluoroheptanesulfonic Acid



D 14 13C4 PFOA

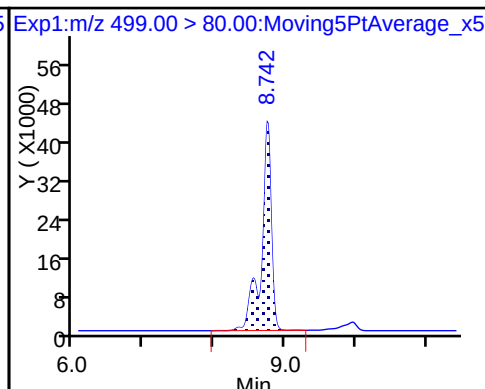
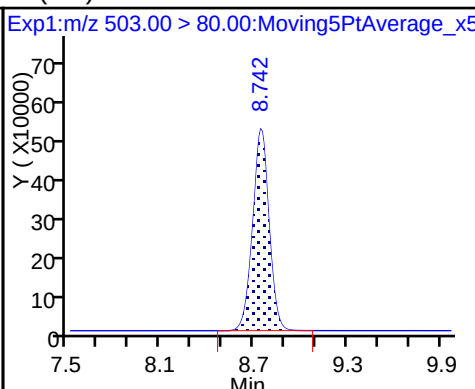
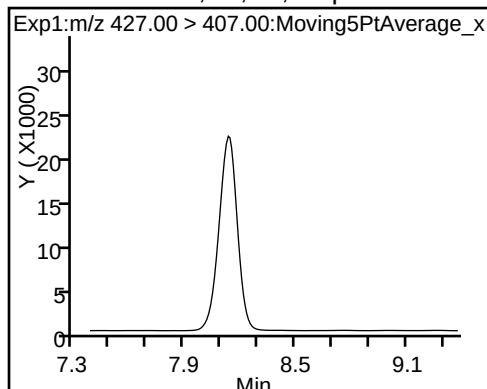
15 Perfluorooctanoic acid

15 Perfluorooctanoic acid



48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)

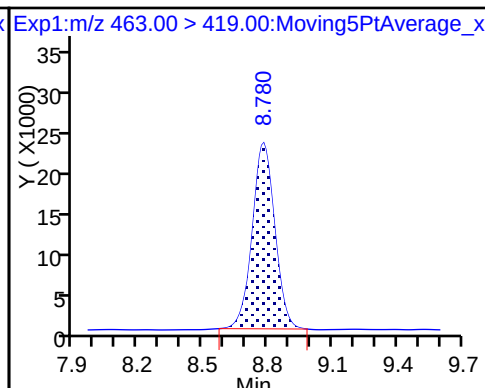
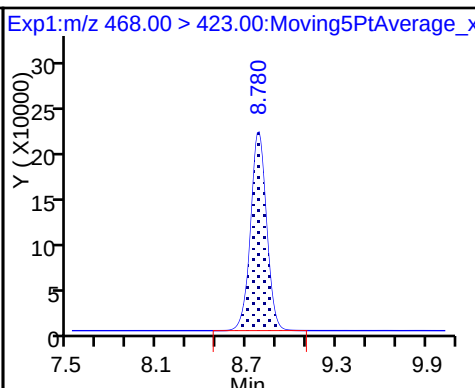
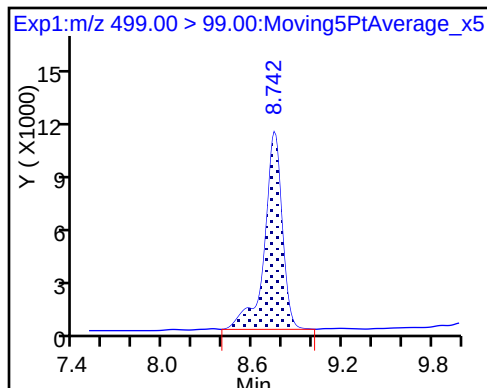
18 Perfluorooctane sulfonic acid



18 Perfluorooctane sulfonic acid

D 19 13C5 PFNA

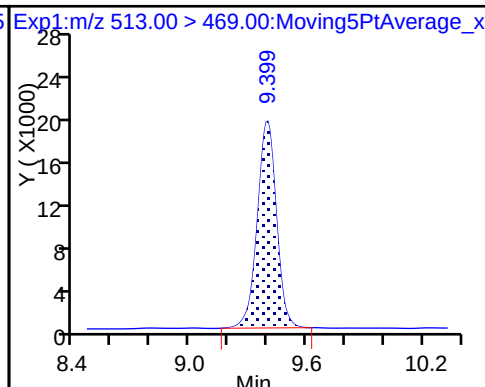
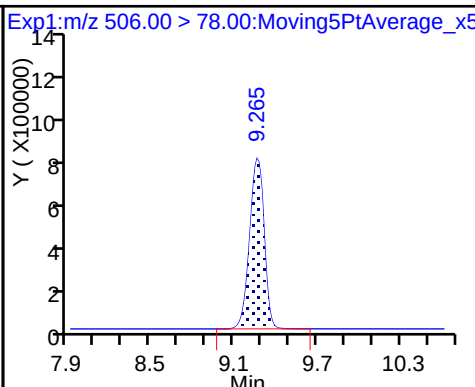
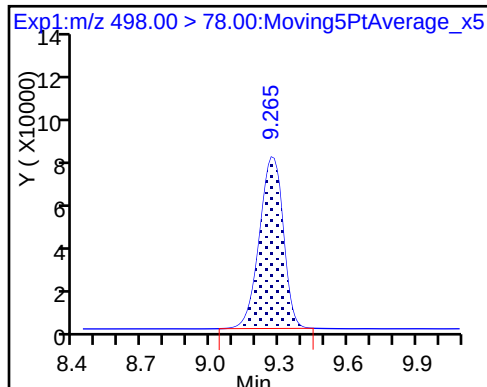
20 Perfluorononanoic acid



22 Perfluorooctane Sulfonamide

D 21 13C8 FOSA

24 Perfluorodecanoic acid

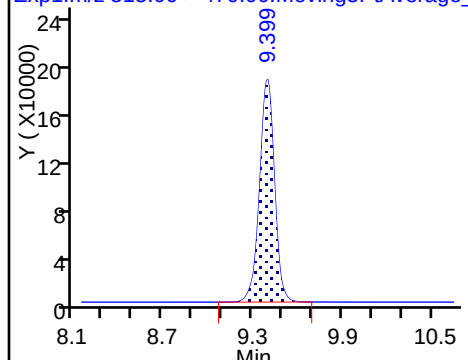


D 23 13C2 PFDA

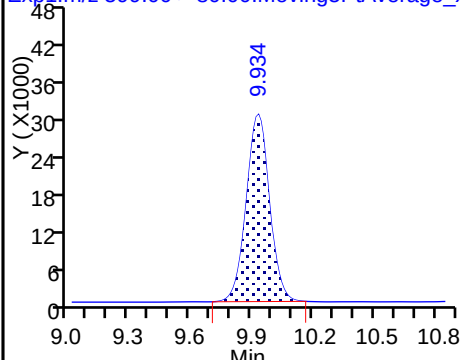
26 Perfluorodecane Sulfonic acid

28 Perfluoroundecanoic acid

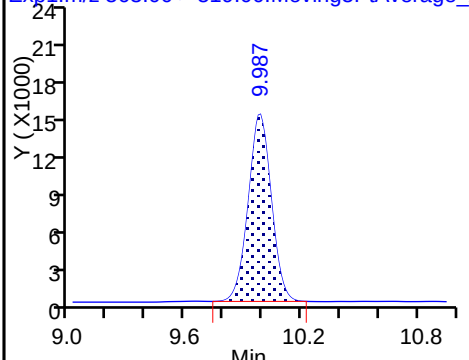
Exp1:m/z 515.00 > 470.00:Moving5PtAverage_x



Exp1:m/z 599.00 > 80.00:Moving5PtAverage_x5



Exp1:m/z 563.00 > 519.00:Moving5PtAverage_x

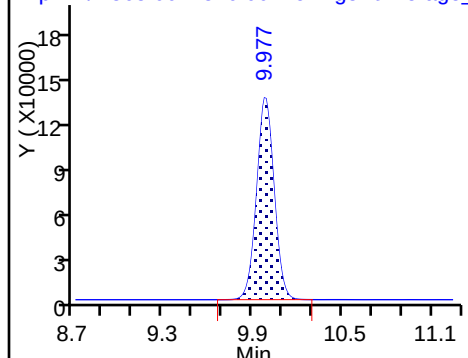


D 27 13C2 PFUnA

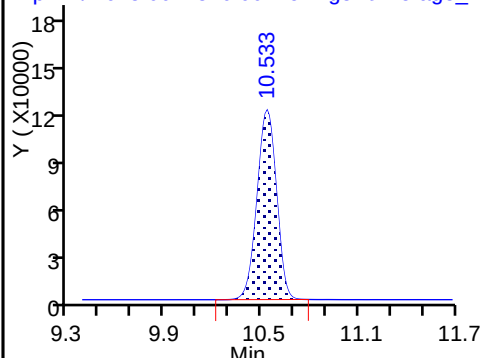
D 30 13C2 PFDaA

29 Perfluorododecanoic acid

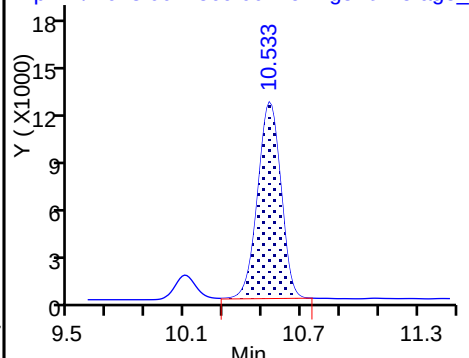
Exp1:m/z 565.00 > 520.00:Moving5PtAverage_x



Exp1:m/z 615.00 > 570.00:Moving5PtAverage_x



Exp1:m/z 613.00 > 569.00:Moving5PtAverage_x

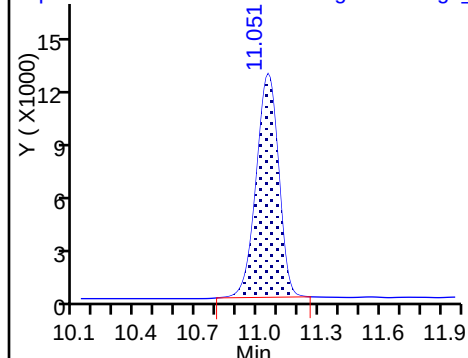


31 Perfluorotridecanoic acid

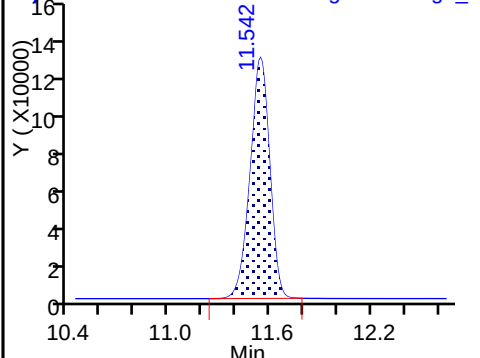
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid

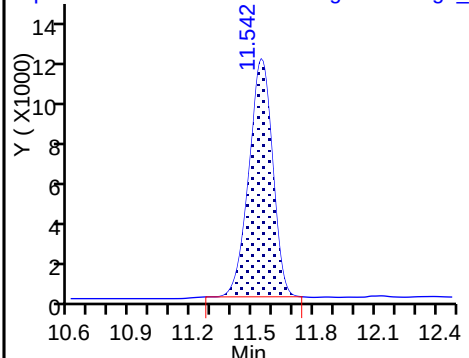
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Exp1:m/z 715.00 > 670.00:Moving5PtAverage_x



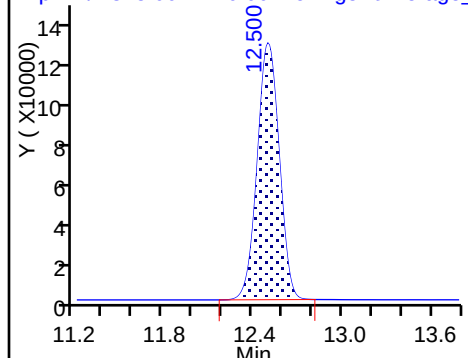
Exp1:m/z 713.00 > 669.00:Moving5PtAverage_x



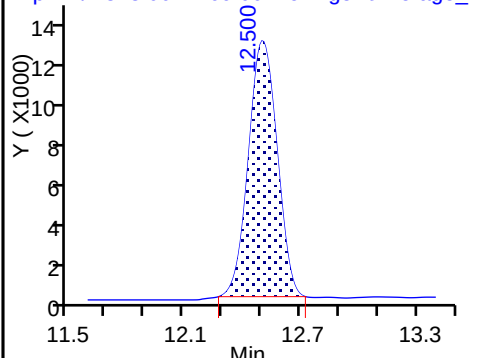
D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid

Exp1:m/z 815.00 > 770.00:Moving5PtAverage_x



Exp1:m/z 813.00 > 769.00:Moving5PtAverage_x



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_006.d
 Lims ID: STD L4
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 26-Oct-2017 15:54:48 ALS Bottle#: 6 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD L4
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub23
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:18:42 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 26-Oct-2017 17:17:41

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.878	5.873	0.005		4590552	0.0501		100	72906	
1 Perfluorobutyric acid										
212.90 > 169.00	5.878	5.876	0.002	1.000	870930	0.007586		75.9	29.2	
D 4 13C5-PFPeA										
267.90 > 223.00	6.516	6.513	0.003		3862154	0.0507		101	50757	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.516	6.513	0.003	1.000	803608	0.009651		96.5	590	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.576	6.569	0.007	1.000	1317487	0.009252		105	4567	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.016	7.019	-0.003	1.000	620204	0.0099		99.1	1906	
D 6 13C2 PFHxA										
315.00 > 270.00	7.016	7.019	-0.003		3074749	0.0492		98.3	49690	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.558	7.552	0.006	1.000	852959	0.009219		101	2128	
D 10 18O2 PFHxS										
403.00 > 84.00	7.558	7.555	0.003		3765343	0.0460		97.2	38033	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.558	7.561	-0.003	1.000	499932	0.0101		101	1926	
D 11 13C4-PFHpA										
367.00 > 322.00	7.558	7.561	-0.003		2393863	0.0499		99.9	28371	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.134	8.132	0.002	1.000	850993	0.009762		103	4282	
D 14 13C4 PFOA										
417.00 > 372.00	8.152	8.150	0.002		2121532	0.0504		101	34573	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										
413.00 > 369.00	8.152	8.152	0.0	1.000	478650	0.009820		98.2	2182	
413.00 > 169.00	8.152	8.152	0.0	1.000	473600		1.01(0.90-1.10)	98.2	5792	
D 17 13C4 PFOS										
503.00 > 80.00	8.732	8.734	-0.002		3845015	0.0475		99.4	23194	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.742	8.738	0.004	1.000	818728	0.009058		97.6	1694	
499.00 > 99.00	8.732	8.738	-0.006	0.999	188581		4.34(0.90-1.10)	97.6	1146	
D 19 13C5 PFNA										
468.00 > 423.00	8.770	8.770	0.0		1645534	0.0510		102	32593	
20 Perfluorononanoic acid										
463.00 > 419.00	8.770	8.771	-0.001	1.000	331762	0.0100		100	1924	
D 21 13C8 FOSA										
506.00 > 78.00	9.264	9.262	0.002		5656177	0.0445		89.0	35056	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.264	9.262	0.002	1.000	1141232	0.0100		99.8	12022	
D 23 13C2 PFDA										
515.00 > 470.00	9.385	9.387	-0.002		1261953	0.0480		95.9	30635	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.385	9.387	-0.002	1.000	265245	0.0103		103	3198	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.924	9.920	0.004	1.000	465889	0.009170		95.1	4939	
D 27 13C2 PFUnA										
565.00 > 520.00	9.969	9.971	-0.002		1050458	0.0465		93.0	18443	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.969	9.971	-0.002	1.000	228572	0.0101		101	2329	
D 30 13C2 PFDoA										
615.00 > 570.00	10.523	10.522	0.001		979881	0.0424		84.8	13077	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.523	10.523	0.0	1.000	209579	0.0102		102	815	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.035	11.037	-0.002	1.000	184765	0.008628		86.3	1207	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.528	11.531	-0.003		899922	0.0304		60.8	7951	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.536	11.532	0.004	1.000	163368	0.007172		71.7	883	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.480	12.482	-0.002		1096801	0.0334		66.8	5711	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.480	12.485	-0.005	1.000	208945	0.007658		76.6	579	

Reagents:

LCPFC-LL-L4_00012

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_006.d

Injection Date: 26-Oct-2017 15:54:48

Instrument ID: A7_N

Lims ID: STD L4

Client ID:

Operator ID: abservice

ALS Bottle#: 6

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

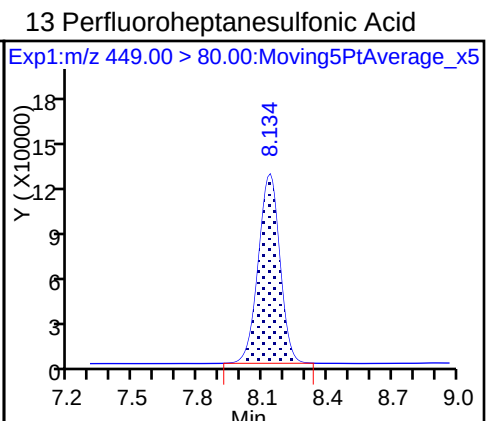
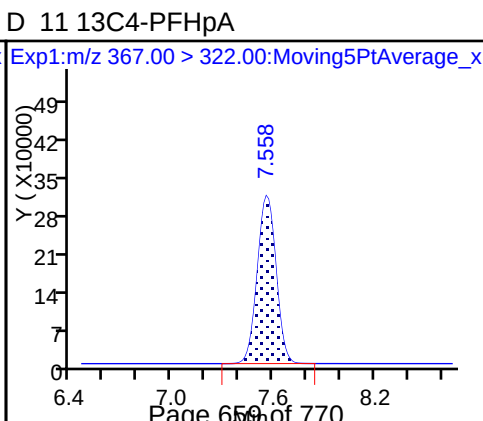
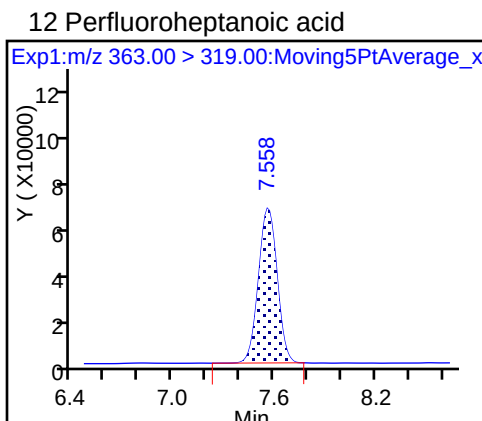
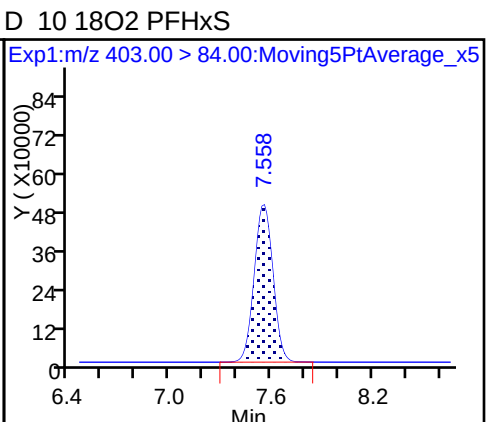
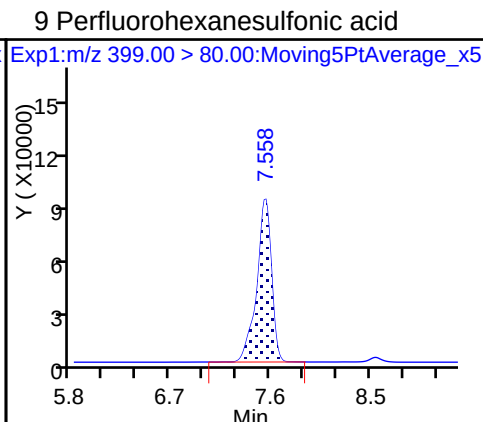
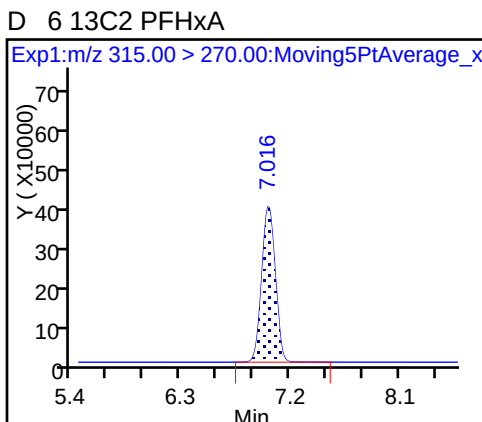
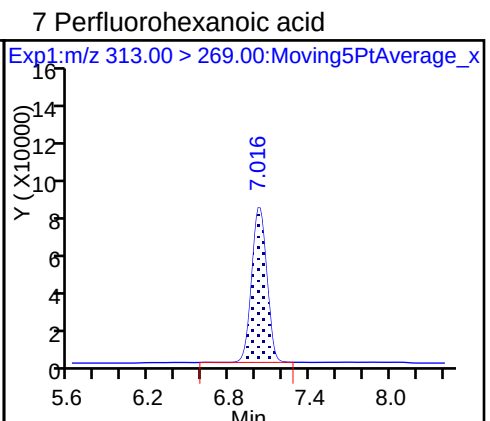
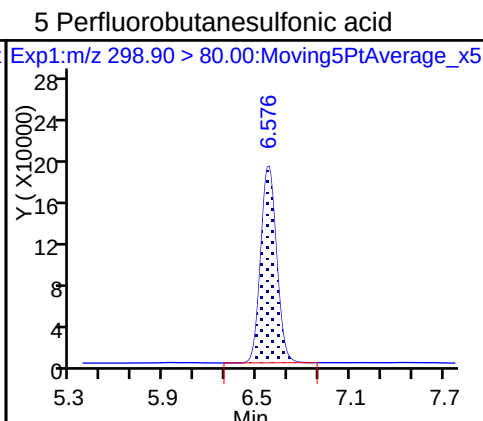
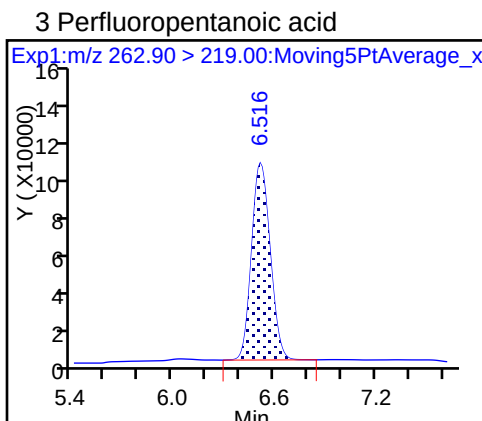
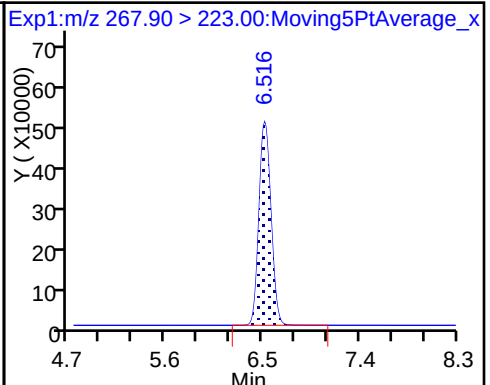
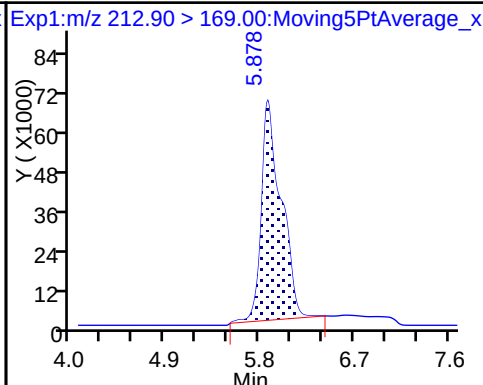
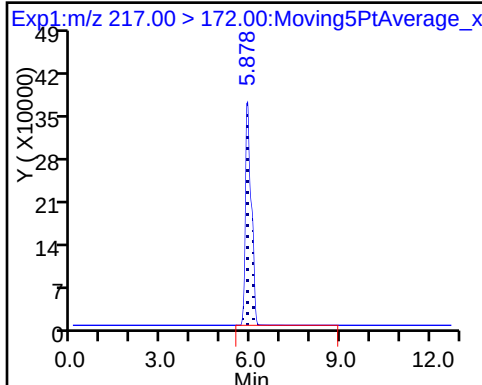
Method: A7_N

Limit Group: LC PFAS ICAL

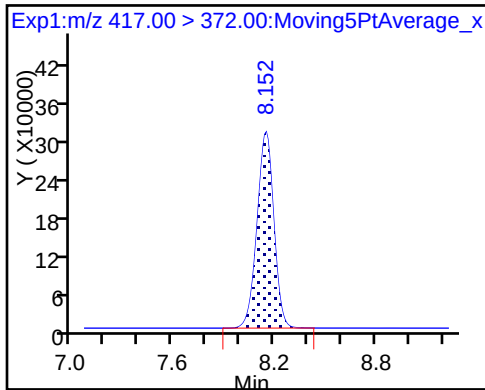
D 2 13C4 PFBA

1 Perfluorobutyric acid

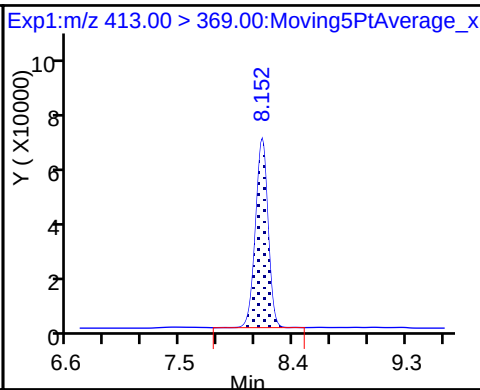
D 4 13C5-PFPeA



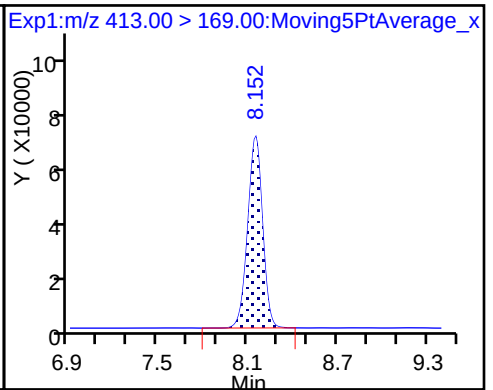
D 14 13C4 PFOA



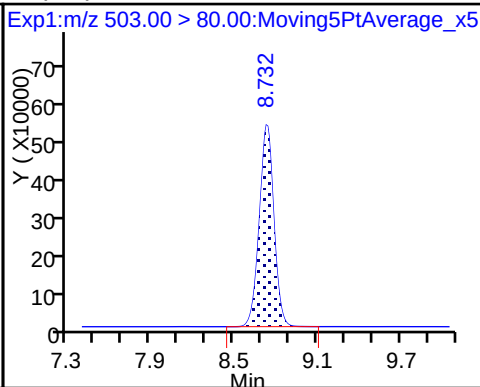
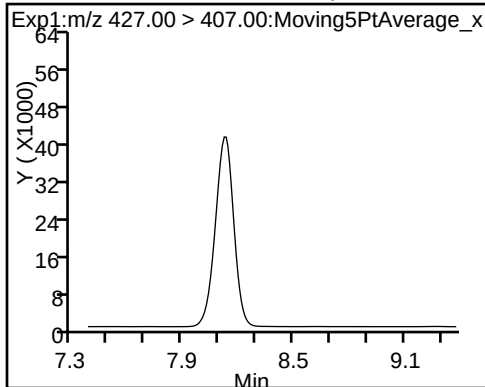
15 Perfluorooctanoic acid



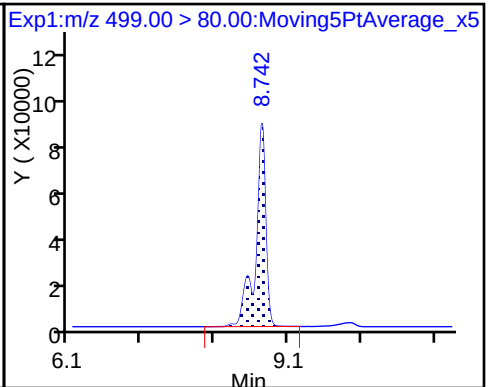
15 Perfluorooctanoic acid



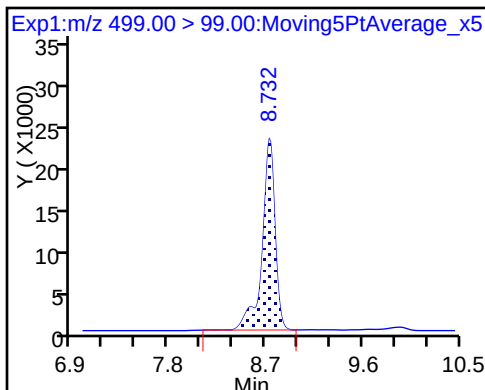
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)



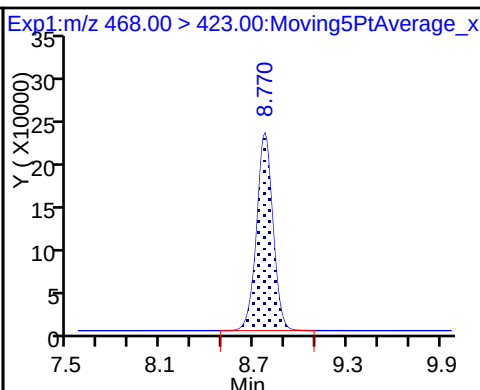
18 Perfluorooctane sulfonic acid



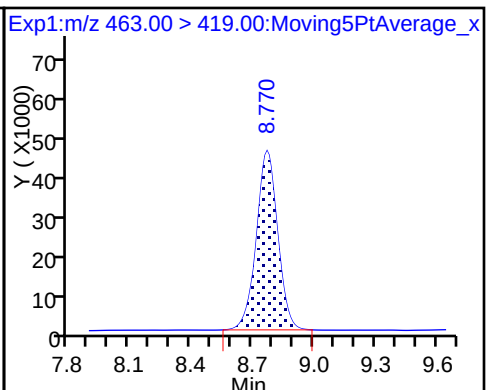
18 Perfluorooctane sulfonic acid



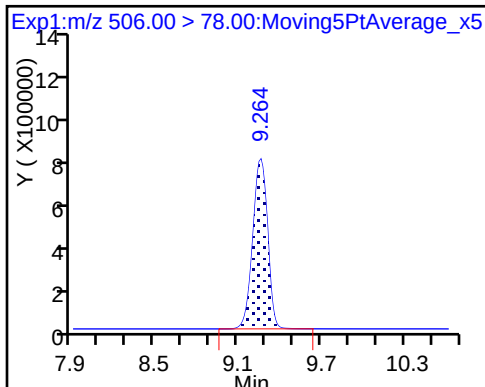
D 19 13C5 PFNA



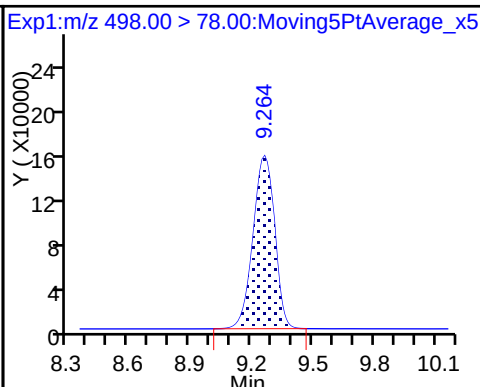
20 Perfluorononanoic acid



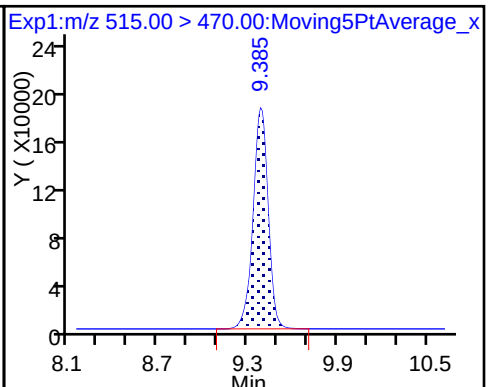
D 21 13C8 FOSA



22 Perfluorooctane Sulfonamide



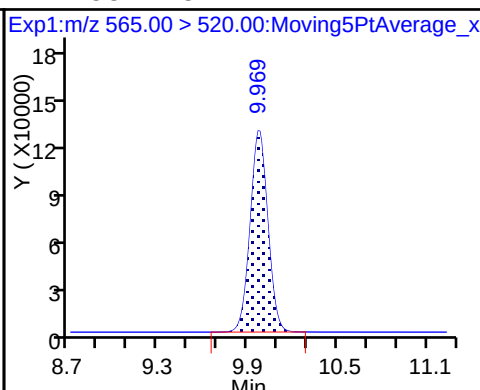
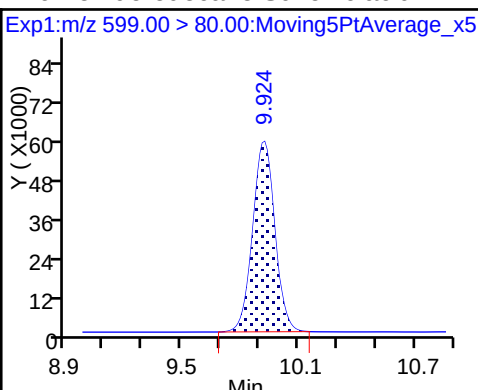
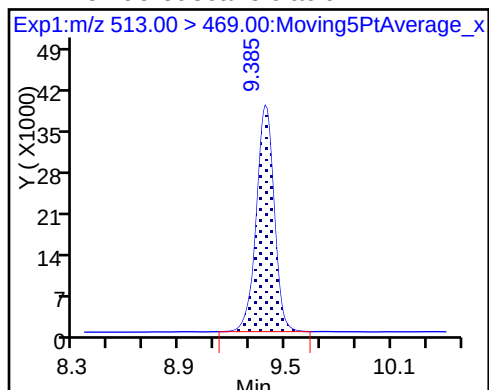
D 23 13C2 PFDA



24 Perfluorodecanoic acid

26 Perfluorodecane Sulfonic acid

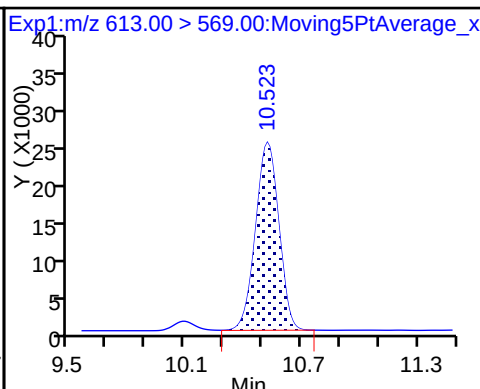
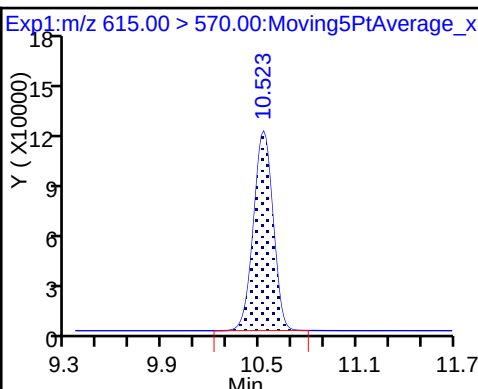
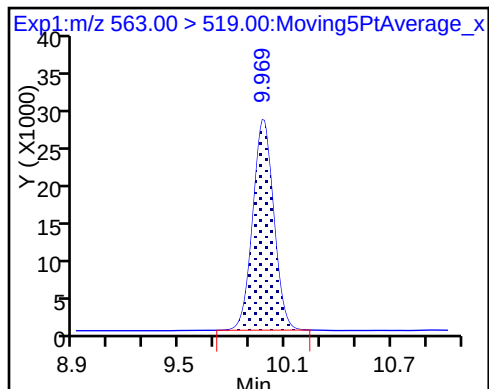
D 27 13C2 PFUnA



28 Perfluoroundecanoic acid

D 30 13C2 PFDaA

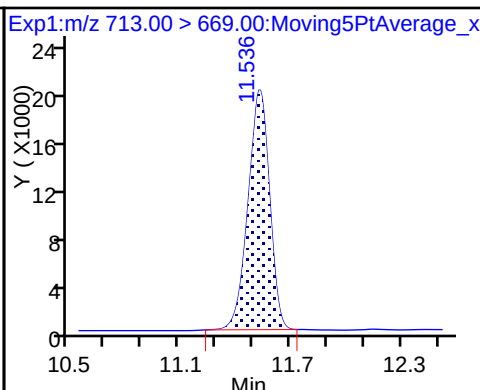
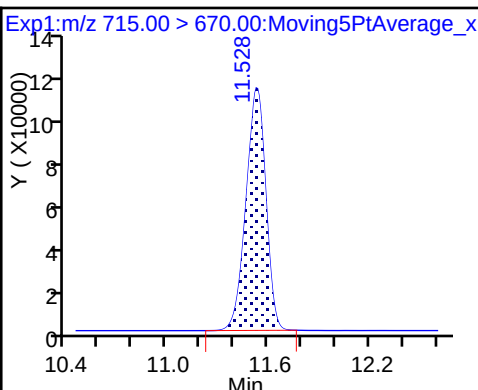
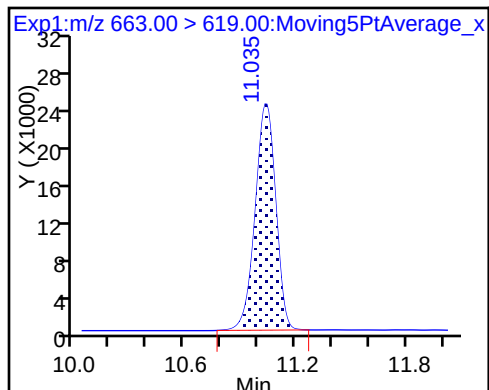
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

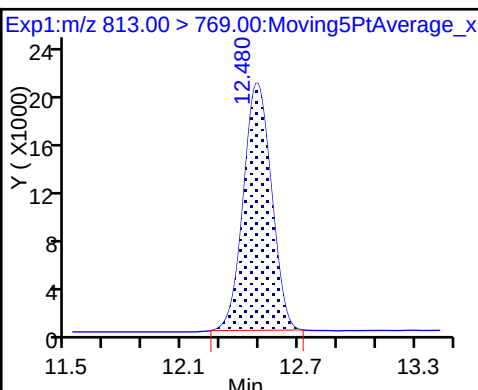
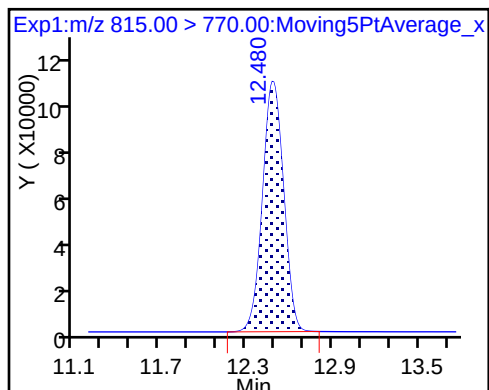
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_007.d
 Lims ID: STD L5
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 26-Oct-2017 16:13:10 ALS Bottle#: 7 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD L5
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub23
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:18:51 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.869	5.873	-0.004		4491905	0.0491		98.1	90171	
1 Perfluorobutyric acid										
212.90 > 169.00	5.869	5.876	-0.007	1.000	1953175	0.0174		86.9	63.3	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.516	6.513	0.003	1.000	1613953	0.0200		99.8	744	
D 4 13C5-PFPeA										
267.90 > 223.00	6.516	6.513	0.003		3750735	0.0493		98.6	25415	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.566	6.569	-0.003	1.000	2749620	0.0187		106	9251	
D 6 13C2 PFHxA										
315.00 > 270.00	7.015	7.019	-0.004		3056865	0.0489		97.7	49367	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.015	7.019	-0.004	1.000	1287171	0.0207		103	1501	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.545	7.552	-0.007	1.000	1763525	0.0184		101	8432	
D 10 18O2 PFHxS										
403.00 > 84.00	7.558	7.555	0.003		3892881	0.0475		100	36413	
D 11 13C4-PFHpA										
367.00 > 322.00	7.558	7.561	-0.003		2438123	0.0509		102	31918	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.558	7.561	-0.003	1.000	1031983	0.0204		102	1258	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.134	8.132	0.002	1.000	1749843	0.0203		107	12226	
D 14 13C4 PFOA										
417.00 > 372.00	8.143	8.150	-0.007		2081400	0.0495		98.9	33809	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.152	8.152	0.0	1.000	1012183	0.0212		106	2106	
413.00 > 169.00	8.152	8.152	0.0	1.000	980633		1.03(0.90-1.10)	106	6499	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.732	8.734	-0.002		3797512	0.0469		98.2	19386	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.732	8.738	-0.006	1.000	1695068	0.0190		102	3621	
499.00 > 99.00	8.732	8.738	-0.006	1.000	382098		4.44(0.90-1.10)	102	1577	
D 19 13C5 PFNA										
468.00 > 423.00	8.760	8.770	-0.010		1588125	0.0492		98.5	27040	
20 Perfluorononanoic acid										
463.00 > 419.00	8.770	8.771	-0.001	1.000	689497	0.0215		108	2321	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.263	9.262	0.001	1.000	3147048	0.0206		103	21413	
D 21 13C8 FOSA										
506.00 > 78.00	9.263	9.262	0.001		7569408	0.0596		119	46592	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.384	9.387	-0.003	1.000	564362	0.0206		103	3450	
D 23 13C2 PFDA										
515.00 > 470.00	9.384	9.387	-0.003		1343255	0.0511		102	27817	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.912	9.920	-0.008	1.000	1054394	0.0210		109	11091	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.968	9.971	-0.003	1.000	506187	0.0201		101	3922	
D 27 13C2 PFUnA										
565.00 > 520.00	9.968	9.971	-0.003		1165934	0.0516		103	18125	
D 30 13C2 PFDaA										
615.00 > 570.00	10.511	10.522	-0.011		1396080	0.0604		121	16639	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.522	10.523	-0.001	1.000	583414	0.0199		99.4	1338	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.034	11.037	-0.003	1.000	884299	0.0290		145	3502	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.528	11.531	-0.003		2779737	0.0940		188	13209	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.528	11.532	-0.004	1.000	1056732	0.0326		163	3941	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.471	12.482	-0.011		1458097	0.0444		88.8	6449	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.481	12.485	-0.004	1.000	571757	0.0151		75.6	1271	

Reagents:

LCPFC-LL-L5_00012

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_007.d

Injection Date: 26-Oct-2017 16:13:10

Instrument ID: A7_N

Lims ID: STD L5

Client ID:

Operator ID: abservice

ALS Bottle#: 7

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

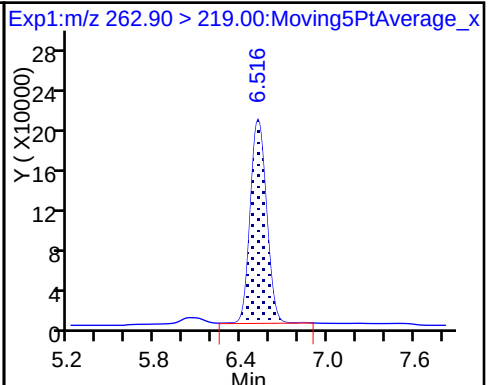
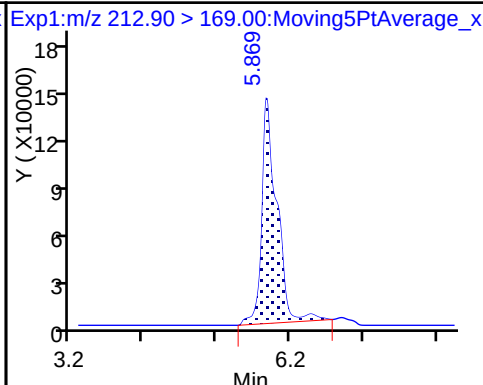
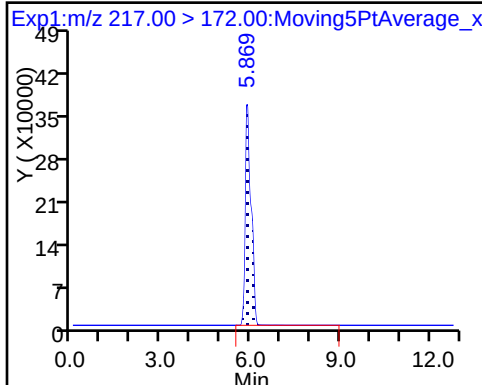
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

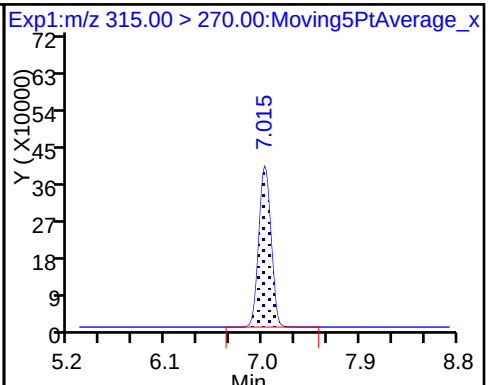
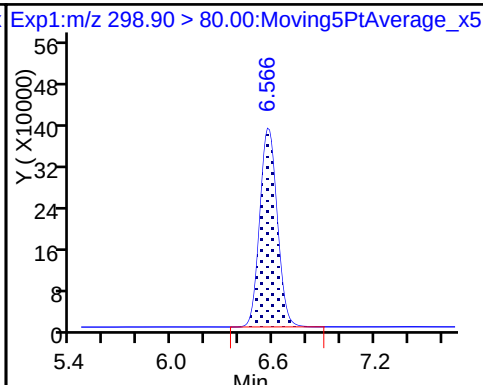
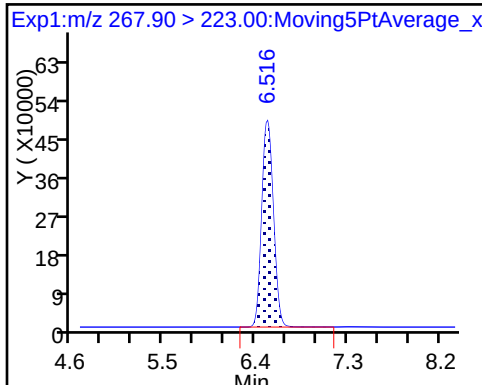
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

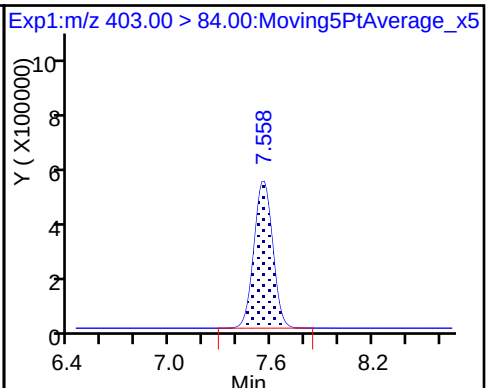
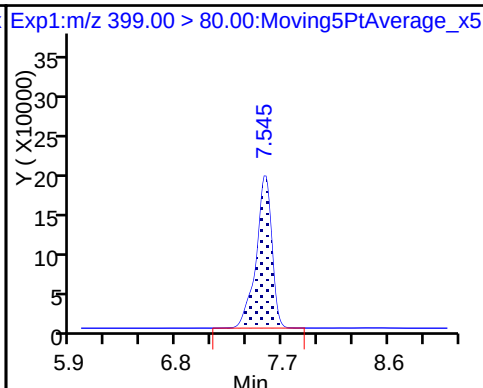
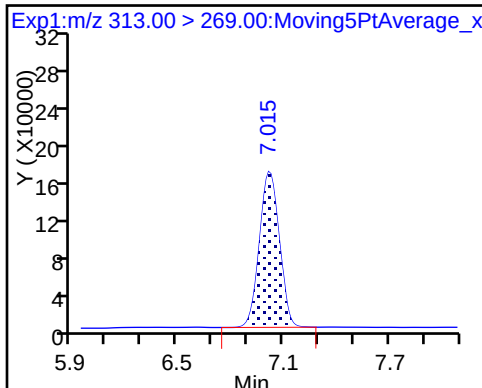
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

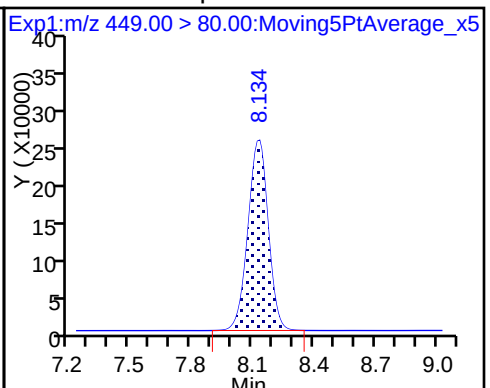
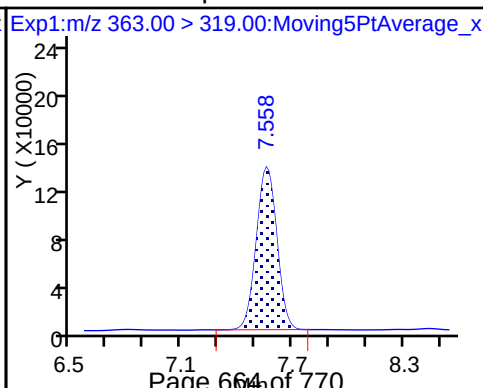
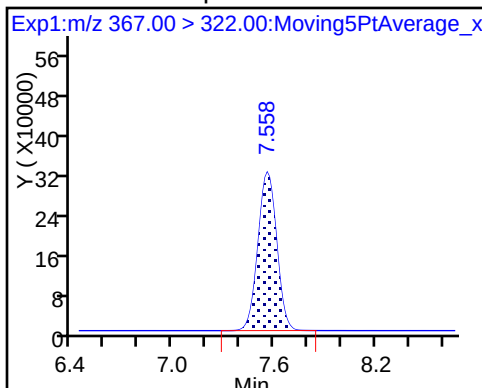
D 10 18O2 PFHxS



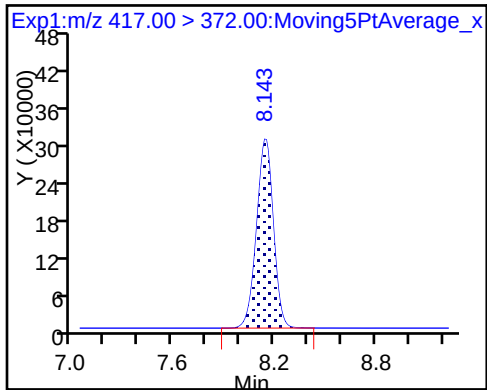
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

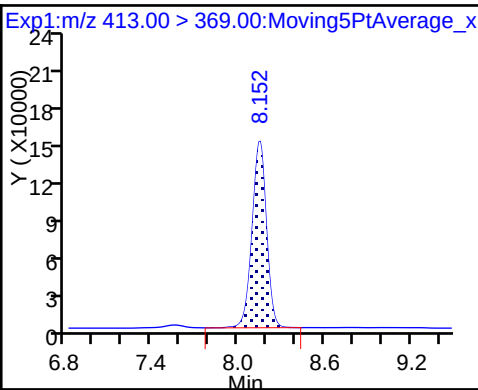
13 Perfluoroheptanesulfonic Acid



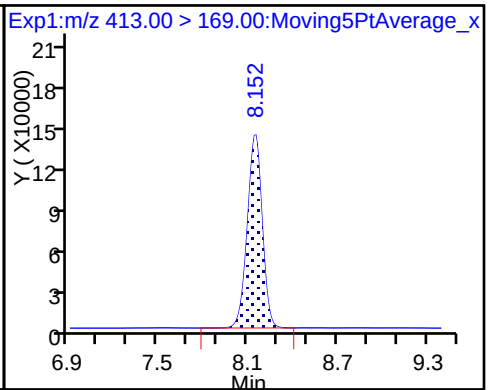
D 14 13C4 PFOA



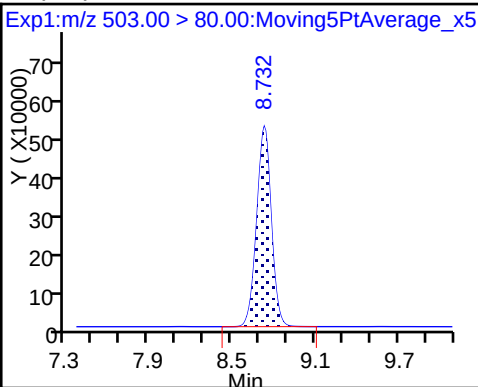
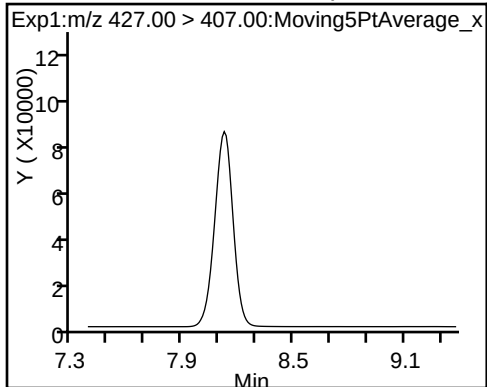
15 Perfluorooctanoic acid



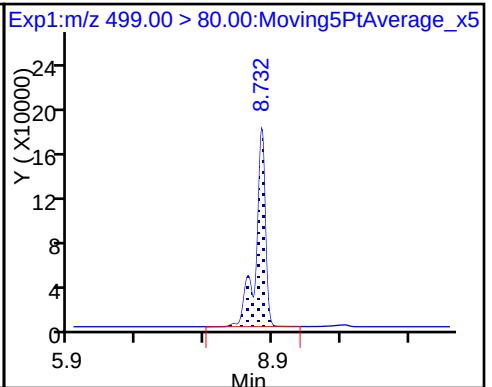
15 Perfluorooctanoic acid



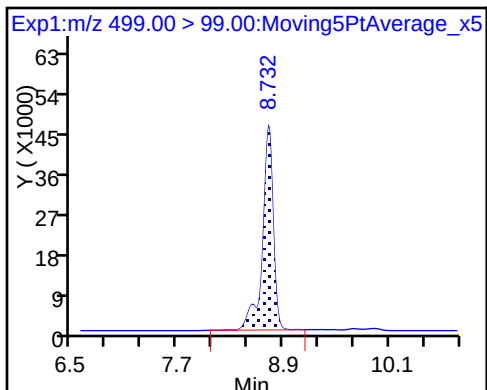
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)



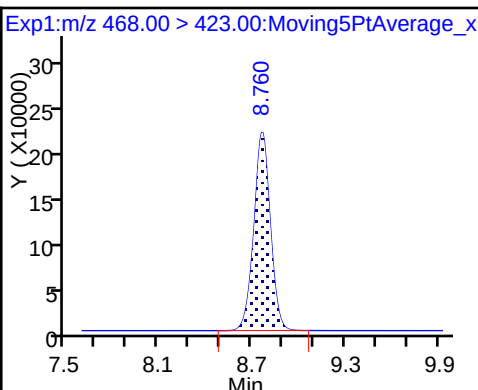
18 Perfluorooctane sulfonic acid



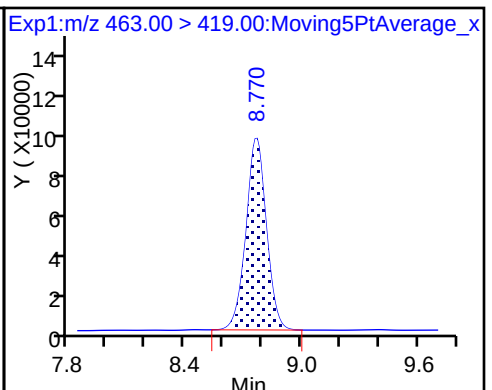
18 Perfluorooctane sulfonic acid



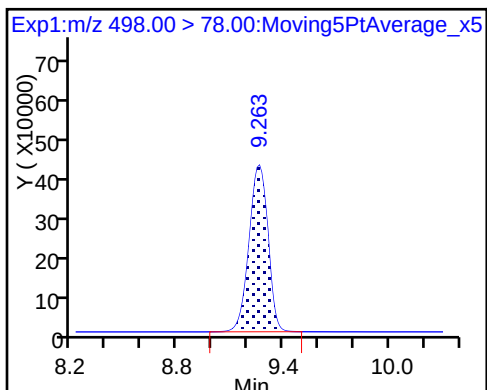
D 19 13C5 PFNA



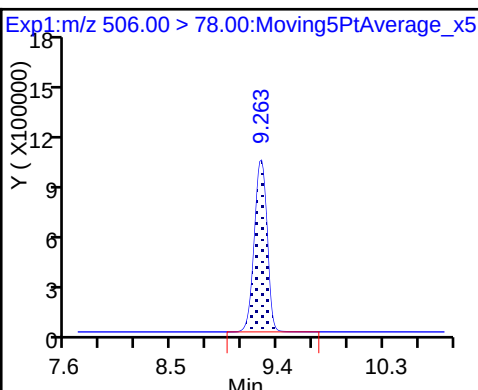
20 Perfluorononanoic acid



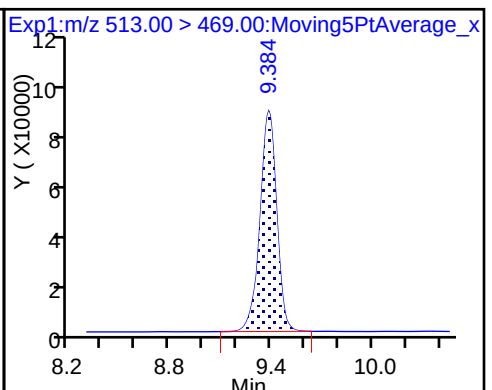
22 Perfluorooctane Sulfonamide



D 21 13C8 FOSA



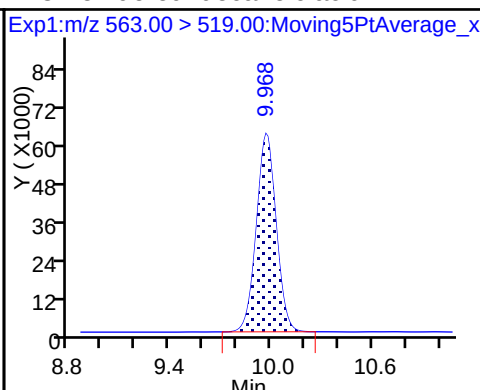
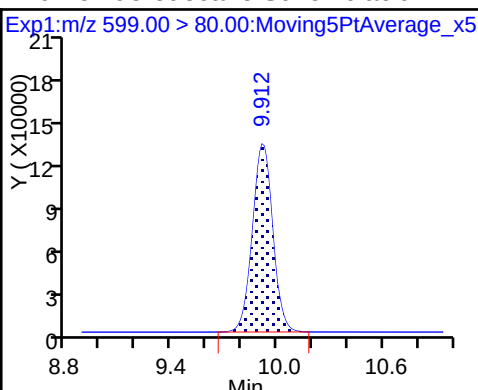
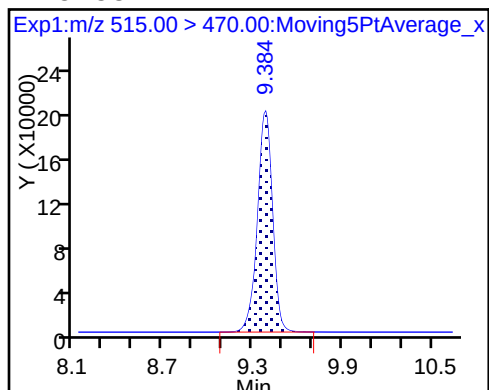
24 Perfluorodecanoic acid



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid

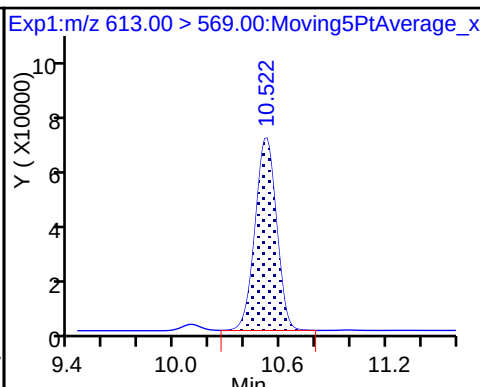
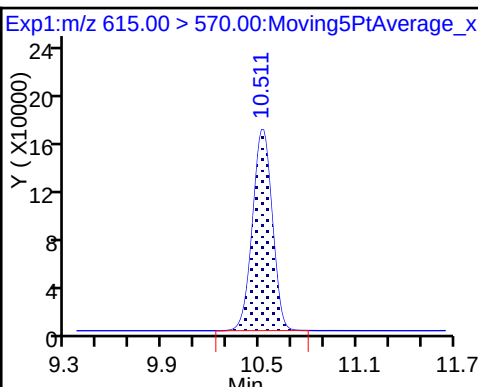
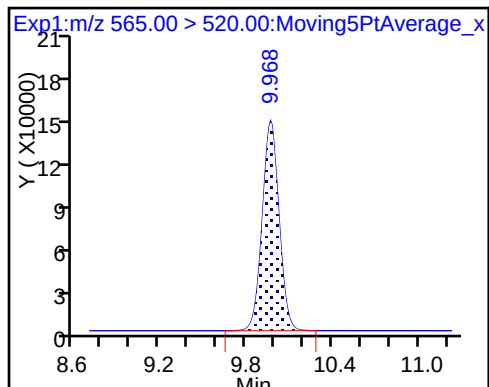
28 Perfluoroundecanoic acid



D 27 13C2 PFUnA

D 30 13C2 PFDaA

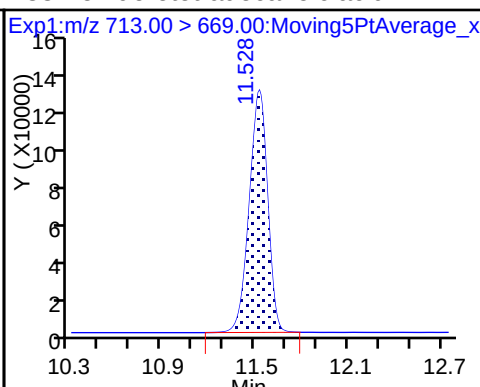
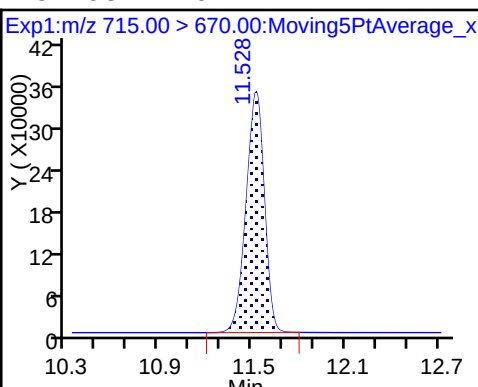
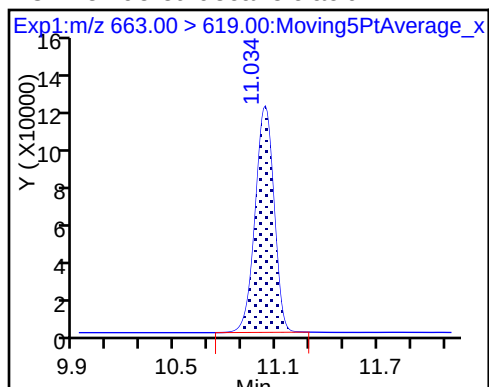
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

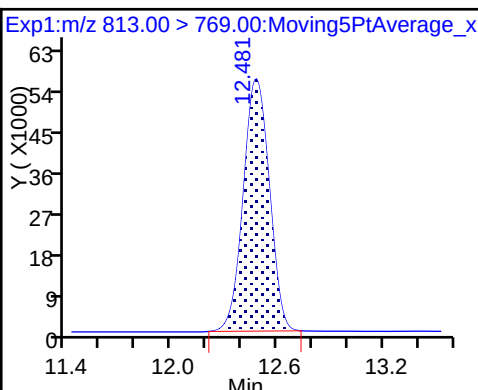
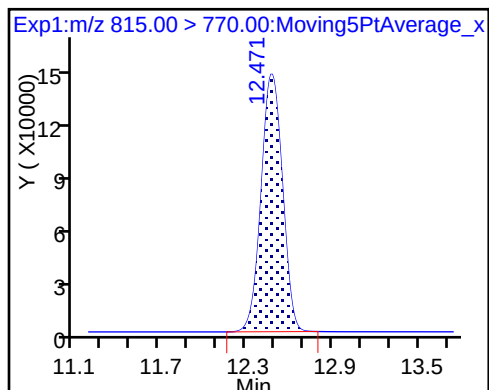
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_008.d
 Lims ID: STD L6
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 26-Oct-2017 16:31:35 ALS Bottle#: 8 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD L6
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub23
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:19:00 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.886	5.873	0.013		4467873	0.0488		97.6	89605	
1 Perfluorobutyric acid										
212.90 > 169.00	5.894	5.876	0.018	1.000	4089324	0.0366		73.2	129	
D 4 13C5-PFPeA										
267.90 > 223.00	6.525	6.513	0.012		3704218	0.0487		97.3	43982	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.525	6.513	0.012	1.000	3880810	0.0486		97.2	2953	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.576	6.569	0.007	1.000	6505156	0.0461		104	24352	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.028	7.019	0.009	1.000	2957665	0.0482		96.4	9105	
D 6 13C2 PFHxA										
315.00 > 270.00	7.028	7.019	0.009		3013253	0.0482		96.3	48770	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.558	7.552	0.006	1.000	4067504	0.0444		97.5	20542	
D 10 18O2 PFHxS										
403.00 > 84.00	7.558	7.555	0.003		3731632	0.0456		96.3	38121	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.570	7.561	0.009	1.000	2455798	0.0508		102	8046	
D 11 13C4-PFHpA										
367.00 > 322.00	7.570	7.561	0.009		2332080	0.0486		97.3	30498	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.134	8.132	0.002	1.000	4157182	0.0496		104	27842	
D 14 13C4 PFOA										
417.00 > 372.00	8.152	8.150	0.002		2047848	0.0487		97.4	37670	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.152	8.152	0.0	1.000	2310972	0.0491		98.2	10351	
413.00 > 169.00	8.152	8.152	0.0	1.000	2263515		1.02(0.90-1.10)	98.2	22220	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.731	8.734	-0.003		3694436	0.0457		95.6	18911	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.741	8.738	0.003	1.000	3966643	0.0457		98.4	8169	
499.00 > 99.00	8.731	8.738	-0.007	0.999	885700		4.48(0.90-1.10)	98.4	5906	
D 19 13C5 PFNA										
468.00 > 423.00	8.769	8.770	-0.001		1532535	0.0475		95.0	26234	
20 Perfluorononanoic acid										
463.00 > 419.00	8.769	8.771	-0.002	1.000	1609254	0.0521		104	9590	
D 21 13C8 FOSA										
506.00 > 78.00	9.262	9.262	0.0		6353984	0.0500		100	37689	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.262	9.262	0.0	1.000	6417742	0.0500		99.9	31283	
D 23 13C2 PFDA										
515.00 > 470.00	9.384	9.387	-0.003		1290228	0.0490		98.1	31491	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.384	9.387	-0.003	1.000	1365133	0.0518		104	14364	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.912	9.920	-0.008	1.000	2377931	0.0487		101	20038	
D 27 13C2 PFUnA										
565.00 > 520.00	9.967	9.971	-0.004		1119175	0.0496		99.1	17385	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.967	9.971	-0.004	1.000	1176538	0.0487		97.5	10445	
D 30 13C2 PFDaA										
615.00 > 570.00	10.522	10.522	0.0		1156597	0.0500		100	15373	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.522	10.523	-0.001	1.000	1207607	0.0497		99.3	3635	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.034	11.037	-0.003	1.000	1269688	0.0502		100	6364	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.522	11.531	-0.009		1468105	0.0496		99.2	10713	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.522	11.532	-0.010	1.000	1338633	0.0498		99.6	5503	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.473	12.482	-0.009		1072511	0.0327		65.3	5305	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.473	12.485	-0.012	1.000	1027254	0.0333		66.7	2315	

Reagents:

LCPFC-LL-L6_00012

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_008.d

Injection Date: 26-Oct-2017 16:31:35

Instrument ID: A7_N

Lims ID: STD L6

Client ID:

Operator ID: abservice

ALS Bottle#: 8

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

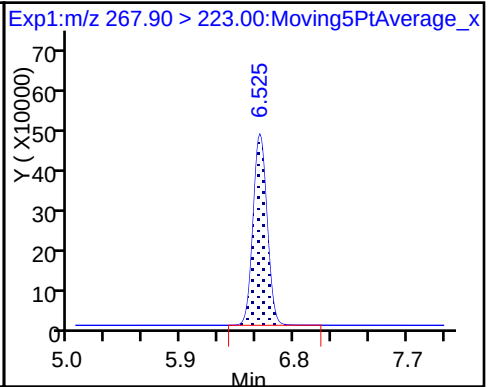
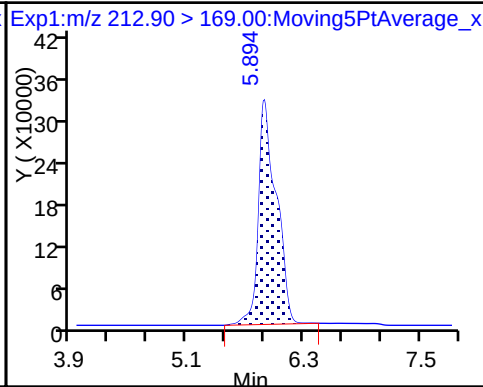
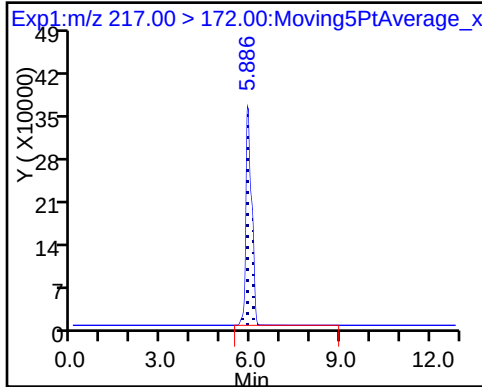
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

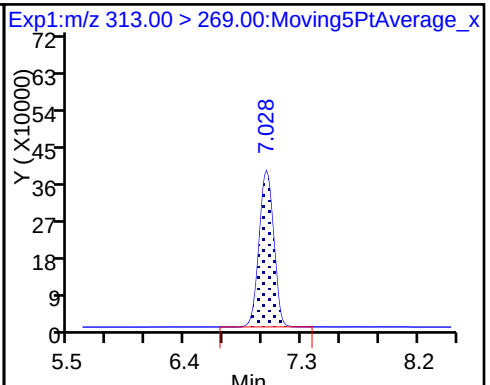
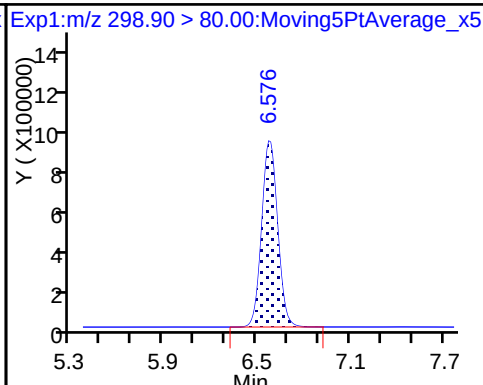
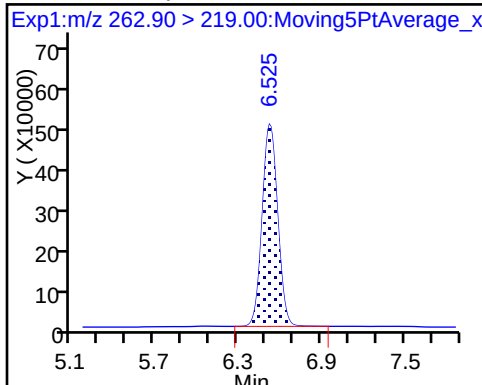
D 4 13C5-PFPeA



3 Perfluoropentanoic acid

5 Perfluorobutanesulfonic acid

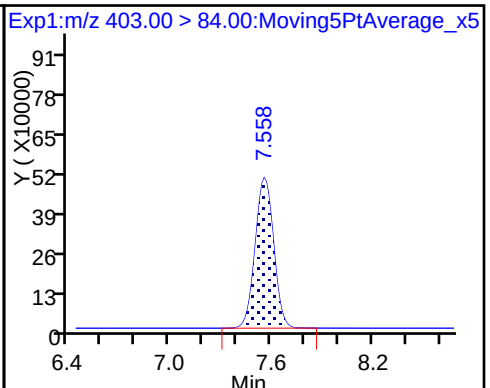
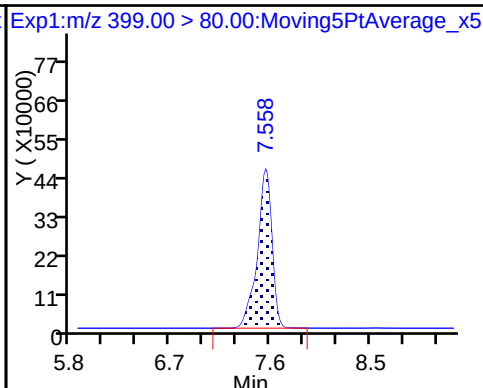
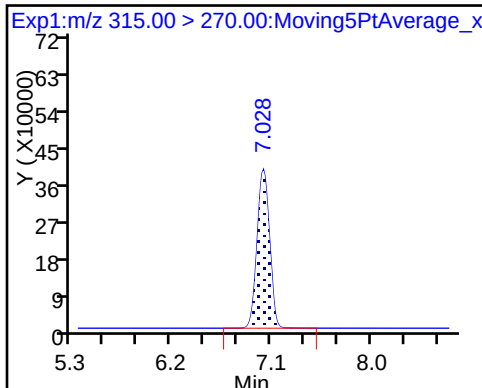
7 Perfluorohexanoic acid



D 6 13C2 PFHxA

9 Perfluorohexanesulfonic acid

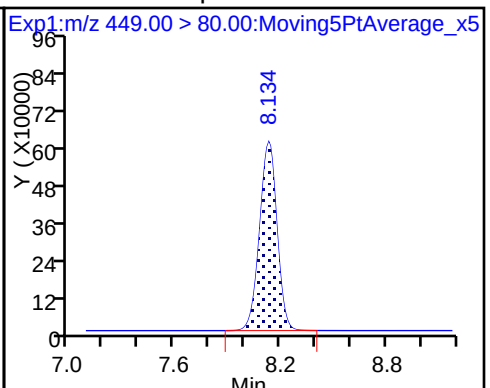
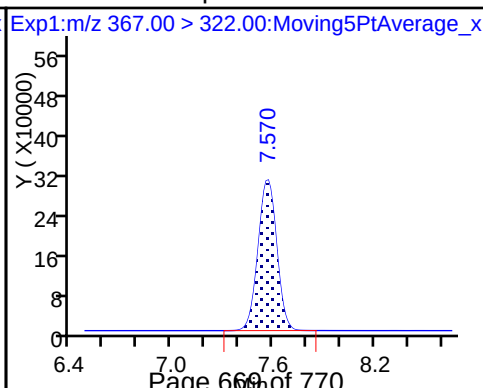
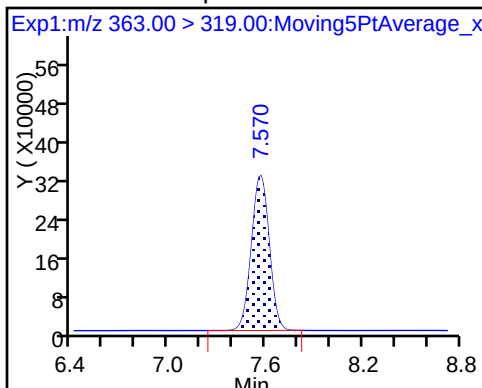
D 10 18O2 PFHxS



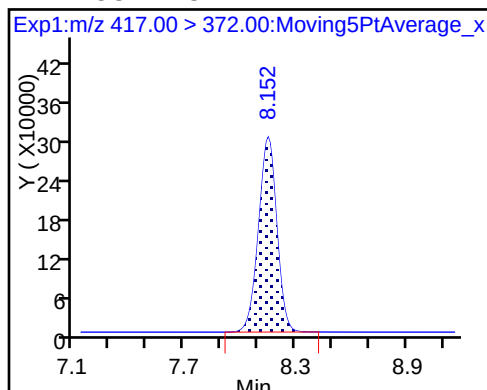
12 Perfluoroheptanoic acid

D 11 13C4-PFHpA

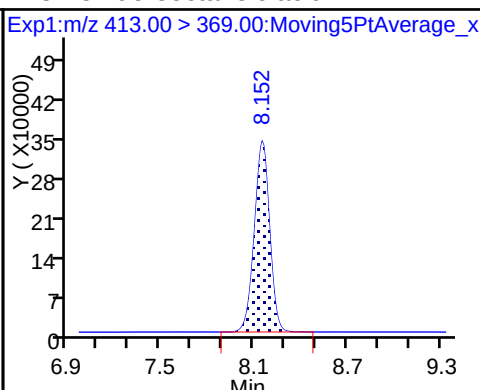
13 Perfluoroheptanesulfonic Acid



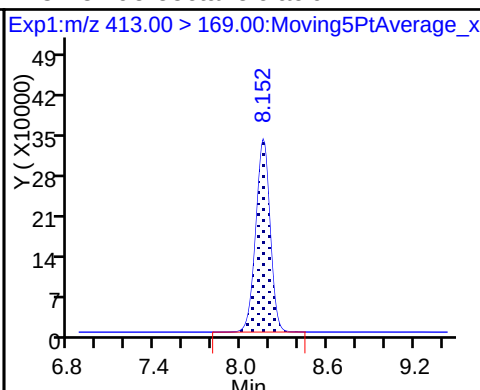
D 14 13C4 PFOA



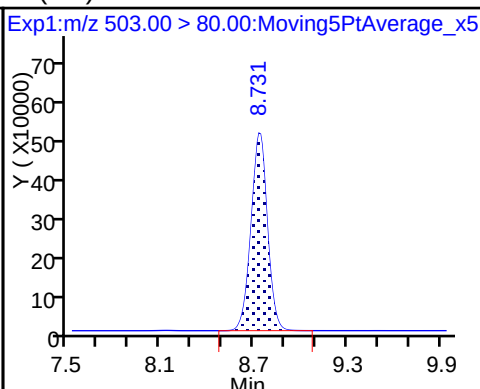
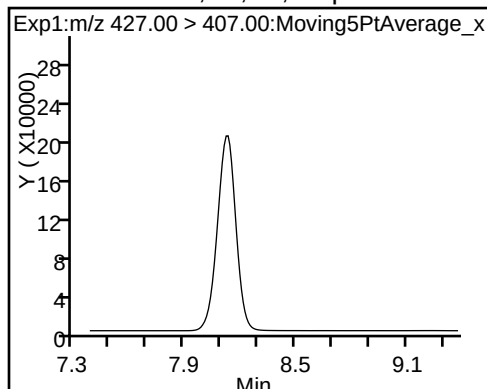
15 Perfluorooctanoic acid



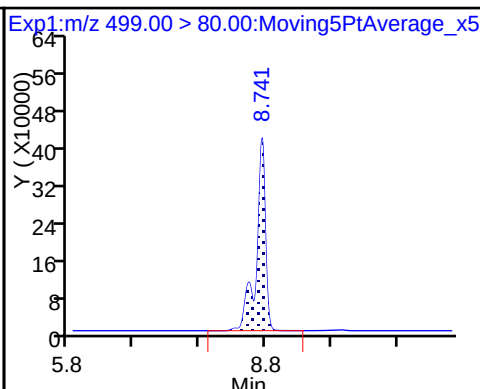
15 Perfluorooctanoic acid



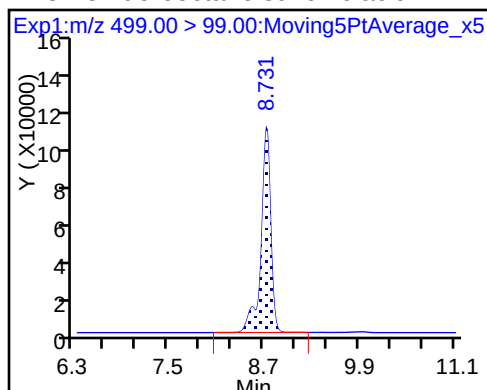
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)



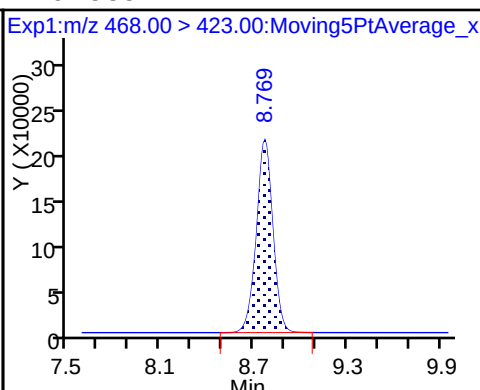
18 Perfluorooctane sulfonic acid



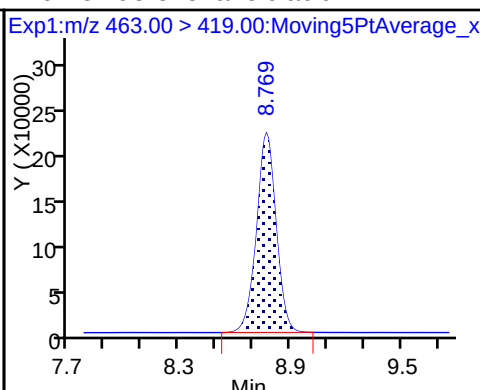
18 Perfluorooctane sulfonic acid



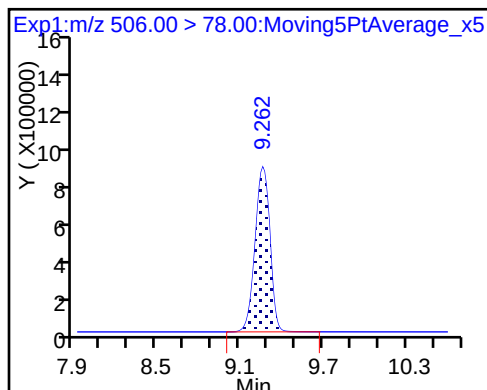
D 19 13C5 PFNA



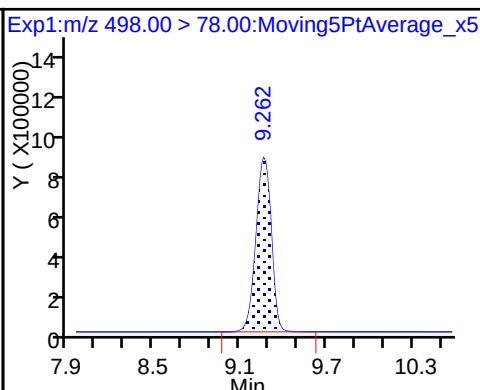
20 Perfluorononanoic acid



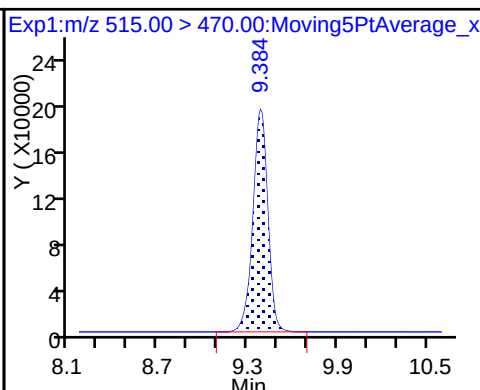
D 21 13C8 FOSA



22 Perfluorooctane Sulfonamide



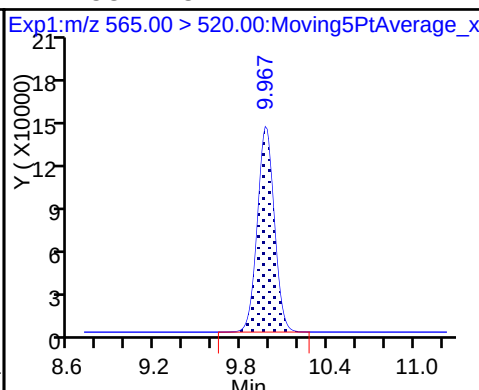
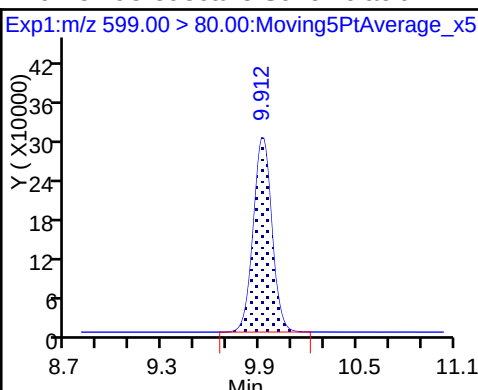
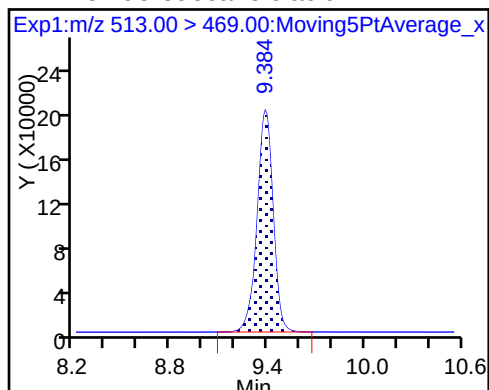
D 23 13C2 PFDA



24 Perfluorodecanoic acid

26 Perfluorodecane Sulfonic acid

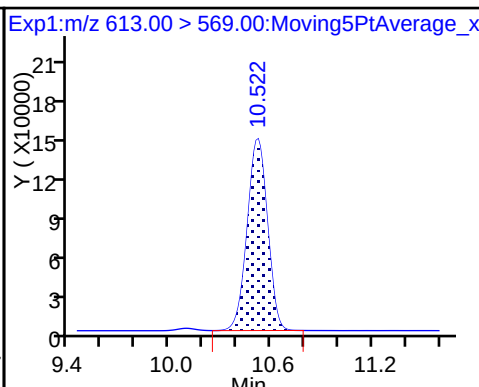
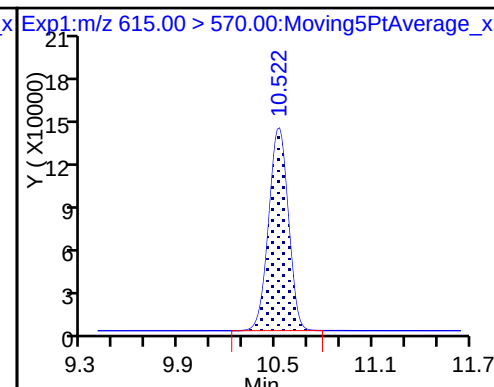
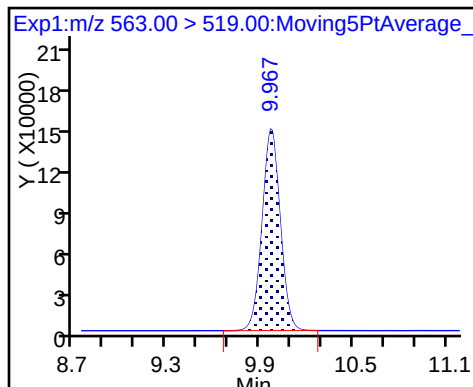
D 27 13C2 PFUnA



28 Perfluoroundecanoic acid

D 30 13C2 PFDaA

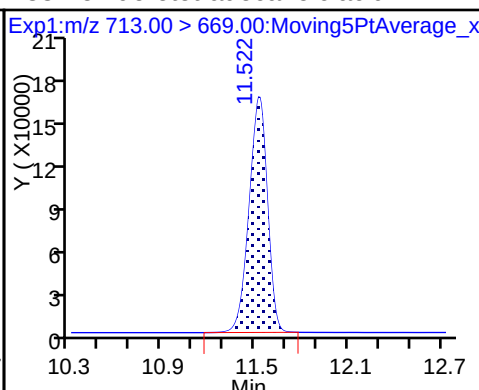
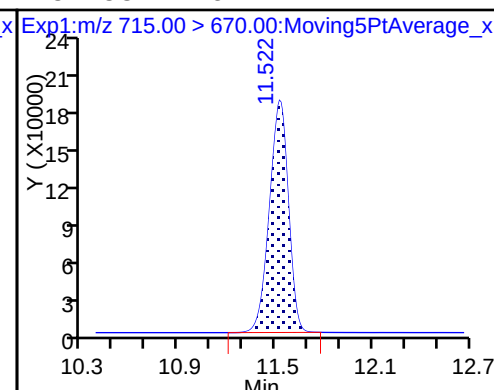
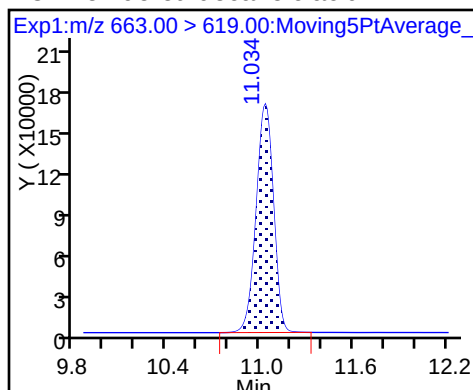
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

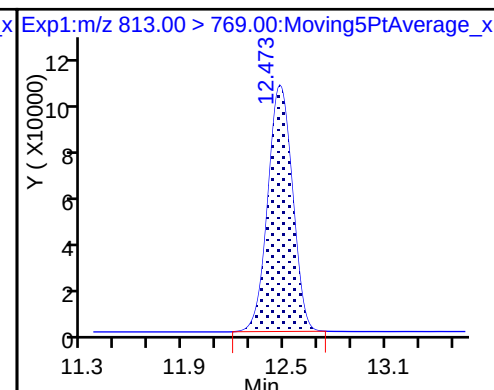
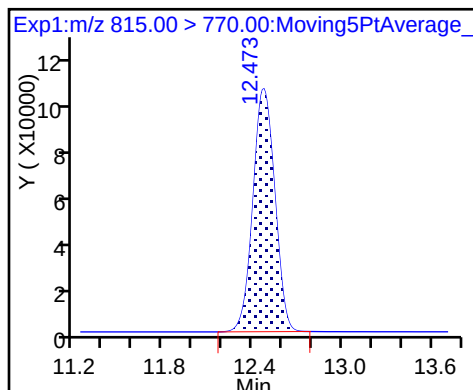
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_009.d
 Lims ID: STD L7
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 26-Oct-2017 16:49:57 ALS Bottle#: 9 Worklist Smp#: 10
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD L7
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub23
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:19:08 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.868	5.873	-0.005		4646437	0.0507		101	89157	
1 Perfluorobutyric acid										
212.90 > 169.00	5.868	5.876	-0.008	1.000	8432811	0.0726		72.6	308	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.515	6.513	0.002	1.000	7959556	0.0981		98.1	5989	
D 4 13C5-PFPeA										
267.90 > 223.00	6.515	6.513	0.002		3763105	0.0494		98.9	48385	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.566	6.569	-0.003	1.000	13386467	0.0899		102	42873	
D 6 13C2 PFHxA										
315.00 > 270.00	7.015	7.019	-0.004		3114663	0.0498		99.6	50304	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.015	7.019	-0.004	1.000	6183087	0.0975		97.5	18504	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.545	7.552	-0.007	1.000	8757589	0.0905		99.5	38794	
D 10 18O2 PFHxS										
403.00 > 84.00	7.545	7.555	-0.010		3937969	0.0481		102	46738	
D 11 13C4-PFHpA										
367.00 > 322.00	7.557	7.561	-0.004		2437679	0.0508		102	28976	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.557	7.561	-0.004	1.000	5021627	0.0995		99.5	14903	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.123	8.132	-0.009	1.000	8655412	0.0979		103	39318	
D 14 13C4 PFOA										
417.00 > 372.00	8.142	8.150	-0.008		2047455	0.0487		97.3	37216	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.142	8.152	-0.010	1.000	4596988	0.0977		97.7	16591	
413.00 > 169.00	8.142	8.152	-0.010	1.000	4599460		1.00(0.90-1.10)	97.7	35082	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.731	8.734	-0.003		3901147	0.0482		101	14846	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.731	8.738	-0.007	1.000	8463557	0.0923		99.4	16466	
499.00 > 99.00	8.731	8.738	-0.007	1.000	1890689		4.48(0.90-1.10)	99.4	10321	
D 19 13C5 PFNA										
468.00 > 423.00	8.760	8.770	-0.010		1615272	0.0501		100	27535	
20 Perfluorononanoic acid										
463.00 > 419.00	8.760	8.771	-0.011	1.000	3365853	0.1034		103	17175	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.262	9.262	0.0	1.000	14501197	0.1008		101	43413	
D 21 13C8 FOSA										
506.00 > 78.00	9.262	9.262	0.0		7119363	0.0560		112	33192	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.376	9.387	-0.011	1.000	2735067	0.1011		101	24787	
D 23 13C2 PFDA										
515.00 > 470.00	9.376	9.387	-0.011		1325995	0.0504		101	32041	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.912	9.920	-0.008	1.000	5254479	0.1019		106	34932	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.968	9.971	-0.003	1.000	2492877	0.0999		99.9	19394	
D 27 13C2 PFUnA										
565.00 > 520.00	9.968	9.971	-0.003		1157415	0.0512		102	20490	
D 30 13C2 PFDaA										
615.00 > 570.00	10.510	10.522	-0.012		1282832	0.0555		111	16992	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.510	10.523	-0.013	1.000	2713410	0.1006		101	6607	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.025	11.037	-0.012	1.000	3027271	0.1080		108	12711	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.519	11.531	-0.012		1922743	0.0650		130	11196	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.519	11.532	-0.013	1.000	3559699	0.1194		119	9671	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.463	12.482	-0.019		1752410	0.0534		107	7583	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.463	12.485	-0.022	1.000	3338556	0.0985		98.5	5435	

Reagents:

LCPFC-LL-L7_00009

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_009.d

Injection Date: 26-Oct-2017 16:49:57

Instrument ID: A7_N

Lims ID: STD L7

Client ID:

Operator ID: abservice

ALS Bottle#: 9

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

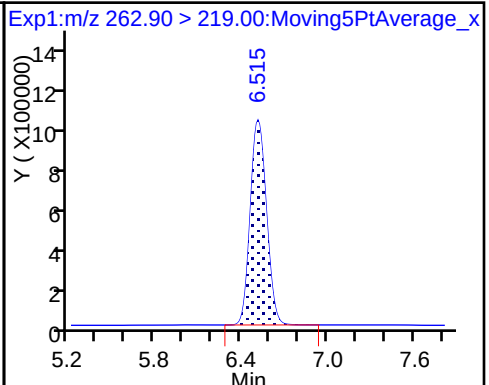
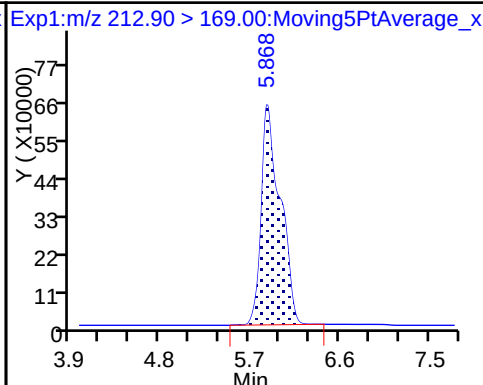
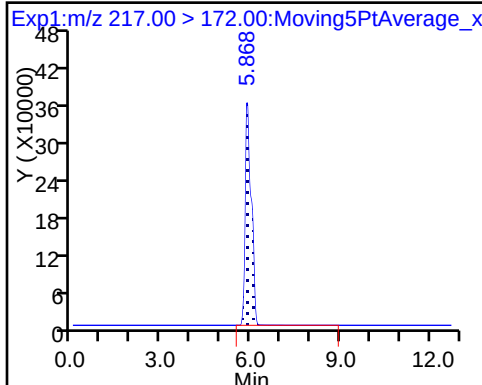
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

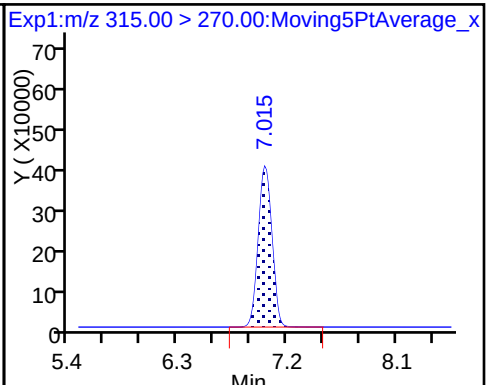
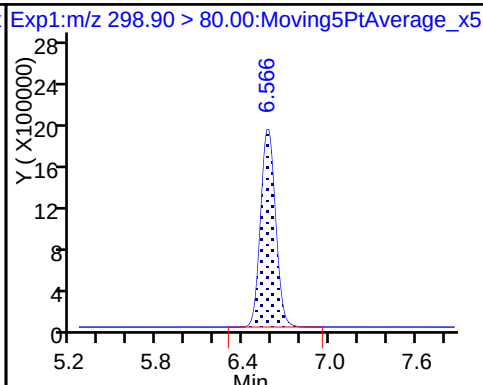
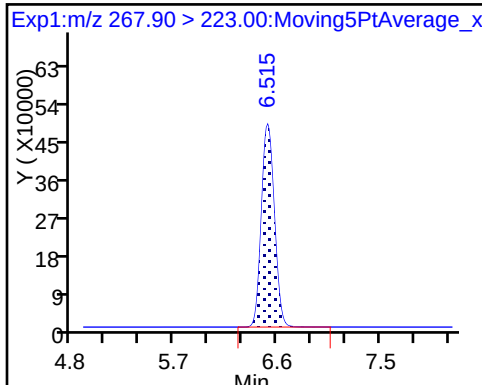
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

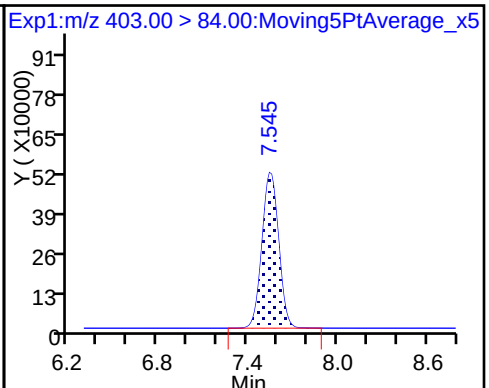
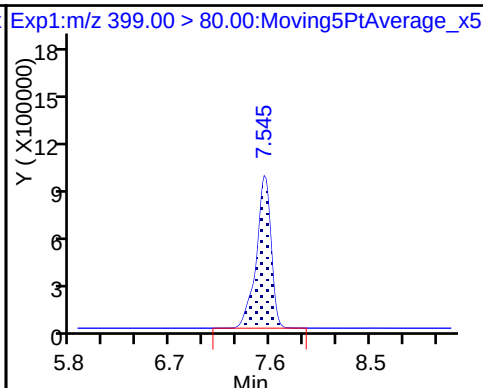
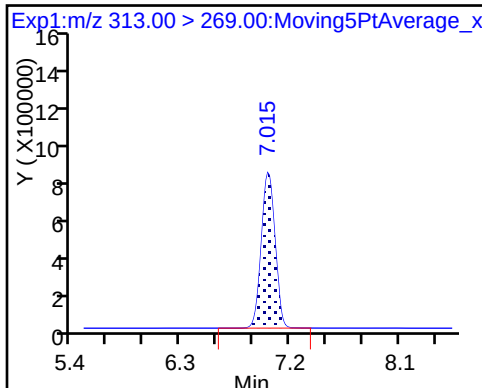
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

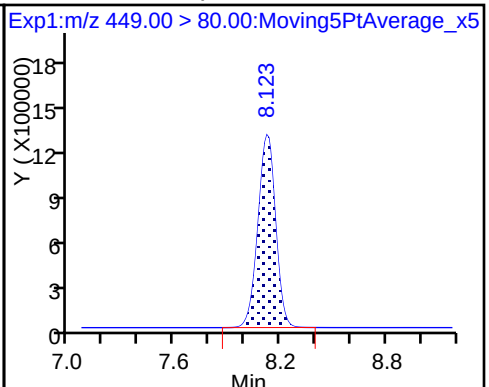
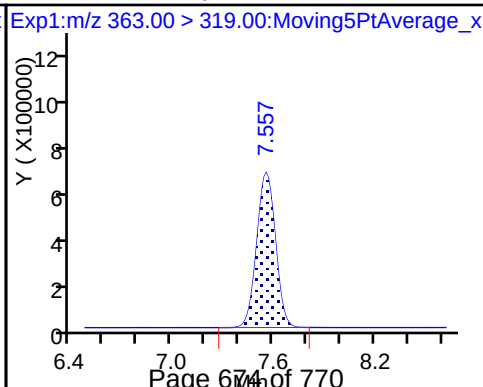
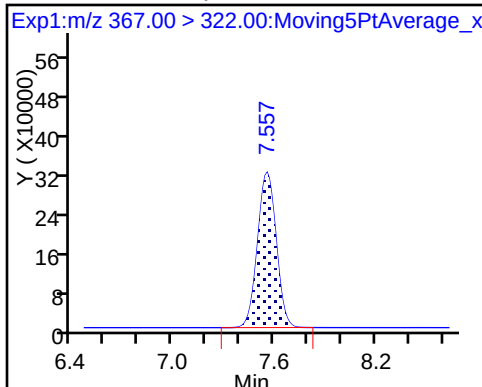
D 10 18O2 PFHxS



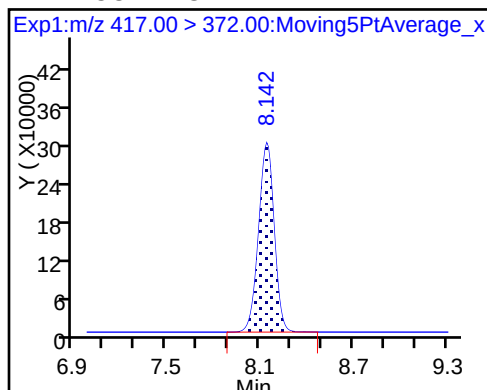
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

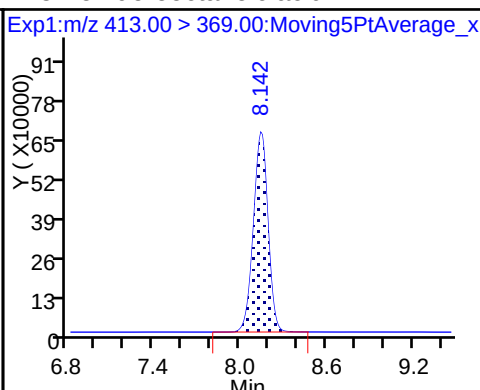
13 Perfluoroheptanesulfonic Acid



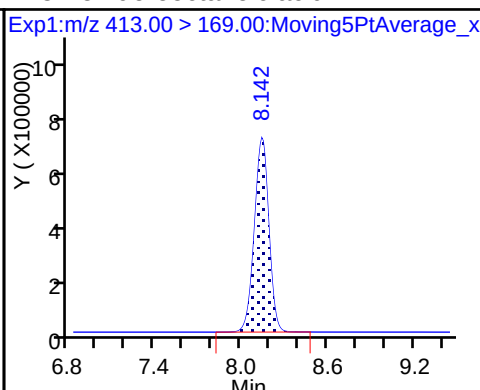
D 14 13C4 PFOA



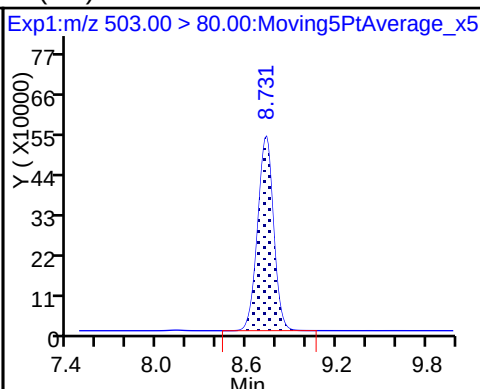
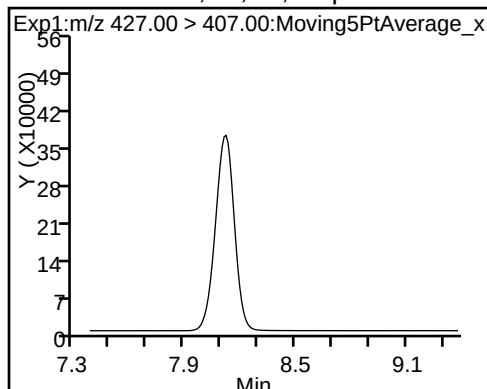
15 Perfluorooctanoic acid



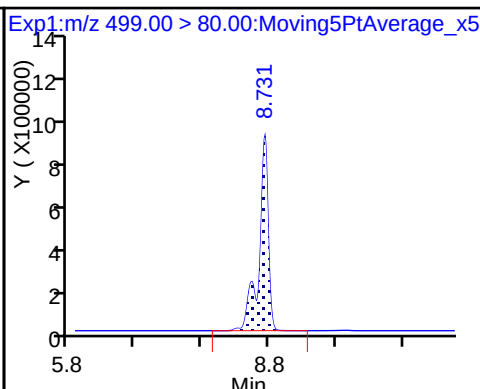
15 Perfluorooctanoic acid



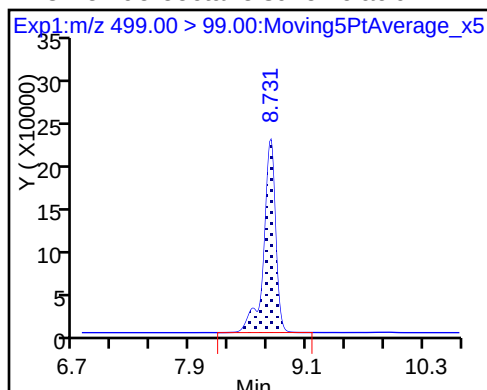
48 Sodium 1H,1H,2H,2H-perfluorooctane sulfonate (PFOS)



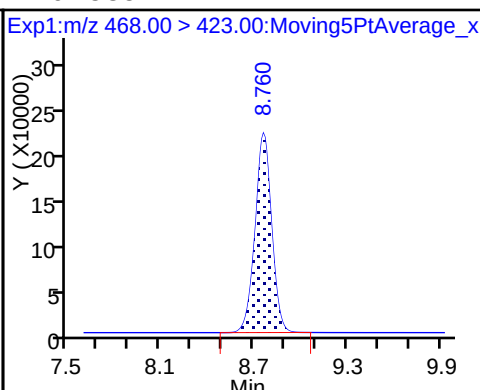
18 Perfluorooctane sulfonic acid



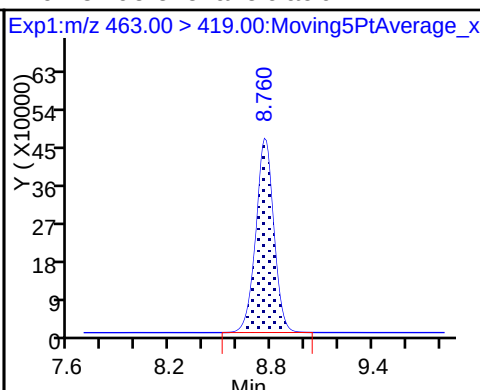
18 Perfluorooctane sulfonic acid



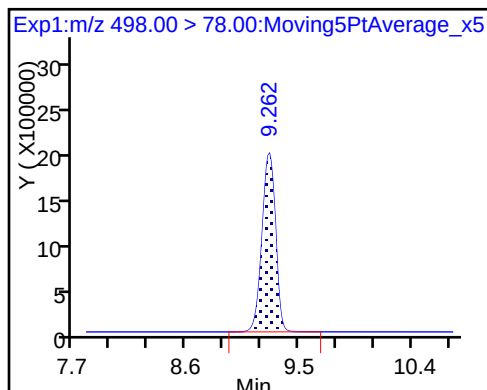
D 19 13C5 PFNA



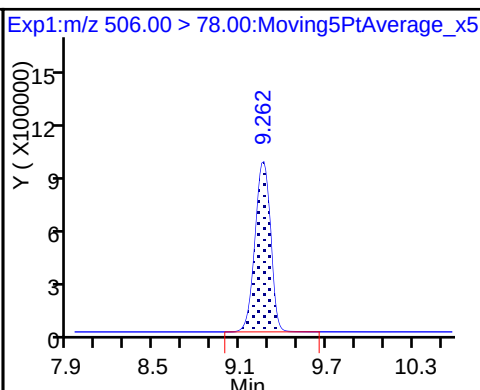
20 Perfluorononanoic acid



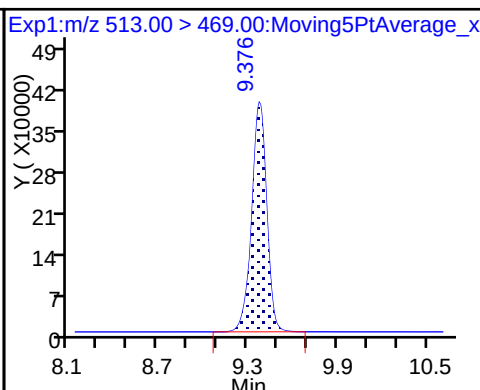
22 Perfluorooctane Sulfonamide



D 21 13C8 FOSA



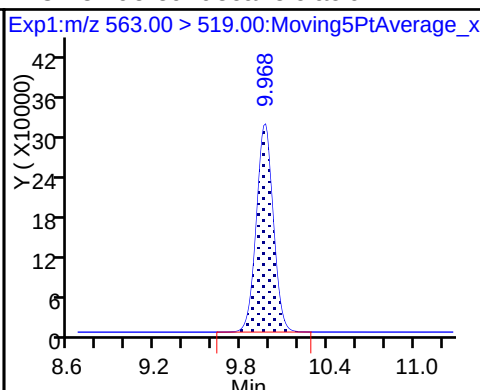
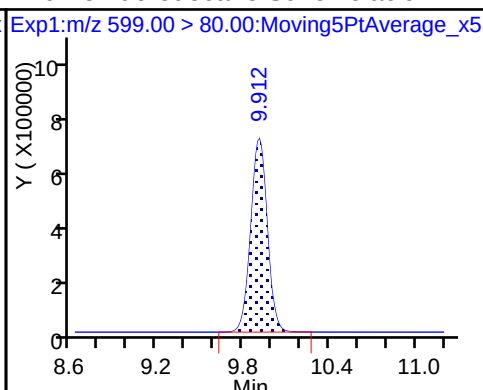
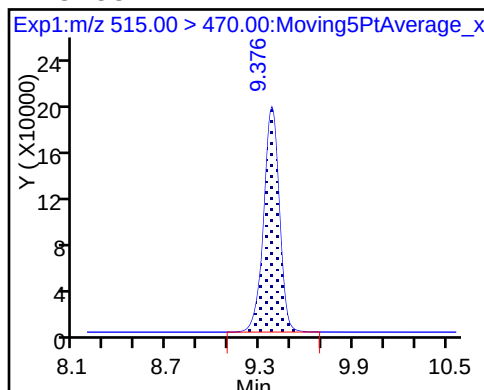
24 Perfluorodecanoic acid



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid

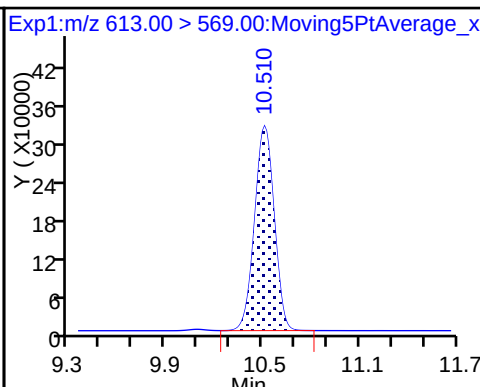
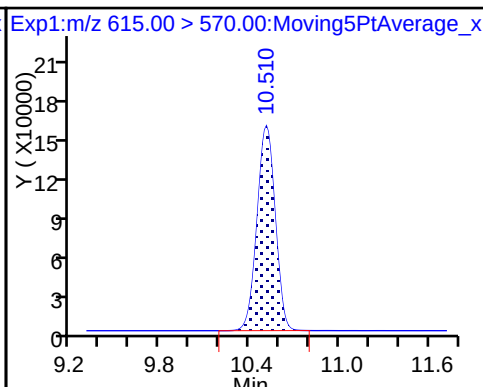
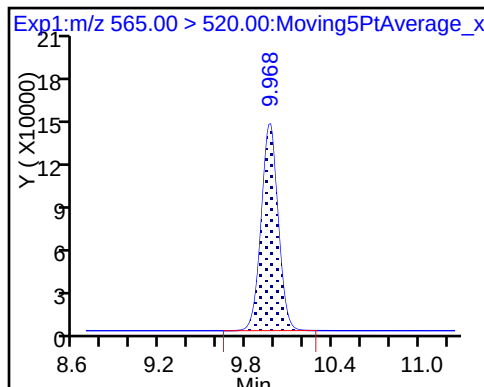
28 Perfluoroundecanoic acid



D 27 13C2 PFUnA

D 30 13C2 PFDaA

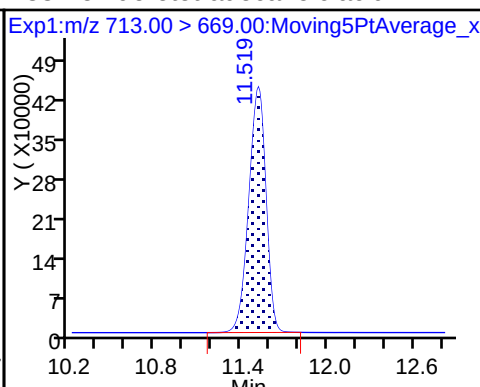
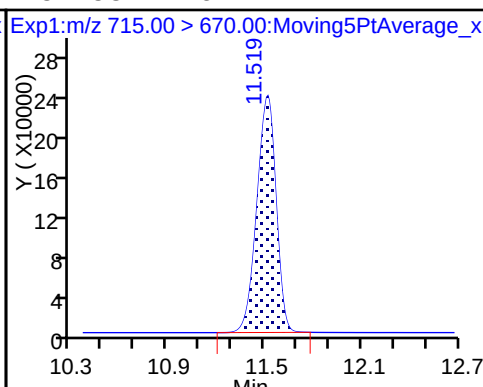
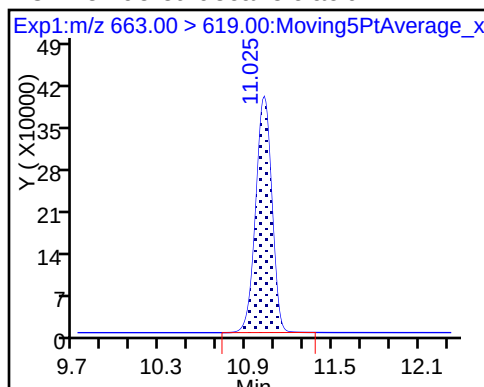
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

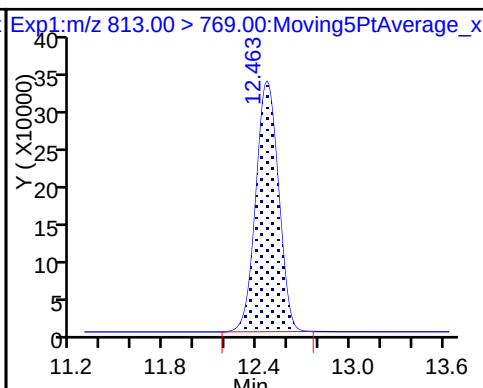
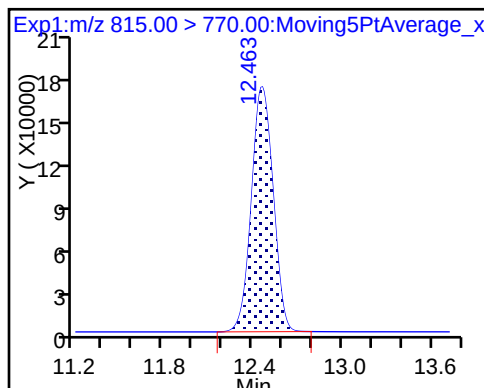
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d
 Lims ID: STD L8
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 26-Oct-2017 17:08:18 ALS Bottle#: 10 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: STD L8
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub23
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:19:16 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.870	5.873	-0.003		4525215	0.0494		98.8	91302	
1 Perfluorobutyric acid										
212.90 > 169.00	5.870	5.876	-0.006	1.000	16423726	0.1451		72.6	548	
D 4 13C5-PFPeA										
267.90 > 223.00	6.506	6.513	-0.007		3625275	0.0476		95.3	47122	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.506	6.513	-0.007	1.000	14960326	0.1914		95.7	11282	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.567	6.569	-0.002	1.000	23938516	0.1698		96.0	63325	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.016	7.019	-0.003	1.000	11776220	0.1902		95.1	30748	
D 6 13C2 PFHxA										
315.00 > 270.00	7.016	7.019	-0.003		3040832	0.0486		97.2	43548	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.546	7.552	-0.006	1.000	16248121	0.1774		97.5	50438	
D 10 18O2 PFHxS										
403.00 > 84.00	7.546	7.555	-0.009		3728099	0.0455		96.2	37524	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.546	7.561	-0.015	1.000	9516183	0.2078		104	23157	
D 11 13C4-PFHpA										
367.00 > 322.00	7.546	7.561	-0.015		2211262	0.0461		92.2	28552	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.124	8.132	-0.008	1.000	16328157	0.1909		100	60047	
D 14 13C4 PFOA										
417.00 > 372.00	8.144	8.150	-0.006		1937177	0.0460		92.1	30909	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.144	8.152	-0.008	1.000	8571148	0.1926		96.3	27368	
413.00 > 169.00	8.144	8.152	-0.008	1.000	8516254		1.01(0.90-1.10)	96.3	47267	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.723	8.734	-0.011		3771884	0.0466		97.6	9643	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.723	8.738	-0.015	1.000	16181300	0.1825		98.3	25888	
499.00 > 99.00	8.723	8.738	-0.015	1.000	3674279		4.40(0.90-1.10)	98.3	20071	
D 19 13C5 PFNA										
468.00 > 423.00	8.762	8.770	-0.008		1538406	0.0477		95.4	26228	
20 Perfluorononanoic acid										
463.00 > 419.00	8.762	8.771	-0.009	1.000	6250979	0.2017		101	30337	
D 21 13C8 FOSA										
506.00 > 78.00	9.254	9.262	-0.008		6230384	0.0490		98.1	42405	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.254	9.262	-0.008	1.000	23773792	0.1888		94.4	48197	
D 23 13C2 PFDA										
515.00 > 470.00	9.375	9.387	-0.012		1240006	0.0471		94.3	22665	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.375	9.387	-0.012	1.000	5196400	0.2053		103	37749	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.911	9.920	-0.009	1.000	9960495	0.1999		104	43266	
D 27 13C2 PFUnA										
565.00 > 520.00	9.957	9.971	-0.014		1058310	0.0469		93.7	21813	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.957	9.971	-0.014	1.000	4500483	0.1972		98.6	27849	
D 30 13C2 PFDaA										
615.00 > 570.00	10.509	10.522	-0.013		1155146	0.0500		100.0	15046	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.509	10.523	-0.014	1.000	4861002	0.2002		100	12162	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.021	11.037	-0.016	1.000	4773356	0.1891		94.5	16868	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.515	11.531	-0.016		1553321	0.0525		105	10502	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.515	11.532	-0.017	1.000	5711156	0.2127		106	12342	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.455	12.482	-0.027		3467640	0.1056		211	10684	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.455	12.485	-0.030	1.000	13035084	0.4288		214	11164	

Reagents:

LCPFC-LL-L8_00009

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Injection Date: 26-Oct-2017 17:08:18

Instrument ID: A7_N

Lims ID: STD L8

Client ID:

Operator ID: abservice

ALS Bottle#: 10

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

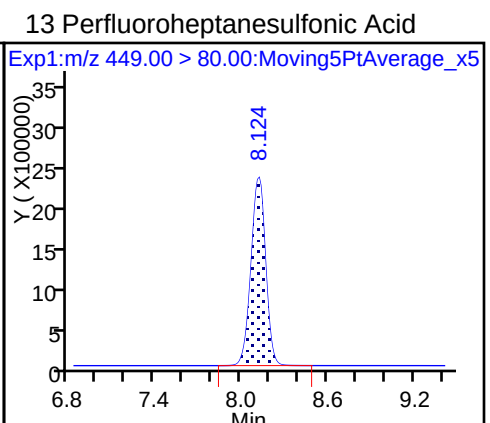
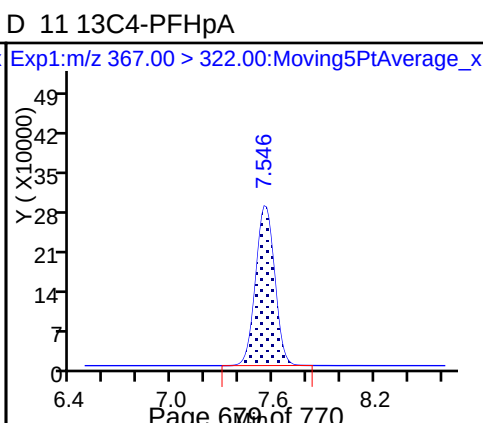
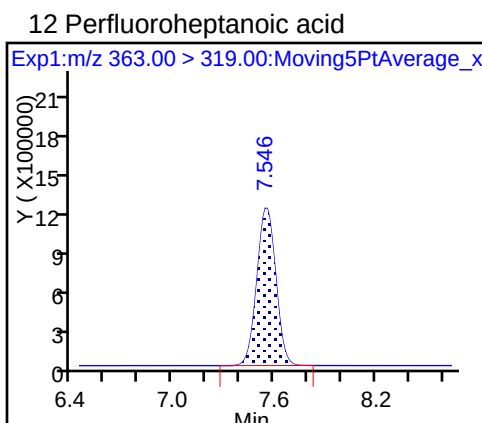
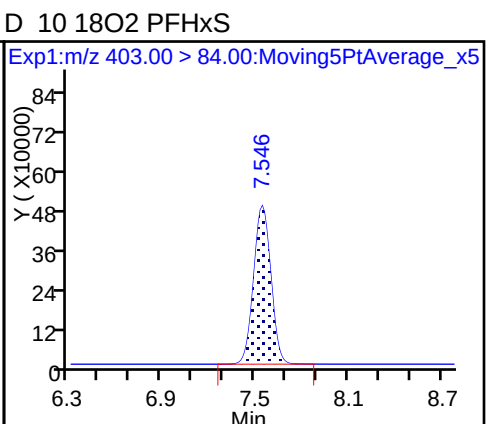
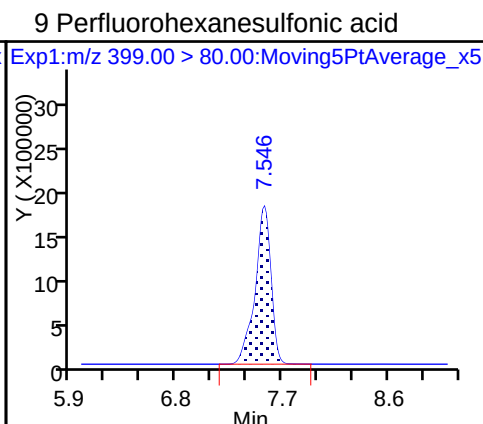
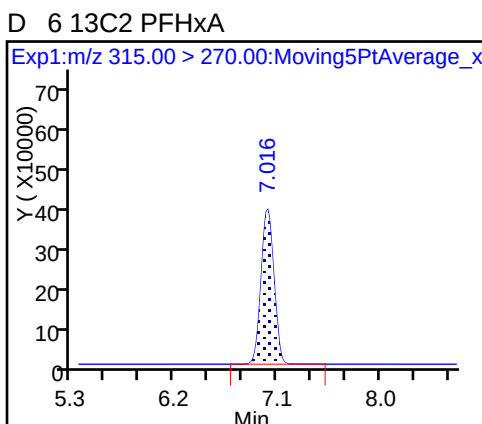
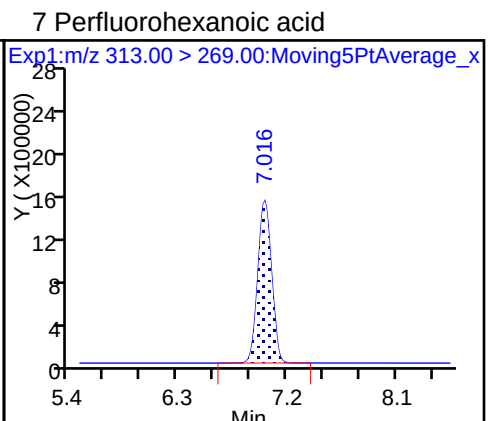
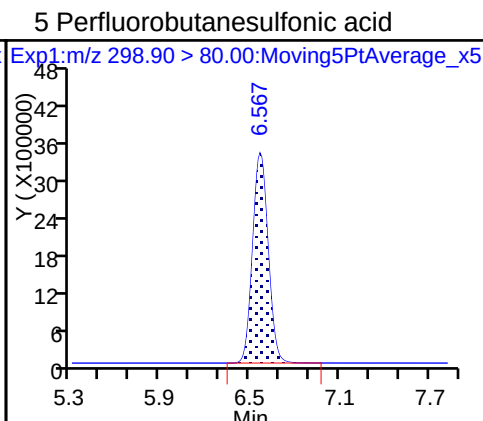
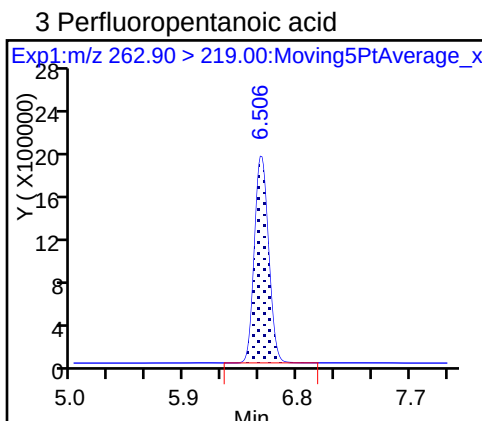
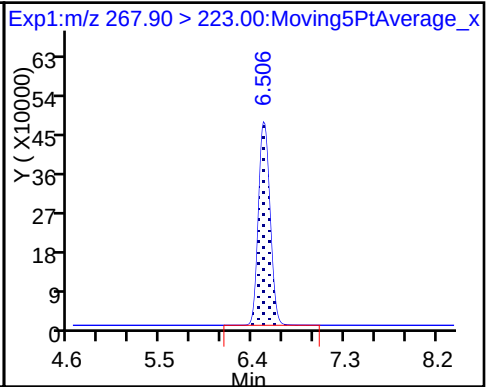
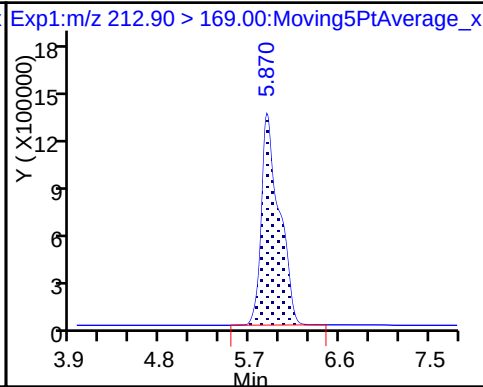
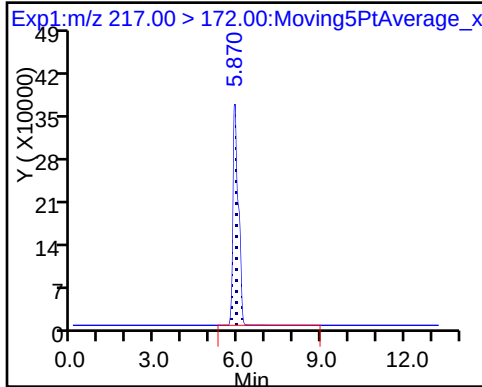
Method: A7_N

Limit Group: LC PFAS ICAL

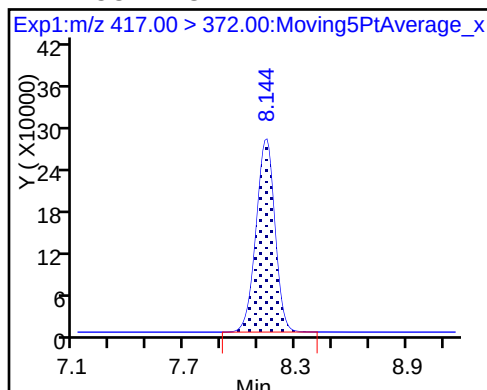
D 2 13C4 PFBA

1 Perfluorobutyric acid

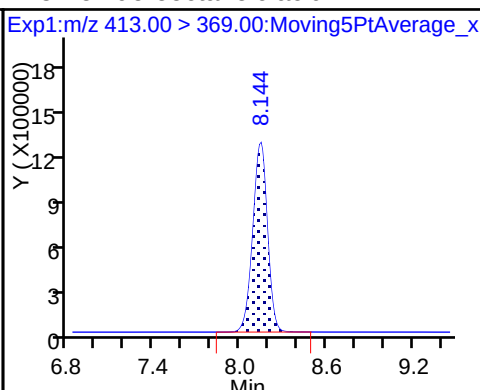
D 4 13C5-PFPeA



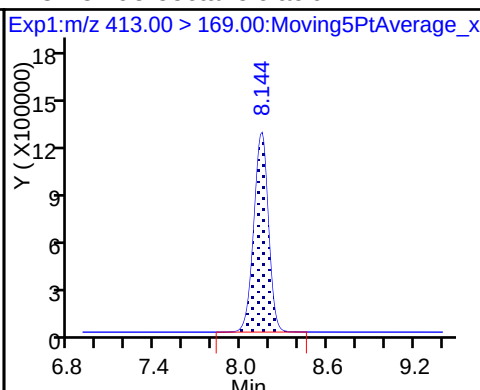
D 14 13C4 PFOA



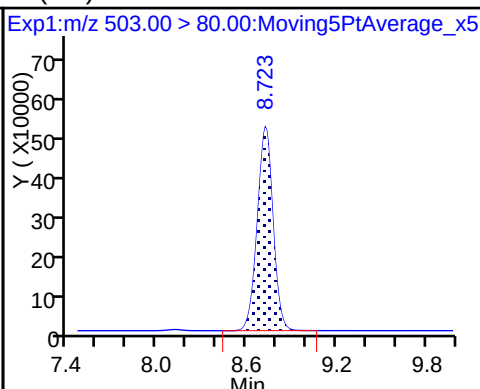
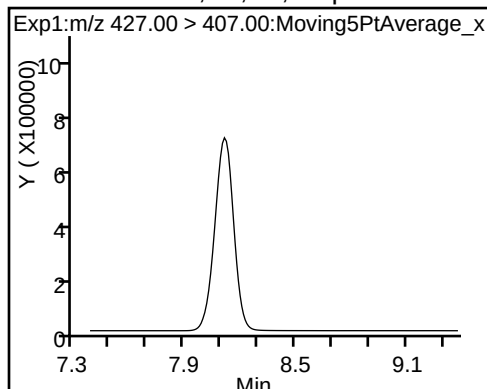
15 Perfluorooctanoic acid



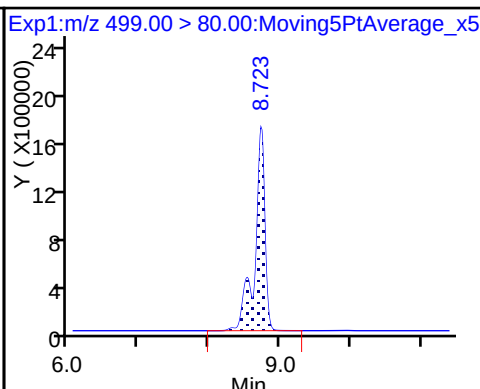
15 Perfluorooctanoic acid



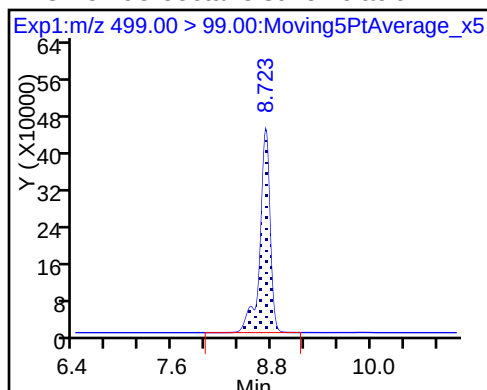
48 Sodium 1H,1H,2H,2H-perfluorooctane sulfonate (PFOS)



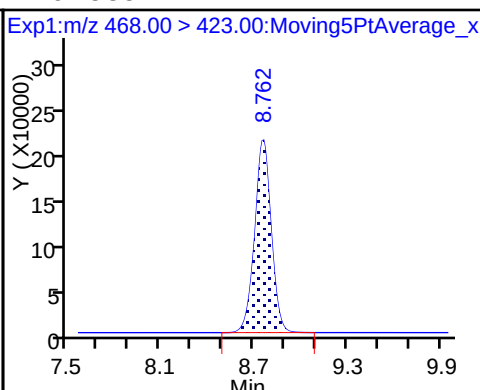
18 Perfluorooctane sulfonic acid



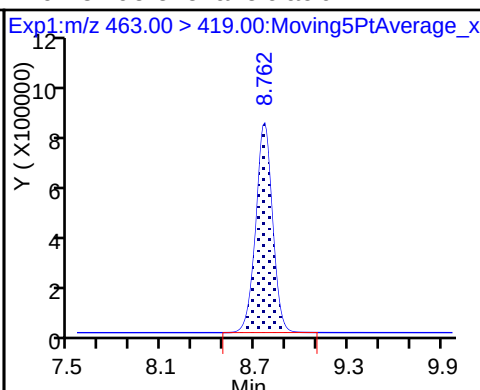
18 Perfluorooctane sulfonic acid



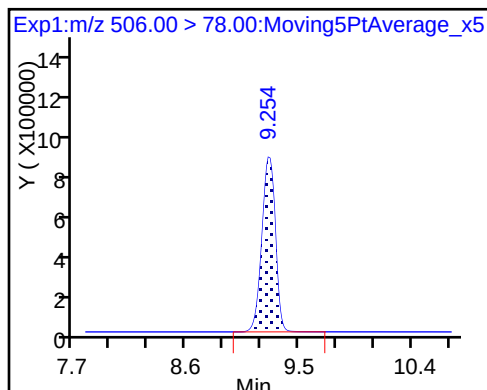
D 19 13C5 PFNA



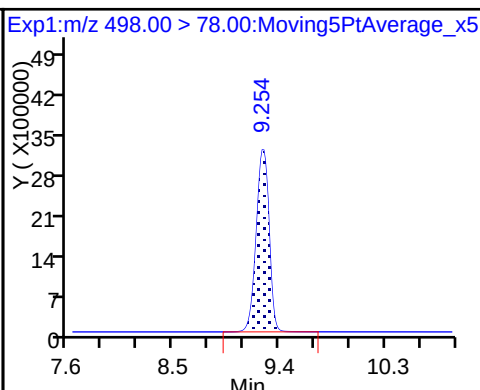
20 Perfluorononanoic acid



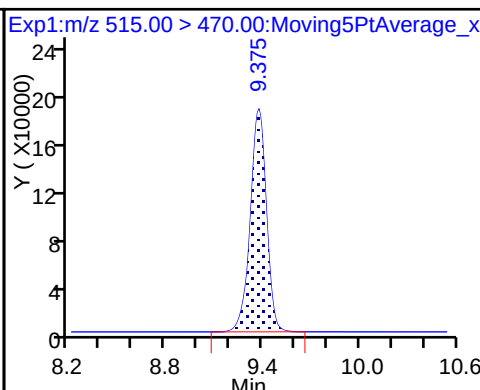
D 21 13C8 FOSA



22 Perfluorooctane Sulfonamide



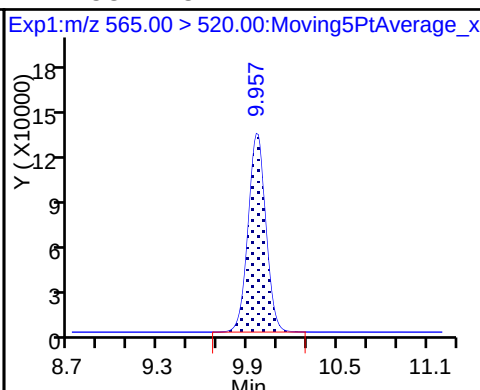
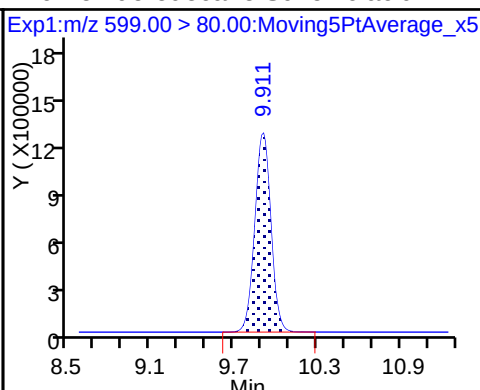
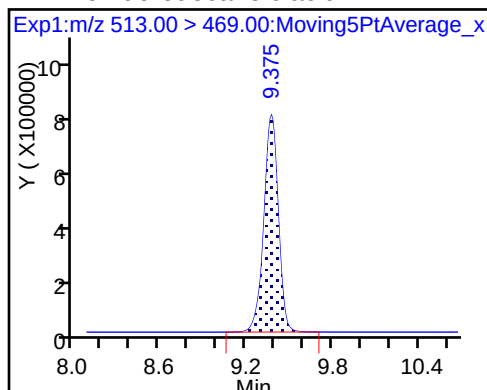
D 23 13C2 PFDA



24 Perfluorodecanoic acid

26 Perfluorodecane Sulfonic acid

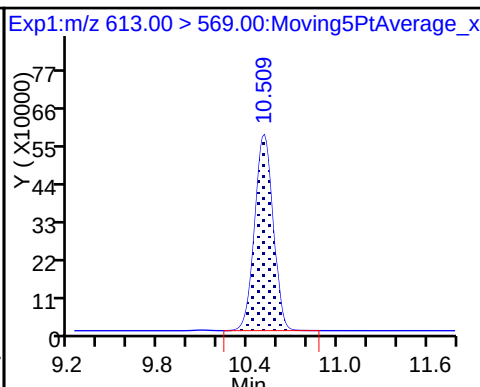
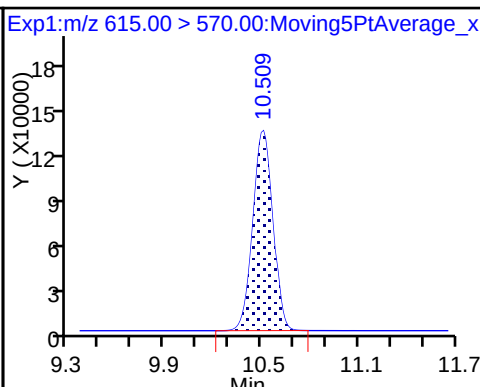
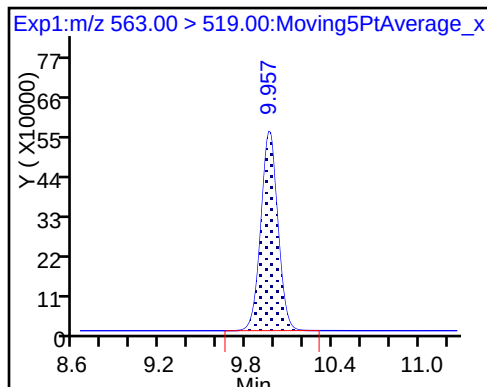
D 27 13C2 PFUnA



28 Perfluoroundecanoic acid

D 30 13C2 PFDaA

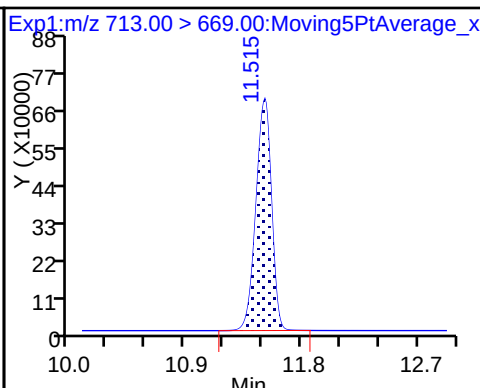
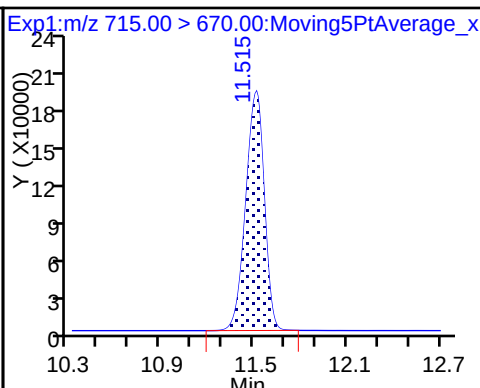
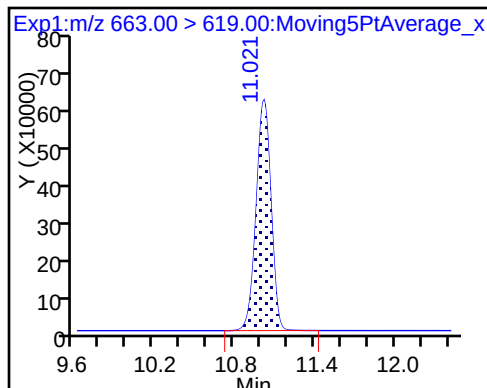
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

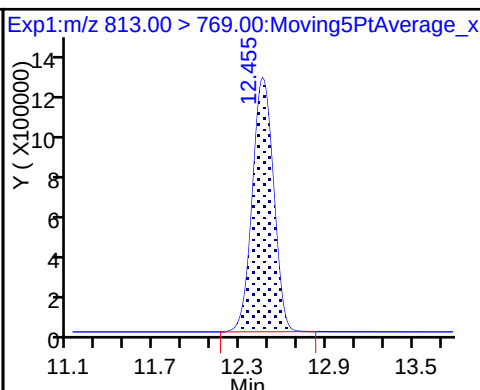
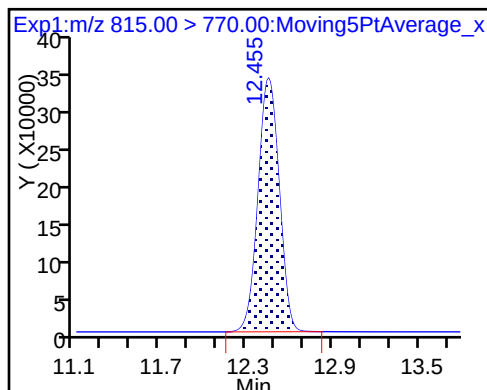
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Lab Sample ID: ICV 320-191314/13 Calibration Date: 10/26/2017 17:45

Instrument ID: A7_N Calib Start Date: 10/26/2017 14:59

GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 10/26/2017 17:08

Lab File ID: 2017.10.26A_ICAL_012.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.250	0.8897		35.6	50.0	-28.8	40.0
Perfluoropentanoic acid (PFPA)	AveID	1.078	1.039		48.2	50.0	-3.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.789	1.844		45.6	44.3	3.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	0.9931		48.8	50.0	-2.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.162	1.127		45.8	47.3	-3.1	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.036	1.061		51.2	50.0	2.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.084	0.9863		43.3	47.6	-9.0	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.149	1.115		48.5	50.0	-3.0	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.124	1.053		44.7	47.8	-6.3	40.0
Perfluorononanoic acid (PFNA)	AveID	1.007	1.055		52.4	50.0	4.7	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	1.011	0.9458		46.8	50.0	-6.4	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.021	1.000		49.0	50.0	-2.0	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6316	0.6326		48.3	48.3	0.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.078	1.100		51.0	50.0	2.0	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.051	1.026		48.8	50.0	-2.4	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.093	1.003		45.9	50.0	-8.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	1.162	0.9701		41.7	50.0	-16.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.072		40.3	50.0	-19.3	50.0
13C4 PFBA	Ave	91568138	96803340		52.9	50.0	5.7	50.0
13C5-PFPeA	Ave	76118398	80733740		53.0	50.0	6.1	50.0
13C2 PFHxA	Ave	62556650	66412580		53.1	50.0	6.2	50.0
18O2 PFHxS	Ave	81894181	85921395		49.6	47.3	4.9	50.0
13C4-PFHpA	Ave	47945035	49205880		51.3	50.0	2.6	50.0
13C4 PFOA	Ave	42071693	42670840		50.7	50.0	1.4	50.0
13C4 PFOS	Ave	80887895	83873075		49.6	47.8	3.7	50.0
13C5 PFNA	Ave	32251818	32732580		50.8	50.0	1.5	50.0
13C8 FOSA	Ave	127070350	124196660		48.9	50.0	-2.3	50.0
13C2 PFDA	Ave	26307035	27480460		52.2	50.0	4.5	50.0
13C2 PFUnA	Ave	22586708	22818440		50.5	50.0	1.0	50.0
13C2 PFDoA	Ave	23110783	22819920		49.4	50.0	-1.3	50.0
13C2-PFTeDA	Ave	29586738	24362640		41.2	50.0	-17.7	50.0
13C2-PFHxDA	Ave	32835323	25072580		38.2	50.0	-23.6	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_012.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 26-Oct-2017 17:45:02 ALS Bottle#: 12 Worklist Smp#: 13
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: Plate: 1 Rack: 6
 Operator ID: abservice Instrument ID: A7_N
 Sublist:
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 27-Oct-2017 08:22:19 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last Ical File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

First Level Reviewer: roycea

Date: 26-Oct-2017 18:24:01

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.877	5.873	0.004		4840167	0.0529		106	94945	
1 Perfluorobutyric acid										
212.90 > 169.00	5.877	5.876	0.001	1.000	4306369	0.0356			137	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.515	6.513	0.002	1.000	4193121	0.0482			2924	
D 4 13C5-PFPeA										
267.90 > 223.00	6.515	6.513	0.002		4036687	0.0530		106	47136	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.565	6.569	-0.004	1.000	7010414	0.0456			7173	
D 6 13C2 PFHxA										
315.00 > 270.00	7.015	7.019	-0.004		3320629	0.0531		106	53636	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.015	7.019	-0.004	1.000	3297657	0.0488			8474	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.544	7.552	-0.008	1.000	4573718	0.0458			19309	
D 10 18O2 PFHxS										
403.00 > 84.00	7.544	7.555	-0.011		4064082	0.0496		105	37920	
D 11 13C4-PFHpA										
367.00 > 322.00	7.557	7.561	-0.004		2460294	0.0513		103	29074	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.557	7.561	-0.004	1.000	2610134	0.0512			7863	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.122	8.132	-0.010	1.000	3937745	0.0433			19830	
D 14 13C4 PFOA										
417.00 > 372.00	8.142	8.150	-0.008		2133542	0.0507		101	34518	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										
413.00 > 369.00	8.142	8.152	-0.010	1.000	2377884	0.0485			9094	
413.00 > 169.00	8.142	8.152	-0.010	1.000	2347626		1.01(0.90-1.10)		18911	
D 17 13C4 PFOS										
503.00 > 80.00	8.721	8.734	-0.013		4009133	0.0496		104	21297	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.721	8.738	-0.017	1.000	4216883	0.0447			5868	
499.00 > 99.00	8.721	8.738	-0.017	1.000	1018892		4.14(0.90-1.10)		4686	
D 19 13C5 PFNA										
468.00 > 423.00	8.750	8.770	-0.020		1636629	0.0507		101	37400	
20 Perfluorononanoic acid										
463.00 > 419.00	8.759	8.771	-0.012	1.000	1726656	0.0524			9817	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.262	9.262	0.0	1.000	5873153	0.0468			28397	
D 21 13C8 FOSA										
506.00 > 78.00	9.250	9.262	-0.012		6209833	0.0489		97.7	36522	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.367	9.387	-0.020	1.000	1374103	0.0490			14303	
D 23 13C2 PFDA										
515.00 > 470.00	9.367	9.387	-0.020		1374023	0.0522		104	24988	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.903	9.920	-0.018	1.000	2559966	0.0483			20164	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.959	9.971	-0.012	1.000	1254578	0.0510			10321	
D 27 13C2 PFUnA										
565.00 > 520.00	9.948	9.971	-0.023		1140922	0.0505		101	17685	
D 30 13C2 PFDoA										
615.00 > 570.00	10.502	10.522	-0.020		1140996	0.0494		98.7	15161	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.502	10.523	-0.021	1.000	1170411	0.0488			3781	
31 Perfluorotridecanoic acid										
663.00 > 619.00	11.010	11.037	-0.027	1.000	1143874	0.0459			5997	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.505	11.531	-0.026		1218132	0.0412		82.3	8271	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.505	11.532	-0.027	1.000	1106852	0.0417			4353	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.438	12.482	-0.044		1253629	0.0382		76.4	6013	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.438	12.485	-0.047	1.000	1223632	0.0403			2595	

Reagents:

LCPFCIC_FULL_00007

Amount Added: 50.00

Units: uL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_012.d

Injection Date: 26-Oct-2017 17:45:02

Instrument ID: A7_N

Lims ID: ICV

Client ID:

Operator ID: abservice

ALS Bottle#: 12

Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

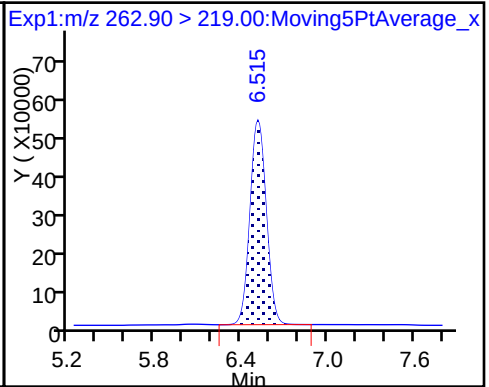
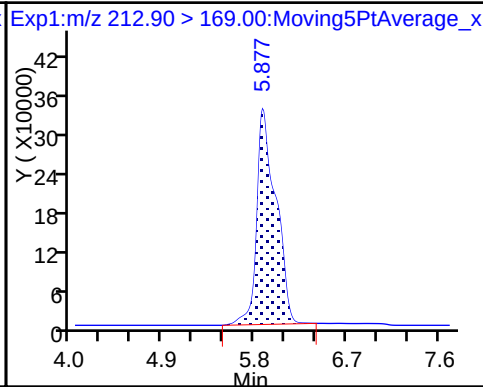
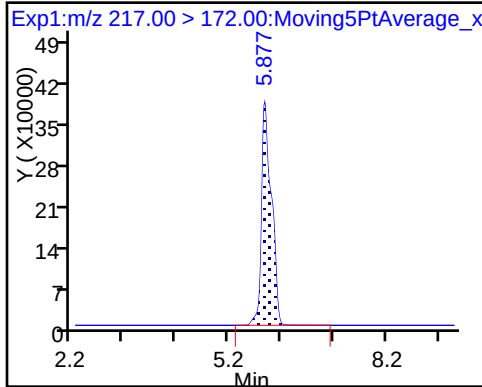
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

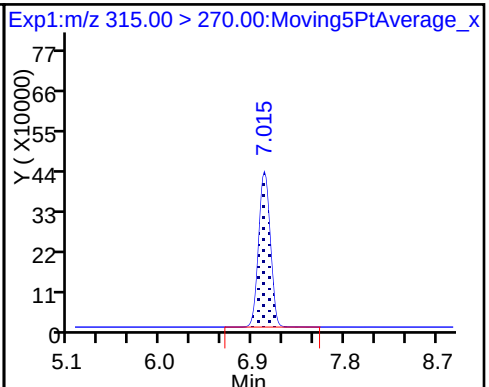
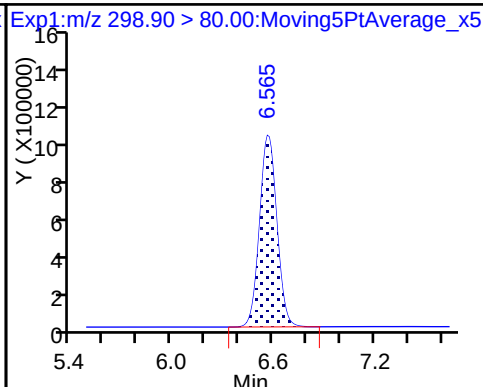
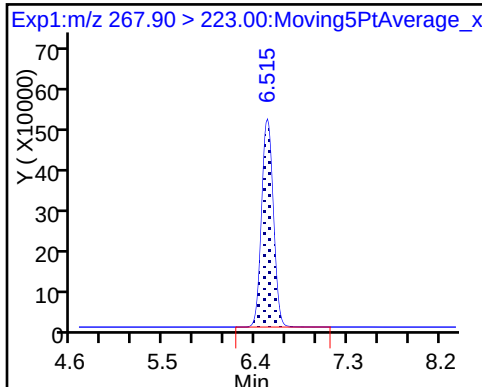
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

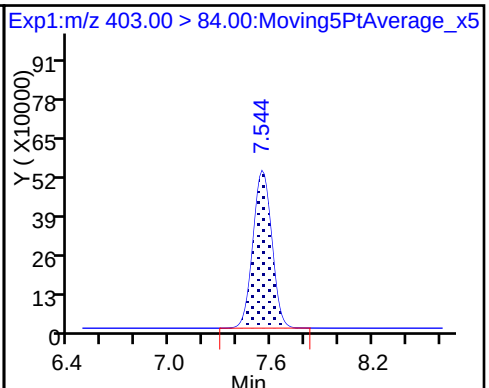
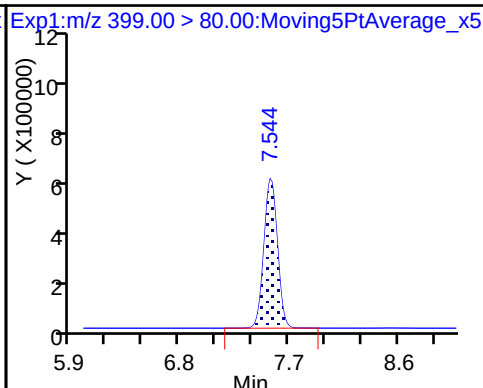
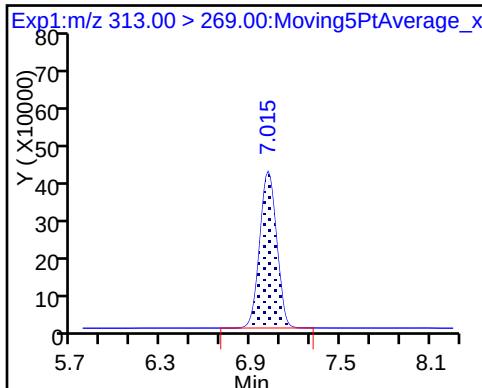
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

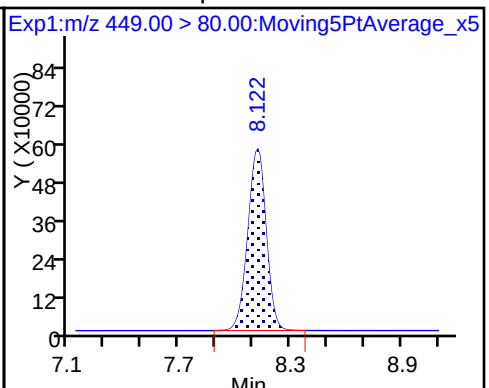
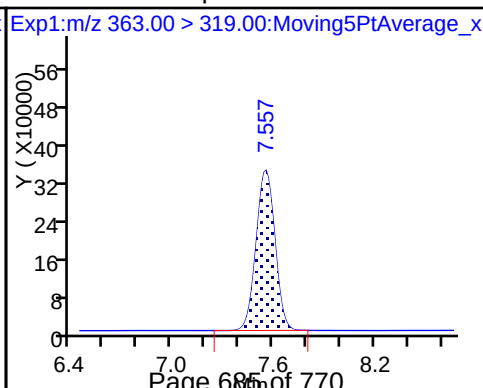
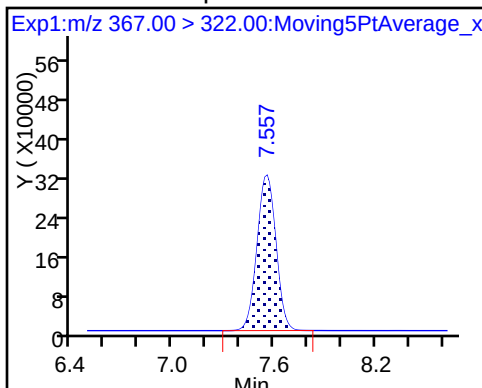
D 10 18O2 PFHxS



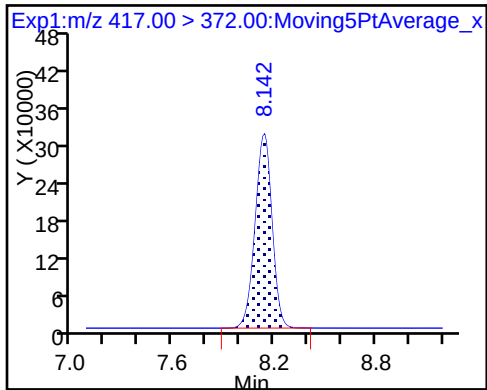
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

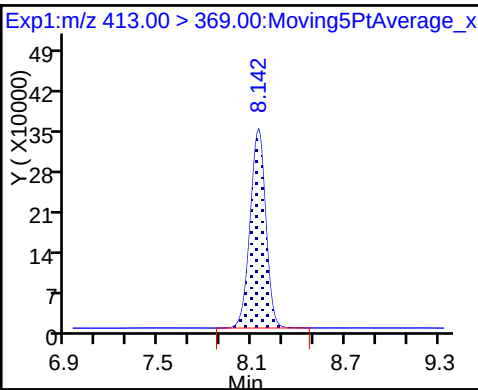
13 Perfluoroheptanesulfonic Acid



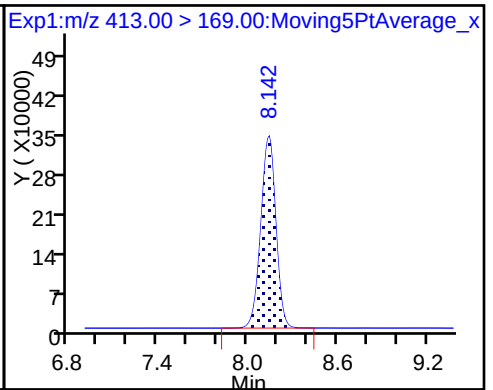
D 14 13C4 PFOA



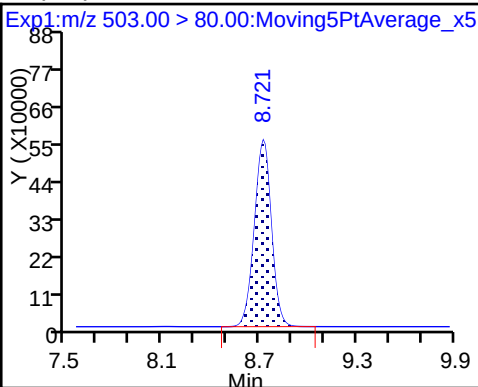
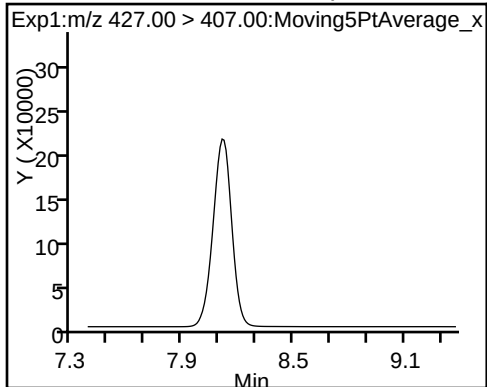
15 Perfluorooctanoic acid



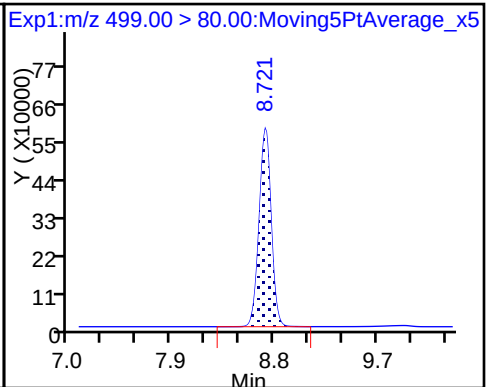
15 Perfluorooctanoic acid



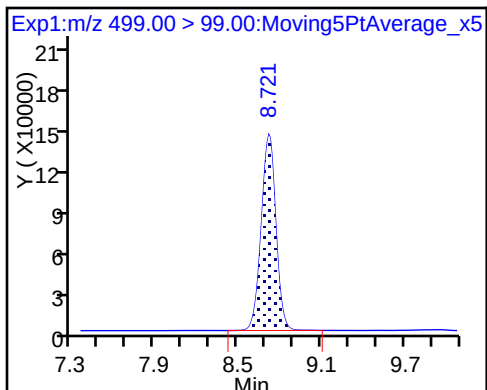
48 Sodium 1H,1H,2H,2H-perfluorooctadecane-1-sulfonate (PFOS)



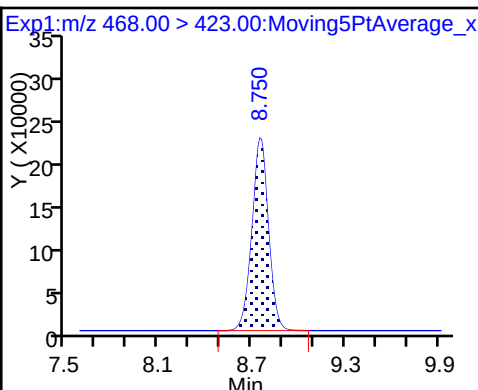
18 Perfluorooctane sulfonic acid



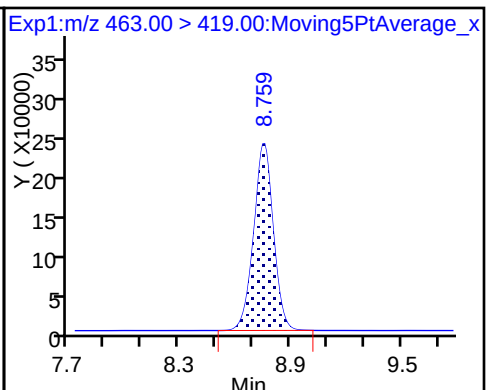
18 Perfluorooctane sulfonic acid



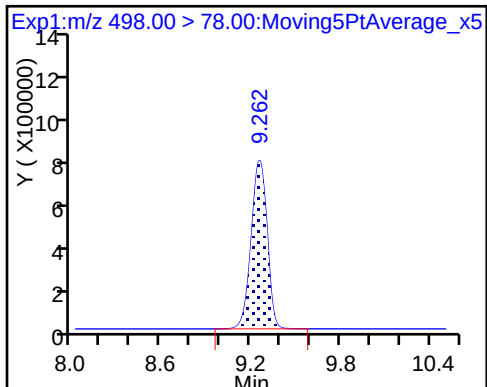
D 19 13C5 PFNA



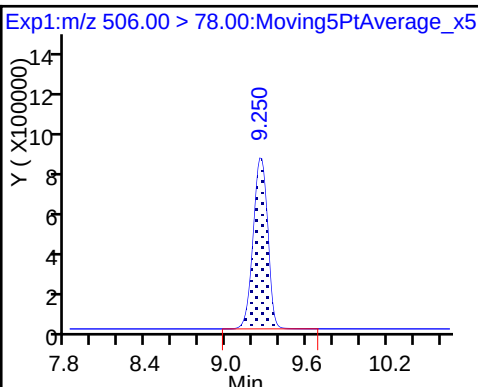
20 Perfluorononanoic acid



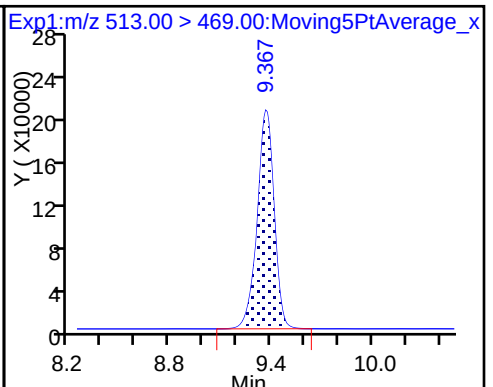
22 Perfluorooctane Sulfonamide



D 21 13C8 FOSA



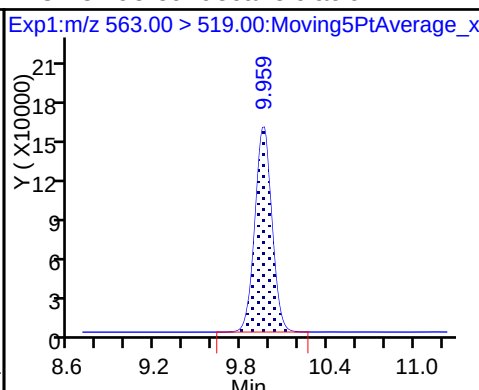
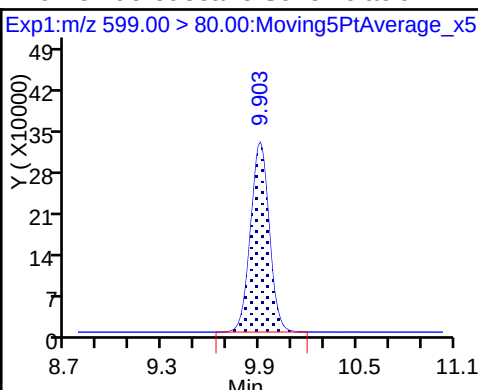
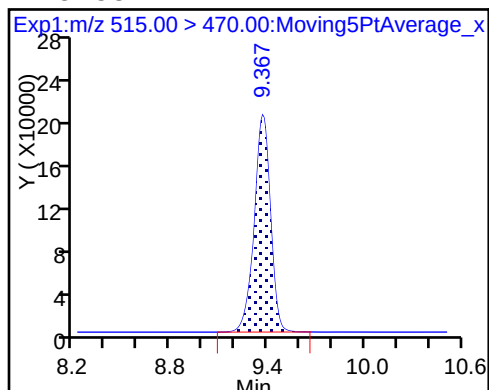
24 Perfluorodecanoic acid



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid

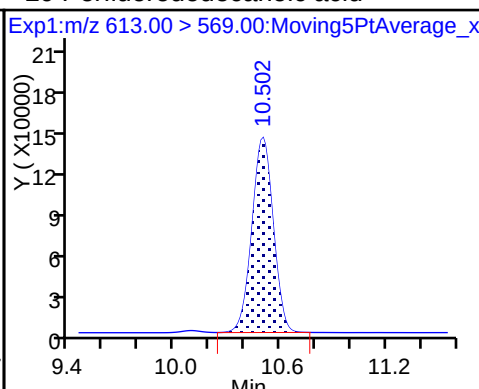
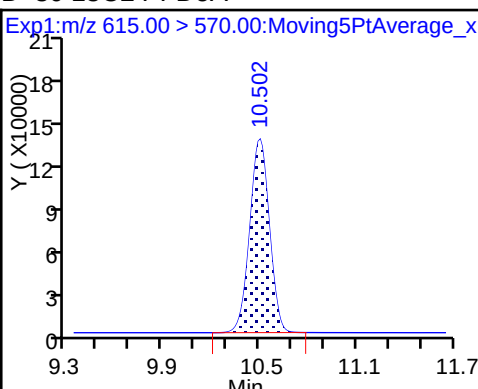
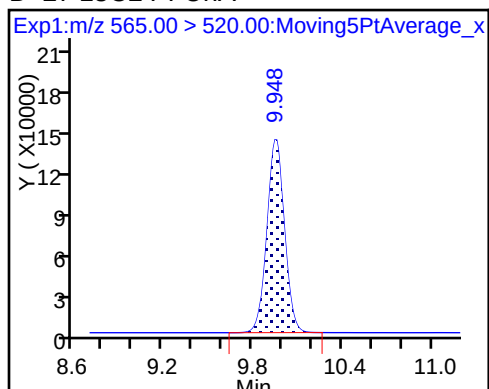
28 Perfluoroundecanoic acid



D 27 13C2 PFUnA

D 30 13C2 PFDaA

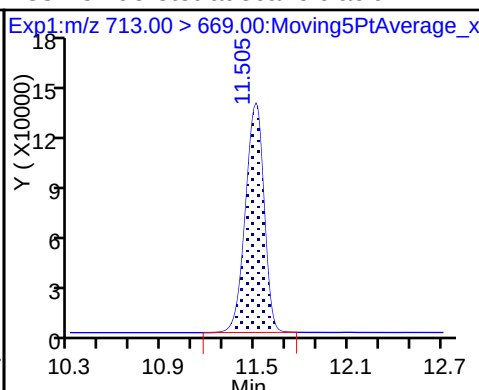
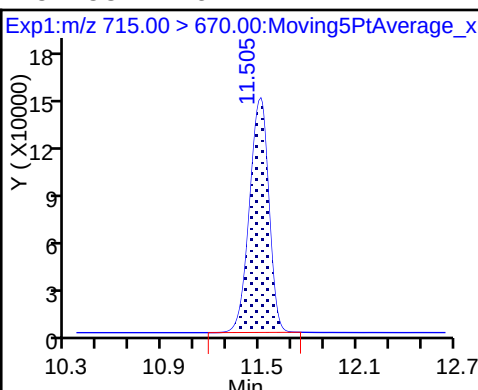
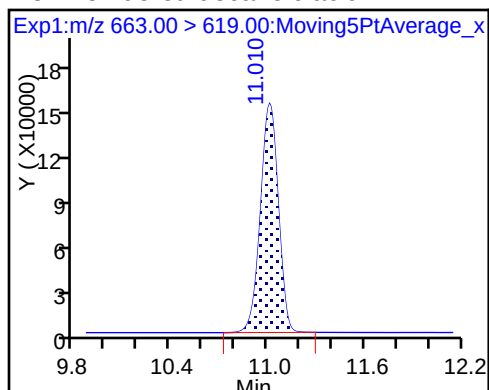
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

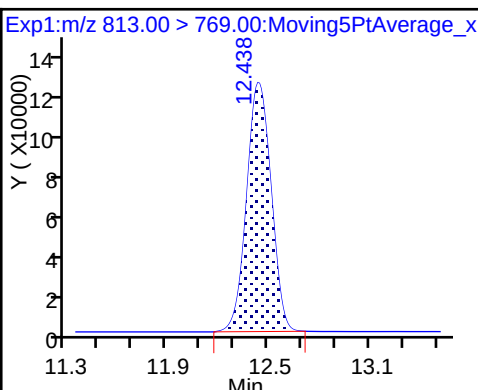
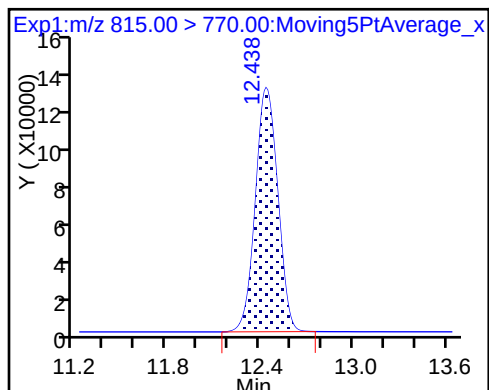
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Lab Sample ID: CCVL 320-195894/3 Calibration Date: 11/20/2017 13:52

Instrument ID: A7_N Calib Start Date: 10/26/2017 14:59

GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 10/26/2017 17:08

Lab File ID: 2017.11.20A_001.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.250	1.121		1.79	2.00	-10.4	50.0
Perfluoropentanoic acid (PFPA)	AveID	1.078	1.109		2.06	2.00	2.8	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.789	1.893		1.87	1.77	5.8	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.070		2.10	2.00	5.1	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.036	1.045		2.02	2.00	0.9	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.162	1.227		1.92	1.82	5.6	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.084	1.094		1.92	1.90	1.0	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.149	1.218		2.12	2.00	6.0	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.124	1.159		1.92	1.86	3.2	50.0
Perfluorononanoic acid (PFNA)	AveID	1.007	1.035		2.05	2.00	2.7	50.0
Perfluorooctane Sulfonamide (FOSA)	AveID	1.011	0.9855		1.95	2.00	-2.5	50.0
Perfluorodecanoic acid (PFDA)	AveID	1.021	0.9755		1.91	2.00	-4.4	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6316	0.6592		2.01	1.93	4.4	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.078	1.103		2.05	2.00	2.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	1.051	1.064		2.02	2.00	1.2	50.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.093	0.9239		1.69	2.00	-15.5	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	1.162	0.6804		1.17	2.00	-41.5	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID				2.00	2.00	-100.0*	50.0
13C4 PFBA	Ave	91568138	97792260		53.4	50.0	6.8	50.0
13C5-PFPeA	Ave	76118398	77637820		51.0	50.0	2.0	50.0
13C2 PFHxA	Ave	62556650	61866320		49.5	50.0	-1.1	50.0
13C4-PFHpA	Ave	47945035	46160460		48.1	50.0	-3.7	50.0
18O2 PFHxS	Ave	81894181	80454017		46.5	47.3	-1.8	50.0
13C4 PFOA	Ave	42071693	41301820		49.1	50.0	-1.8	50.0
13C4 PFOS	Ave	80887895	78765523		46.6	47.8	-2.6	50.0
13C5 PFNA	Ave	32251818	29956420		46.4	50.0	-7.1	50.0
13C8 FOSA	Ave	127070350	94698600		37.3	50.0	-25.5	50.0
13C2 PFDA	Ave	26307035	25030500		47.6	50.0	-4.9	50.0
13C2 PFUnA	Ave	22586708	20827980		46.1	50.0	-7.8	50.0
13C2 PFDoA	Ave	23110783	22209560		48.1	50.0	-3.9	50.0
13C2-PFTeDA	Ave	29586738	16365460		27.7	50.0	-44.7	50.0
13C2-PFHxDA	Ave	32835323	3462700		5.27	50.0	-89.5*	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50699.b\2017.11.20A_001.d
 Lims ID: CCVL
 Client ID:
 Sample Type: CCVL
 Inject. Date: 20-Nov-2017 13:52:45 ALS Bottle#: 1 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL
 Misc. Info.: Plate: 1 Rack: 1
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub22
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50699.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 21-Nov-2017 10:20:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last Ical File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK004

First Level Reviewer: phomsophat

Date: 21-Nov-2017 10:20:34

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.946	5.873	0.073		4889613	0.0534		107	93978	
1 Perfluorobutyric acid										
212.90 > 169.00	5.954	5.876	0.078	1.000	219210	0.001793		89.6	15.0	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.556	6.513	0.043	1.000	172126	0.002057		103	133	
D 4 13C5-PFPeA										
267.90 > 223.00	6.546	6.513	0.033		3881891	0.0510		102	46787	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.607	6.569	0.038	1.000	269201	0.001871		106	587	
D 6 13C2 PFHxA										
315.00 > 270.00	7.054	7.019	0.035		3093316	0.0494		98.9	43184	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.054	7.019	0.035	1.000	132400	0.002102		105	293	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.583	7.552	0.031	1.000	179649	0.001921		106	600	
D 10 18O2 PFHxS										
403.00 > 84.00	7.583	7.555	0.028		3805475	0.0465		98.2	33463	
D 11 13C4-PFHpA										
367.00 > 322.00	7.583	7.561	0.022		2308023	0.0481		96.3	28277	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.583	7.561	0.022	1.000	96481	0.002018		101	272	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.143	8.132	0.011	1.000	164128	0.001923		101	1001	
D 14 13C4 PFOA										
417.00 > 372.00	8.162	8.150	0.012		2065091	0.0491		98.2	30171	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										
413.00 > 369.00	8.162	8.152	0.010	1.000	100624	0.002121		106	480	
413.00 > 169.00	8.162	8.152	0.010	1.000	95664		1.05(0.90-1.10)		1124	
D 17 13C4 PFOS										
503.00 > 80.00	8.732	8.734	-0.002		3764992	0.0465		97.4	24550	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.732	8.738	-0.006	1.000	169452	0.001915		103	187	
499.00 > 99.00	8.732	8.738	-0.006	1.000	37565		4.51(0.90-1.10)		170	
D 19 13C5 PFNA										
468.00 > 423.00	8.761	8.770	-0.009		1497821	0.0464		92.9	26150	
20 Perfluorononanoic acid										
463.00 > 419.00	8.761	8.771	-0.010	1.000	61985	0.002054		103	370	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.264	9.262	0.002	1.000	186650	0.001950		97.5	2905	
D 21 13C8 FOSA										
506.00 > 78.00	9.264	9.262	0.002		4734930	0.0373		74.5	36228	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.360	9.387	-0.027	1.000	48832	0.001912		95.6	332	
D 23 13C2 PFDA										
515.00 > 470.00	9.352	9.387	-0.035		1251525	0.0476		95.1	20088	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.879	9.920	-0.041	1.000	100101	0.002012		104	883	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.924	9.971	-0.047	1.000	45956	0.002046		102	306	
D 27 13C2 PFUnA										
565.00 > 520.00	9.924	9.971	-0.047		1041399	0.0461		92.2	14575	
D 30 13C2 PFDoA										
615.00 > 570.00	10.464	10.522	-0.058		1110478	0.0481		96.1	13431	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.464	10.523	-0.059	1.000	47252	0.002024		101	251	
31 Perfluorotridecanoic acid										
663.00 > 619.00	10.967	11.037	-0.070	1.000	41039	0.001691		84.5	255	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.440	11.531	-0.091		818273	0.0277		55.3	6792	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.440	11.532	-0.092	1.000	30222	0.001171		58.5	151	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.343	12.482	-0.139		173135	0.005273		10.5	1653	

Reagents:

LCPFC-LL-L2_00015

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50699.b\2017.11.20A_001.d

Injection Date: 20-Nov-2017 13:52:45

Instrument ID: A7_N

Lims ID: CCVL

Client ID:

Operator ID: abservice

ALS Bottle#: 1

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

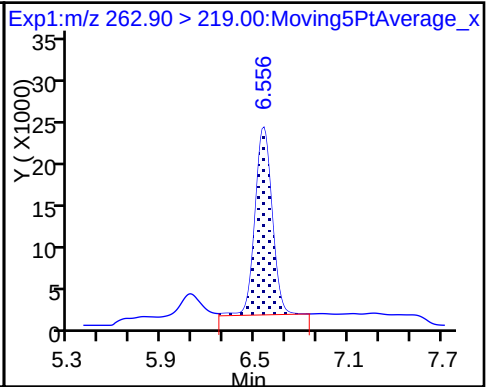
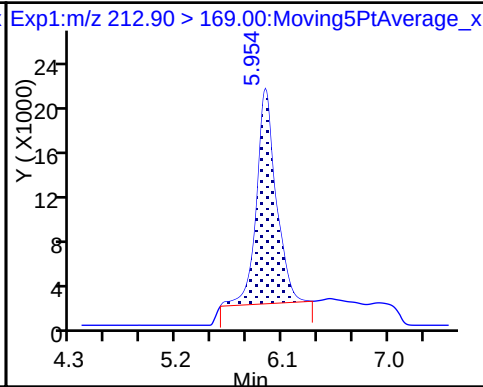
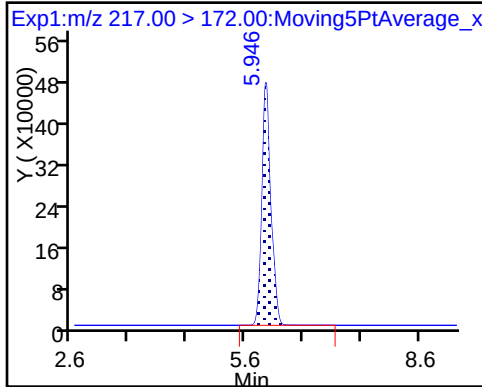
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

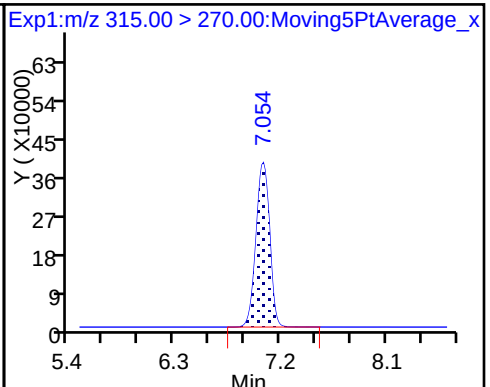
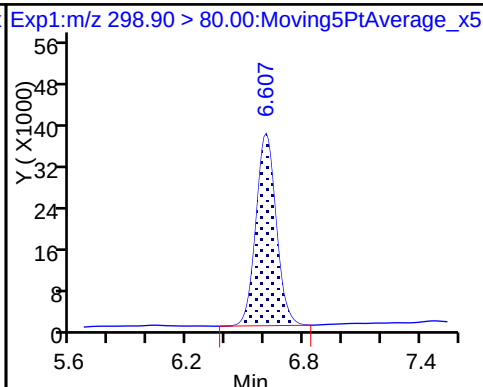
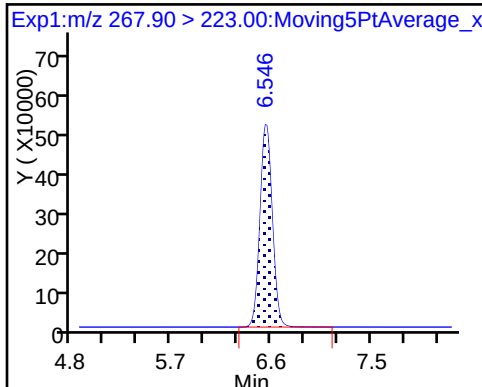
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

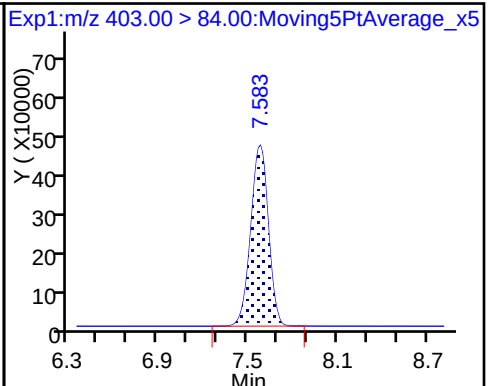
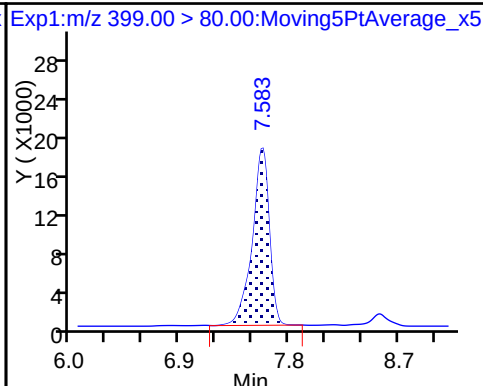
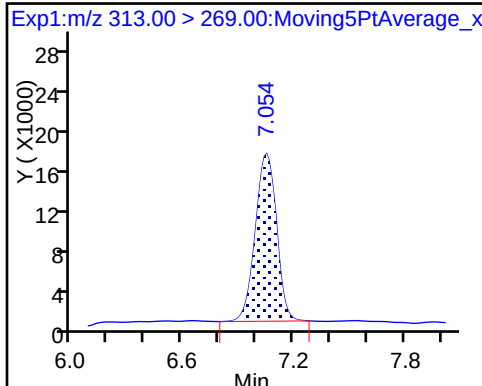
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

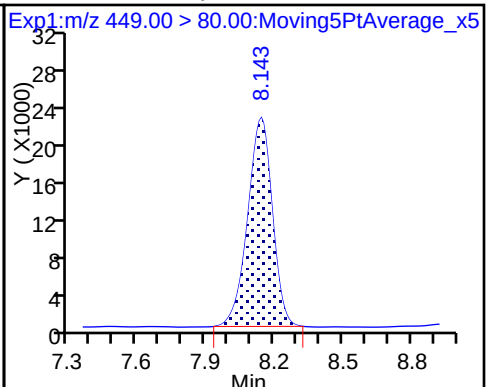
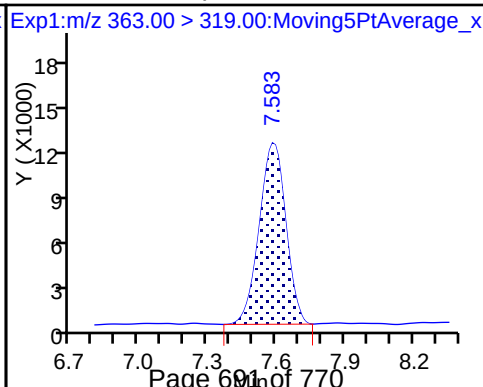
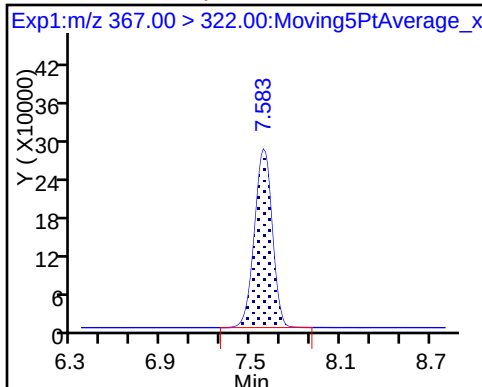
D 10 18O2 PFHxS



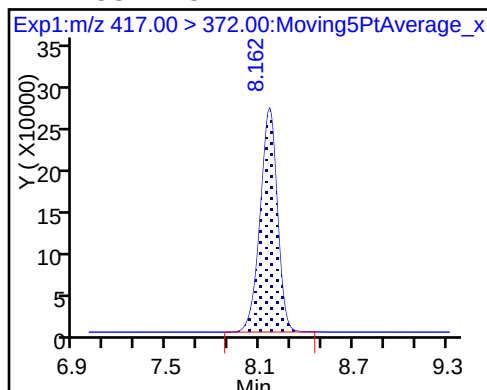
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

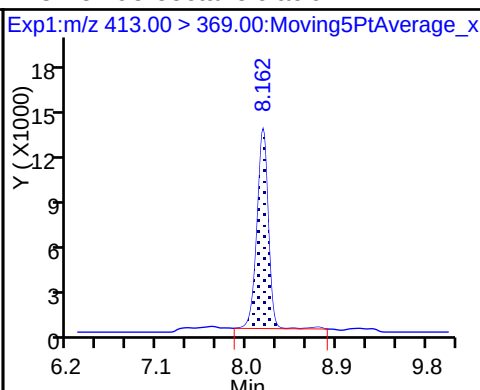
13 Perfluoroheptanesulfonic Acid



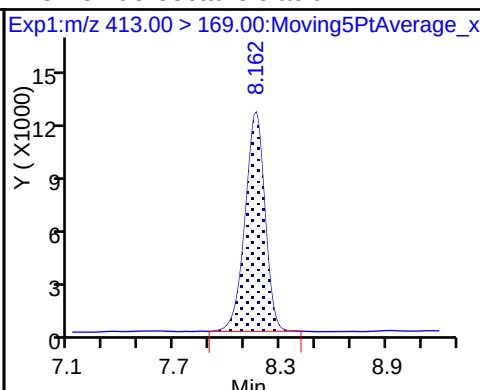
D 14 13C4 PFOA



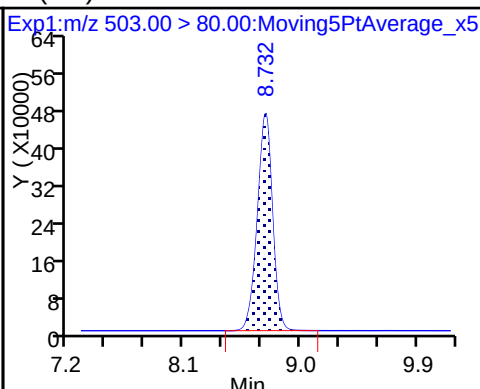
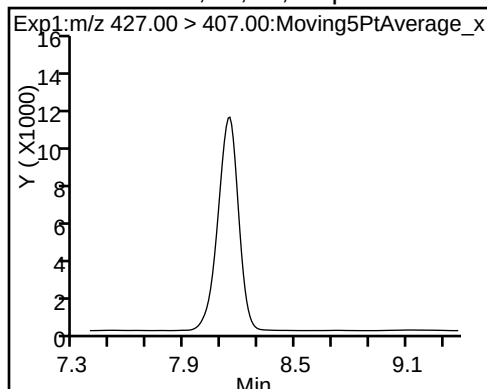
15 Perfluorooctanoic acid



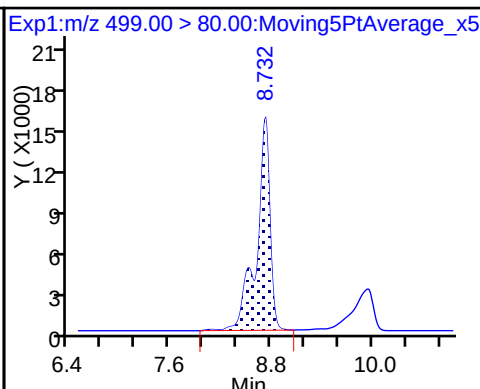
15 Perfluorooctanoic acid



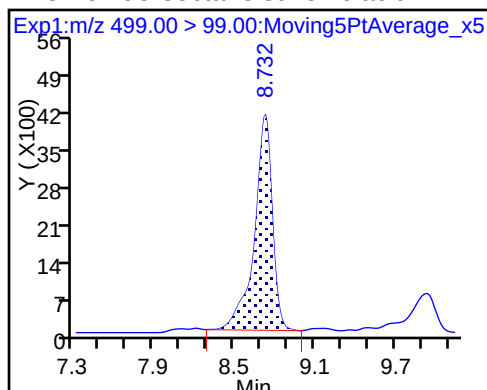
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)



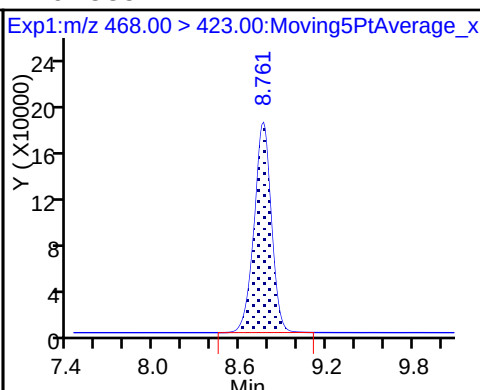
18 Perfluorooctane sulfonic acid



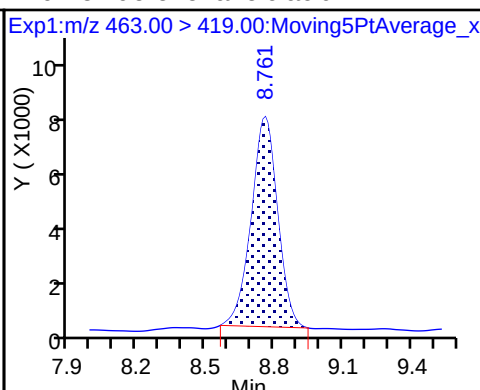
18 Perfluorooctane sulfonic acid



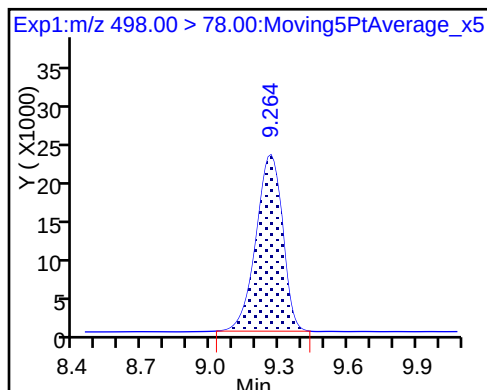
D 19 13C5 PFNA



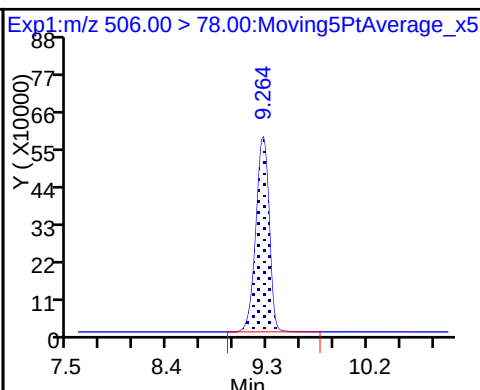
20 Perfluorononanoic acid



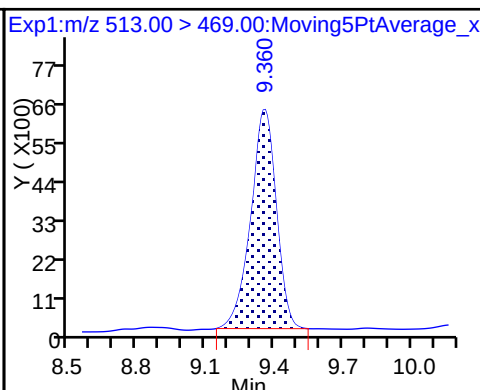
22 Perfluorooctane Sulfonamide



D 21 13C8 FOSA



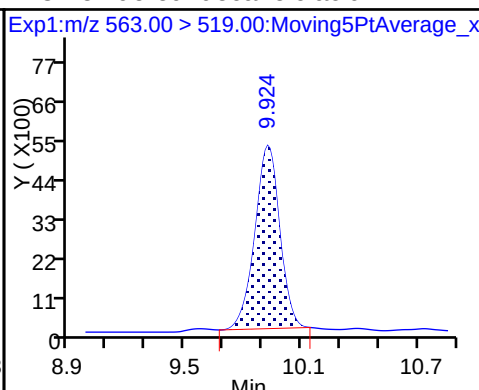
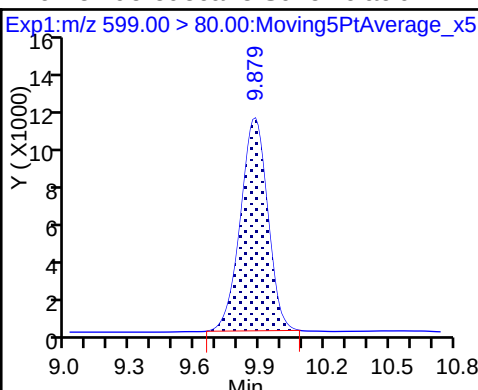
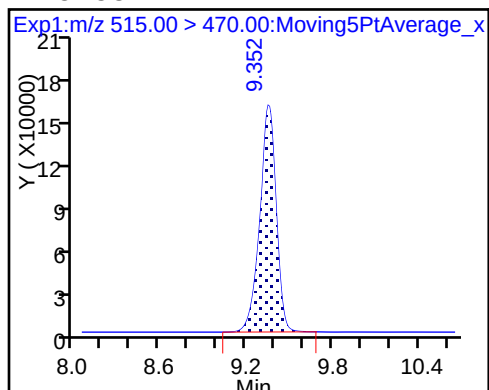
24 Perfluorodecanoic acid



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid

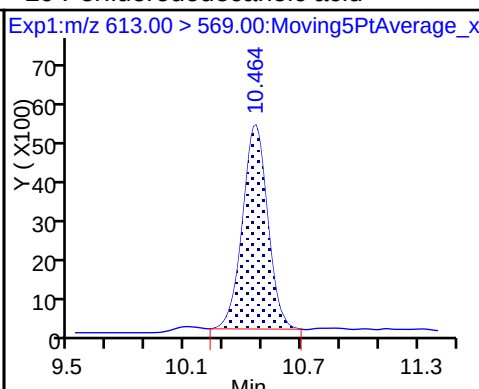
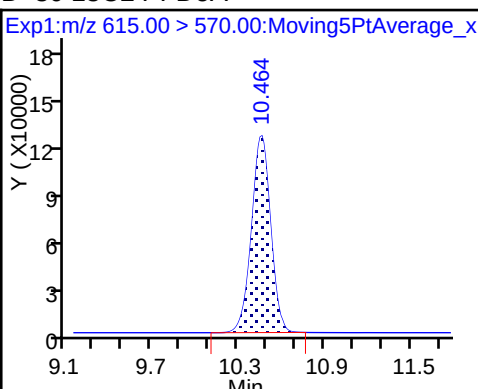
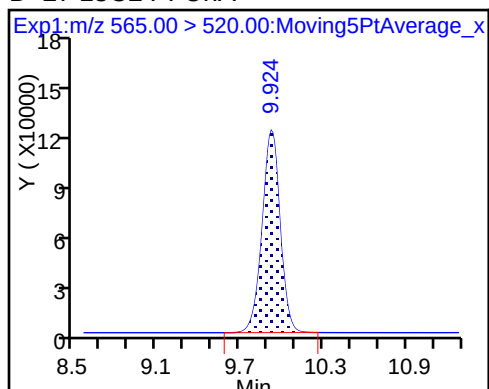
28 Perfluoroundecanoic acid



D 27 13C2 PFUnA

D 30 13C2 PFDaA

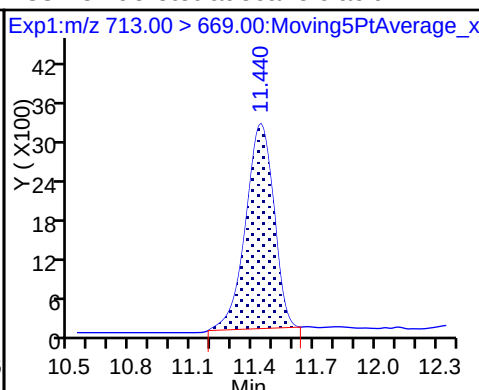
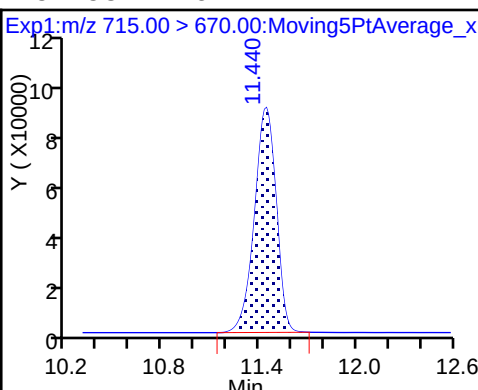
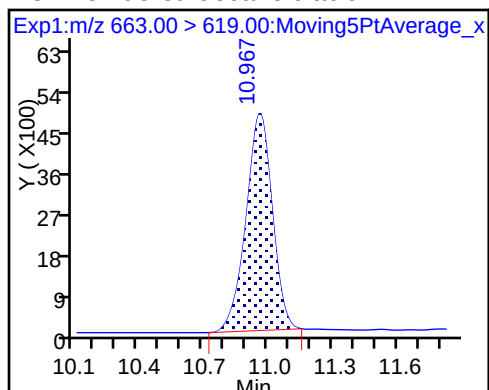
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

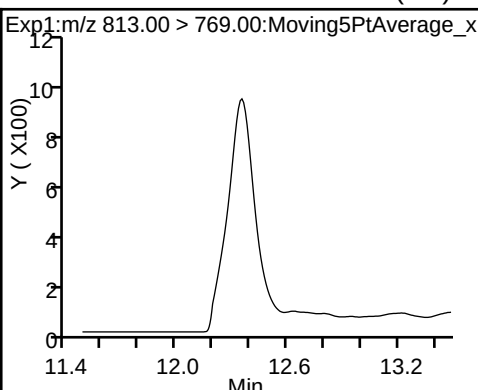
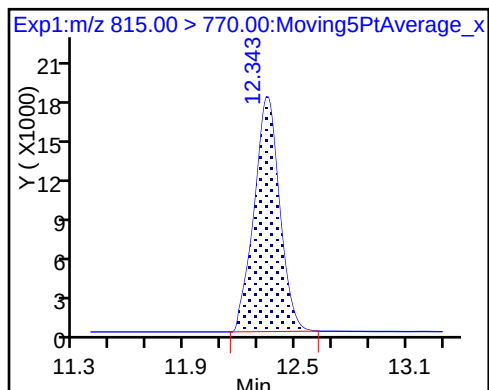
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid (ND)



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Lab Sample ID: CCV 320-195898/1 Calibration Date: 11/20/2017 23:51

Instrument ID: A7_N Calib Start Date: 10/26/2017 14:59

GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 10/26/2017 17:08

Lab File ID: 2017.11.20A_035.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.250	0.9538		15.3	20.0	-23.7	40.0
Perfluoropentanoic acid (PFPA)	AveID	1.078	1.064		19.7	20.0	-1.3	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.789	1.928		19.1	17.7	7.8	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.012		19.9	20.0	-0.6	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.162	1.161		18.2	18.2	-0.0	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.036	1.057		20.4	20.0	2.0	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.084	1.178		20.7	19.0	8.7	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.149	1.134		19.7	20.0	-1.3	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.124	1.151		19.0	18.6	2.4	40.0
Perfluorononanoic acid (PFNA)	AveID	1.007	1.072		21.3	20.0	6.4	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	1.011	1.054		20.9	20.0	4.3	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.021	1.045		20.5	20.0	2.4	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6316	0.7083		21.6	19.3	12.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.078	1.106		20.5	20.0	2.5	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.051	1.064		20.2	20.0	1.2	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.093	0.8764		16.0	20.0	-19.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	1.162	0.8880		15.3	20.0	-23.6	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.2742		3.72	20.0	-81.4*	50.0
13C4 PFBA	Ave	91568138	84850700		46.3	50.0	-7.3	50.0
13C5-PFPeA	Ave	76118398	72560980		47.7	50.0	-4.7	50.0
13C2 PFHxA	Ave	62556650	57833660		46.2	50.0	-7.5	50.0
13C4-PFHpA	Ave	47945035	45809500		47.8	50.0	-4.5	50.0
18O2 PFHxS	Ave	81894181	75759366		43.8	47.3	-7.5	50.0
13C4 PFOA	Ave	42071693	38455900		45.7	50.0	-8.6	50.0
13C4 PFOS	Ave	80887895	71568033		42.3	47.8	-11.5	50.0
13C5 PFNA	Ave	32251818	28099480		43.6	50.0	-12.9	50.0
13C8 FOSA	Ave	127070350	89696040		35.3	50.0	-29.4	50.0
13C2 PFDA	Ave	26307035	23675400		45.0	50.0	-10.0	50.0
13C2 PFUnA	Ave	22586708	19094340		42.3	50.0	-15.5	50.0
13C2 PFDoA	Ave	23110783	21117800		45.7	50.0	-8.6	50.0
13C2-PFTeDA	Ave	29586738	19714780		33.3	50.0	-33.4	50.0
13C2-PFHxDA	Ave	32835323	5800440		8.83	50.0	-82.3*	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20A_035.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 20-Nov-2017 23:51:19 ALS Bottle#: 32 Worklist Smp#: 1
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: Plate: 1 Rack: 1
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub22
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:47:29 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.851	5.873	-0.022		4242535	0.0463		92.7	43877	
1 Perfluorobutyric acid										
212.90 > 169.00	5.851	5.876	-0.025	1.000	1618668	0.0153		76.3	71.1	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.515	6.513	0.002	1.000	1543613	0.0197		98.7	1171	
D 4 13C5-PFPeA										
267.90 > 223.00	6.515	6.513	0.002		3628049	0.0477		95.3	45981	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.575	6.569	0.006	1.000	2583072	0.0191		108	4493	
D 6 13C2 PFHxA										
315.00 > 270.00	7.015	7.019	-0.004		2891683	0.0462		92.5	37902	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.015	7.019	-0.004	1.000	1170728	0.0199		99.4	2789	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.532	7.552	-0.020	1.000	1601326	0.0182		99.9	6405	
D 10 18O2 PFHxS										
403.00 > 84.00	7.545	7.555	-0.010		3583418	0.0438		92.5	28652	
D 11 13C4-PFHpA										
367.00 > 322.00	7.545	7.561	-0.016		2290475	0.0478		95.5	21481	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.545	7.561	-0.016	1.000	968107	0.0204		102	2037	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.112	8.132	-0.020	1.000	1604713	0.0207		109	8418	
D 14 13C4 PFOA										
417.00 > 372.00	8.133	8.150	-0.017		1922795	0.0457		91.4	19891	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.133	8.152	-0.019	1.000	872124	0.0197		98.7	2001	
413.00 > 169.00	8.133	8.152	-0.019	1.000	849967		1.03(0.90-1.10)		7447	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.699	8.734	-0.035		3420952	0.0423		88.5	14641	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.699	8.738	-0.039	1.000	1528938	0.0190		102	895	
499.00 > 99.00	8.699	8.738	-0.039	1.000	355441		4.30(0.90-1.10)		1174	
D 19 13C5 PFNA										
468.00 > 423.00	8.731	8.770	-0.039		1404974	0.0436		87.1	19165	
20 Perfluorononanoic acid										
463.00 > 419.00	8.731	8.771	-0.040	1.000	602418	0.0213		106	2335	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.251	9.262	-0.011	1.000	1891303	0.0209		104	12151	
D 21 13C8 FOSA										
506.00 > 78.00	9.251	9.262	-0.011		4484802	0.0353		70.6	24074	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.335	9.387	-0.052	1.000	494683	0.0205		102	2609	
D 23 13C2 PFDA										
515.00 > 470.00	9.335	9.387	-0.052		1183770	0.0450		90.0	13190	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.844	9.920	-0.076	1.000	977320	0.0216		112	6455	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.889	9.971	-0.082	1.000	422212	0.0205		103	2033	
D 27 13C2 PFUnA										
565.00 > 520.00	9.889	9.971	-0.082		954717	0.0423		84.5	10767	
D 30 13C2 PFDaA										
615.00 > 570.00	10.427	10.522	-0.095		1055890	0.0457		91.4	10350	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.427	10.523	-0.096	1.000	449214	0.0202		101	1633	
31 Perfluorotridecanoic acid										
663.00 > 619.00	10.925	11.037	-0.112	1.000	370139	0.0160		80.2	1547	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.392	11.531	-0.139		985739	0.0333		66.6	5624	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.392	11.532	-0.140	1.000	375044	0.0153		76.4	1147	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.294	12.482	-0.188		290022	0.008833		17.7	1931	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.294	12.485	-0.191	1.000	115814	0.003719		18.6	412	

Reagents:

LCPFC-LL-L5_00012

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20A_035.d

Injection Date: 20-Nov-2017 23:51:19

Instrument ID: A7_N

Lims ID: CCV L5

Client ID:

Operator ID: abservice

ALS Bottle#: 32

Worklist Smp#: 1

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

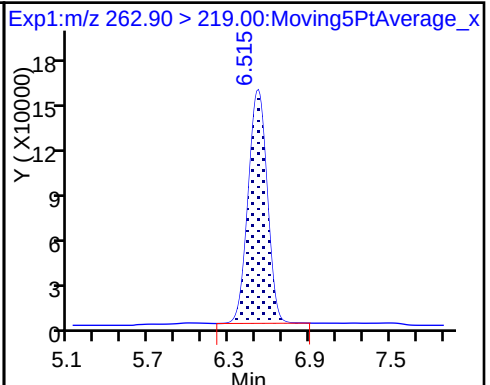
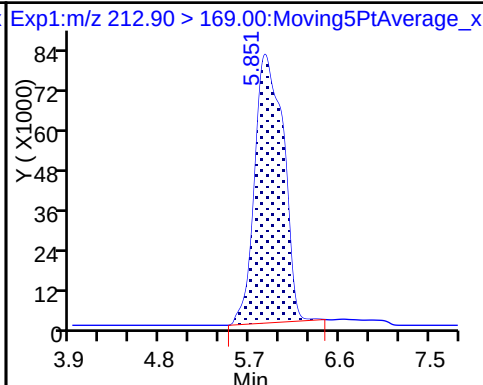
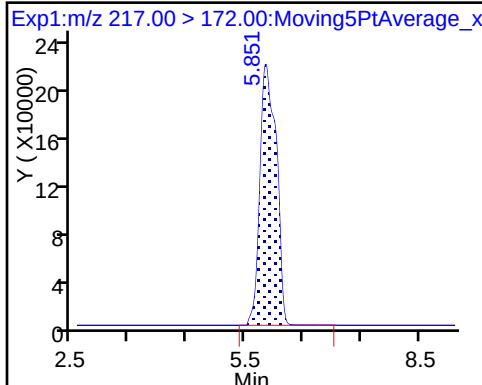
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

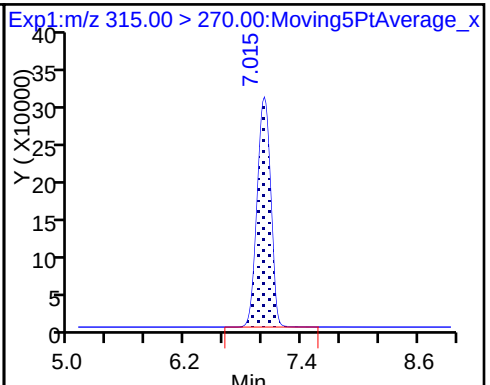
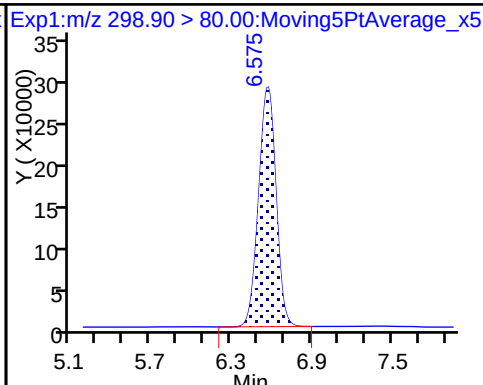
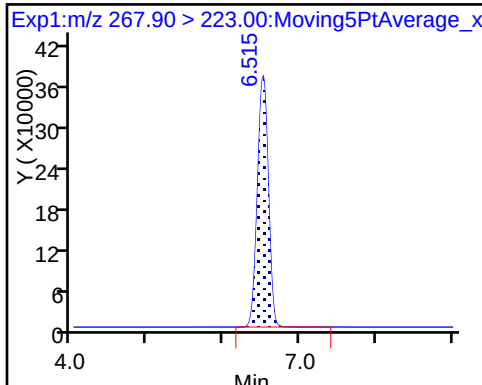
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

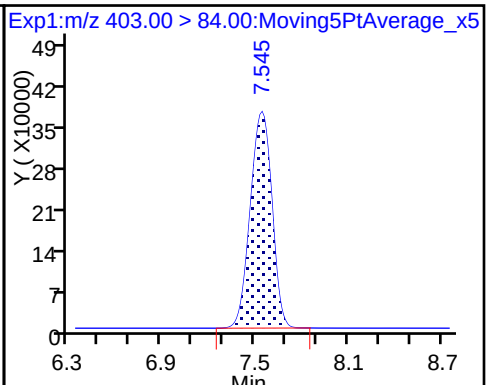
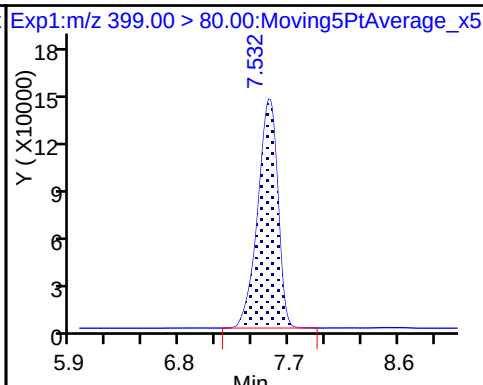
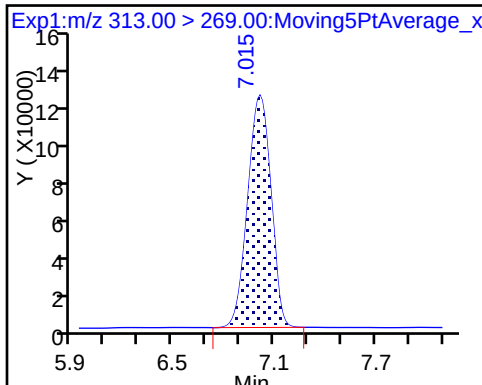
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

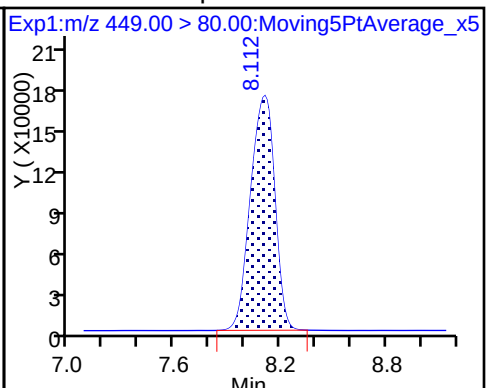
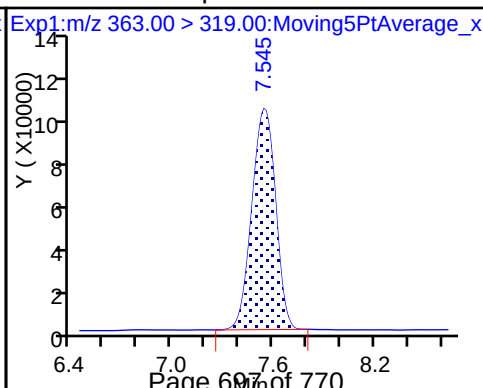
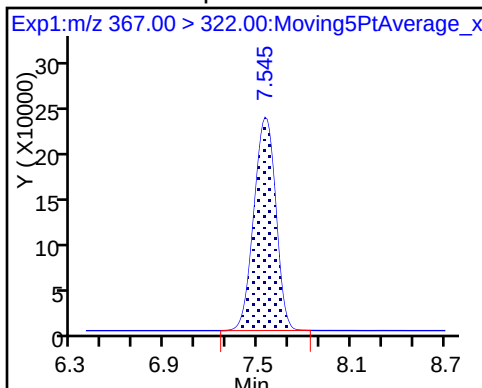
D 10 18O2 PFHxS



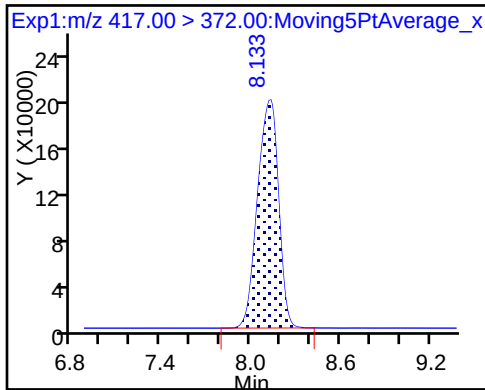
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

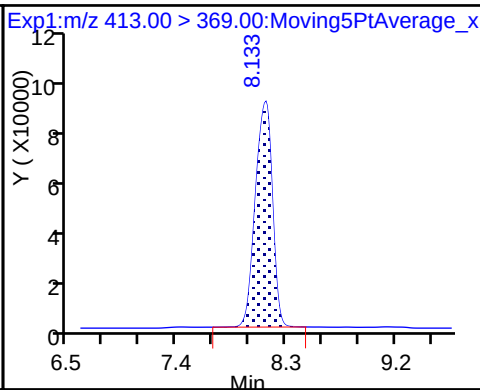
13 Perfluoroheptanesulfonic Acid



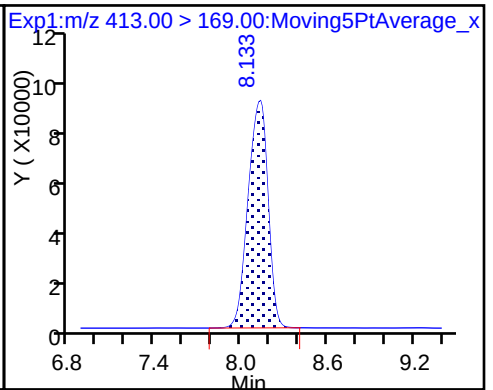
D 14 13C4 PFOA



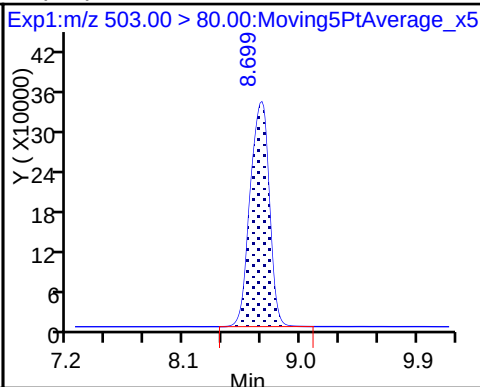
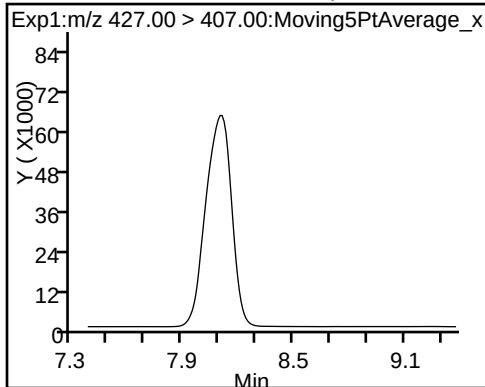
15 Perfluorooctanoic acid



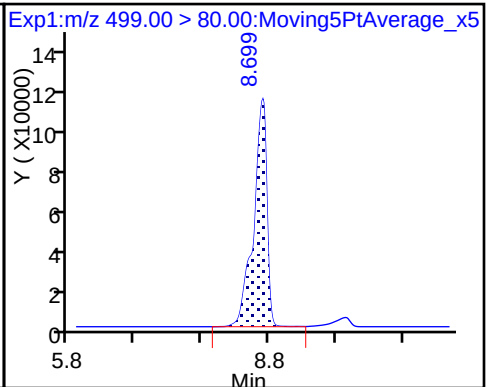
15 Perfluorooctanoic acid



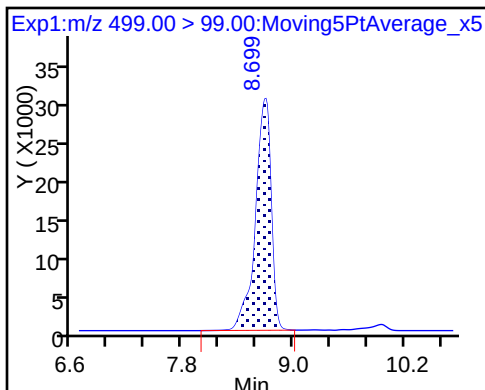
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)



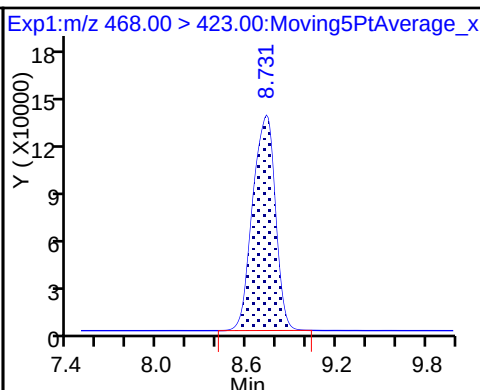
18 Perfluorooctane sulfonic acid



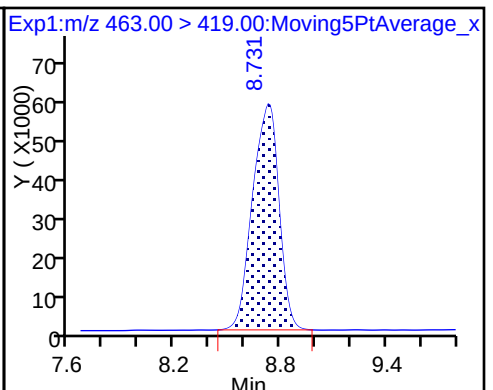
18 Perfluorooctane sulfonic acid



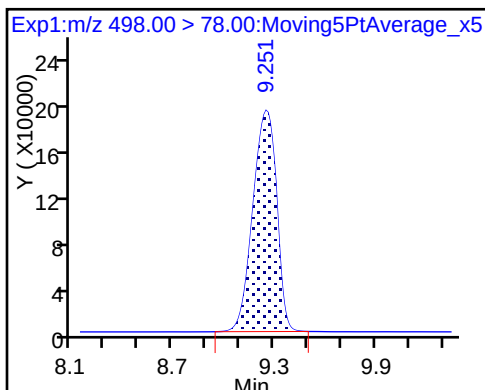
D 19 13C5 PFNA



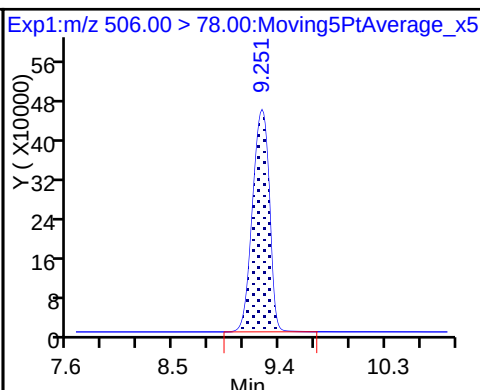
20 Perfluorononanoic acid



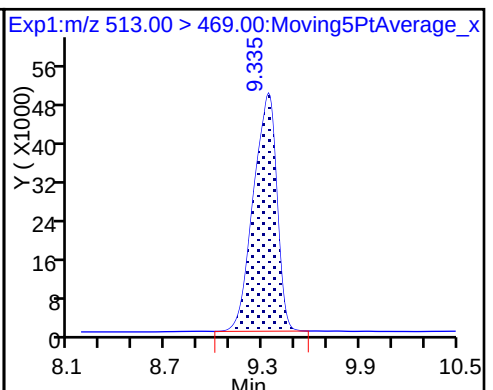
22 Perfluorooctane Sulfonamide



D 21 13C8 FOSA



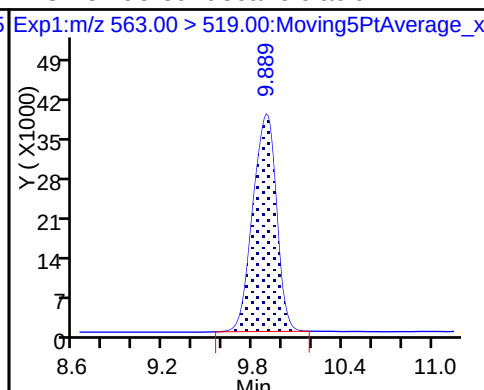
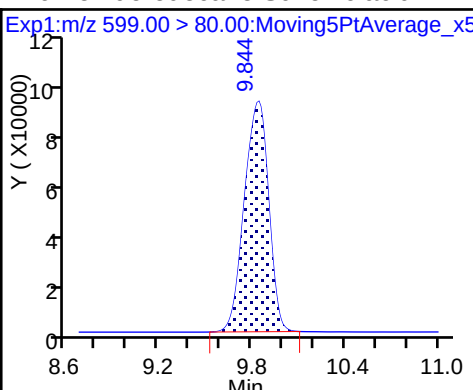
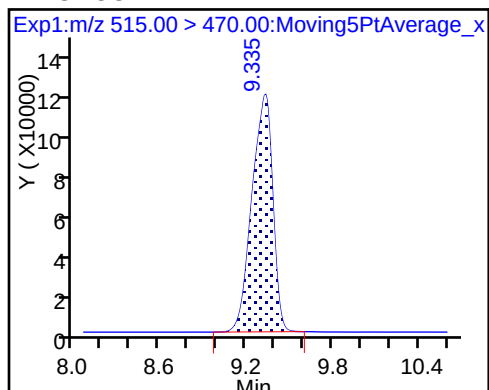
24 Perfluorodecanoic acid



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid

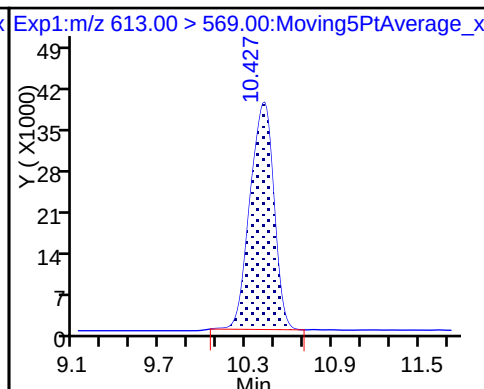
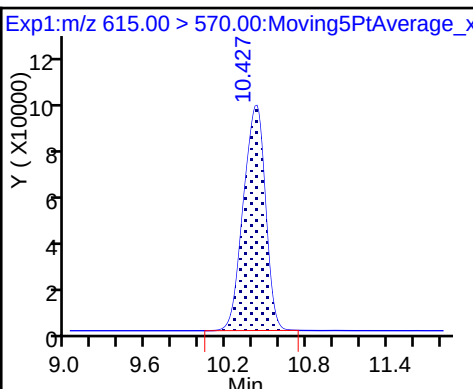
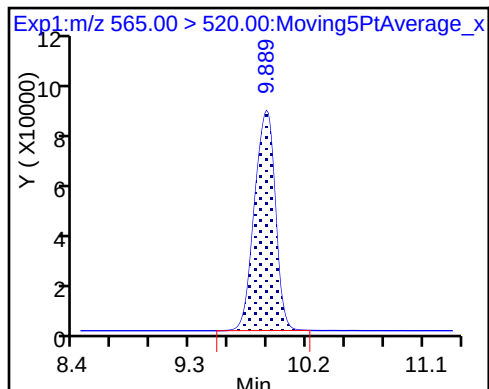
28 Perfluoroundecanoic acid



D 27 13C2 PFUnA

D 30 13C2 PFDaA

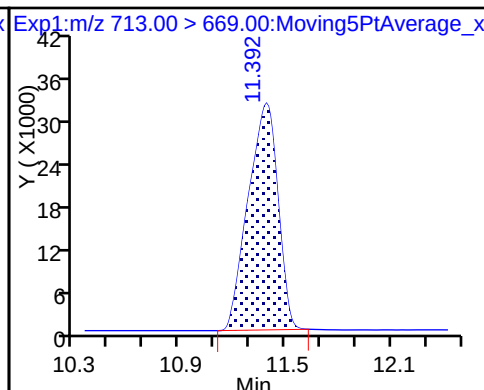
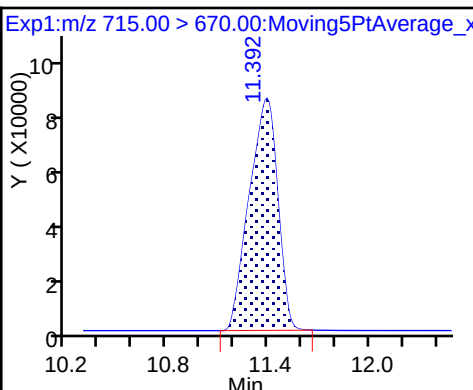
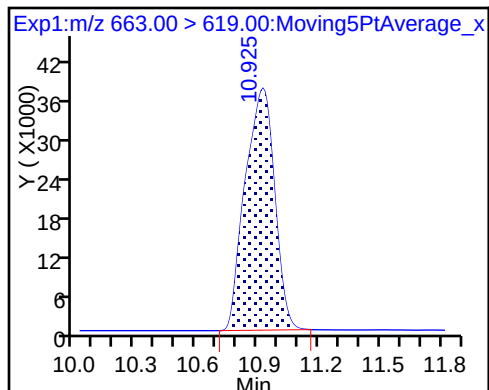
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

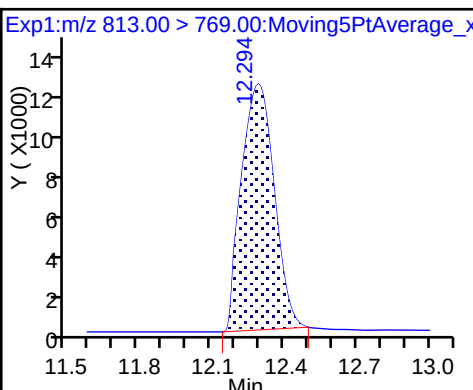
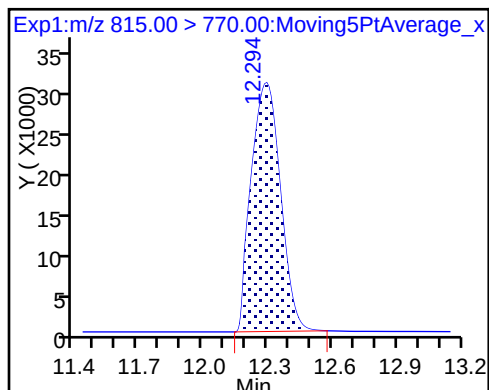
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Lab Sample ID: CCV 320-195898/12 Calibration Date: 11/21/2017 03:13

Instrument ID: A7_N Calib Start Date: 10/26/2017 14:59

GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 10/26/2017 17:08

Lab File ID: 2017.11.20BX_011.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.250	0.9207		36.8	50.0	-26.4	40.0
Perfluoropentanoic acid (PFPA)	AveID	1.078	1.054		48.9	50.0	-2.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.789	1.935		47.8	44.2	8.2	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	0.9772		48.0	50.0	-4.0	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.162	1.160		45.4	45.5	-0.2	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.036	1.116		53.9	50.0	7.8	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.084	1.114		49.0	47.6	2.8	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.149	1.135		49.4	50.0	-1.2	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.124	1.110		45.8	46.4	-1.2	40.0
Perfluorononanoic acid (PFNA)	AveID	1.007	1.042		51.7	50.0	3.5	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	1.011	1.022		50.6	50.0	1.1	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.021	1.058		51.9	50.0	3.7	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6316	0.6653		50.8	48.2	5.3	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.078	1.061		49.2	50.0	-1.6	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.051	1.066		50.7	50.0	1.4	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.093	0.8726		39.9	50.0	-20.1	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	1.162	0.7972		34.3	50.0	-31.4	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.3716		13.7	50.0	-72.6*	50.0
13C4 PFBA	Ave	91568138	87005860		47.5	50.0	-5.0	50.0
13C5-PFPeA	Ave	76118398	71715500		47.1	50.0	-5.8	50.0
13C2 PFHxA	Ave	62556650	58686740		46.9	50.0	-6.2	50.0
18O2 PFHxS	Ave	81894181	75612854		43.7	47.3	-7.7	50.0
13C4-PFHpA	Ave	47945035	45153360		47.1	50.0	-5.8	50.0
13C4 PFOA	Ave	42071693	37422380		44.5	50.0	-11.1	50.0
13C4 PFOS	Ave	80887895	73797573		43.6	47.8	-8.8	50.0
13C5 PFNA	Ave	32251818	28670440		44.5	50.0	-11.1	50.0
13C8 FOSA	Ave	127070350	86904300		34.2	50.0	-31.6	50.0
13C2 PFDA	Ave	26307035	23447720		44.6	50.0	-10.9	50.0
13C2 PFUnA	Ave	22586708	19405420		43.0	50.0	-14.1	50.0
13C2 PFDoA	Ave	23110783	20412340		44.2	50.0	-11.7	50.0
13C2-PFTeDA	Ave	29586738	17670580		29.9	50.0	-40.3	50.0
13C2-PFHxDA	Ave	32835323	7958260		12.1	50.0	-75.8*	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_011.d
 Lims ID: CCV L6
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Nov-2017 03:13:11 ALS Bottle#: 11 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L6
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub22
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:02 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.861	5.873	-0.012		4350293	0.0475		95.0	61783	
1 Perfluorobutyric acid										
212.90 > 169.00	5.861	5.876	-0.015	1.000	4005410	0.0368		73.6	250	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.526	6.513	0.013	1.000	3780292	0.0489		97.8	3380	
D 4 13C5-PFPeA										
267.90 > 223.00	6.526	6.513	0.013		3585775	0.0471		94.2	38784	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.577	6.569	0.008	1.000	6467193	0.0478		108	11289	
D 6 13C2 PFHxA										
315.00 > 270.00	7.016	7.019	-0.003		2934337	0.0469		93.8	40856	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.016	7.019	-0.003	1.000	2867517	0.0480		96.0	7536	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.546	7.552	-0.006	1.000	3989168	0.0454		99.8	16276	
D 10 18O2 PFHxS										
403.00 > 84.00	7.546	7.555	-0.009		3576488	0.0437		92.3	32802	
D 11 13C4-PFHpA										
367.00 > 322.00	7.558	7.561	-0.003		2257668	0.0471		94.2	24660	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.558	7.561	-0.003	1.000	2519358	0.0539		108	4359	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.113	8.132	-0.019	1.000	3914463	0.0489		103	18709	
D 14 13C4 PFOA										
417.00 > 372.00	8.134	8.150	-0.016		1871119	0.0445		88.9	26600	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.134	8.152	-0.018	1.000	2123751	0.0494		98.8	4491	
413.00 > 169.00	8.134	8.152	-0.018	1.000	2090761		1.02(0.90-1.10)		20081	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 17 13C4 PFOS										
503.00 > 80.00	8.703	8.734	-0.031		3527524	0.0436		91.2	17496	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.703	8.738	-0.035	1.000	3800598	0.0458		98.8	2616	
499.00 > 99.00	8.703	8.738	-0.035	1.000	909982		4.18(0.90-1.10)		3314	
D 19 13C5 PFNA										
468.00 > 423.00	8.732	8.770	-0.038		1433522	0.0444		88.9	21902	
20 Perfluorononanoic acid										
463.00 > 419.00	8.732	8.771	-0.039	1.000	1494187	0.0517		103	5529	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.264	9.262	0.002	1.000	4439792	0.0505		101	23576	
D 21 13C8 FOSA										
506.00 > 78.00	9.264	9.262	0.002		4345215	0.0342		68.4	24132	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.336	9.387	-0.051	1.000	1240753	0.0518		104	6340	
D 23 13C2 PFDA										
515.00 > 470.00	9.336	9.387	-0.051		1172386	0.0446		89.1	16427	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.845	9.920	-0.075	1.000	2366459	0.0508		105	12674	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.902	9.971	-0.069	1.000	1029889	0.0492		98.4	4464	
D 27 13C2 PFUnA										
565.00 > 520.00	9.890	9.971	-0.081		970271	0.0430		85.9	13844	
D 30 13C2 PFDaA										
615.00 > 570.00	10.428	10.522	-0.094		1020617	0.0442		88.3	11086	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.428	10.523	-0.095	1.000	1087907	0.0507		101	3913	
31 Perfluorotridecanoic acid										
663.00 > 619.00	10.927	11.037	-0.110	1.000	890606	0.0399		79.9	2927	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.393	11.531	-0.138		883529	0.0299		59.7	5620	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.393	11.532	-0.139	1.000	813681	0.0343		68.6	1926	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.277	12.482	-0.205		397913	0.0121		24.2	2454	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.277	12.485	-0.208	1.000	379288	0.0137		27.4	864	

Reagents:

LCPFC-LL-L6_00012

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_011.d

Injection Date: 21-Nov-2017 03:13:11

Instrument ID: A7_N

Lims ID: CCV L6

Client ID:

Operator ID: abservice

ALS Bottle#: 11

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

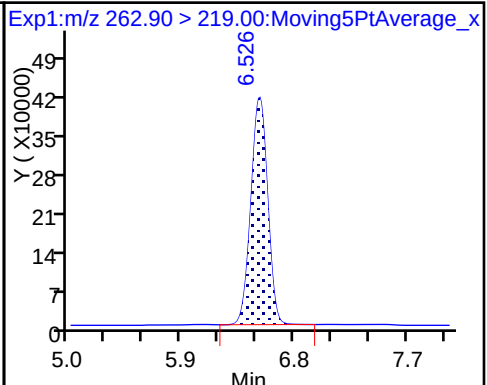
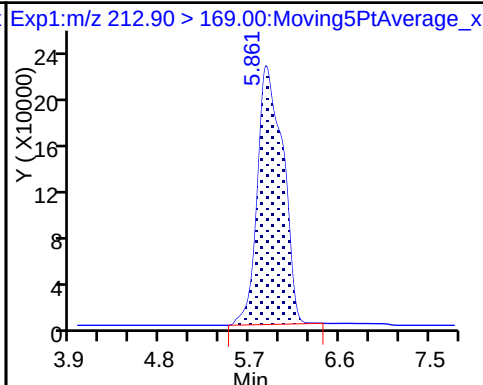
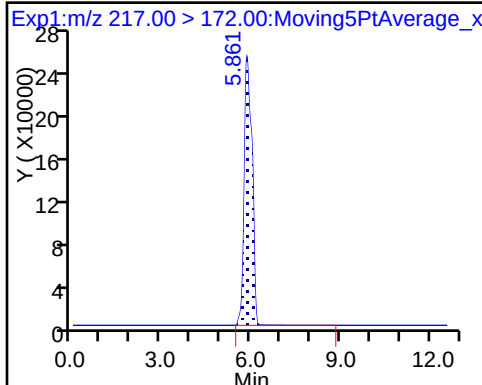
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

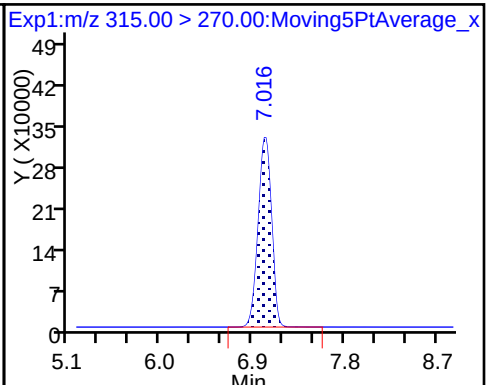
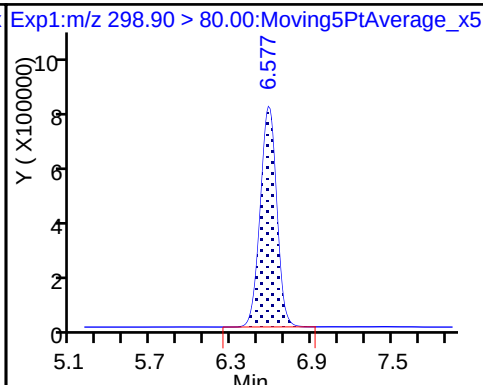
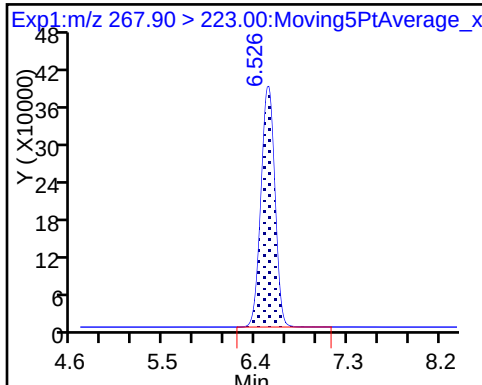
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

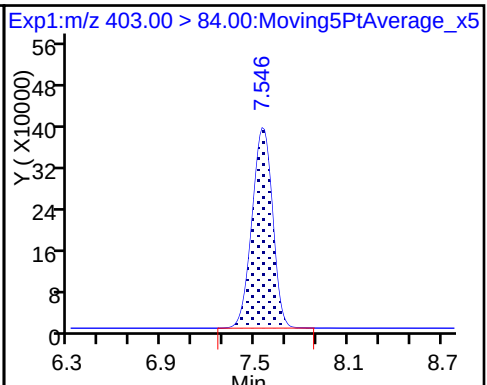
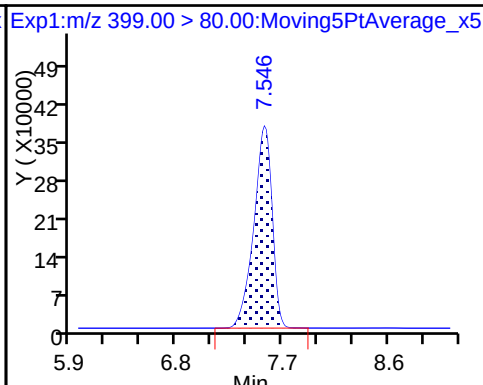
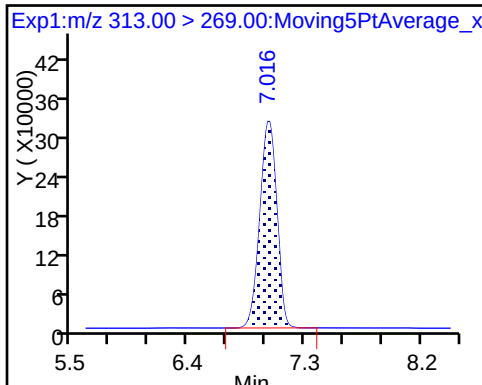
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

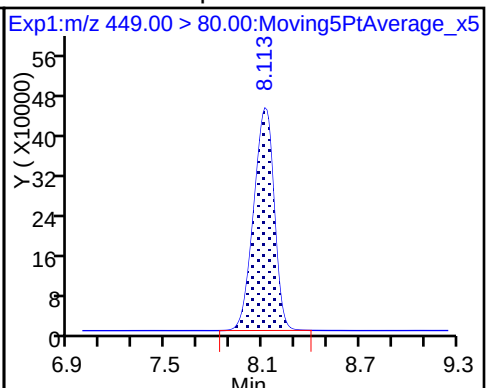
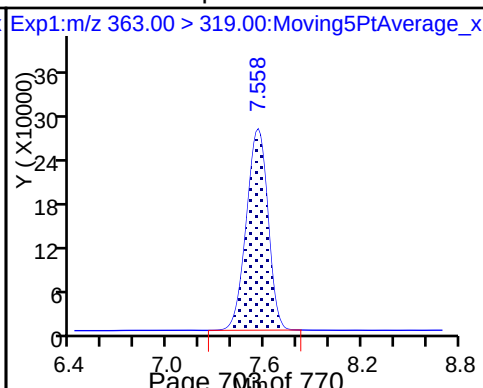
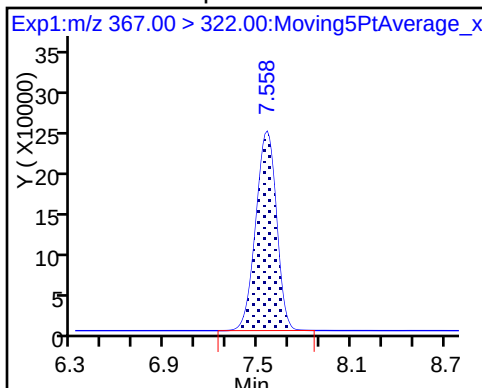
D 10 18O2 PFHxS



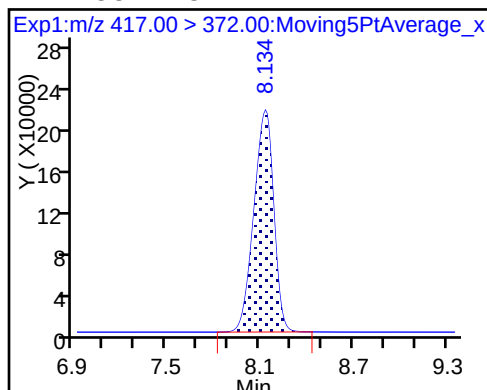
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

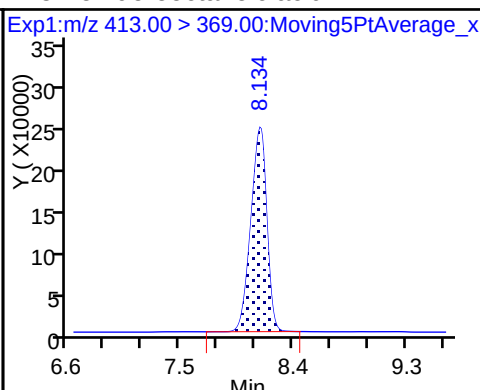
13 Perfluoroheptanesulfonic Acid



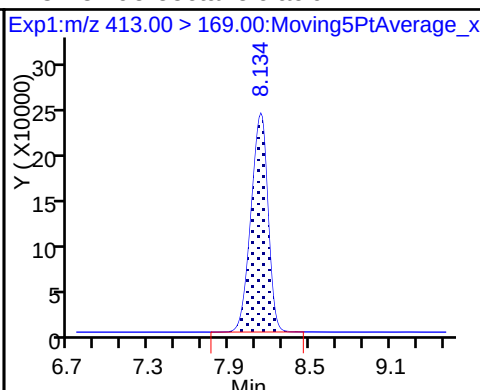
D 14 13C4 PFOA



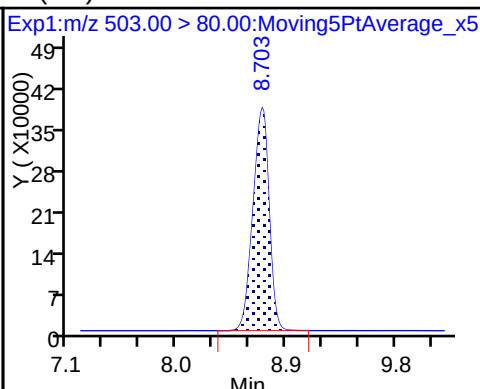
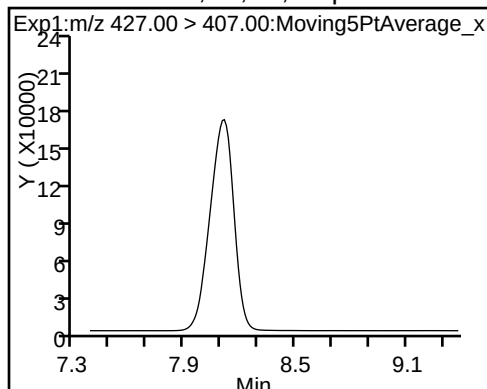
15 Perfluorooctanoic acid



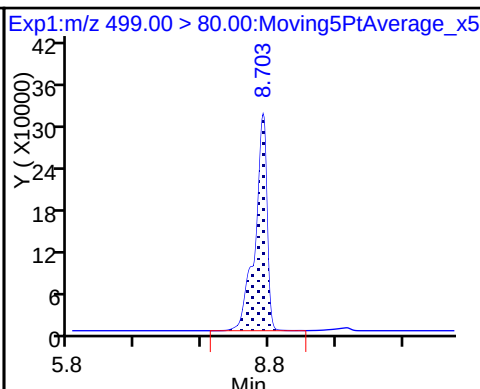
15 Perfluorooctanoic acid



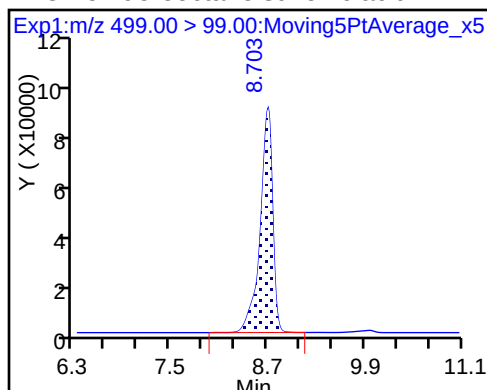
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)



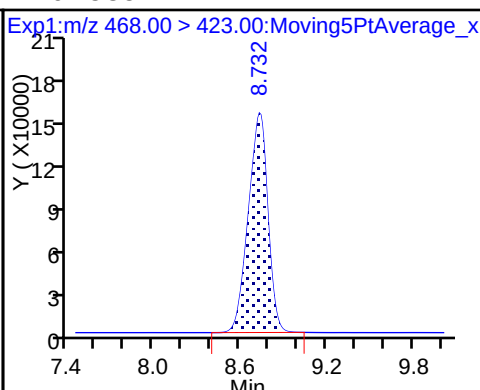
18 Perfluorooctane sulfonic acid



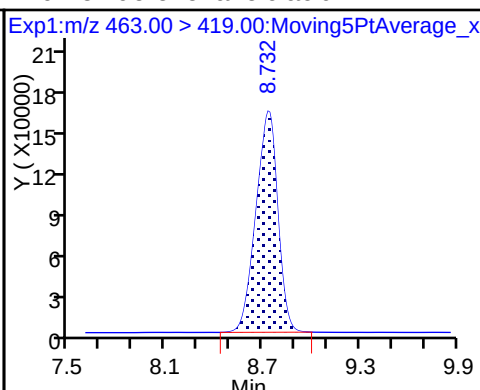
18 Perfluorooctane sulfonic acid



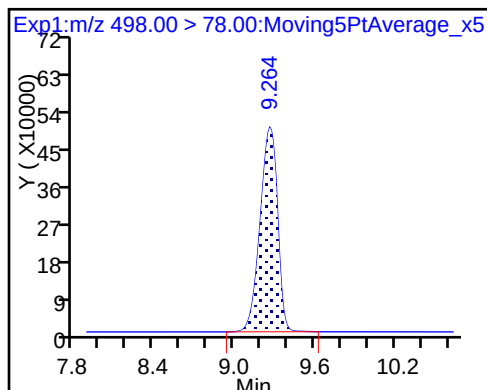
D 19 13C5 PFNA



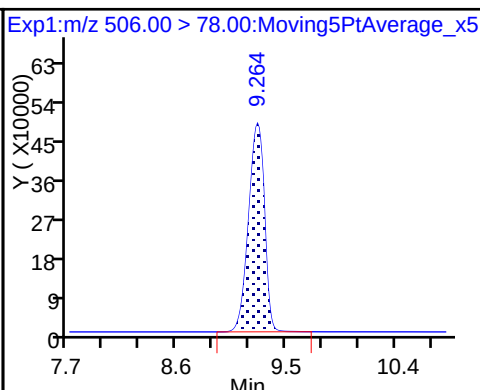
20 Perfluorononanoic acid



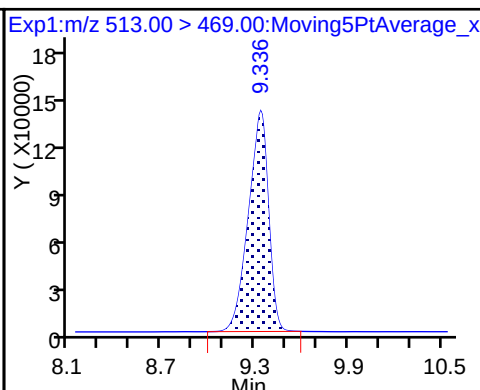
22 Perfluorooctane Sulfonamide



D 21 13C8 FOSA



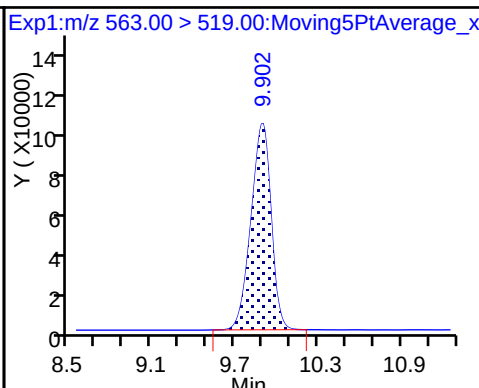
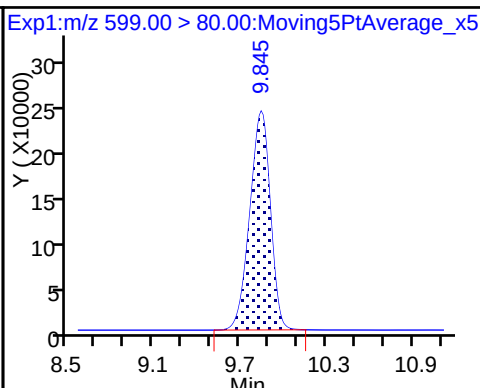
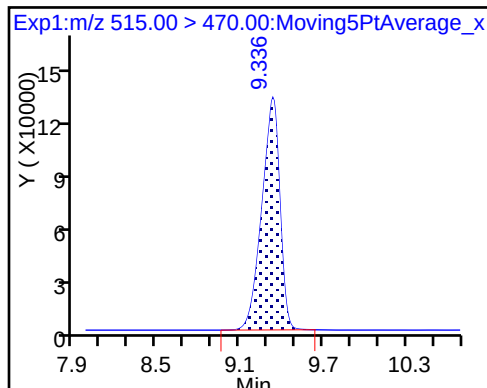
24 Perfluorodecanoic acid



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid

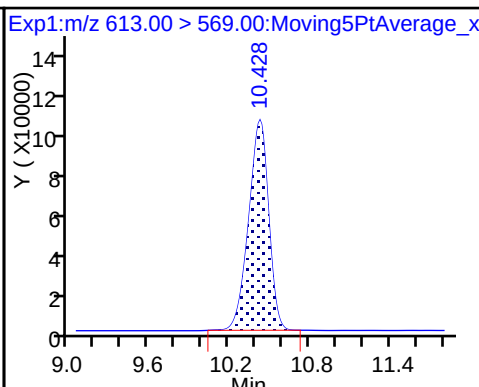
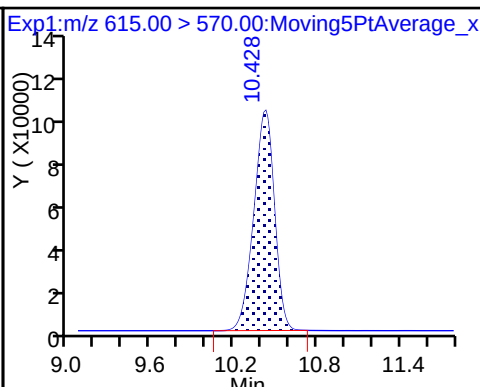
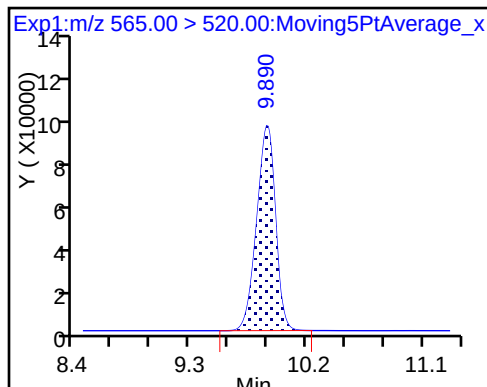
28 Perfluoroundecanoic acid



D 27 13C2 PFUnA

D 30 13C2 PFDaA

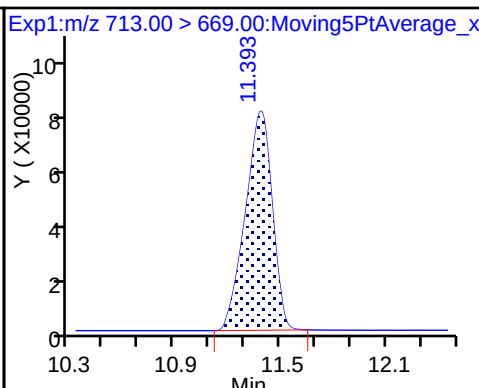
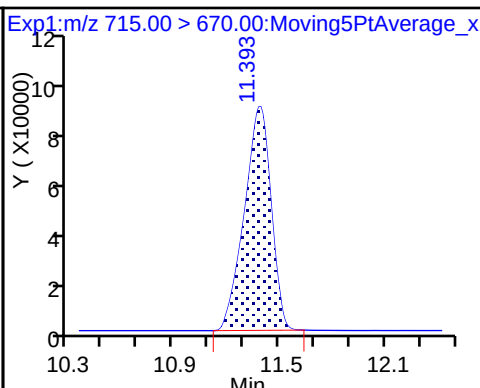
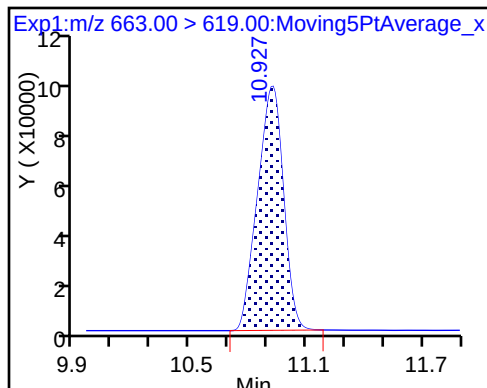
29 Perfluorododecanoic acid



31 Perfluorotridecanoic acid

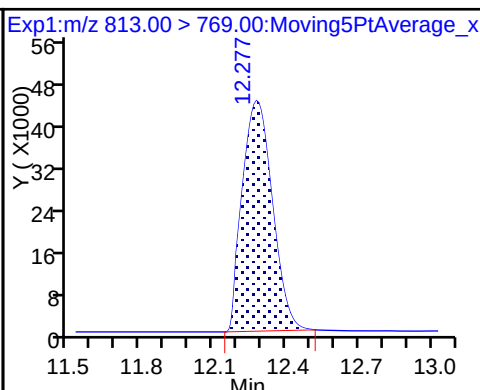
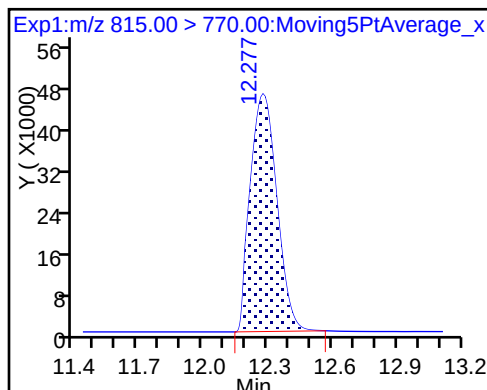
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Lab Sample ID: CCV 320-195898/23 Calibration Date: 11/21/2017 06:35

Instrument ID: A7_N Calib Start Date: 10/26/2017 14:59

GC Column: GeminiC18 3x100 ID: 3.00 (mm) Calib End Date: 10/26/2017 17:08

Lab File ID: 2017.11.20BX_022.d Conc. Units: ng/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	1.250	0.9579		15.3	20.0	-23.4	40.0
Perfluoropentanoic acid (PFPA)	AveID	1.078	1.055		19.6	20.0	-2.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	1.789	1.886		18.6	17.7	5.4	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.018	1.054		20.7	20.0	3.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.162	1.147		18.0	18.2	-1.3	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.036	1.052		20.3	20.0	1.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.084	1.132		19.9	19.0	4.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.149	1.173		20.4	20.0	2.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.124	1.133		18.7	18.6	0.8	40.0
Perfluorononanoic acid (PFNA)	AveID	1.007	1.044		20.7	20.0	3.6	40.0
Perfluorooctane Sulfonamide (FOSA)	AveID	1.011	1.022		20.2	20.0	1.1	40.0
Perfluorodecanoic acid (PFDA)	AveID	1.021	1.035		20.3	20.0	1.4	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.6316	0.6958		21.2	19.3	10.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	1.078	1.118		20.7	20.0	3.7	40.0
Perfluorododecanoic acid (PFDoA)	AveID	1.051	1.080		20.6	20.0	2.8	40.0
Perfluorotridecanoic Acid (PFTriA)	AveID	1.093	0.9140		16.7	20.0	-16.4	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	1.162	0.8820		15.2	20.0	-24.1	50.0
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.2968		4.06	20.0	-79.7*	50.0
13C4 PFBA	Ave	91568138	91481320		50.0	50.0	-0.0	50.0
13C5-PFPeA	Ave	76118398	76039160		50.0	50.0	-0.1	50.0
13C2 PFHxA	Ave	62556650	59802780		47.8	50.0	-4.4	50.0
18O2 PFHxS	Ave	81894181	79465011		45.9	47.3	-3.0	50.0
13C4-PFHpA	Ave	47945035	47747580		49.8	50.0	-0.4	50.0
13C4 PFOA	Ave	42071693	39649540		47.1	50.0	-5.8	50.0
13C4 PFOS	Ave	80887895	74998410		44.3	47.8	-7.3	50.0
13C5 PFNA	Ave	32251818	30228320		46.9	50.0	-6.3	50.0
13C8 FOSA	Ave	127070350	96617140		38.0	50.0	-24.0	50.0
13C2 PFDA	Ave	26307035	25608400		48.7	50.0	-2.7	50.0
13C2 PFUnA	Ave	22586708	20754540		45.9	50.0	-8.1	50.0
13C2 PFDoA	Ave	23110783	22393360		48.5	50.0	-3.1	50.0
13C2-PFTeDA	Ave	29586738	21163900		35.8	50.0	-28.5	50.0
13C2-PFHxDA	Ave	32835323	6762760		10.3	50.0	-79.4*	50.0

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_022.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 21-Nov-2017 06:35:01 ALS Bottle#: 22 Worklist Smp#: 23
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Sublist: chrom-A7_N*sub22
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last Ical File: \\ChromNa\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 22-Nov-2017 09:47:16

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.826	5.873	-0.047		4574066	0.0500		99.9	49289	
1 Perfluorobutyric acid										
212.90 > 169.00	5.835	5.876	-0.041	1.000	1752635	0.0153		76.6	91.4	
3 Perfluoropentanoic acid										
262.90 > 219.00	6.506	6.513	-0.007	1.000	1603825	0.0196		97.8	1069	
D 4 13C5-PFPeA										
267.90 > 223.00	6.506	6.513	-0.007		3801958	0.0499		99.9	37952	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.566	6.569	-0.003	1.000	2650000	0.0186		105	5476	
D 6 13C2 PFHxA										
315.00 > 270.00	7.015	7.019	-0.004		2990139	0.0478		95.6	37889	
7 Perfluorohexanoic acid										
313.00 > 269.00	7.015	7.019	-0.004	1.000	1260458	0.0207		104	3501	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.533	7.552	-0.019	1.000	1659501	0.0180		98.7	8037	
D 10 18O2 PFHxS										
403.00 > 84.00	7.533	7.555	-0.022		3758695	0.0459		97.0	33052	
D 11 13C4-PFHpA										
367.00 > 322.00	7.545	7.561	-0.016		2387379	0.0498		99.6	24657	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.545	7.561	-0.016	1.000	1004410	0.0203		102	1848	
13 Perfluoroheptanesulfonic Acid										
449.00 > 80.00	8.102	8.132	-0.030	1.000	1616782	0.0199		104	9215	
D 14 13C4 PFOA										
417.00 > 372.00	8.123	8.150	-0.027		1982477	0.0471		94.2	29524	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
15 Perfluorooctanoic acid										
413.00 > 369.00	8.123	8.152	-0.029	1.000	930281	0.0204		102	1634	
413.00 > 169.00	8.123	8.152	-0.029	1.000	882510		1.05(0.90-1.10)		9612	
D 17 13C4 PFOS										
503.00 > 80.00	8.689	8.734	-0.045		3584924	0.0443		92.7	19318	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.689	8.738	-0.049	1.000	1576682	0.0187		101	1050	
499.00 > 99.00	8.689	8.738	-0.049	1.000	365351		4.32(0.90-1.10)		1406	
D 19 13C5 PFNA										
468.00 > 423.00	8.722	8.770	-0.048		1511416	0.0469		93.7	21225	
20 Perfluorononanoic acid										
463.00 > 419.00	8.722	8.771	-0.049	1.000	631172	0.0207		104	2305	
22 Perfluorooctane Sulfonamide										
498.00 > 78.00	9.251	9.262	-0.011	1.000	1974377	0.0202		101	14165	
D 21 13C8 FOSA										
506.00 > 78.00	9.251	9.262	-0.011		4830857	0.0380		76.0	27665	
24 Perfluorodecanoic acid										
513.00 > 469.00	9.318	9.387	-0.069	1.000	529869	0.0203		101	2639	
D 23 13C2 PFDA										
515.00 > 470.00	9.318	9.387	-0.069		1280420	0.0487		97.3	18528	
26 Perfluorodecane Sulfonic acid										
599.00 > 80.00	9.833	9.920	-0.087	1.000	1006040	0.0212		110	7143	
28 Perfluoroundecanoic acid										
563.00 > 519.00	9.878	9.971	-0.093	1.000	464006	0.0207		104	2123	
D 27 13C2 PFUnA										
565.00 > 520.00	9.878	9.971	-0.093		1037727	0.0459		91.9	13561	
D 30 13C2 PFDoA										
615.00 > 570.00	10.404	10.522	-0.118		1119668	0.0484		96.9	11294	
29 Perfluorododecanoic acid										
613.00 > 569.00	10.404	10.523	-0.119	1.000	483822	0.0206		103	1806	
31 Perfluorotridecanoic acid										
663.00 > 619.00	10.908	11.037	-0.129	1.000	409345	0.0167		83.6	1355	
D 32 13C2-PFTeDA										
715.00 > 670.00	11.370	11.531	-0.161		1058195	0.0358		71.5	6617	
33 Perfluorotetradecanoic acid										
713.00 > 669.00	11.370	11.532	-0.162	1.000	395028	0.0152		75.9	822	
D 34 13C2-PFHxDA										
815.00 > 770.00	12.257	12.482	-0.225		338138	0.0103		20.6	2515	
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.257	12.485	-0.228	1.000	132941	0.004063		20.3	314	

Reagents:

LCPFC-LL-L5_00012

Amount Added: 1.00

Units: mL

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_022.d

Injection Date: 21-Nov-2017 06:35:01

Instrument ID: A7_N

Lims ID: CCV L5

Client ID:

Operator ID: abservice

ALS Bottle#: 22

Worklist Smp#: 23

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

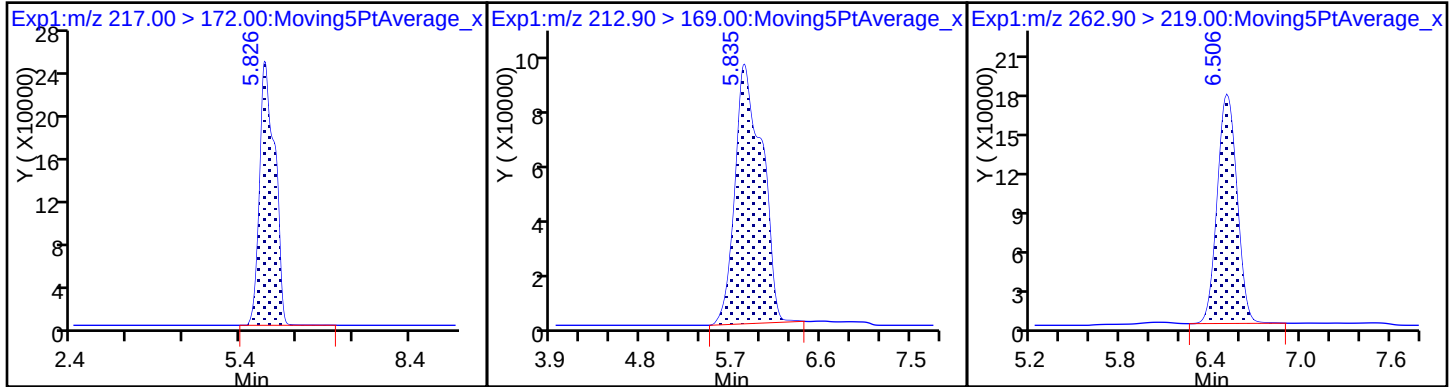
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid

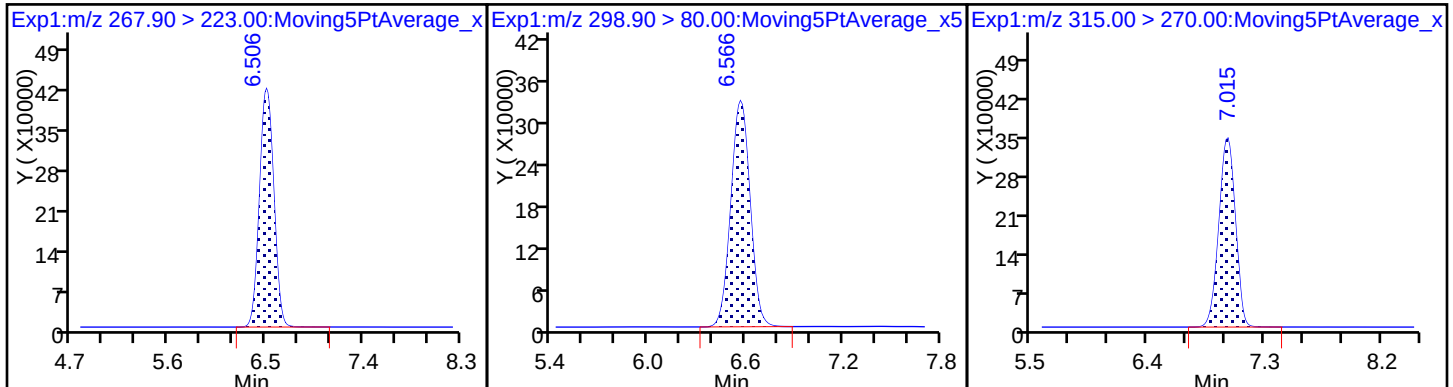
3 Perfluoropentanoic acid



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

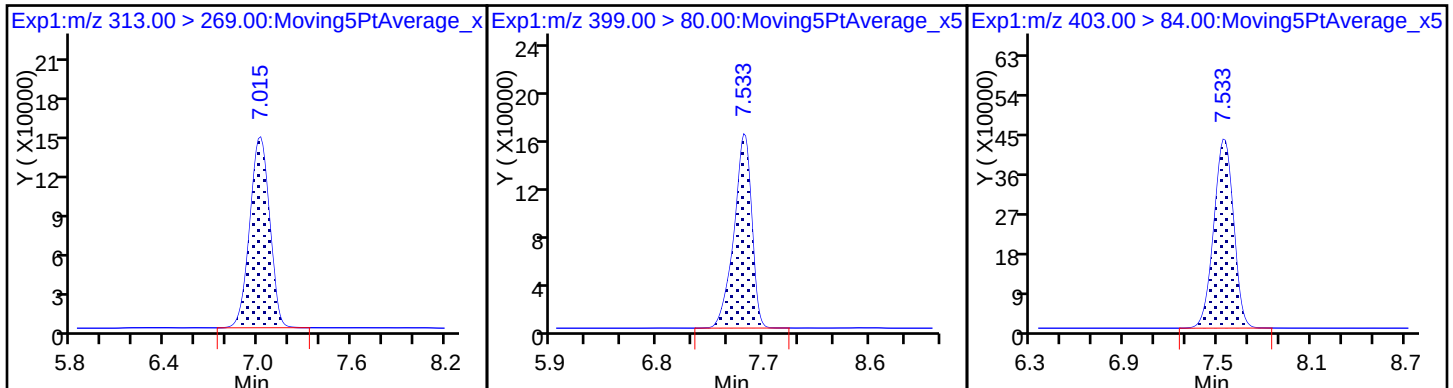
D 6 13C2 PFHxA



7 Perfluorohexanoic acid

9 Perfluorohexanesulfonic acid

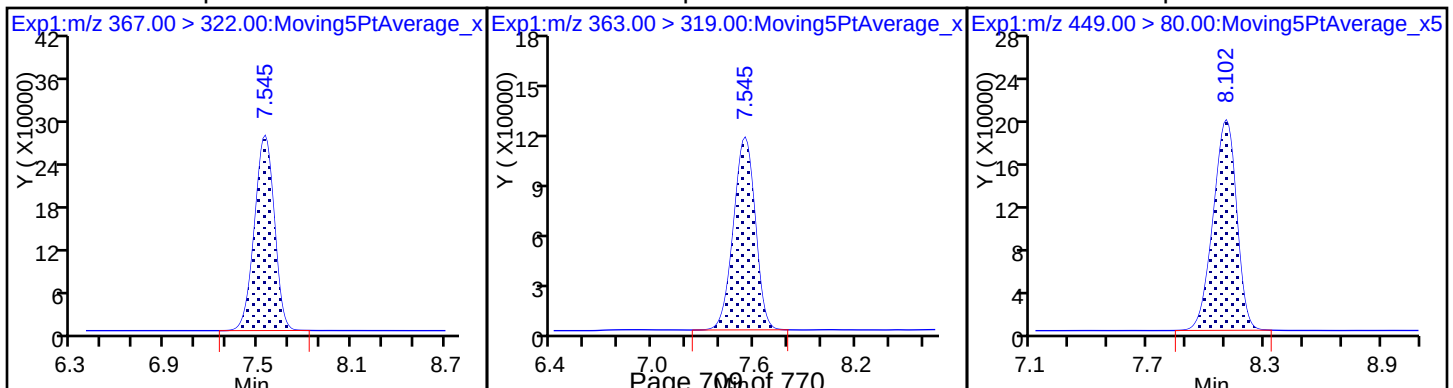
D 10 18O2 PFHxS



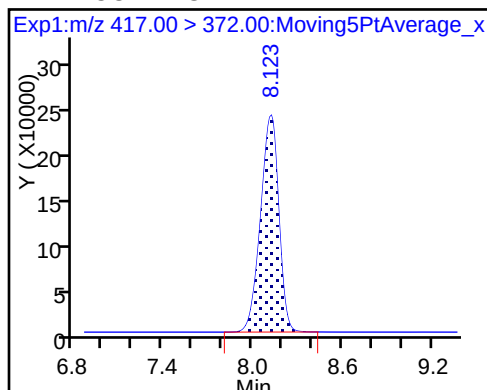
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

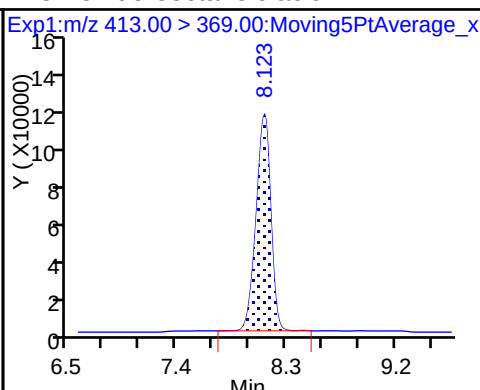
13 Perfluoroheptanesulfonic Acid



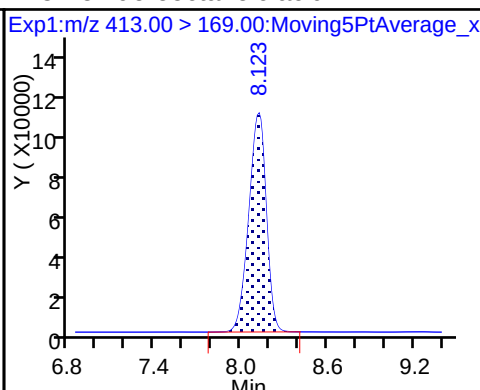
D 14 13C4 PFOA



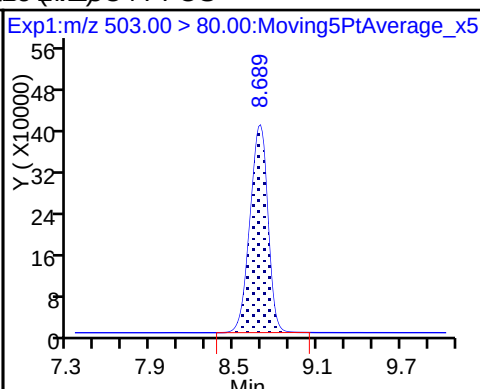
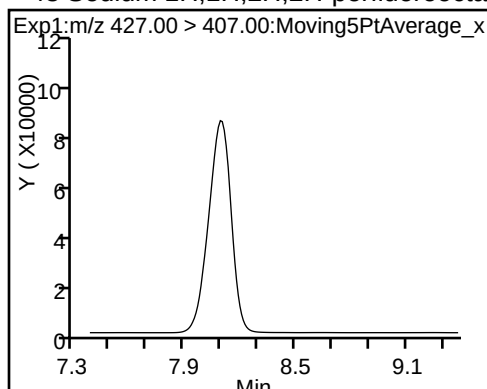
15 Perfluorooctanoic acid



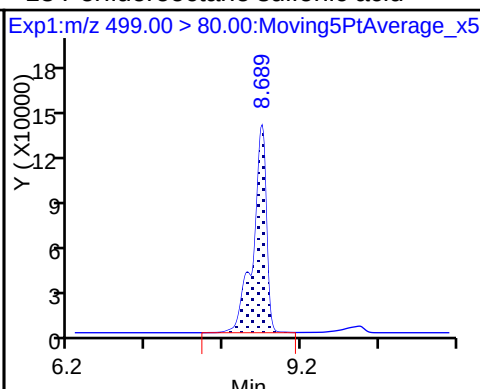
15 Perfluorooctanoic acid



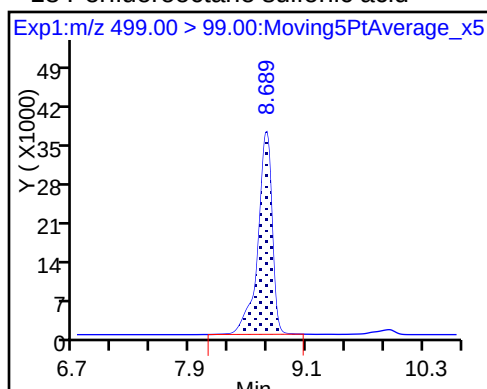
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (PFOS)



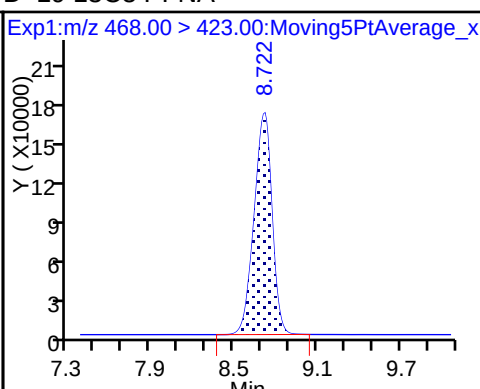
18 Perfluorooctane sulfonic acid



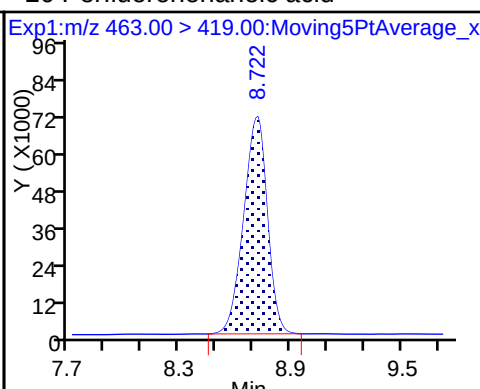
18 Perfluorooctane sulfonic acid



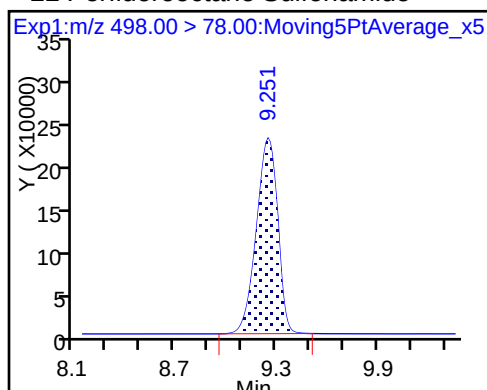
D 19 13C5 PFNA



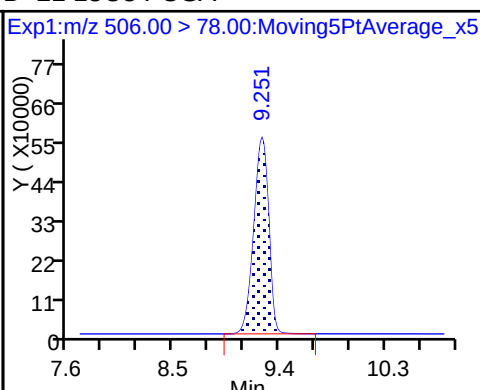
20 Perfluorononanoic acid



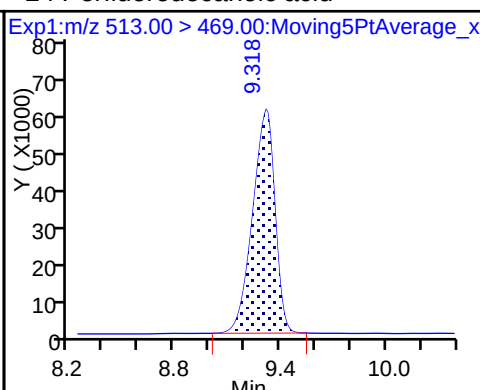
22 Perfluorooctane Sulfonamide



D 21 13C8 FOSA



24 Perfluorodecanoic acid

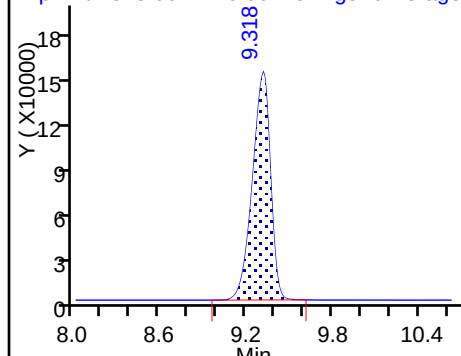


D 23 13C2 PFDA

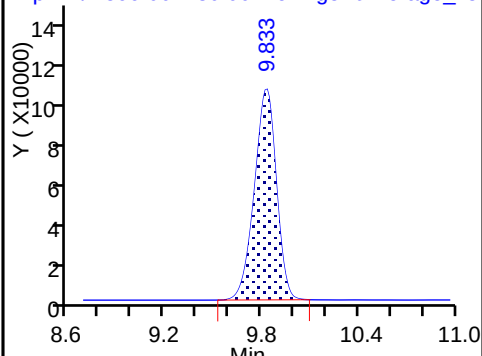
26 Perfluorodecane Sulfonic acid

28 Perfluoroundecanoic acid

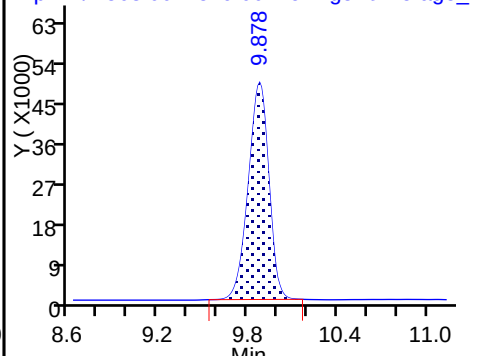
Exp1:m/z 515.00 > 470.00:Moving5PtAverage_x



Exp1:m/z 599.00 > 80.00:Moving5PtAverage_x5



Exp1:m/z 563.00 > 519.00:Moving5PtAverage_x

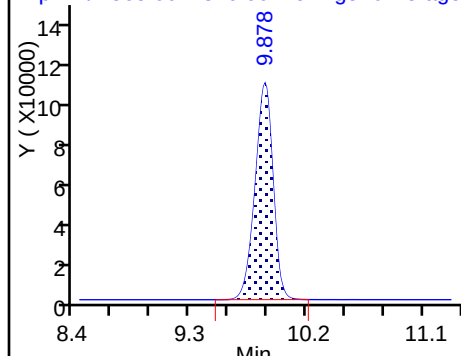


D 27 13C2 PFUnA

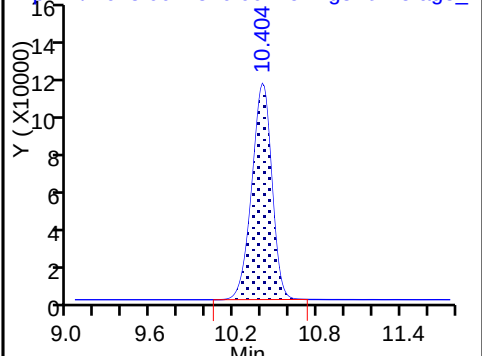
D 30 13C2 PFDaA

29 Perfluorododecanoic acid

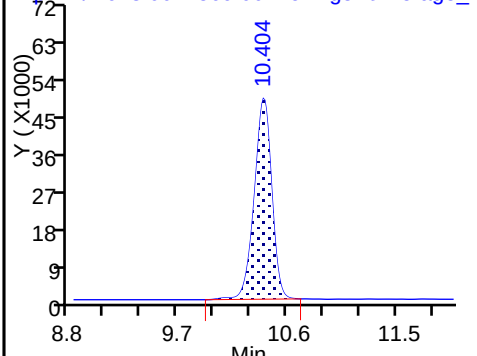
Exp1:m/z 565.00 > 520.00:Moving5PtAverage_x



Exp1:m/z 615.00 > 570.00:Moving5PtAverage_x



Exp1:m/z 613.00 > 569.00:Moving5PtAverage_x

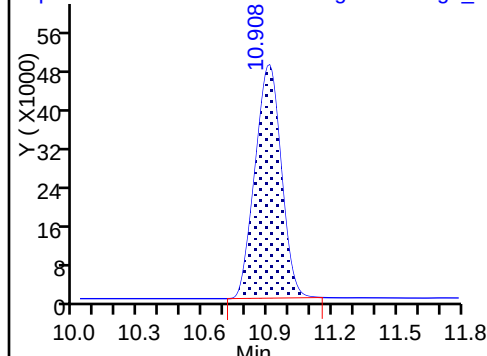


31 Perfluorotridecanoic acid

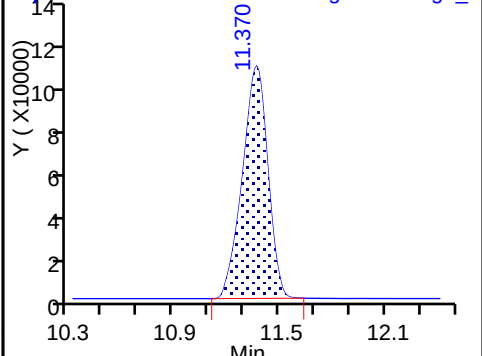
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid

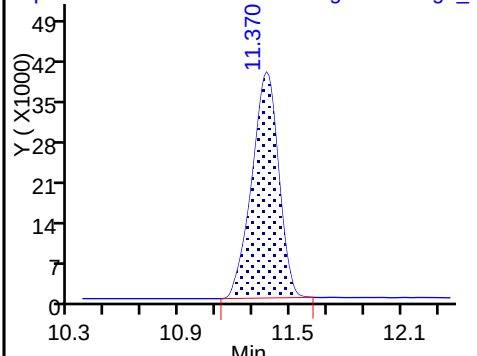
Exp1:m/z 663.00 > 619.00:Moving5PtAverage_x



Exp1:m/z 715.00 > 670.00:Moving5PtAverage_x



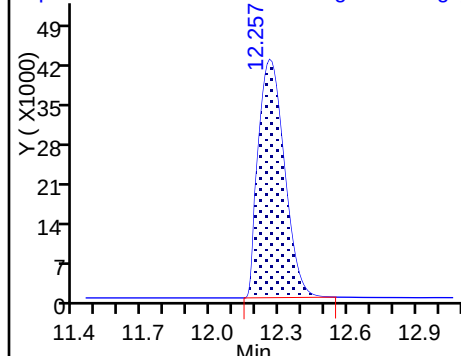
Exp1:m/z 713.00 > 669.00:Moving5PtAverage_x



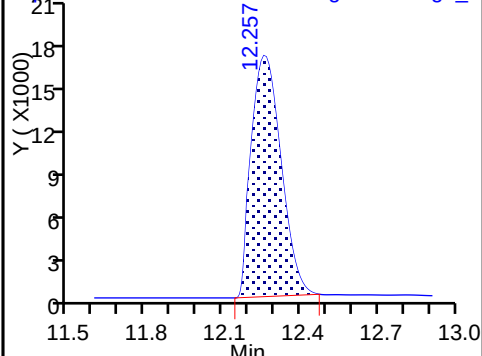
D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid

Exp1:m/z 815.00 > 770.00:Moving5PtAverage_x



Exp1:m/z 813.00 > 769.00:Moving5PtAverage_x



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>MB 320-195744/1-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_001.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: _____
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 00:09</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	2.00	U	2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.00	U	2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.00	U	2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	2.00	U	2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	2.00	U	2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	2.00	U	2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	105		25-150
STL01892	13C4-PFHpA	106		25-150
STL00990	13C4 PFOA	102		25-150
STL00991	13C4 PFOS	103		25-150
STL00995	13C5 PFNA	102		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_001.d
 Lims ID: MB 320-195744/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Nov-2017 00:09:39 ALS Bottle#: 1 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: mb 320-195744/1-a
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d
 Column 1 : Det: EXP1
 Process Host: XAWRK018

First Level Reviewer: westendorfc

Date: 22-Nov-2017 09:40:09

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA	217.00 > 172.00	5.937	5.873	0.064	5153765	0.0563		113	114196	
D 4 13C5-PFPeA	267.90 > 223.00	6.536	6.513	0.023	4193876	0.0551		110	51448	
D 6 13C2 PFHxA	315.00 > 270.00	7.028	7.019	0.009	3243183	0.0518		104	40672	
D 10 18O2 PFHxS	403.00 > 84.00	7.558	7.555	0.003	4063144	0.0496		105	39995	
D 11 13C4-PFHpA	367.00 > 322.00	7.558	7.561	-0.003	2546883	0.0531		106	27428	
D 14 13C4 PFOA	417.00 > 372.00	8.143	8.150	-0.007	2144036	0.0510		102	26111	
D 17 13C4 PFOS	503.00 > 80.00	8.712	8.734	-0.022	3972577	0.0491		103	18622	
D 19 13C5 PFNA	468.00 > 423.00	8.741	8.770	-0.029	1638677	0.0508		102	20999	
D 21 13C8 FOSA	506.00 > 78.00	9.275	9.262	0.013	5370370	0.0423		84.5	30048	
D 23 13C2 PFDA	515.00 > 470.00	9.343	9.387	-0.044	1400248	0.0532		106	18101	
D 27 13C2 PFUnA	565.00 > 520.00	9.901	9.971	-0.070	1143757	0.0506		101	13668	
D 30 13C2 PFDaA	615.00 > 570.00	10.427	10.522	-0.095	1248371	0.0540		108	11529	
D 32 13C2-PFTeDA	715.00 > 670.00	11.392	11.531	-0.139	1223458	0.0414		82.7	6412	
D 34 13C2-PFHxDA	815.00 > 770.00	12.285	12.482	-0.197	1013157	0.0309		61.7	4583	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
35 Perfluorohexadecanoic acid										
813.00 > 769.00	12.285	12.485	-0.200	1.000	2147	-0.000388			5.5	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_001.d

Injection Date: 21-Nov-2017 00:09:39

Instrument ID: A7_N

Lims ID: MB 320-195744/1-A

Client ID:

Operator ID: abservice

ALS Bottle#: 1

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

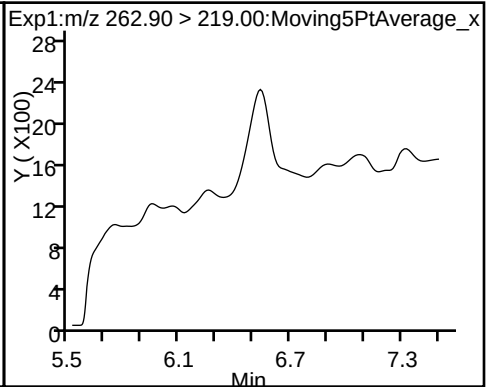
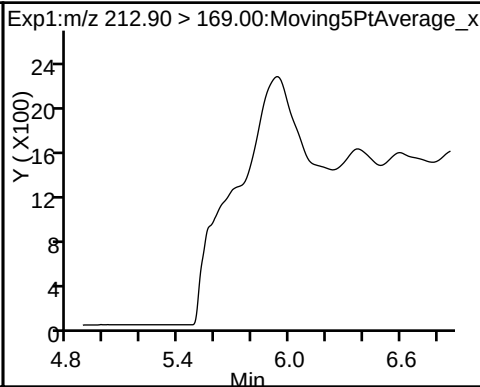
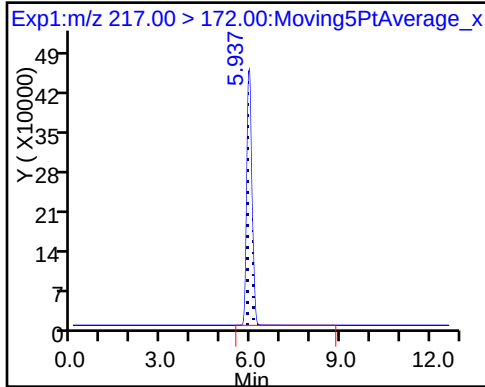
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid (ND)

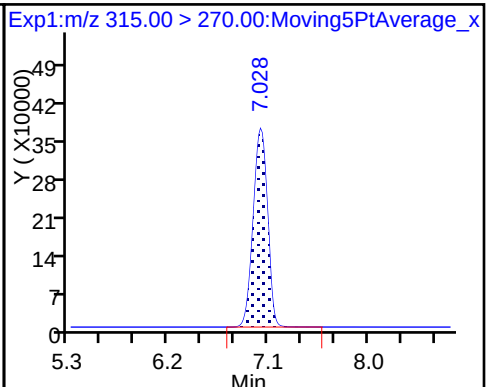
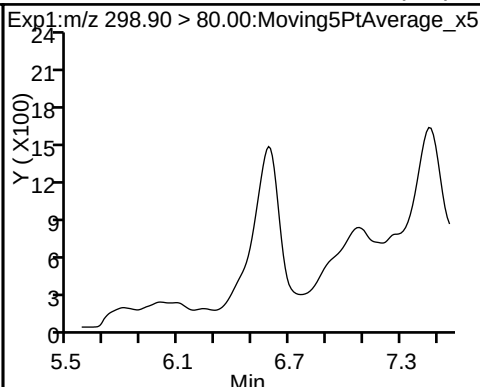
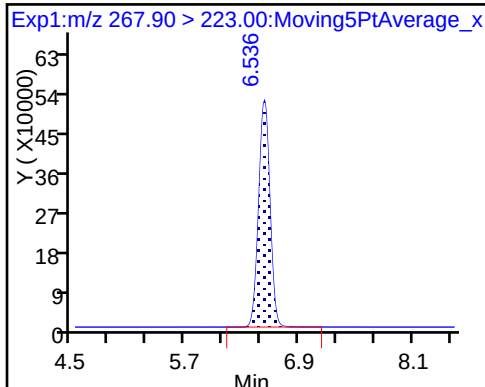
3 Perfluoropentanoic acid (ND)



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid (ND)

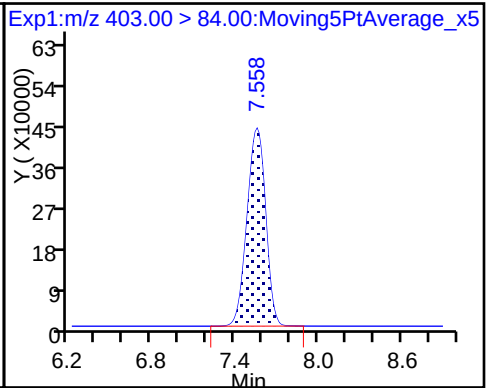
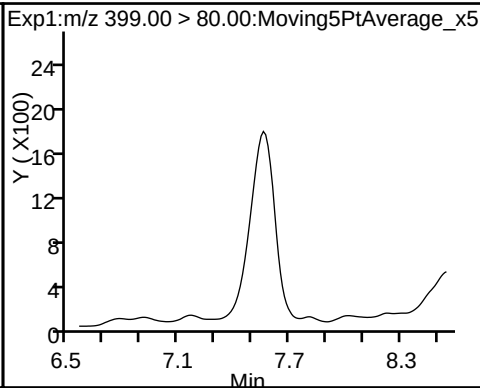
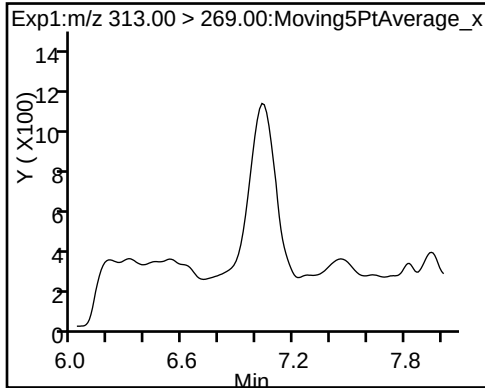
D 6 13C2 PFHxA



7 Perfluorohexanoic acid (ND)

9 Perfluorohexanesulfonic acid (ND)

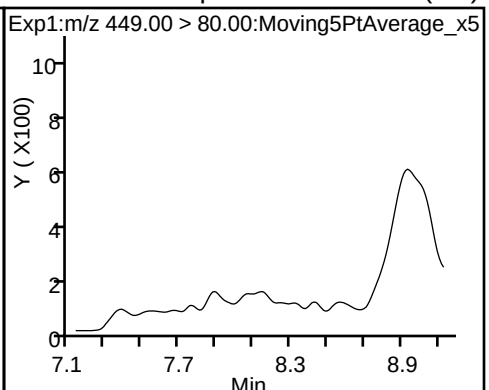
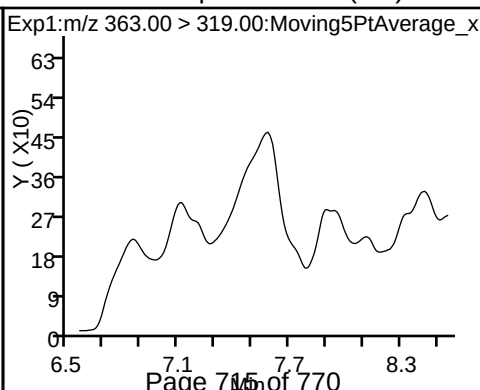
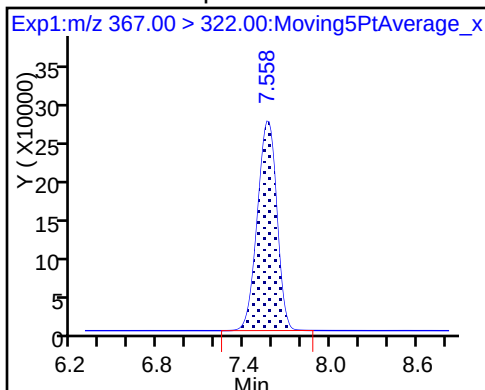
D 10 18O2 PFHxS



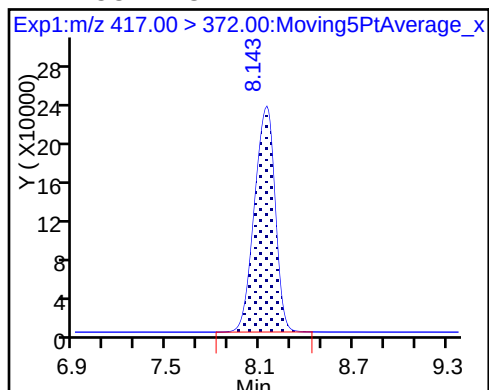
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid (ND)

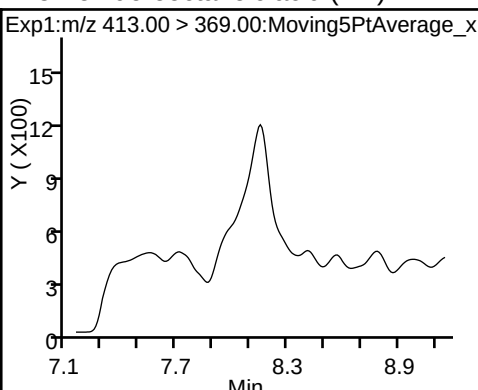
13 Perfluoroheptanesulfonic Acid (ND)



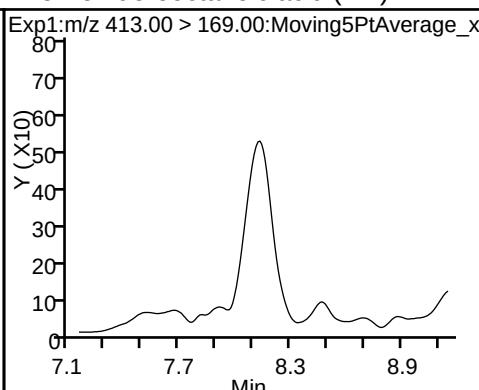
D 14 13C4 PFOA



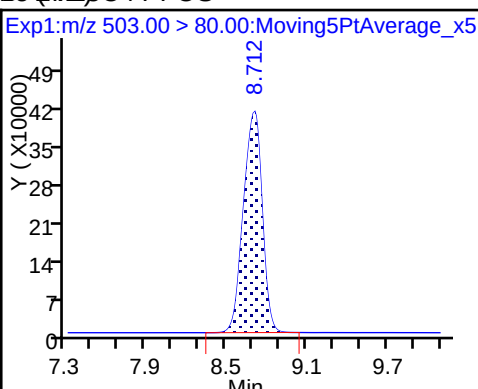
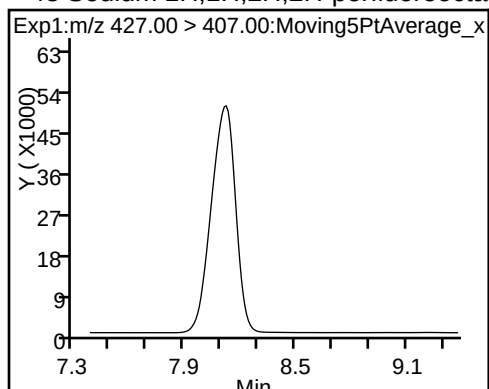
15 Perfluorooctanoic acid (ND)



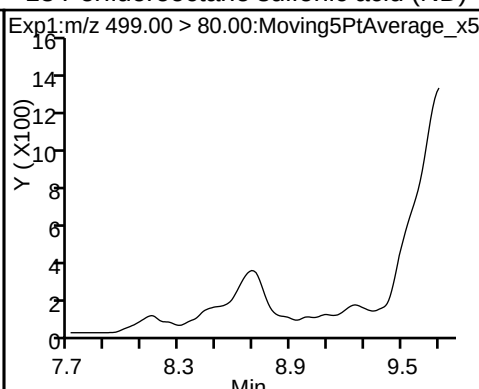
15 Perfluorooctanoic acid (ND)



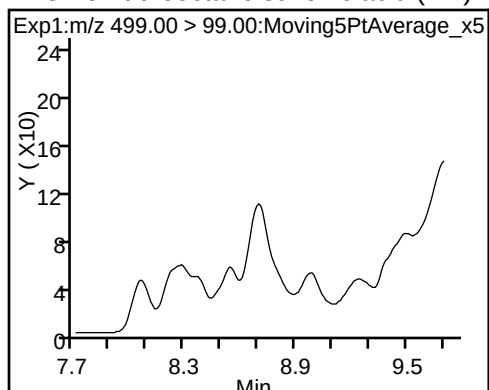
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (ND) D 15 13C4 PFOS



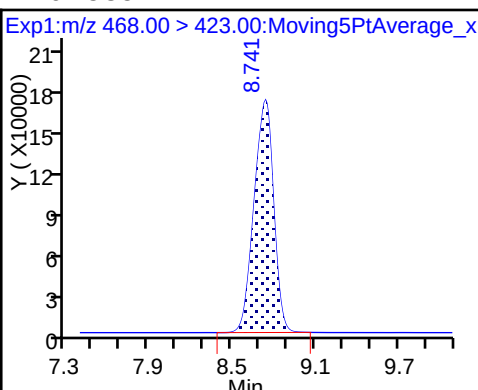
18 Perfluorooctane sulfonic acid (ND)



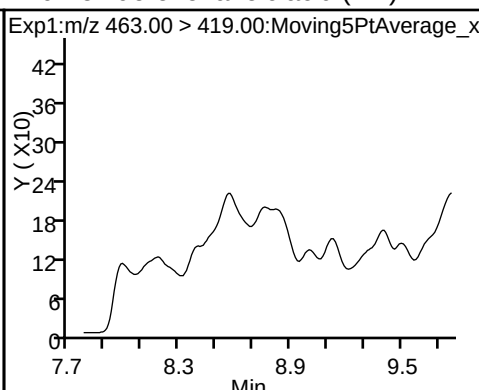
18 Perfluorooctane sulfonic acid (ND)



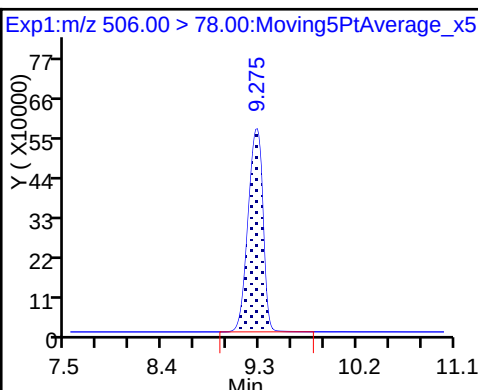
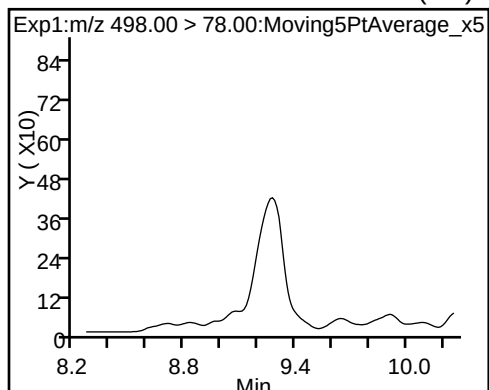
D 19 13C5 PFNA



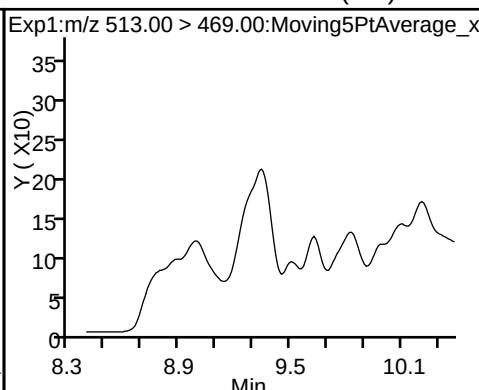
20 Perfluorononanoic acid (ND)



22 Perfluorooctane Sulfonamide (ND) D 21 13C8 FOSA



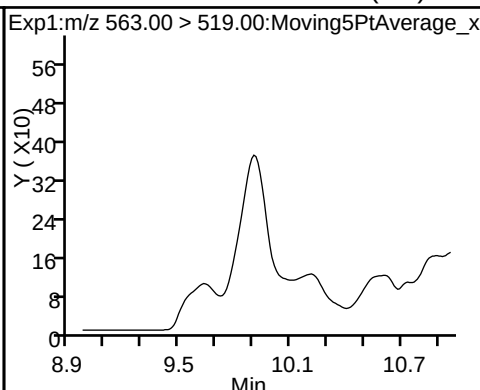
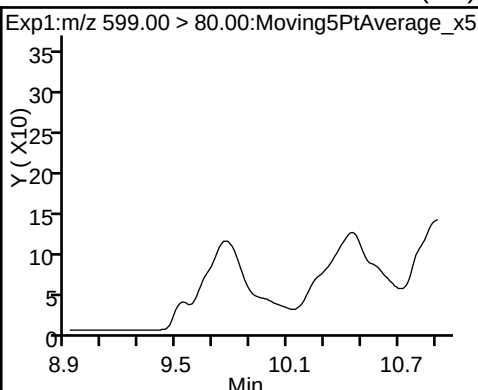
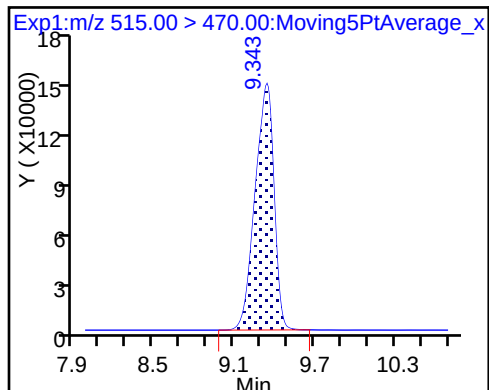
24 Perfluorodecanoic acid (ND)



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid (ND)

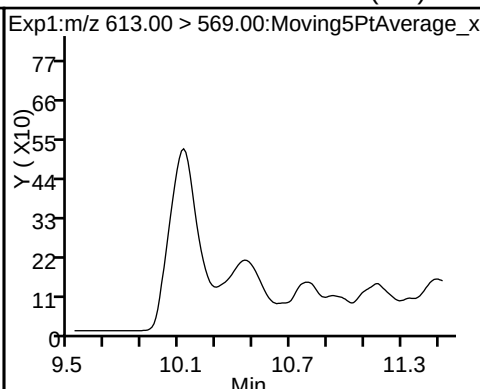
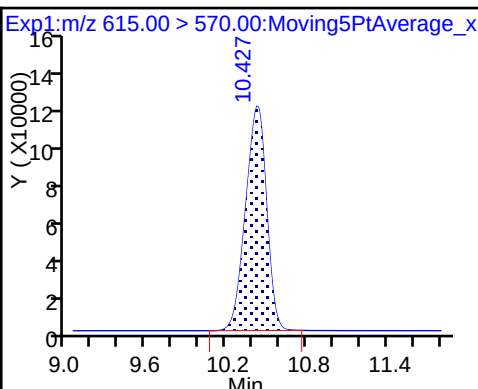
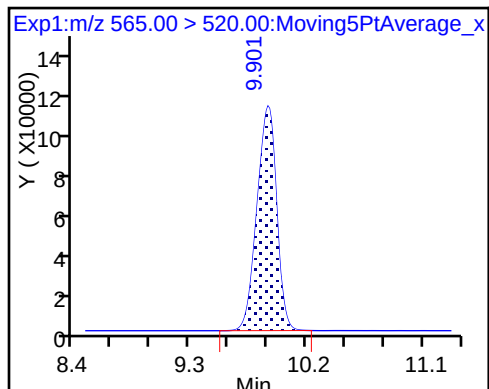
28 Perfluoroundecanoic acid (ND)



D 27 13C2 PFUnA

D 30 13C2 PFDaA

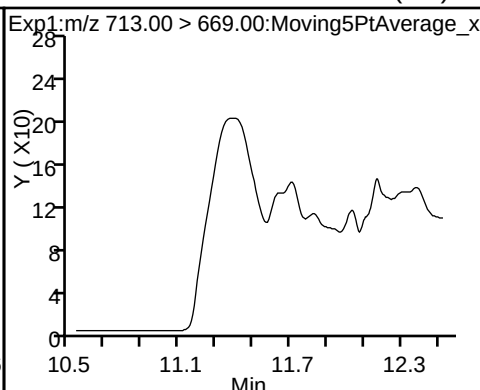
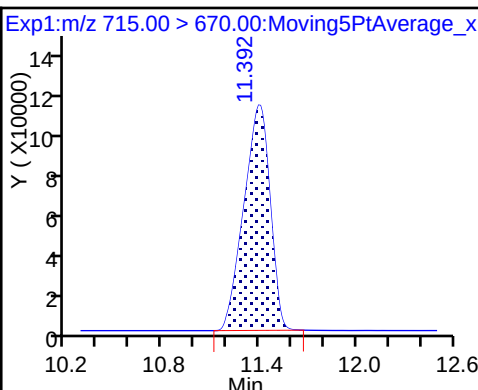
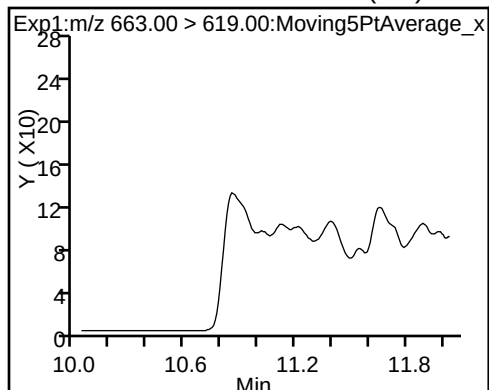
29 Perfluorododecanoic acid (ND)



31 Perfluorotridecanoic acid (ND)

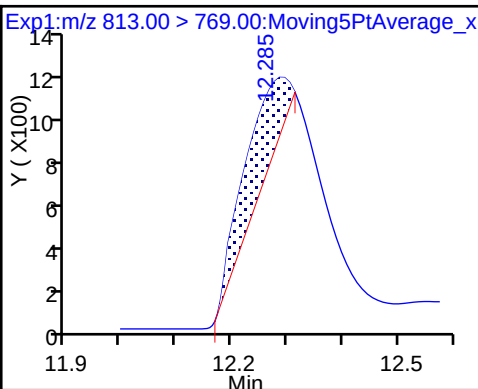
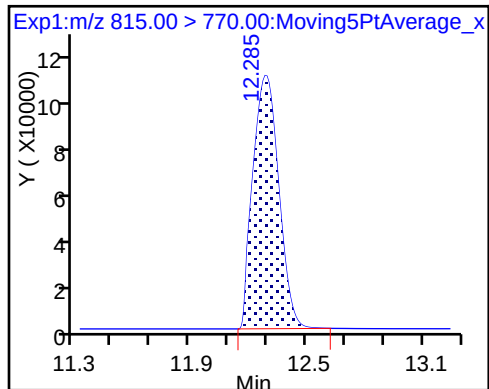
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid (ND)



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: _____	Lab Sample ID: <u>LCS 320-195744/2-A</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_002.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: _____
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 00:28</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	17.01		2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	17.26		2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	19.64		2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	18.94		2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	16.91		2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	19.85		2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	97		25-150
STL01892	13C4-PFHpA	99		25-150
STL00990	13C4 PFOA	93		25-150
STL00991	13C4 PFOS	95		25-150
STL00995	13C5 PFNA	92		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_002.d
 Lims ID: LCS 320-195744/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Nov-2017 00:28:00 ALS Bottle#: 2 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: lcs 320-195744/2-a
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.852	5.873	-0.021		4584216	0.0501		100	53496	
D 4 13C5-PFPeA										
267.90 > 223.00	6.516	6.513	0.003		3897379	0.0512		102	38886	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.576	6.569	0.007	1.000	1455366	0.0102		96.2	2708	
D 6 13C2 PFHxA										
315.00 > 270.00	7.016	7.019	-0.003		3062776	0.0490		97.9	37724	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.545	7.552	-0.007	1.000	959721	0.0104		94.8	4500	
D 10 18O2 PFHxS										
403.00 > 84.00	7.545	7.555	-0.010		3755920	0.0459		97.0	29455	
D 11 13C4-PFHpA										
367.00 > 322.00	7.545	7.561	-0.016		2378471	0.0496		99.2	25778	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.545	7.561	-0.016	1.000	582788	0.0118		98.2	1862	
D 14 13C4 PFOA										
417.00 > 372.00	8.123	8.150	-0.027		1952178	0.0464		92.8	24454	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.123	8.152	-0.029	1.000	511824	0.0114		94.7	1308	
413.00 > 169.00	8.123	8.152	-0.029	1.000	487620		1.05(0.90-1.10)		5534	
D 17 13C4 PFOS										
503.00 > 80.00	8.700	8.734	-0.034		3668444	0.0454		94.9	16919	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.700	8.738	-0.038	1.000	878537	0.0102		91.1	567	
499.00 > 99.00	8.700	8.738	-0.038	1.000	199114		4.41(0.90-1.10)		685	
D 19 13C5 PFNA										
468.00 > 423.00	8.731	8.770	-0.039		1486500	0.0461		92.2	19429	
20 Perfluorononanoic acid										
463.00 > 419.00	8.731	8.771	-0.040	1.000	358150	0.0120		99.3	1728	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA	506.00 > 78.00	9.263	9.262	0.001	4920760	0.0387		77.4	26716	
D 23 13C2 PFDA	515.00 > 470.00	9.327	9.387	-0.060	1258389	0.0478		95.7	17017	
D 27 13C2 PFUnA	565.00 > 520.00	9.889	9.971	-0.082	1053758	0.0467		93.3	14965	
D 30 13C2 PFDaA	615.00 > 570.00	10.416	10.522	-0.106	1144101	0.0495		99.0	12045	
D 32 13C2-PFTeDA	715.00 > 670.00	11.383	11.531	-0.148	1123006	0.0380		75.9	6525	
D 34 13C2-PFHxDA	815.00 > 770.00	12.278	12.482	-0.204	858817	0.0262		52.3	4911	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_002.d

Injection Date: 21-Nov-2017 00:28:00

Instrument ID: A7_N

Lims ID: LCS 320-195744/2-A

Client ID:

Operator ID: abservice

ALS Bottle#: 2

Worklist Smp#: 3

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

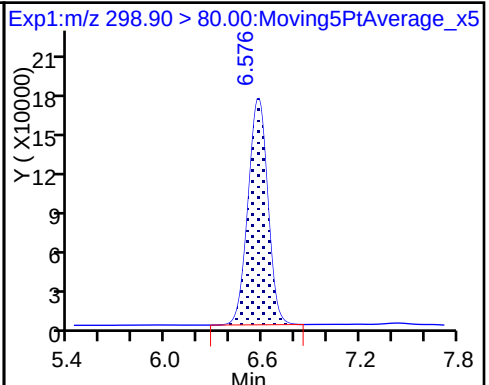
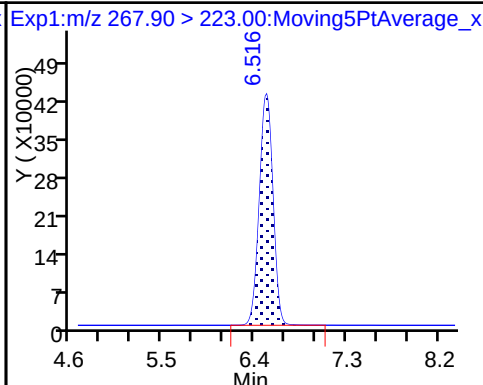
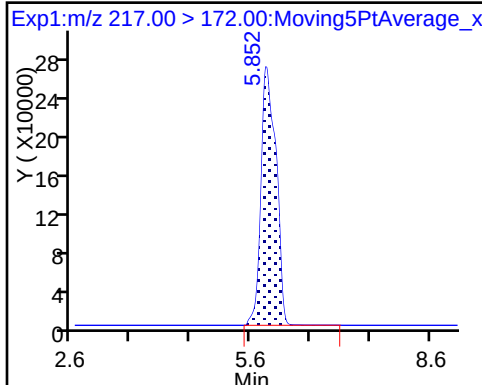
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

D 4 13C5-PFPeA

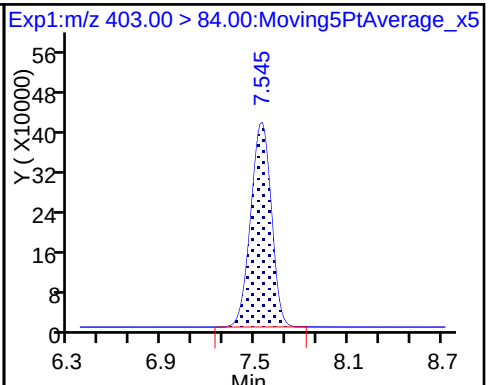
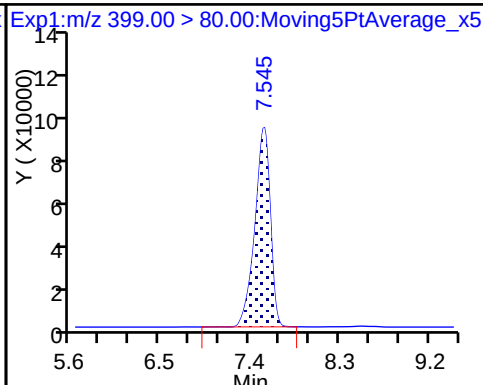
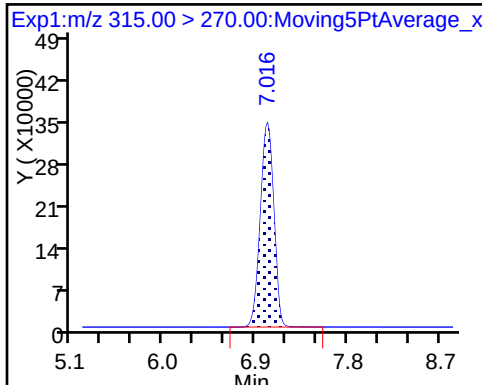
5 Perfluorobutanesulfonic acid



D 6 13C2 PFHxA

9 Perfluorohexanesulfonic acid

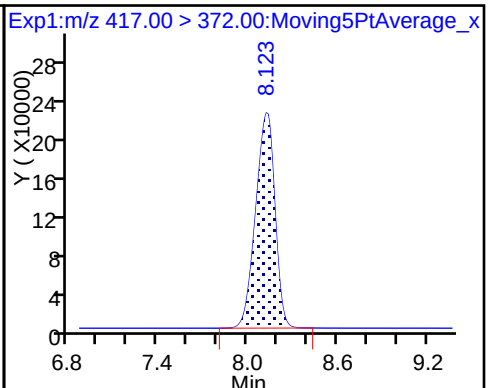
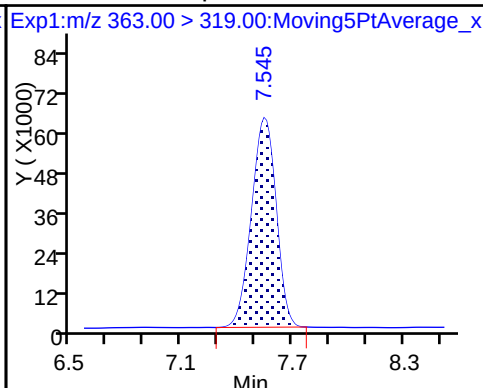
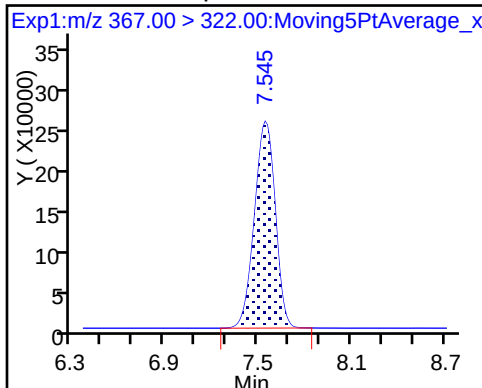
D 10 18O2 PFHxS



D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

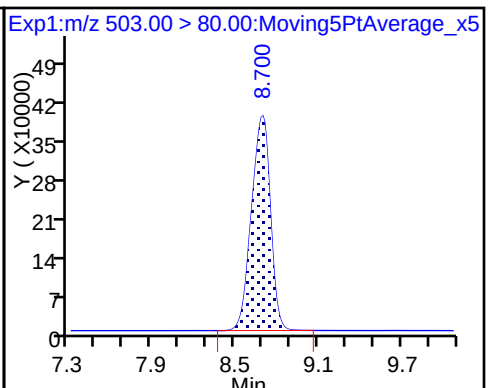
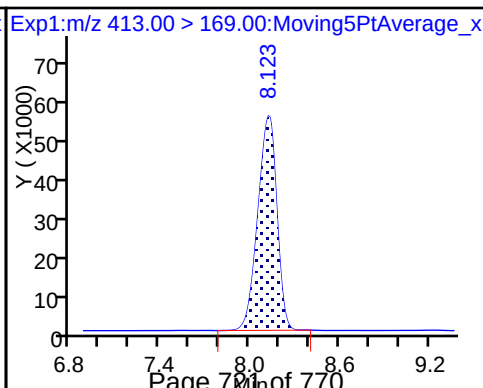
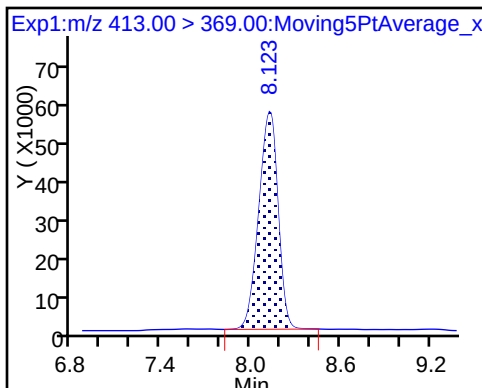
D 14 13C4 PFOA



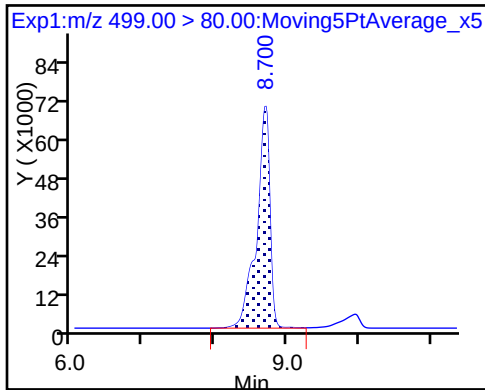
15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

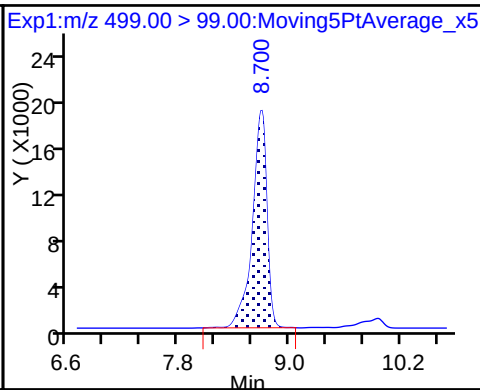
D 17 13C4 PFOS



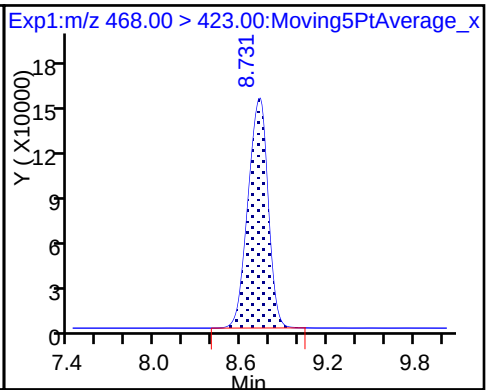
18 Perfluorooctane sulfonic acid



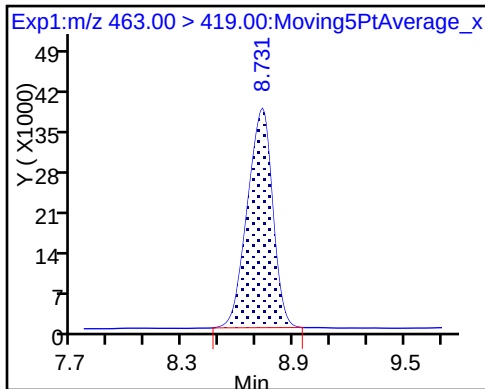
18 Perfluorooctane sulfonic acid



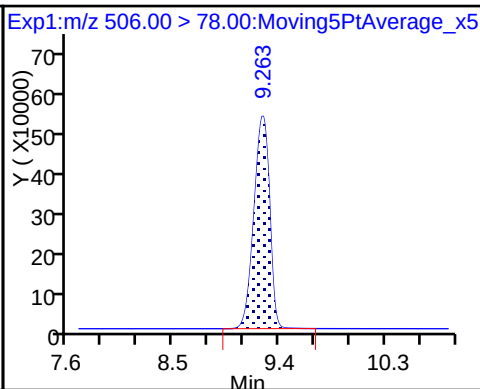
D 19 13C5 PFNA



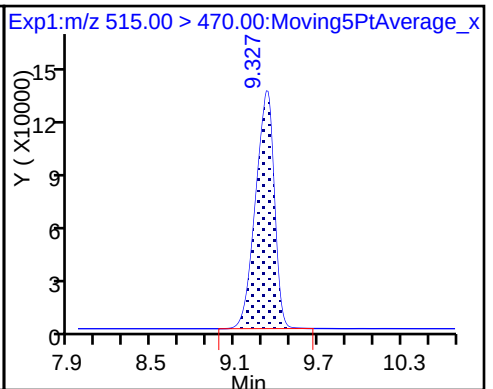
20 Perfluorononanoic acid



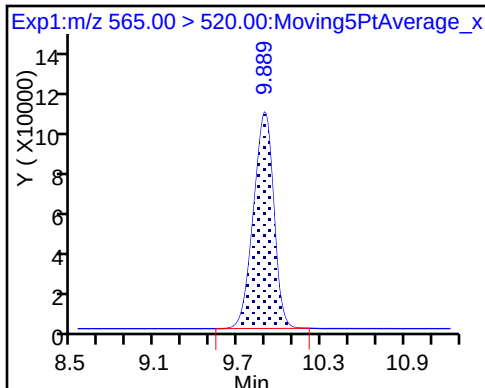
D 21 13C8 FOSA



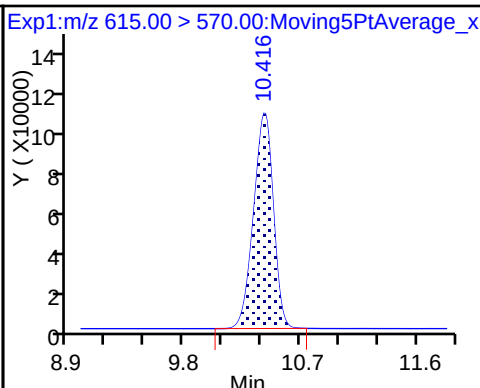
D 23 13C2 PFDA



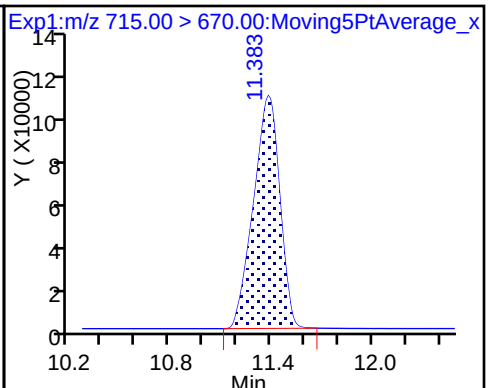
D 27 13C2 PFUnA



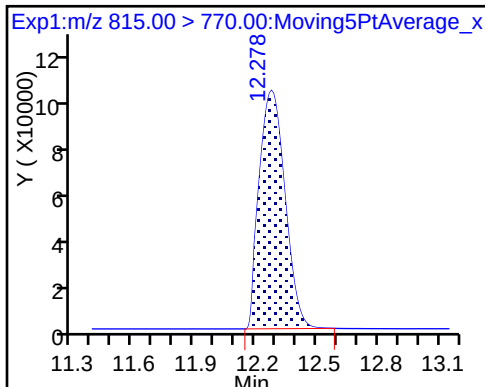
D 30 13C2 PFDaA



D 32 13C2-PFTeDA



D 34 13C2-PFHxDA



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1S MS</u>	Lab Sample ID: <u>460-144244-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_005.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 01:23</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	16.18		2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	15.45		2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	17.98		2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	17.00		2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	14.99		2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	17.34		2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	98		25-150
STL01892	13C4-PFHpA	100		25-150
STL00990	13C4 PFOA	97		25-150
STL00991	13C4 PFOS	96		25-150
STL00995	13C5 PFNA	97		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_005.d
 Lims ID: 460-144244-A-1-E MS
 Client ID: MW-1S
 Sample Type: MS
 Inject. Date: 21-Nov-2017 01:23:04 ALS Bottle#: 5 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-1-e ms
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1

Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA										
217.00 > 172.00	5.997	5.873	0.124		3330276	0.0364		72.7	31933	
D 4 13C5-PFPeA										
267.90 > 223.00	6.516	6.513	0.003		3948428	0.0519		104	26935	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	6.566	6.569	-0.003	1.000	1406097	0.009750		100	1517	
D 6 13C2 PFHxA										
315.00 > 270.00	7.016	7.019	-0.003		3161838	0.0505		101	35849	
9 Perfluorohexanesulfonic acid										
399.00 > 80.00	7.545	7.552	-0.007	1.000	872082	0.009307		93.0	3149	
D 10 18O2 PFHxS										
403.00 > 84.00	7.545	7.555	-0.010		3813497	0.0466		98.4	35481	
D 11 13C4-PFHpA										
367.00 > 322.00	7.545	7.561	-0.016		2386362	0.0498		99.5	21837	
12 Perfluoroheptanoic acid										
363.00 > 319.00	7.545	7.561	-0.016	1.000	535230	0.0108		98.5	864	
D 14 13C4 PFOA										
417.00 > 372.00	8.134	8.150	-0.016		2037225	0.0484		96.8	27078	
15 Perfluorooctanoic acid										
413.00 > 369.00	8.134	8.152	-0.018	1.000	479449	0.0102		93.2	1592	
413.00 > 169.00	8.134	8.152	-0.018	1.000	472215		1.02(0.90-1.10)		6273	
D 17 13C4 PFOS										
503.00 > 80.00	8.700	8.734	-0.034		3727426	0.0461		96.4	21657	
18 Perfluorooctane sulfonic acid										
499.00 > 80.00	8.700	8.738	-0.038	1.000	791514	0.009033		88.5	591	
499.00 > 99.00	8.700	8.738	-0.038	1.000	184614		4.29(0.90-1.10)		714	
D 19 13C5 PFNA										
468.00 > 423.00	8.731	8.770	-0.039		1561720	0.0484		96.8	26043	
20 Perfluorononanoic acid										
463.00 > 419.00	8.731	8.771	-0.040	1.000	328709	0.0104		95.0	1123	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA	506.00 > 78.00	9.263	9.262	0.001	4894486	0.0385		77.0	28529	
D 23 13C2 PFDA	515.00 > 470.00	9.327	9.387	-0.060	1306978	0.0497		99.4	17677	
D 27 13C2 PFUnA	565.00 > 520.00	9.889	9.971	-0.082	1044080	0.0462		92.5	14351	
D 30 13C2 PFDaA	615.00 > 570.00	10.427	10.522	-0.095	1136092	0.0492		98.3	10946	
D 32 13C2-PFTeDA	715.00 > 670.00	11.392	11.531	-0.139	1028695	0.0348		69.5	6245	
D 34 13C2-PFHxDA	815.00 > 770.00	12.277	12.482	-0.205	680713	0.0207		41.5	4447	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_005.d

Injection Date: 21-Nov-2017 01:23:04

Instrument ID: A7_N

Lims ID: 460-144244-A-1-E MS

Client ID: MW-1S

Operator ID: abservice

ALS Bottle#: 5

Worklist Smp#: 6

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

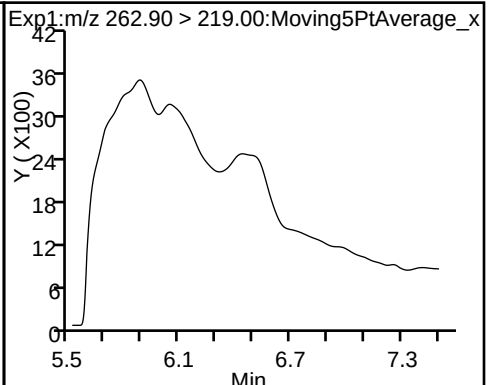
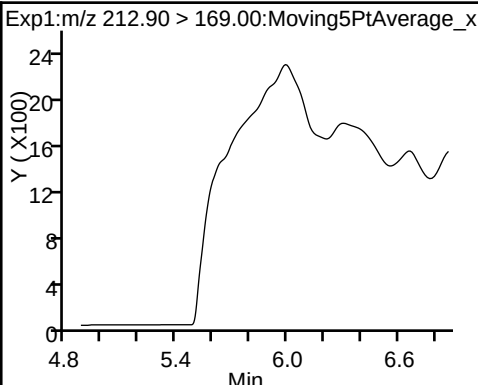
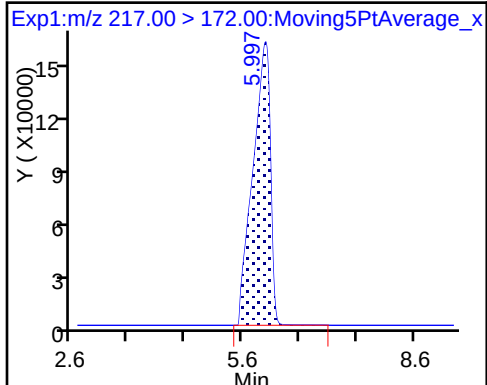
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid (ND)

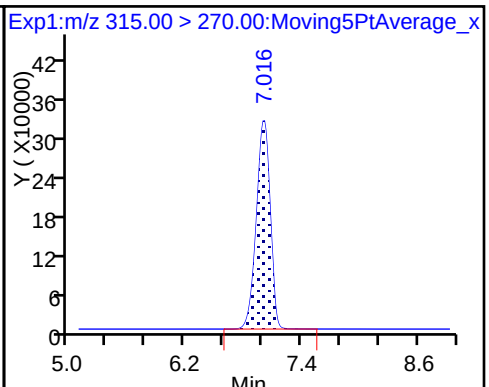
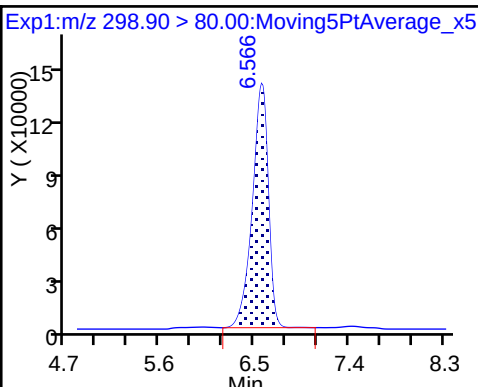
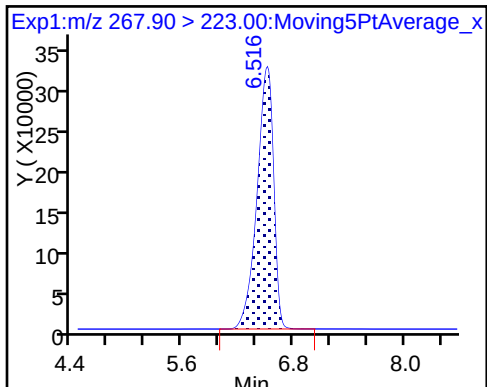
3 Perfluoropentanoic acid (ND)



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

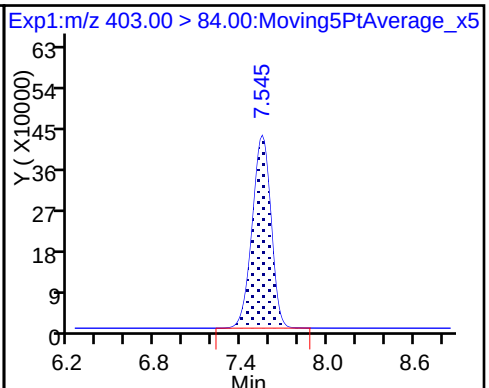
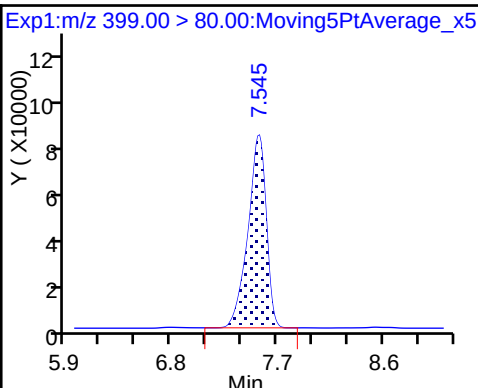
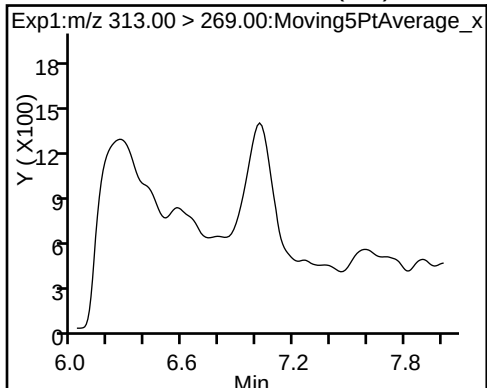
D 6 13C2 PFHxA



7 Perfluorohexanoic acid (ND)

9 Perfluorohexanesulfonic acid

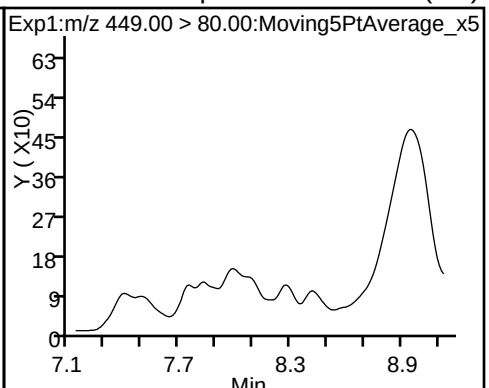
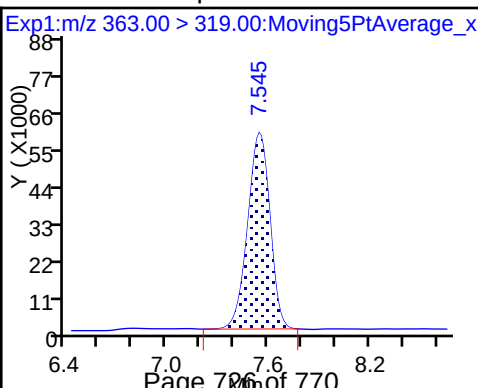
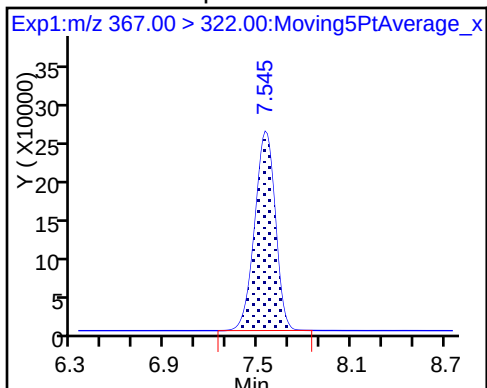
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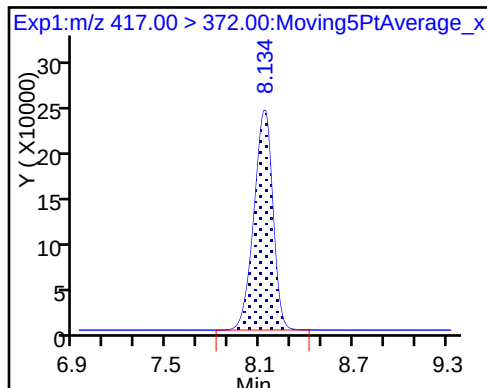
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

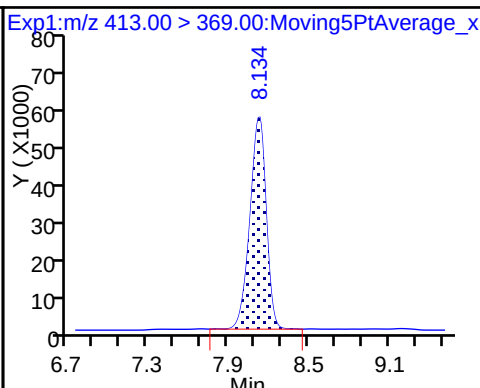
13 Perfluoroheptanesulfonic Acid (ND)



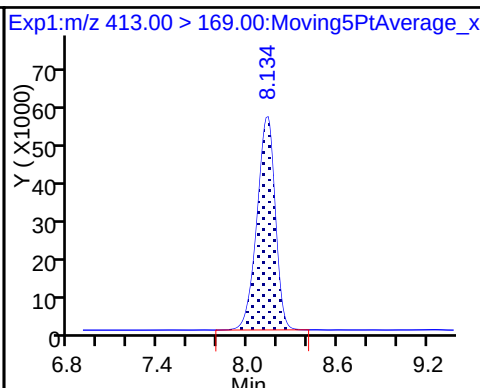
D 14 13C4 PFOA



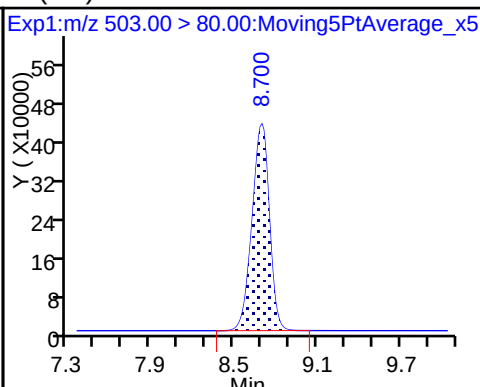
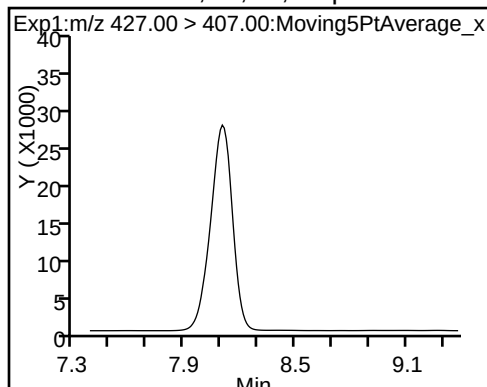
15 Perfluorooctanoic acid



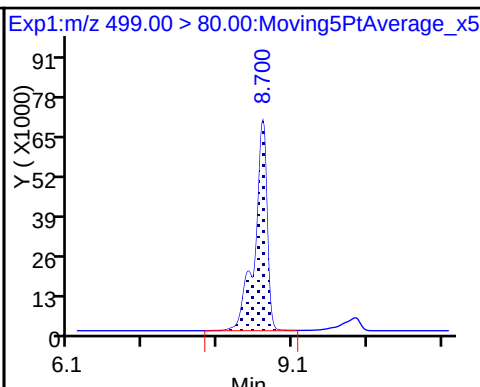
15 Perfluorooctanoic acid



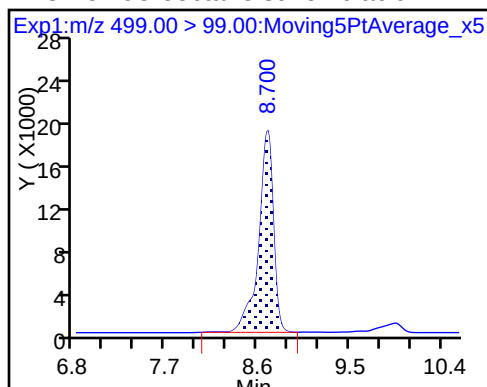
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (ND) D 15 13C4 PFOS



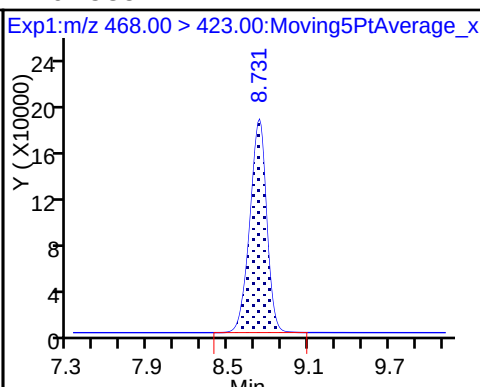
18 Perfluorooctane sulfonic acid



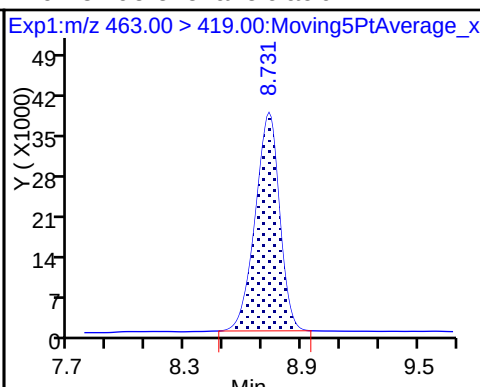
18 Perfluorooctane sulfonic acid



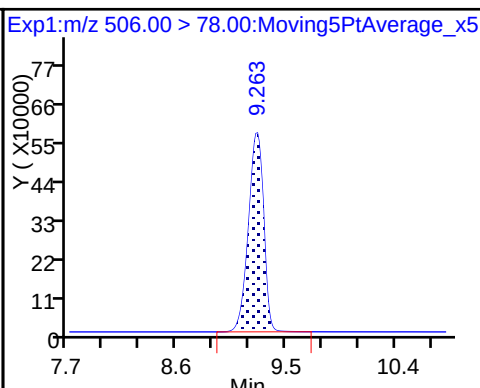
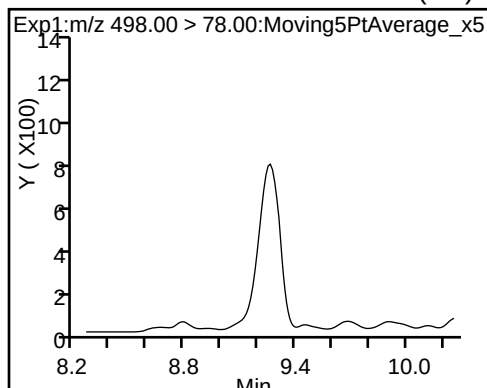
D 19 13C5 PFNA



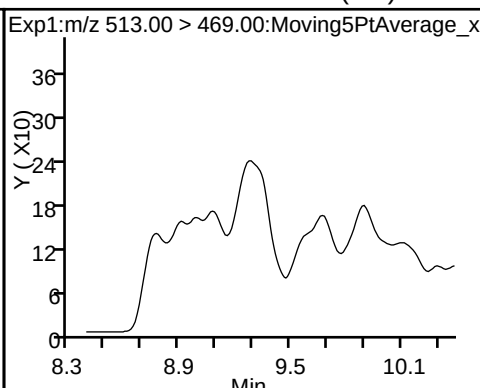
20 Perfluorononanoic acid



22 Perfluorooctane Sulfonamide (ND) D 21 13C8 FOSA



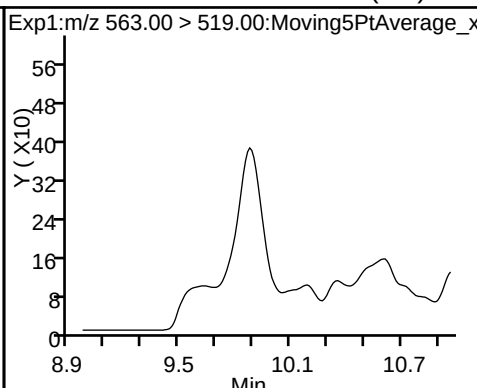
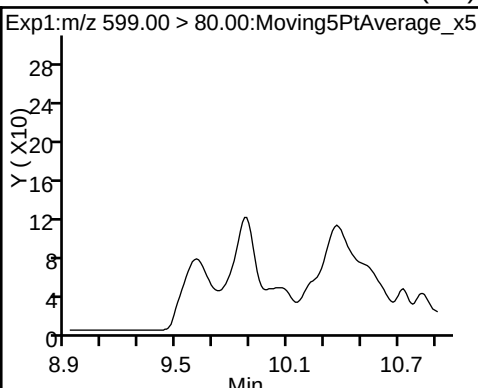
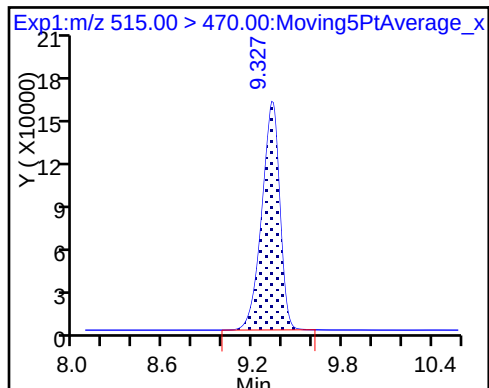
24 Perfluorodecanoic acid (ND)



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid (ND)

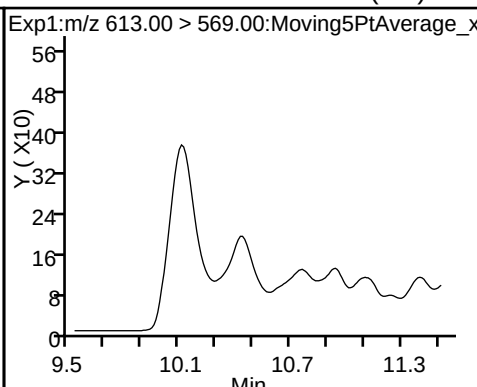
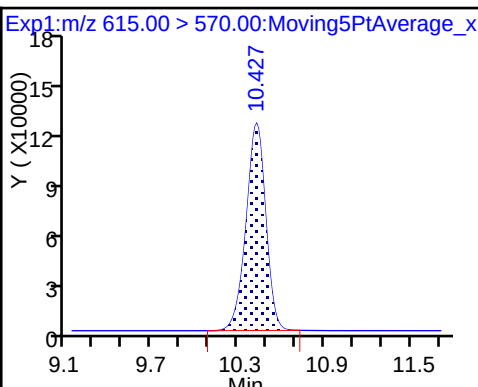
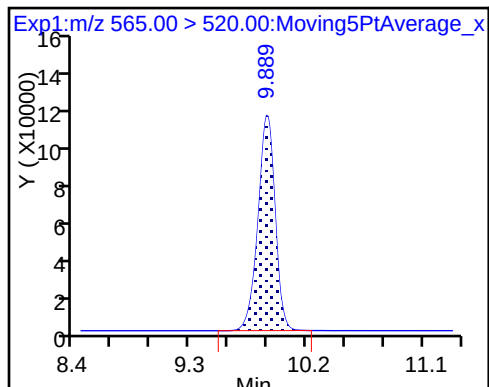
28 Perfluoroundecanoic acid (ND)



D 27 13C2 PFUnA

D 30 13C2 PFDaA

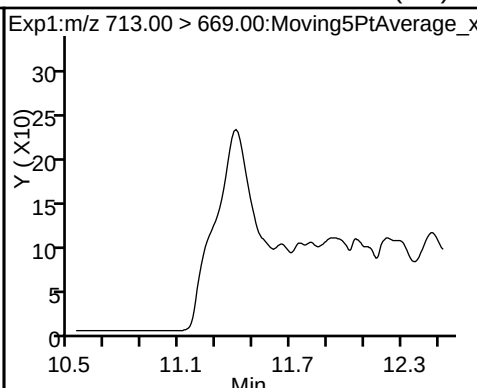
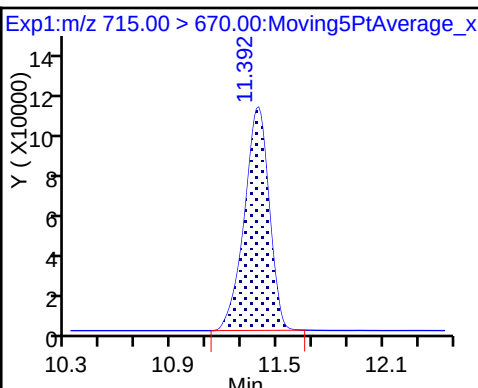
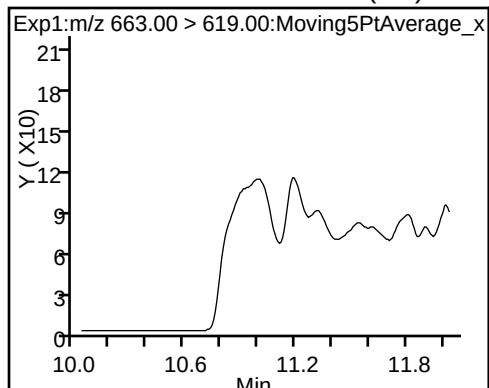
29 Perfluorododecanoic acid (ND)



31 Perfluorotridecanoic acid (ND)

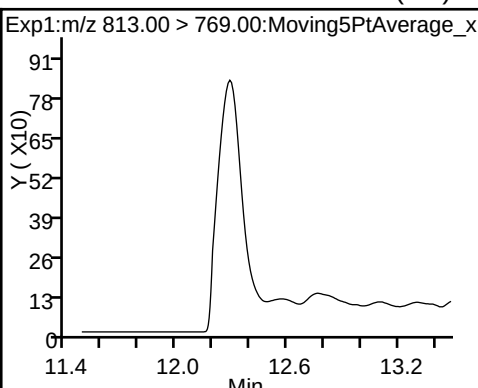
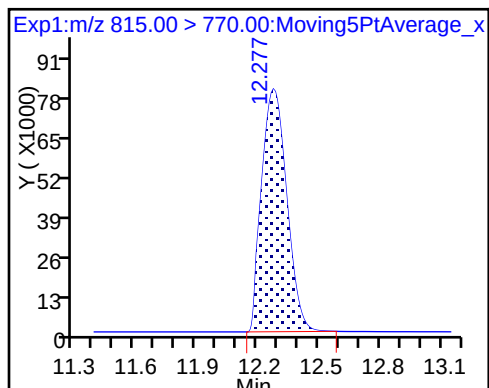
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid (ND)



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid (ND)



FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>TestAmerica Sacramento</u>	Job No.: <u>460-144244-1</u>
SDG No.: _____	
Client Sample ID: <u>MW-1S MSD</u>	Lab Sample ID: <u>460-144244-1 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>2017.11.20BX_006.d</u>
Analysis Method: <u>WS-LC-0025 At1</u>	Date Collected: <u>10/31/2017 15:25</u>
Extraction Method: <u>PFAS Prep</u>	Date Extracted: <u>11/20/2017 09:48</u>
Sample wt/vol: <u>1.00 (mL)</u>	Date Analyzed: <u>11/21/2017 01:41</u>
Con. Extract Vol.: <u>1.66 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>1 (uL)</u>	GC Column: <u>GeminiC18 3x100 ID: 3 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>195898</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-73-5	Perfluorobutanesulfonic acid (PFBS)	16.17		2.00	0.92
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	16.07		2.00	0.87
375-85-9	Perfluoroheptanoic acid (PFHpA)	17.98		2.00	0.80
335-67-1	Perfluorooctanoic acid (PFOA)	16.91		2.00	0.75
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	14.00		2.00	1.28
375-95-1	Perfluorononanoic acid (PFNA)	16.93		2.00	0.65

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	100		25-150
STL01892	13C4-PFHpA	103		25-150
STL00990	13C4 PFOA	99		25-150
STL00991	13C4 PFOS	99		25-150
STL00995	13C5 PFNA	98		25-150

TestAmerica Sacramento
Target Compound Quantitation Report

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_006.d
 Lims ID: 460-144244-A-1-F MSD
 Client ID: MW-1S
 Sample Type: MSD
 Inject. Date: 21-Nov-2017 01:41:26 ALS Bottle#: 6 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 460-144244-a-1-f msd
 Misc. Info.: Plate: 1 Rack: 2
 Operator ID: abservice Instrument ID: A7_N
 Method: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\A7_N.m
 Limit Group: LC PFAS ICAL
 Last Update: 22-Nov-2017 09:48:34 Calib Date: 26-Oct-2017 17:08:18
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICAL File: \\ChromNA\Sacramento\ChromData\A7_N\20171026-49620.b\2017.10.26A_ICAL_010.d

Column 1 : Det: EXP1
 Process Host: XAWRK018

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 2 13C4 PFBA	217.00 > 172.00	5.997	5.873	0.124	3320158	0.0363		72.5	31850	
D 4 13C5-PFPeA	267.90 > 223.00	6.517	6.513	0.004	3897449	0.0512		102	28252	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	6.567	6.569	-0.002	1.000	1423414	0.009743	100	1297	
D 6 13C2 PFHxA	315.00 > 270.00	7.003	7.019	-0.016	3178217	0.0508		102	35666	
9 Perfluorohexanesulfonic acid	399.00 > 80.00	7.533	7.552	-0.019	1.000	919000	0.009682	96.7	3003	
D 10 18O2 PFHxS	403.00 > 84.00	7.546	7.555	-0.009	3862986	0.0472		99.7	35754	
D 11 13C4-PFHpA	367.00 > 322.00	7.546	7.561	-0.015	2466380	0.0514		103	27064	
12 Perfluoroheptanoic acid	363.00 > 319.00	7.546	7.561	-0.015	1.000	553155	0.0108	98.4	897	
D 14 13C4 PFOA	417.00 > 372.00	8.124	8.150	-0.026	2085101	0.0496		99.1	27736	
15 Perfluorooctanoic acid	413.00 > 369.00	8.135	8.152	-0.017	1.000	487952	0.0102	92.6	1540	
	413.00 > 169.00	8.124	8.152	-0.028	0.999	478987	1.02(0.90-1.10)		5752	
D 17 13C4 PFOS	503.00 > 80.00	8.704	8.734	-0.030	3838511	0.0475		99.3	20529	
18 Perfluorooctane sulfonic acid	499.00 > 80.00	8.704	8.738	-0.034	1.000	760779	0.008431	82.5	566	
	499.00 > 99.00	8.704	8.738	-0.034	1.000	171695	4.43(0.90-1.10)		723	
D 19 13C5 PFNA	468.00 > 423.00	8.733	8.770	-0.037	1576886	0.0489		97.8	23195	
20 Perfluorononanoic acid	463.00 > 419.00	8.733	8.771	-0.038	1.000	324119	0.0102	92.7	1159	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA	506.00 > 78.00	9.253	9.262	-0.009	4971045	0.0391		78.2	26765	
D 23 13C2 PFDA	515.00 > 470.00	9.334	9.387	-0.053	1305275	0.0496		99.2	22929	
D 27 13C2 PFUnA	565.00 > 520.00	9.899	9.971	-0.072	1068606	0.0473		94.6	14697	
D 30 13C2 PFDaA	615.00 > 570.00	10.426	10.522	-0.096	1140266	0.0493		98.7	11031	
D 32 13C2-PFTeDA	715.00 > 670.00	11.391	11.531	-0.140	1040325	0.0352		70.3	6782	
D 34 13C2-PFHxDA	815.00 > 770.00	12.284	12.482	-0.198	461419	0.0141		28.1	3333	

TestAmerica Sacramento

Data File: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b\2017.11.20BX_006.d

Injection Date: 21-Nov-2017 01:41:26

Instrument ID: A7_N

Lims ID: 460-144244-A-1-F MSD

Client ID: MW-1S

Operator ID: abservice

ALS Bottle#: 6

Worklist Smp#: 7

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

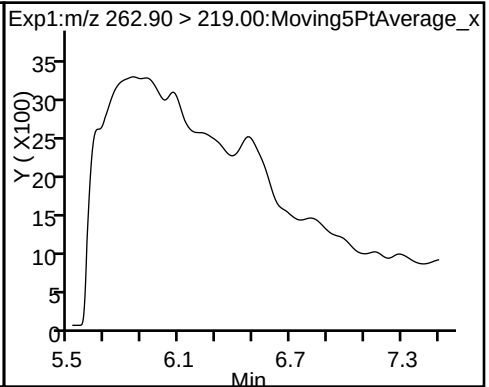
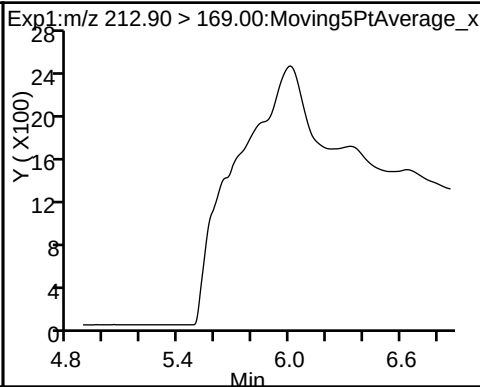
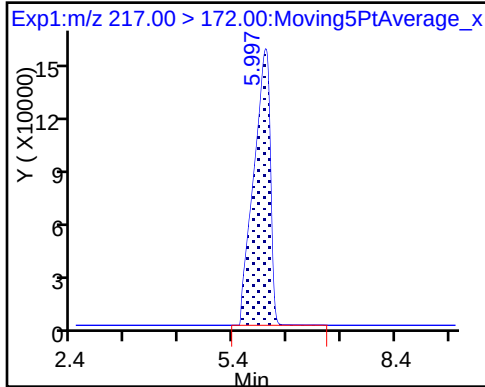
Method: A7_N

Limit Group: LC PFAS ICAL

D 2 13C4 PFBA

1 Perfluorobutyric acid (ND)

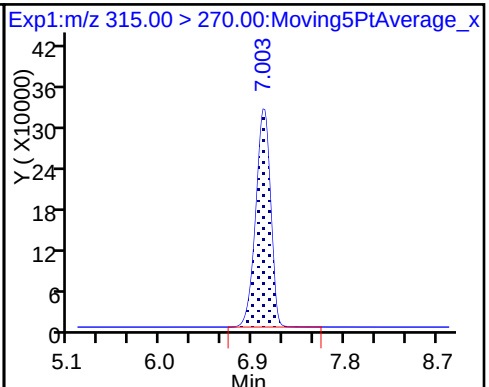
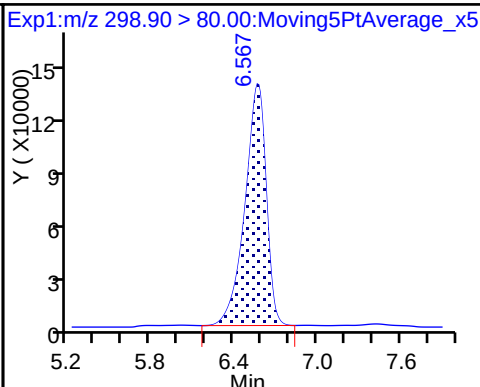
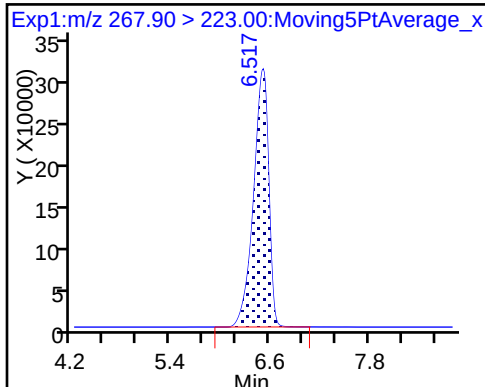
3 Perfluoropentanoic acid (ND)



D 4 13C5-PFPeA

5 Perfluorobutanesulfonic acid

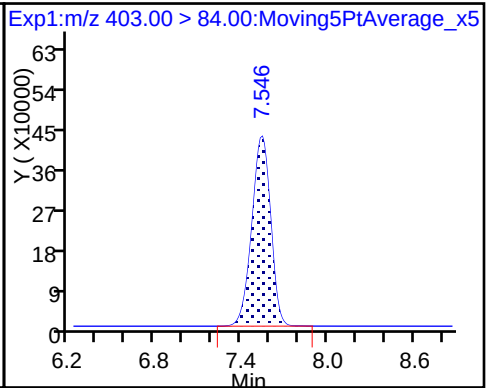
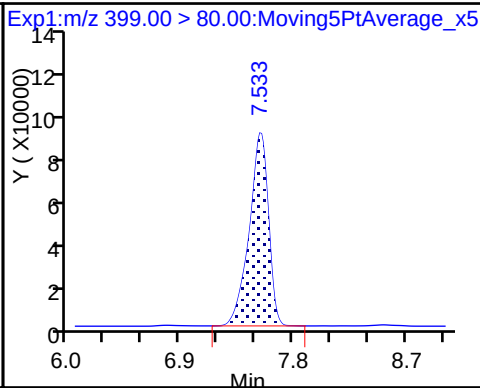
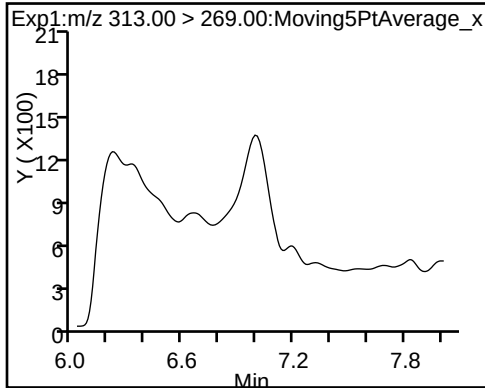
D 6 13C2 PFHxA



7 Perfluorohexanoic acid (ND)

9 Perfluorohexanesulfonic acid

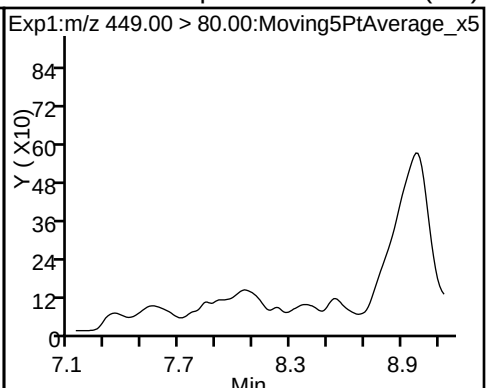
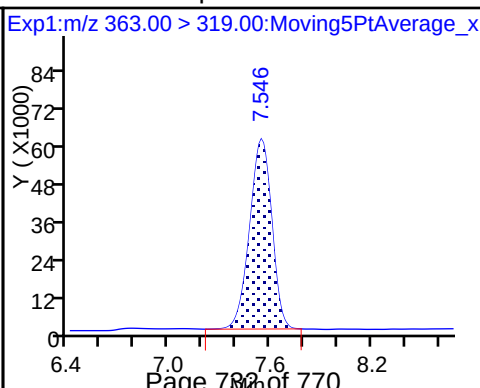
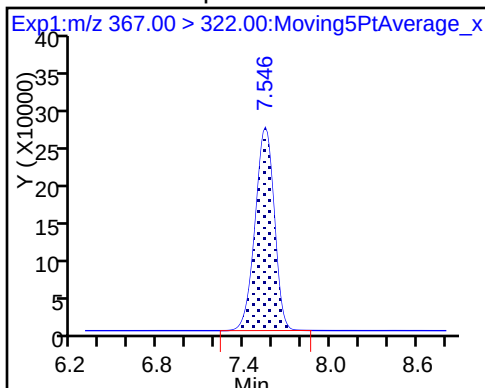
D 10 18O2 PFHxS



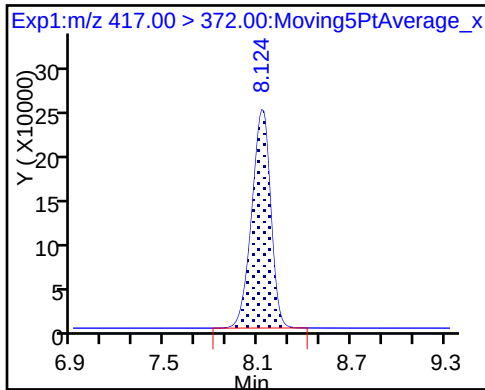
D 11 13C4-PFHpA

12 Perfluoroheptanoic acid

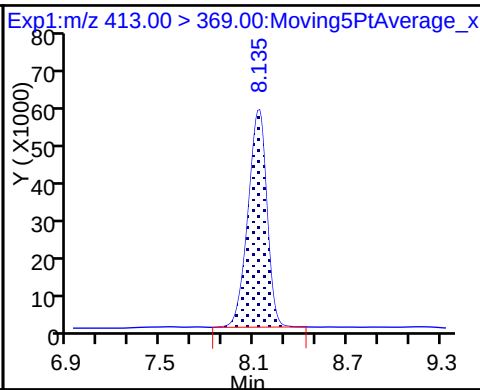
13 Perfluoroheptanesulfonic Acid (ND)



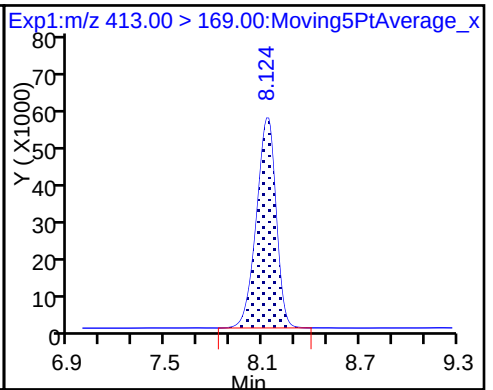
D 14 13C4 PFOA



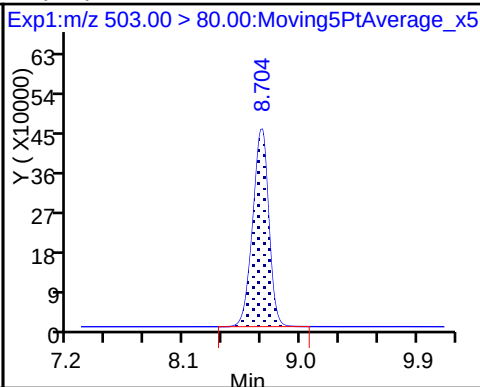
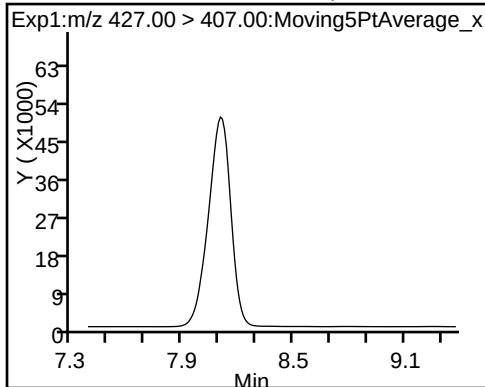
15 Perfluorooctanoic acid



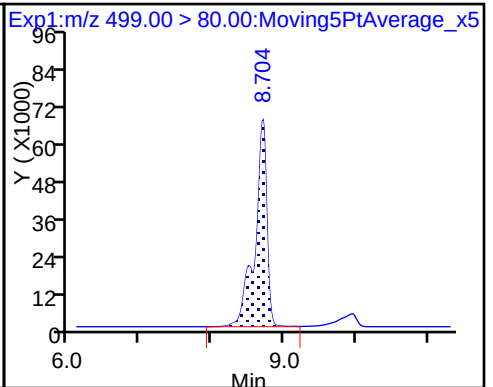
15 Perfluorooctanoic acid



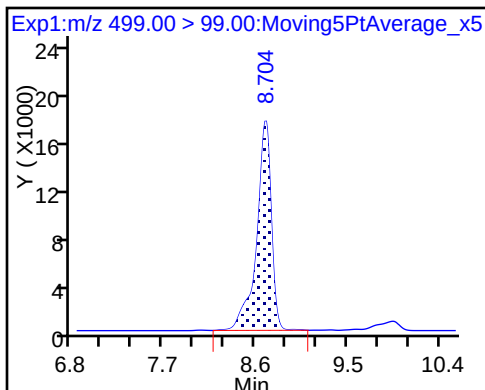
48 Sodium 1H,1H,2H,2H-perfluorooctanoate (ND) D 15 13C4 PFOS



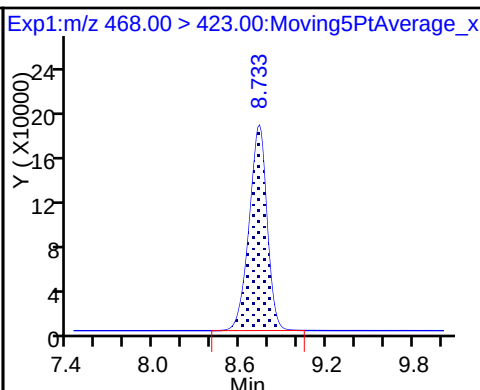
18 Perfluorooctane sulfonic acid



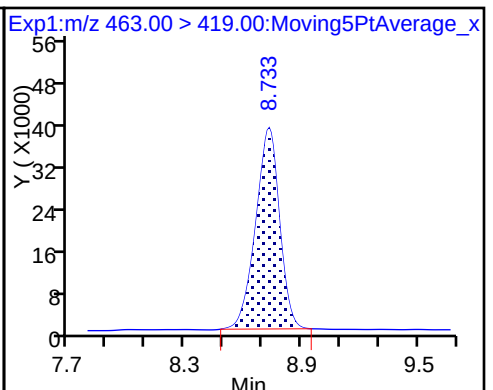
18 Perfluorooctane sulfonic acid



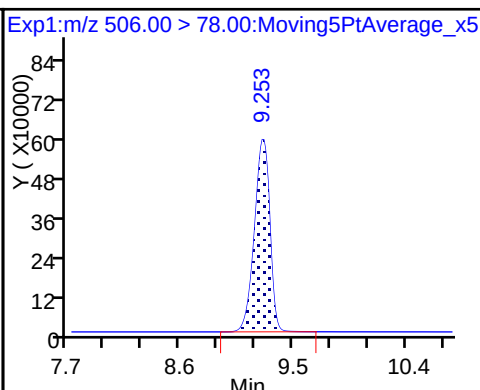
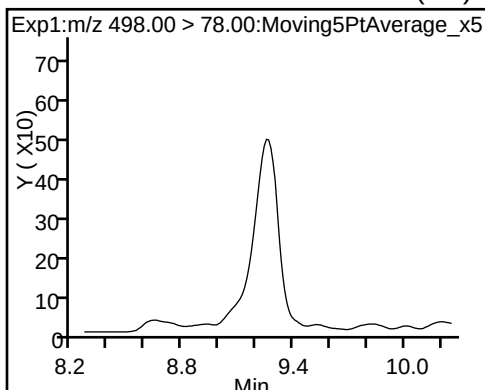
D 19 13C5 PFNA



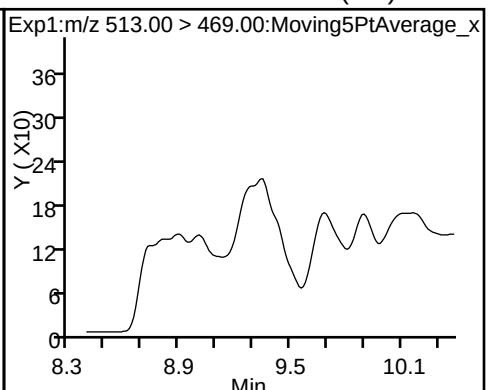
20 Perfluorononanoic acid



22 Perfluorooctane Sulfonamide (ND) D 21 13C8 FOSA



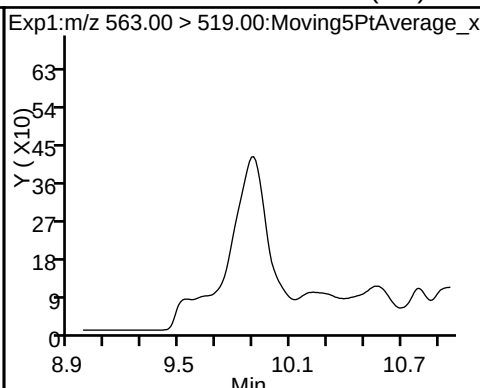
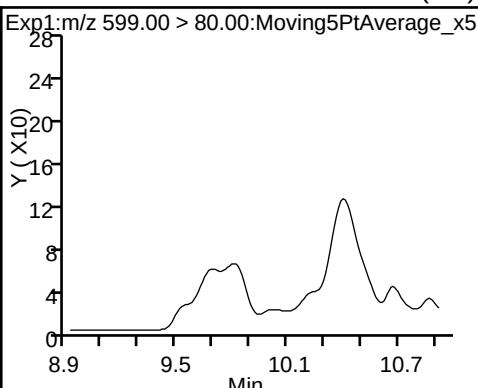
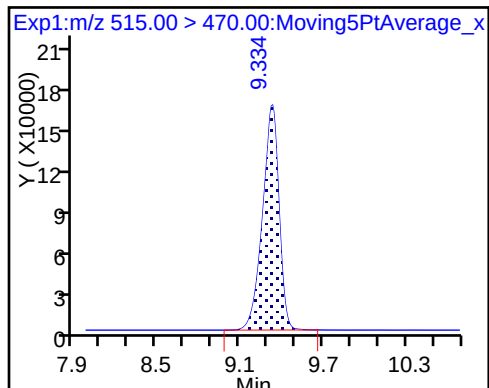
24 Perfluorodecanoic acid (ND)



D 23 13C2 PFDA

26 Perfluorodecane Sulfonic acid (ND)

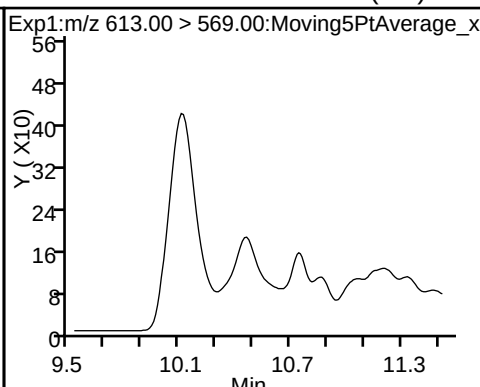
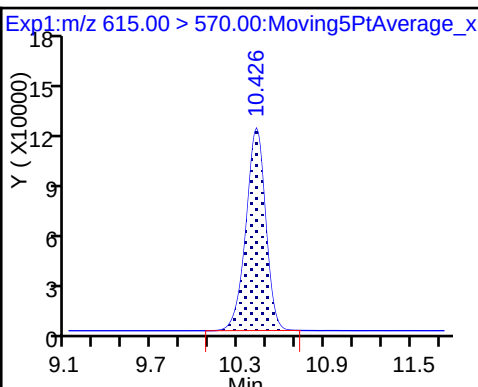
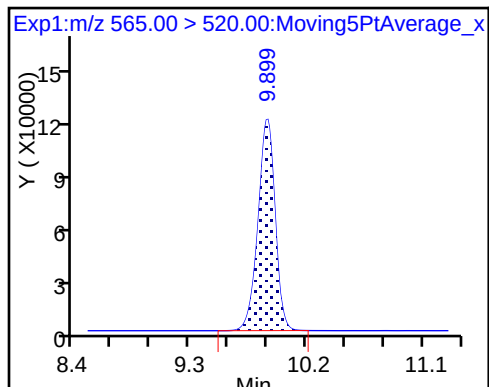
28 Perfluoroundecanoic acid (ND)



D 27 13C2 PFUnA

D 30 13C2 PFDaA

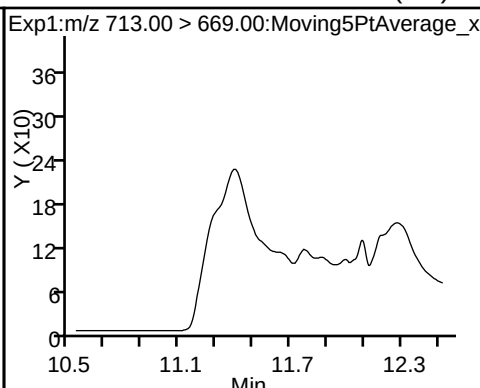
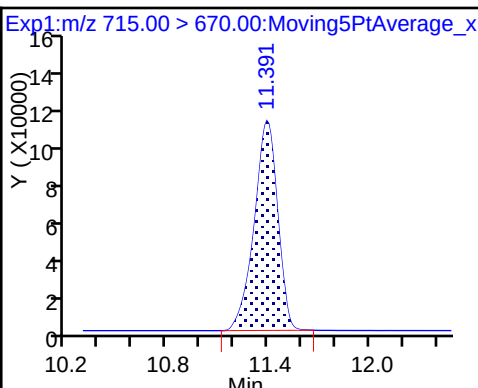
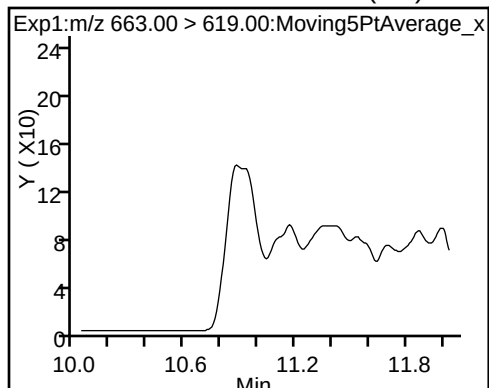
29 Perfluorododecanoic acid (ND)



31 Perfluorotridecanoic acid (ND)

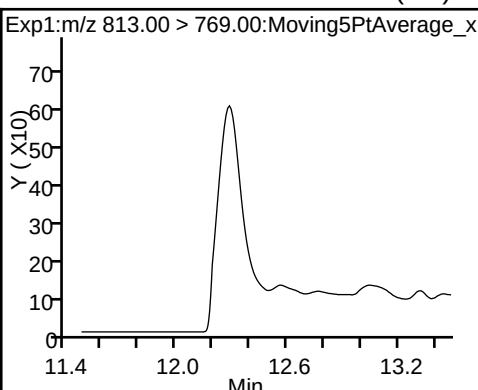
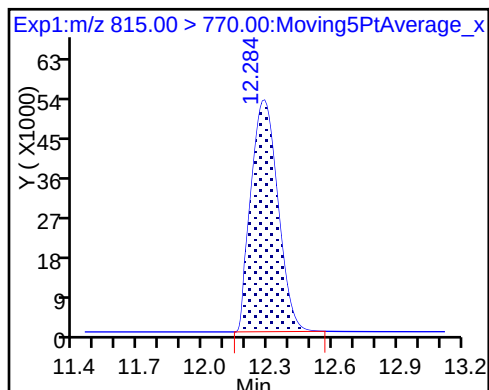
D 32 13C2-PFTeDA

33 Perfluorotetradecanoic acid (ND)



D 34 13C2-PFHxDA

35 Perfluorohexadecanoic acid (ND)



LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Instrument ID: A7_N Start Date: 10/26/2017 14:59Analysis Batch Number: 191314 End Date: 10/26/2017 19:53

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
STD 320-191314/4 IC		10/26/2017 14:59	1	2017.10.26A_ICA L 003.d	GeminiC18 3x100 3(mm)
STD 320-191314/5 IC		10/26/2017 15:18	1	2017.10.26A_ICA L 004.d	GeminiC18 3x100 3(mm)
STD 320-191314/6 IC		10/26/2017 15:36	1	2017.10.26A_ICA L 005.d	GeminiC18 3x100 3(mm)
STD 320-191314/7 IC		10/26/2017 15:54	1	2017.10.26A_ICA L 006.d	GeminiC18 3x100 3(mm)
STD 320-191314/8 IC		10/26/2017 16:13	1	2017.10.26A_ICA L 007.d	GeminiC18 3x100 3(mm)
STD 320-191314/9 IC		10/26/2017 16:31	1	2017.10.26A_ICA L 008.d	GeminiC18 3x100 3(mm)
STD 320-191314/10 IC		10/26/2017 16:49	1	2017.10.26A_ICA L 009.d	GeminiC18 3x100 3(mm)
STD 320-191314/11 IC		10/26/2017 17:08	1	2017.10.26A_ICA L 010.d	GeminiC18 3x100 3(mm)
ICB 320-191314/12		10/26/2017 17:26	1	2017.10.26A_ICA L 011.d	GeminiC18 3x100 3(mm)
ICV 320-191314/13		10/26/2017 17:45	1	2017.10.26A_ICA L 012.d	GeminiC18 3x100 3(mm)
ZZZZZ		10/26/2017 18:40	1		GeminiC18 3x100 3(mm)
ZZZZZ		10/26/2017 18:58	1		GeminiC18 3x100 3(mm)
ZZZZZ		10/26/2017 19:16	1		GeminiC18 3x100 3(mm)
ZZZZZ		10/26/2017 19:35	1		GeminiC18 3x100 3(mm)
CCV 320-191314/18		10/26/2017 19:53	1		GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Instrument ID: A7_N Start Date: 11/20/2017 13:52

Analysis Batch Number: 195894 End Date: 11/20/2017 14:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCVL 320-195894/3		11/20/2017 13:52	1	2017.11.20A_001 .d	GeminiC18 3x100 3(mm)
CCV 320-195894/4		11/20/2017 14:11	1		GeminiC18 3x100 3(mm)

LCMS ANALYSIS RUN LOG

Lab Name: TestAmerica SacramentoJob No.: 460-144244-1

SDG No.: _____

Instrument ID: A7_NStart Date: 11/20/2017 23:51Analysis Batch Number: 195898End Date: 11/21/2017 06:35

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 320-195898/1		11/20/2017 23:51	1	2017.11.20A_035 .d	GeminiC18 3x100 3(mm)
MB 320-195744/1-A		11/21/2017 00:09	1	2017.11.20BX_00 1.d	GeminiC18 3x100 3(mm)
LCS 320-195744/2-A		11/21/2017 00:28	1	2017.11.20BX_00 2.d	GeminiC18 3x100 3(mm)
ZZZZZ		11/21/2017 00:46	1		GeminiC18 3x100 3(mm)
460-144244-1		11/21/2017 01:04	1	2017.11.20BX_00 4.d	GeminiC18 3x100 3(mm)
460-144244-1 MS		11/21/2017 01:23	1	2017.11.20BX_00 5.d	GeminiC18 3x100 3(mm)
460-144244-1 MSD		11/21/2017 01:41	1	2017.11.20BX_00 6.d	GeminiC18 3x100 3(mm)
460-144244-2		11/21/2017 01:59	1	2017.11.20BX_00 7.d	GeminiC18 3x100 3(mm)
460-144244-3		11/21/2017 02:18	1	2017.11.20BX_00 8.d	GeminiC18 3x100 3(mm)
460-144244-4		11/21/2017 02:36	1	2017.11.20BX_00 9.d	GeminiC18 3x100 3(mm)
460-144244-5		11/21/2017 02:54	1	2017.11.20BX_01 0.d	GeminiC18 3x100 3(mm)
CCV 320-195898/12		11/21/2017 03:13	1	2017.11.20BX_01 1.d	GeminiC18 3x100 3(mm)
460-144244-6		11/21/2017 03:31	1	2017.11.20BX_01 2.d	GeminiC18 3x100 3(mm)
460-144244-7		11/21/2017 03:49	1	2017.11.20BX_01 3.d	GeminiC18 3x100 3(mm)
460-144244-8		11/21/2017 04:08	1	2017.11.20BX_01 4.d	GeminiC18 3x100 3(mm)
460-144244-9		11/21/2017 04:26	1	2017.11.20BX_01 5.d	GeminiC18 3x100 3(mm)
460-144244-10		11/21/2017 04:44	1	2017.11.20BX_01 6.d	GeminiC18 3x100 3(mm)
460-144244-11		11/21/2017 05:03	1	2017.11.20BX_01 7.d	GeminiC18 3x100 3(mm)
460-144244-12		11/21/2017 05:21	1	2017.11.20BX_01 8.d	GeminiC18 3x100 3(mm)
460-144244-13		11/21/2017 05:39	1	2017.11.20BX_01 9.d	GeminiC18 3x100 3(mm)
460-144244-14		11/21/2017 05:58	1	2017.11.20BX_02 0.d	GeminiC18 3x100 3(mm)
460-144244-15		11/21/2017 06:16	1	2017.11.20BX_02 1.d	GeminiC18 3x100 3(mm)
CCV 320-195898/23		11/21/2017 06:35	1	2017.11.20BX_02 2.d	GeminiC18 3x100 3(mm)

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Batch Number: 195744 Batch Start Date: 11/20/17 09:48 Batch Analyst: Nguyen, Toan OBatch Method: PFAS Prep Batch End Date: 11/20/17 11:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMPFCLLSU 00058	LCPFCSP 00123	AnalysisComment	
MB 320-195744/1		PFAS Prep, WS-LC-0025 At1		1.00 mL	1.66 mL	83 uL			
LCS 320-195744/2		PFAS Prep, WS-LC-0025 At1		1.00 mL	1.66 mL	83 uL	0.2 uL	spiked with 50 ul of 0.1 ppm solution into 250 ml blank, aliquotted 1ml	
460-144244-A-1	MW-1S	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-1 MS	MW-1S	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL	0.1825 uL	spiked with 50 ul of 0.1 ppm solution into 273.96 ml sample, aliquotted 1ml	
460-144244-A-1 MSD	MW-1S	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL	0.1827 uL	spiked with 50 ul of 0.1 ppm solution into 273.64 ml sample, aliquotted 1ml	
460-144244-A-2	MW-1D	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-3	MW-2S	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-4	MW-2D	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-5	MW-3S	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-6	MW-3D	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-7	MW-4S	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

WS-LC-0025 At1

Page 1 of 2

LCMS BATCH WORKSHEET

Lab Name: TestAmerica Sacramento Job No.: 460-144244-1

SDG No.: _____

Batch Number: 195744 Batch Start Date: 11/20/17 09:48 Batch Analyst: Nguyen, Toan OBatch Method: PFAS Prep Batch End Date: 11/20/17 11:37

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	LCMPFCLLSU 00058	LCPFCSP 00123	AnalysisComment	
460-144244-B-8	MW-4D	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-9	NPPRS	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-10	SPPRS	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-11	EB-PROBE	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-12	EB-TUBING	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-13	FB-X	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-14	Leachate	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			
460-144244-A-15	MW-X-DUP	PFAS Prep, WS-LC-0025 At1	T	1.00 mL	1.66 mL	83 uL			

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

WS-LC-0025 At1

Page 2 of 2

HPLC/LCMS Data Review Checklist

Job Number(s): 460-143954, 460-144244, 33428 Work List ID(s): 50720, 50721
 Extraction Batch: 195744, 195755, 195754 Analysis Batch(es): 195898, 195900, 195901, 195895 (cont)
 Delivery Rank 4 Due Date: _____

A. Calibration/Instrument Run QC	1 st Level	2 nd Level	N/A
1. ICAL locked in Chrom and TALS? ICAL Batch# <u>191914-191314, 191315</u>	✓	✓	
2. ICAL, CCV Frequency & Criteria met.	✓	✓	
• RF _{average} criteria appropriate for the method.	✓	✓	
• Linear Regression criteria appropriate if required ($r \geq 0.995$).	✓	✓	
• Quadratic fit criteria appropriate if required ($r^2 \geq 0.990$).			✓
• For Linear Regression and Quadratic fit – Does the y-intercept support ½ the reporting limit as described in CA-Q-S-005?	✓	✓	
• All curve points show calculated concentrations.	✓	✓	
3. Peaks correctly ID'd by data system.	✓	✓	
5. Tune check frequency & criteria met and Tune check report attached.			✓
B. QA/QC			
1. Are all QC samples properly linked in TALS?	✓	✓	
2. Method blank, LCS/LCSD and MS/SD frequencies met.	✓	✓	
3. LCS/LCSD and MB data are within control limits. If not, NCM is present.	✓	✓	
4. Are MS/MSD recoveries and RPD within control limits?	✓	✓	
5. Holding Times were met for prep and analytical.	✓	✓	
6. IS/Surrogate recoveries meet criteria or properly noted.	✓	✓	
C. Sample Analysis			
1. Was correct analysis performed and were project instructions followed?	✓	✓	
2. If required, are compounds within RT windows?	✓	✓	
3. If required, are positive hits confirmed and >40% RPD flagged?		✓	✓
4. Manual Integrations reviewed and appropriate.	✓	✓	
5. All analytes correctly reported. (Primary, secondary, acceptable status)	✓	✓	
6. Correct reporting limits used. (based on client request, prep factors, and dilutions)	✓	✓	
D. Documentation			
1. Are all non-conformances documented/attached? NCM#	✓	✓	
2. Do results make sense (e.g. dilutions, etc.)?	✓	✓	
3. Have all flags been reviewed for appropriateness?	✓	✓	
4. For level 3 and 4 reports, have forms and raw data been reviewed?		✓	
5. Was QC Checker run for this job?	✓	✓	

*Upon completion of this checklist, the reviewer must scan and attach the checklist to the TALS job.

1st Level (Analyst): [Signature]

Date: 11/22/17

2nd Level Reviewer: [Signature]

Date: 11/22/2017

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 11202017A_PFAS

Worklist Num: 50699

Instrument: A7_N

Method: A7_N

Batch Directory: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50699.b

Analysis Type: SemiVOA

Creator: Phomsopha, Thep

Inj Volume: 1.00

Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Fract
CCVL	320-0050699-003	CCVL	20-Nov-2017 13:52:45	2017.11.20A_001.d	1	1.0	sv
CCV L5	320-0050699-004	CCV	20-Nov-2017 14:11:07	2017.11.20A_002.d	2	1.0	sv

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 11202017C_PFA5

Worklist Num: 50720

Instrument: A7_N

Method: A7_N

Batch Directory: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b

Analysis Type: SemiVOA

Creator: Phomsopha, Thep

Inj Volume: 1.00

Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
CCV L5	320-0050720-001	CCV	20-Nov-2017 23:51:19	2017.11.20A_035.d	32	1.0		sv
MB 320-195744/1-A	320-0050720-002	MB	21-Nov-2017 00:09:39	2017.11.20BX_001.d	1	1.0		sv
LCS 320-195744/2-A	320-0050720-003	LCS	21-Nov-2017 00:28:00	2017.11.20BX_002.d	2	1.0		sv
460-143954-E-1-B	320-0050720-004	Client	21-Nov-2017 00:46:21	2017.11.20BX_003.d	3	1.0	Hydrant	sv
460-144244-A-1-D	320-0050720-005	Client	21-Nov-2017 01:04:44	2017.11.20BX_004.d	4	1.0	MW-1S	sv
460-144244-A-1-E MS	320-0050720-006	MS	21-Nov-2017 01:23:04	2017.11.20BX_005.d	5	1.0	MW-1S	sv
460-144244-A-1-F MSD	320-0050720-007	MSD	21-Nov-2017 01:41:26	2017.11.20BX_006.d	6	1.0	MW-1S	sv
460-144244-A-2-B	320-0050720-008	Client	21-Nov-2017 01:59:46	2017.11.20BX_007.d	7	1.0	MW-1D	sv
460-144244-A-3-B	320-0050720-009	Client	21-Nov-2017 02:18:07	2017.11.20BX_008.d	8	1.0	MW-2S	sv
460-144244-A-4-B	320-0050720-010	Client	21-Nov-2017 02:36:28	2017.11.20BX_009.d	9	1.0	MW-2D	sv
460-144244-A-5-B	320-0050720-011	Client	21-Nov-2017 02:54:50	2017.11.20BX_010.d	10	1.0	MW-3S	sv
CCV L6	320-0050720-012	CCV	21-Nov-2017 03:13:11	2017.11.20BX_011.d	11	1.0		sv
460-144244-A-6-B	320-0050720-013	Client	21-Nov-2017 03:31:32	2017.11.20BX_012.d	12	1.0	MW-3D	sv
460-144244-A-7-B	320-0050720-014	Client	21-Nov-2017 03:49:54	2017.11.20BX_013.d	13	1.0	MW-4S	sv
460-144244-B-8-A	320-0050720-015	Client	21-Nov-2017 04:08:15	2017.11.20BX_014.d	14	1.0	MW-4D	sv
460-144244-A-9-B	320-0050720-016	Client	21-Nov-2017 04:26:36	2017.11.20BX_015.d	15	1.0	NPPRS	sv
460-144244-A-10-B	320-0050720-017	Client	21-Nov-2017 04:44:56	2017.11.20BX_016.d	16	1.0	SPPRS	sv
460-144244-A-11-B	320-0050720-018	Client	21-Nov-2017 05:03:18	2017.11.20BX_017.d	17	1.0	EB-PROBE	sv
460-144244-A-12-B	320-0050720-019	Client	21-Nov-2017 05:21:38	2017.11.20BX_018.d	18	1.0	EB-TUBING	sv
460-144244-A-13-B	320-0050720-020	Client	21-Nov-2017 05:39:59	2017.11.20BX_019.d	19	1.0	FB-X	sv
460-144244-A-14-B	320-0050720-021	Client	21-Nov-2017 05:58:19	2017.11.20BX_020.d	20	1.0	Leachate	sv
460-144244-A-15-B	320-0050720-022	Client	21-Nov-2017 06:16:40	2017.11.20BX_021.d	21	1.0	MW-X-DUP	sv
CCV L5	320-0050720-023	CCV	21-Nov-2017 06:35:01	2017.11.20BX_022.d	22	1.0		sv

TestAmerica Laboratories
Worklist Run Log Report

Worklist Name: 11202017D_PFAS

Worklist Num: 50721

Instrument: A7_N

Method: A7_N

Batch Directory: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50721.b

Analysis Type: SemiVOA

Creator: Phomsopha, Thep

Inj Volume: 1.00

Inj Vol Units: ul

Lab ID	Worklist ID	Sample Type	Inj Date/Time	File Name	Vial	Dil Factor	Client ID	Fract
CCV L5	320-0050721-001	CCV	21-Nov-2017 06:35:01	2017.11.20BX_022.d	22	1.0		sv
MB 320-195755/1-A	320-0050721-002	MB	21-Nov-2017 06:53:22	2017.11.20BX_023.d	23	1.0		sv
LCS 320-195755/2-A	320-0050721-003	LCS	21-Nov-2017 07:11:42	2017.11.20BX_024.d	24	1.0		sv
LCSD 320-195755/3-A	320-0050721-004	LCSD	21-Nov-2017 07:30:04	2017.11.20BX_025.d	25	1.0		sv
320-33422-B-2-A	320-0050721-005	Client	21-Nov-2017 07:48:26	2017.11.20BX_026.d	26	1.0	HF1369111617POSTA	sv
320-33422-A-3-A	320-0050721-006	Client	21-Nov-2017 08:06:47	2017.11.20BX_027.d	27	1.0	HF1369111617POSTB	sv
MB 320-195754/1-A	320-0050721-007	MB	21-Nov-2017 08:25:08	2017.11.20BX_028.d	28	1.0		sv
LCS 320-195754/2-A	320-0050721-008	LCS	21-Nov-2017 08:43:29	2017.11.20BX_029.d	29	1.0		sv
LCSD 320-195754/3-A	320-0050721-009	LCSD	21-Nov-2017 09:01:49	2017.11.20BX_030.d	30	1.0		sv
320-33422-A-1-A	320-0050721-010	Client	21-Nov-2017 09:20:10	2017.11.20BX_031.d	31	1.0	HF1369111617PRE	sv
CCV L6	320-0050721-011	CCV	21-Nov-2017 09:38:33	2017.11.20BX_032.d	32	1.0		sv

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 11202017A_PFAS Worklist Number: 50699
Instrument Name: A7_N Chrom Method: A7_N
Data Directory: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50699.b
QC Batching: Disabled Limit Group Batching: Enabled

QC Batch: 1	LC PFAS ICAL Raw Batch: 195894	LC PFAS_DW ICAL Raw Batch: 195895
# 3 CCVL # 4 CCV L5	# 3 CCVL # 4 CCV L5	# 3 CCVL # 4 CCV L5

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 11202017C_PFAS

Worklist Number: 50720

Instrument Name: A7_N

Chrom Method: A7_N

Data Directory: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50720.b

QC Batching: Disabled

Limit Group Batching: Enabled

QC Batch: 1	LC PFAS ICAL Raw Batch: 195898	LC PFAS_DW ICAL Raw Batch: 195899
# 1 CCV L5	# 1 CCV L5	# 1 CCV L5
# 2 MB 320-195744/1-A	# 2 MB 320-195744/1-A	
# 3 LCS 320-195744/2-A	# 3 LCS 320-195744/2-A	
# 4 460-143954-E-1-B	# 4 460-143954-E-1-B	
# 5 460-144244-A-1-D	# 5 460-144244-A-1-D	
# 6 460-144244-A-1-E MS	# 6 460-144244-A-1-E MS	
# 7 460-144244-A-1-F MSD	# 7 460-144244-A-1-F MSD	
# 8 460-144244-A-2-B	# 8 460-144244-A-2-B	
# 9 460-144244-A-3-B	# 9 460-144244-A-3-B	
#10 460-144244-A-4-B	#10 460-144244-A-4-B	
#11 460-144244-A-5-B	#11 460-144244-A-5-B	
#12 CCV L6	#12 CCV L6	#12 CCV L6
#13 460-144244-A-6-B	#13 460-144244-A-6-B	
#14 460-144244-A-7-B	#14 460-144244-A-7-B	
#15 460-144244-B-8-A	#15 460-144244-B-8-A	
#16 460-144244-A-9-B	#16 460-144244-A-9-B	
#17 460-144244-A-10-B	#17 460-144244-A-10-B	
#18 460-144244-A-11-B	#18 460-144244-A-11-B	
#19 460-144244-A-12-B	#19 460-144244-A-12-B	
#20 460-144244-A-13-B	#20 460-144244-A-13-B	
#21 460-144244-A-14-B	#21 460-144244-A-14-B	
#22 460-144244-A-15-B	#22 460-144244-A-15-B	
#23 CCV L5	#23 CCV L5	#23 CCV L5

TestAmerica Laboratories
Worklist QC Batch Report

Worklist Name: 11202017D_PFAS

Worklist Number: 50721

Instrument Name: A7_N

Chrom Method: A7_N

Data Directory: \\ChromNa\Sacramento\ChromData\A7_N\20171120-50721.b

QC Batching: Disabled

Limit Group Batching: Enabled

QC Batch: 1	LC PFAS ICAL Raw Batch: 195900	LC PFAS_DW ICAL Raw Batch: 195901
# 1 CCV L5 # 2 MB 320-195755/1-A # 3 LCS 320-195755/2-A # 4 LCSD 320-195755/3-A # 5 320-33422-B-2-A # 6 320-33422-A-3-A # 7 MB 320-195754/1-A # 8 LCS 320-195754/2-A # 9 LCSD 320-195754/3-A #10 320-33422-A-1-A #11 CCV L6	# 1 CCV L5 # 7 MB 320-195754/1-A # 8 LCS 320-195754/2-A # 9 LCSD 320-195754/3-A #10 320-33422-A-1-A #11 CCV L6	# 1 CCV L5 # 2 MB 320-195755/1-A # 3 LCS 320-195755/2-A # 4 LCSD 320-195755/3-A # 5 320-33422-B-2-A # 6 320-33422-A-3-A #11 CCV L6

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Nguyen, Toan O

Batch Number: 320-195744

Method Code: 320-PFAS_DI_Prep-320

Batch Open: 11/20/2017 9:48:00AM

Batch End: 11/20/2017 11:37:00AM

Preparation, Direct Inject PFAS

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	IntAmt FinAmt	PHS Rcvd Adj1 Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
1 MB-320-195744/1 N/A	N/A		1.00 mL 1.66 mL		N/A	N/A	N/A		MB-320-195744-1-A
2 LCS-320-195744/2 N/A	N/A		1.00 mL 1.66 mL		N/A	N/A	N/A	spiked with 50 ul of 0.1 ppm solution into 250 ml blank, aliquotted 1ml	LCS-320-195744-2-A
3 460-143954-E-1 (PFAS_DI)	N/A (460-143954-1)		1.00 mL 1.66 mL		11/13/17	10_Days	4		460-143954-E-1-B
4 460-144244-A-1 (PFAS_DI)	N/A (460-144244-1)		1.00 mL 1.66 mL		11/14/17	8_Days	4		460-144244-A-1-D
5 460-144244-A-1-MS (PFAS_DI)	N/A (460-144244-1)		1.00 mL 1.66 mL		11/14/17	8_Days	4	spiked with 50 ul of 0.1 ppm solution into 273.96 ml sample, aliquotted 1ml	460-144244-A-1-E-MS
6 460-144244-A-1-MSD (PFAS_DI)	N/A (460-144244-1)		1.00 mL 1.66 mL		11/14/17	8_Days	4	spiked with 50 ul of 0.1 ppm solution into 273.64 ml sample, aliquotted 1ml	460-144244-A-1-F-MSD
7 460-144244-A-2 (PFAS_DI)	N/A (460-144244-1)		1.00 mL 1.66 mL		11/14/17	8_Days	4		460-144244-A-2-B
8 460-144244-A-3 (PFAS_DI)	N/A (460-144244-1)		1.00 mL 1.66 mL		11/14/17	8_Days	4		460-144244-A-3-B

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-195744

Analyst: Nguyen, Toan O

Batch Open: 11/20/2017 9:48:00AM

Method Code: 320-PFAS_DI_Prep-320

Batch End:

9	460-144244-A-4 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 4 - B
			1.66 mL								
10	460-144244-A-5 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 5 - B
			1.66 mL								
11	460-144244-A-6 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 6 - B
			1.66 mL								
12	460-144244-A-7 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 7 - B
			1.66 mL								
13	460-144244-B-8 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - B - 8 - A
			1.66 mL								
14	460-144244-A-9 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 9 - B
			1.66 mL								
15	460-144244-A-10 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 10 - B
			1.66 mL								
16	460-144244-A-11 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 11 - B
			1.66 mL								
17	460-144244-A-12 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 12 - B
			1.66 mL								
18	460-144244-A-13 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 13 - B
			1.66 mL								
19	460-144244-A-14 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 14 - B
			1.66 mL								
20	460-144244-A-15 (PFAS_DI)	N/A (460-144244-1)	1.00 mL					11/14/17	8_Days	4	 4 6 8 - 1 4 4 2 4 4 - A - 15 - B
			1.66 mL								

(To Accompany Samples to Instruments)

Analyst: Nguyen, Toan O

Batch Open: 11/20/2017 9:48:00AM

Batch End:

Batch Notes	
Pipette ID	F0778972E; I46344G
Methanol ID	1089527
Analyst ID - IDA Reagent Drop	TQN
Analyst ID - IDA Reagent Drop Witness	JNS
Analyst ID - TA Reagent Drop	TQN
Analyst ID - TA Reagent Drop Witness	JNS
Batch Comment	N/A

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Nguyen, Toan O

Batch Number: 320-195744

Method Code: 320-PFAS_DI_Prep-320

Batch Open: 11/20/2017 9:48:00AM

Batch End:

Comments

460-143954-E-1	Rework Comments:	Suspected PFOS contamination
460-144244-A-1	Rework Comments:	Suspected PFOS contamination
460-144244-A-1~MS	Rework Comments:	Suspected PFOS contamination
460-144244-A-1~MSD	Rework Comments:	Suspected PFOS contamination
460-144244-A-2	Rework Comments:	Suspected PFOS contamination
460-144244-A-3	Rework Comments:	Suspected PFOS contamination
460-144244-A-4	Rework Comments:	Suspected PFOS contamination
460-144244-A-5	Rework Comments:	Suspected PFOS contamination
460-144244-A-6	Rework Comments:	Suspected PFOS contamination
460-144244-A-7	Rework Comments:	Suspected PFOS contamination
460-144244-B-8	Rework Comments:	Suspected PFOS contamination
460-144244-A-9	Rework Comments:	Suspected PFOS contamination
460-144244-A-10	Rework Comments:	Suspected PFOS contamination
460-144244-A-11	Rework Comments:	Suspected PFOS contamination
460-144244-A-12	Rework Comments:	Suspected PFOS contamination
460-144244-A-13	Rework Comments:	Suspected PFOS contamination
460-144244-A-14	Rework Comments:	Suspected PFOS contamination
460-144244-A-15	Rework Comments:	Suspected PFOS contamination

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Nguyen, Toan O

Batch Open: 11/20/2017 9:48:00AM

Batch End:

Batch Number: 320-195744

Method Code: 320-PFAS_DI_Prep-320

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-195744/1	LCMPFCLLSU_00058	83 uL	1.66 mL	TBN 11/20/17	JN 11/20/17
LCS 320-195744/2	LCMPFCLLSU_00058	83 uL	1.66 mL		
LCS 320-195744/2	LCPF CSP_00123	0.20 uL	1.66 mL		
460-143954-E-1	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-1	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-1 MS	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-1 MS	LCPF CSP_00123	0.1825 uL	1.66 mL		
460-144244-A-1 MSD	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-1 MSD	LCPF CSP_00123	0.1827 uL	1.66 mL		
460-144244-A-2	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-3	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-4	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-5	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-6	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-7	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-B-8	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-9	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-10	LCMPFCLLSU_00058	83 uL	1.66 mL		

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Nguyen, Toan O

Batch Number: 320-195744

Method Code: 320-PFAS_DI_Prep-320

Batch Open: 11/20/2017 9:48:00AM

Batch End:

460-144244-A-11	LCMPFCLLSU_00058	83 uL	1.66 mL	T&N 4/20/17	503 uL 2017
460-144244-A-12	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-13	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-14	LCMPFCLLSU_00058	83 uL	1.66 mL		
460-144244-A-15	LCMPFCLLSU_00058	83 uL	1.66 mL		

Other Reagents:

Reagent

Amount/Units

Lot#:

Preparation Batch Number(s) 195744

Test PFAS-DI

Earliest Holding Time 11/27/17

Batch Information	1 st Level Reviewer	2 nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary batch information complete and entered into TALS correctly	✓	✓
BD, FV, and AL initials are transcribed into the batch comment	N/A	NA
Sample List Tab	1 st Level Reviewer	2 nd Level Reviewer
Samples identified to the correct method	✓	✓
Holding time violation NCM filed	N/A	NA
MS/MSD or MS/DU NCM filed	N/A	NA
NCM for any anomalies filed	✓	✓
All NCMs include method code, matrix, and prep batch	✓	✓
Method/sample/login/QAS checked and correct	✓	✓
Batch contains no more than 20 live samples	✓	✓
Worksheet Tab	1 st Level Reviewer	2 nd Level Reviewer
All samples properly preserved	N/A	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed properly in TALS	N/A	NA
All additional information is transcribed into TALS and is correct and raw data is attached	✓	✓
Comments/Observations are transcribed correctly in TALS	✓	✓
Reagents Tab	1 st Level Reviewer	2 nd Level Reviewer
All necessary reagents not expired and checked into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Internal Standard is added to the reagents	N/A	NA
All units are correctly transcribed into TALS	✓	✓

1st Level Reviewer: TQN

Date: 11/20/17

2nd Level Reviewer: VPM

Date: 11/20/17

Comments: _____

DI3

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-195755

Method Code: 320-PFAS_DI_Prep-320

Analyst: Nguyen, Toan O

Batch Open: 11/20/2017 10:14:00AM

Batch End: 11/20/2017 11:51:00AM

Preparation, Direct Inject PFAS

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHs Rcvd Adj1 Adj2	Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
MB-320-195755/1 N/A	N/A		1.00 mL 1.66 mL		N/A	N/A	N/A		MB-320-195755/1-A
LCS-320-195755/2 N/A	N/A		1.00 mL 1.66 mL		N/A	N/A	N/A	spiked with 50 ul of 0.1 ppm solution into 250 ml blank, aliquotted 1ml	LCS-320-195755/2-A
LCSD-320-195755/3 N/A	N/A		1.00 mL 1.66 mL		N/A	N/A	N/A	spiked with 50 ul of 0.1 ppm solution into 250 ml blank, aliquotted 1ml	LCSD-320-195755/3-A
320-33422-B-2 (PFAS_DI_DW)	N/A (320-33422-1)		1.00 mL 1.66 mL		11/24/17	3_Day_RUSH	4		320-33422-B-2-A
320-33422-A-3 (PFAS_DI_DW)	N/A (320-33422-1)		1.00 mL 1.66 mL		11/24/17	3_Day_RUSH	4		320-33422-A-3-A

3 day Rush 47 11/20/17

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-195755

Method Code: 320-PFAS_DI_Prep-320

Analyst: Nguyen, Toan O

Batch Open: 11/20/2017 10:14:00AM

Batch End:

Batch Notes	
Pipette ID	F0778972E; I46344G
Methanol ID	1089527
Analyst ID - IDA Reagent Drop	TQN
Analyst ID - IDA Reagent Drop Witness	JNS
Analyst ID - TA Reagent Drop	TQN
Analyst ID - TA Reagent Drop Witness	JNS
Batch Comment	N/A
Comments	
320-33422-B-2	Method Comments: RUSH - 3 day TAT
320-33422-A-3	Method Comments: RUSH - 3 day TAT

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Nguyen, Toan O

Batch Number: 320-195755

Method Code: 320-PFAS_DI_Prep-320

Batch Open: 11/20/2017 10:14:00AM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-195755/1	LCMPFCLLSU_00058	83 uL	1.66 mL	TGN 11/20/17	JWS 11/20/17
LCS 320-195755/2	LCMPFCLLSU_00058	83 uL	1.66 mL		
LCS 320-195755/2	LCPF CSP_00123	0.20 uL	1.66 mL		
LCSD 320-195755/3	LCMPFCLLSU_00058	83 uL	1.66 mL		
LCSD 320-195755/3	LCPF CSP_00123	0.20 uL	1.66 mL		
320-33422-B-2	LCMPFCLLSU_00058	83 uL	1.66 mL		
320-33422-A-3	LCMPFCLLSU_00058	83 uL	1.66 mL		

Other Reagents:

Amount/Units

Lot#:

Preparation Batch Number(s) 195755

Test PFAS-DI-DW

Earliest Holding Time 12/14/17

Batch Information	1 st Level Reviewer	2 nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary batch information complete and entered into TALS correctly	✓	✓
BD, FV, and AL initials are transcribed into the batch comment	N/A	NA
Sample List Tab	1 st Level Reviewer	2 nd Level Reviewer
Samples identified to the correct method	✓	✓
Holding time violation NCM filed	N/A	NA
MS/MSD or MS/DU NCM filed	✓	✓
NCM for any anomalies filed	N/A	NA
All NCMs include method code, matrix, and prep batch	✓	✓
Method/sample/login/QAS checked and correct	✓	✓
Batch contains no more than 20 live samples	✓	✓
Worksheet Tab	1 st Level Reviewer	2 nd Level Reviewer
All samples properly preserved	N/A	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed properly in TALS	N/A	NA
All additional information is transcribed into TALS and is correct and raw data is attached	✓	✓
Comments/Observations are transcribed correctly in TALS	✓	✓
Reagents Tab	1 st Level Reviewer	2 nd Level Reviewer
All necessary reagents not expired and checked into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Internal Standard is added to the reagents	N/A	NA
All units are correctly transcribed into TALS	✓	✓

1st Level Reviewer: TQH

Date: 11/20/17

2nd Level Reviewer: VPM

Date: 11/20/17

Comments: _____

DI3

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Batch Number: 320-195754

Method Code: 320-PFAS_DI_Prep-320

Analyst: Nguyen, Toan O

Batch Open: 11/20/2017 10:10:00AM

Batch End: 11/20/2017 11:49:00AM

Preparation, Direct Inject PFAS

Input Sample Lab ID (Analytical Method)	SDG (Job #)	GrossWt TareWt	InitAmt FinAmt	PHs		Due Date	Analytical TAT	Div Rank	Comments	Output Sample Lab ID
				Rcvd	Adj1					
1 MB-320-195754/1 N/A	N/A		1.00 mL 1.66 mL			N/A	N/A	N/A		MB-320-195754/1-A
2 LCS-320-195754/2 N/A	N/A		1.00 mL 1.66 mL			N/A	N/A	N/A	spiked with 50 ul of 0.1 ppm solution into 250 ml blank, aliquotted 1ml	LCS-320-195754/2-A
3 LCSD-320-195754/3 N/A	N/A		1.00 mL 1.66 mL			N/A	N/A	N/A	spiked with 50 ul of 0.1 ppm solution into 250 ml blank, aliquotted 1ml	LCS-320-195754/3-A
4 320-33422-A-1 (PFAS_DI)	N/A (320-33422-1)		1.00 mL 1.66 mL			11/24/17	3_Day_RUSH	4		320-33422-A-1-A

3 day Rush #7 11/20/17

(To Accompany Samples to Instruments)

Analyst: Nguyen, Toan O

Batch End:

Batch Notes

Methanol ID 1089527

Analyst ID - IDA Reagent Drop Witness

Analyst ID - TA Reagent Drop
Witness

Batch Comment N/A

320-33422-A-1

Method Comments: RUSH - 3 day TAT

Aqueous Extraction Analysis Sheet

(To Accompany Samples to Instruments)

Analyst: Nguyen, Toan O

Batch Number: 320-195754

Method Code: 320-PFAS_DI_Prep-320

Batch Open: 11/20/2017 10:10:00AM

Batch End:

Reagent Additions Worksheet

Lab ID	Reagent Code	Amount Added	Final Amount	By	Witness
MB 320-195754/1	LCMPFCLLSU_00058	83 uL	1.66 mL	T&N 4/20/17	JNS 4/20/17
LCS 320-195754/2	LCMPFCLLSU_00058	83 uL	1.66 mL		
LCS 320-195754/2	LCPF CSP_00123	0.20 uL	1.66 mL		
LCSD 320-195754/3	LCMPFCLLSU_00058	83 uL	1.66 mL		
LCSD 320-195754/3	LCPF CSP_00123	0.20 uL	1.66 mL		
320-33422-A-1	LCMPFCLLSU_00058	83 uL	1.66 mL		

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Other Reagents:

Reagent

Amount/Units

Lot#:

Preparation Batch Number(s) 195754

Test PFAS-DI

Earliest Holding Time 12/14/17

Batch Information	1 st Level Reviewer	2 nd Level Reviewer
Date and time accurate and entered into TALS correctly	✓	✓
All necessary batch information complete and entered into TALS correctly	✓	✓
BD, FV, and AL initials are transcribed into the batch comment	N/A	NA
Sample List Tab	1 st Level Reviewer	2 nd Level Reviewer
Samples identified to the correct method	✓	✓
Holding time violation NCM filed	N/A	NA
MS/MSD or MS/DU NCM filed	✓	✓
NCM for any anomalies filed	N/A	NA
All NCMs include method code, matrix, and prep batch	✓	✓
Method/sample/login/QAS checked and correct	✓	✓
Batch contains no more than 20 live samples	✓	✓
Worksheet Tab	1 st Level Reviewer	2 nd Level Reviewer
All samples properly preserved	N/A	NA
Weights in anticipated range and not targeted	✓	✓
All additional test requirements performed, documented, and uploaded to TALS correctly (e.g. final amount, initial amount, turbidity, and CI Check)	✓	✓
The pH is transcribed properly in TALS	N/A	NA
All additional information is transcribed into TALS and is correct and raw data is attached	✓	✓
Comments/Observations are transcribed correctly in TALS	✓	✓
Reagents Tab	1 st Level Reviewer	2 nd Level Reviewer
All necessary reagents not expired and checked into TALS	✓	✓
All spike amounts correct and added to necessary samples and QC	✓	✓
Internal Standard is added to the reagents	N/A	NA
All units are correctly transcribed into TALS	✓	✓

1st Level Reviewer: TBN

Date: 11/20/17

2nd Level Reviewer: VPM

Date: 11/20/17

Comments: _____

Subcontract Data

Shipping and Receiving Documents

Chain of Custody Record

TestAmerica

SHARON KUBIE AND ANNE BOYD

Client Information Client Contact: Jasmine Mullins Company: ARCADIS U.S. Inc. Address: 855 Route 146 Suite 210 City: Clifton Park State, Zip: NY, 12065 Phone: 646-248-4208 Email: jasmine.mullins@arcadis.com		Analysis Requested Due Date Requested: 11/17/17 TAT Requested (days): 5 PO #: 00266405.0000 WO #: 48016949 Project #: NY Standby - Columbia Mills 2017 Site: COLUMBIA MILLS		Sample Identification <table border="1"> <thead> <tr> <th>Sample ID</th> <th>Sample Date</th> <th>Sample Time</th> <th>Sample Type (C=Comp, G=Grab)</th> <th>Matrix (Water, Solid, On-wash, etc.)</th> <th>Preservation Code</th> <th>Field Filtered Sample (Yes or No)</th> <th>PFAS, DI - PFAS, UCMR List</th> <th>8082A - PCBs</th> <th>8260C - SIM - Volatile SIM</th> </tr> </thead> <tbody> <tr><td>MW-1S</td><td>10/31/17</td><td>1525</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>6</td><td>4</td></tr> <tr><td>MW-1D</td><td>10/31/17</td><td>1525</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>MW-2S</td><td>11/1/17</td><td>1025</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>MW-2D</td><td>11/1/17</td><td>1040</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>MW-3S</td><td>10/31/17</td><td>1710</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>MW-3D</td><td>10/1/17</td><td>1255</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>MW-4S</td><td>11/1/17</td><td>1220</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>MW-4D</td><td>11/1/17</td><td>1230</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>NPPRS</td><td>10/2/17</td><td>1250</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>SPPRS</td><td>10/2/17</td><td>1230</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> <tr><td>EB-PROBE</td><td>10/31/17</td><td>1110</td><td>G</td><td>Water</td><td>N</td><td>N</td><td>N</td><td>2</td><td>3</td></tr> </tbody> </table>		Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Solid, On-wash, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	PFAS, DI - PFAS, UCMR List	8082A - PCBs	8260C - SIM - Volatile SIM	MW-1S	10/31/17	1525	G	Water	N	N	N	6	4	MW-1D	10/31/17	1525	G	Water	N	N	N	2	3	MW-2S	11/1/17	1025	G	Water	N	N	N	2	3	MW-2D	11/1/17	1040	G	Water	N	N	N	2	3	MW-3S	10/31/17	1710	G	Water	N	N	N	2	3	MW-3D	10/1/17	1255	G	Water	N	N	N	2	3	MW-4S	11/1/17	1220	G	Water	N	N	N	2	3	MW-4D	11/1/17	1230	G	Water	N	N	N	2	3	NPPRS	10/2/17	1250	G	Water	N	N	N	2	3	SPPRS	10/2/17	1230	G	Water	N	N	N	2	3	EB-PROBE	10/31/17	1110	G	Water	N	N	N	2	3	Special Instructions/Note: 460-144244 Chain of Custody 144244	
Sample ID	Sample Date	Sample Time	Sample Type (C=Comp, G=Grab)	Matrix (Water, Solid, On-wash, etc.)	Preservation Code	Field Filtered Sample (Yes or No)	PFAS, DI - PFAS, UCMR List	8082A - PCBs	8260C - SIM - Volatile SIM																																																																																																																						
MW-1S	10/31/17	1525	G	Water	N	N	N	6	4																																																																																																																						
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MW-3D	10/1/17	1255	G	Water	N	N	N	2	3																																																																																																																						
MW-4S	11/1/17	1220	G	Water	N	N	N	2	3																																																																																																																						
MW-4D	11/1/17	1230	G	Water	N	N	N	2	3																																																																																																																						
NPPRS	10/2/17	1250	G	Water	N	N	N	2	3																																																																																																																						
SPPRS	10/2/17	1230	G	Water	N	N	N	2	3																																																																																																																						
EB-PROBE	10/31/17	1110	G	Water	N	N	N	2	3																																																																																																																						
Carrier Tracking No(s): 480-103780-24588.1 Page: 1 of 2 Job #: 144244		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:		Special Instructions/Note: 144244																																																																																																																											
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Client Information Client Contact: Jasmine Mullins Phone: 646-248-4208 E-Mail: judy.stone@testamericainc.com		Lab PM: Stone, Judy L. E-Mail: judy.stone@testamericainc.com		Carrier Tracking No(s): 480-103780-24588.2 Page: 2 of 2	
Sample Information Sample: J. Mullins Phone: 646-248-4208		Job #: 144244			
Company: ARCADIS U.S. Inc. Address: 8855 Route 146 Suite 210 City: Clifton Park State: NY Zip: 12065 Phone: 646-248-4208 Email: jasmine.mullins@arcadis.com		Analysis Requested			
Due Date Requested: TAT Requested (days): STD.		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:			
PO #: 00266405.0000 WO #: Project #: 48016949 Site: COLUMBIA MILLS		Special Instructions/Note:			
Sample Identification EB-TUBING FB-X LEACHATE MW-X-DUP TRIP BLANK 11-1-17		Field Filtered Sample (Yes or No) PFAS, DI - PFAS, UCMR List 8082A - PCBs 8260C - SIM - Volatile SIM			
Sample Date 10/31/17 11/1/17 10/31/17 10/31/17 11/1/17		Sample Time 1125 1315 1205 — —		Sample Type (C=Comp, G=grab) G G G G G	
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Relinquished by: [Signature] Relinquished by: [Signature] Relinquished by: [Signature]					

17/12/24

✓

IR Gun #

9

Cooler Temperatures

	RAW	CORRECTED
Cooler #7:	°C	°C
Cooler #8:	°C	°C
Cooler #9:	°C	°C

[illegible]

If pH adjustments are required record the information below:

Preservative Name/Conc.:

Volume of Preservative used (ml):

Lot # of Preservative(s):

Expiration Date:

The appropriate Project Manager and Department Manager should be notified about the samples which were pH adjusted.

* Samples for Metal analysis which are out of compliance must be acidified at least 24 hours prior to analysis.

EDS-WI-038, Rev 4, 06/09/2014

Initials:

Date: 11/2/17

Chain of Custody Record

10 Hazelwood Drive
Amherst, NY 14228-2298
Phone (716) 691-2600 Fax (716) 691-7991

[illegible]

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-144244-1

Login Number: 144244
List Number: 1
Creator: DiGuardia, Joseph L

List Source: TestAmerica Edison

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	N/A	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	
Samples received within 48 hours of sampling.	True	
Samples requiring field filtration have been filtered in the field.	True	
Chlorine Residual checked.	N/A	

Login Sample Receipt Checklist

Client: ARCADIS U.S. Inc

Job Number: 460-144244-1

Login Number: 144244

List Number: 2

Creator: Her, David A

List Source: TestAmerica Sacramento

List Creation: 11/03/17 04:59 PM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are intact.	N/A	
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	0.7 C
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?	False	Received project as a subcontract.
There are no discrepancies between the containers received and the COC.	True	
Samples are received within Holding Time (excluding tests with immediate HTs)	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified.	N/A	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
Containers requiring zero headspace have no headspace or bubble is $<6\text{mm}$ (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	