

ANALYTICAL REPORT

Job Number: 480-175175-1

Job Description: SMP B - Crystal Cleaners

Contract Number: C100700

For:

New York State D.E.C.

625 Broadway

Division of Environmental Remediation

Albany, NY 12233-7014

Attention: Brianna Scharf



Approved for release.
Wyatt B. Watson
Project Management Assistant I
9/29/2020 8:33 AM

Designee for
Judy L. Stone, Senior Project Manager
10 Hazelwood Drive, Amherst, NY, 14228-2298
(484)685-0868
Judy.Stone@Eurofinset.com
09/29/2020

The test results in this report meet all NELAP requirements for analytes for which accreditation is required or available. Any exceptions to the NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory. All questions regarding this test report should be directed to the TestAmerica Project Manager who has signed this report. TestAmerica Buffalo NELAC Certifications: CADPH 01169CA, FLDOH E87672, ILEPA 200003, KSDOH E-10187, LADEQ 30708, MDH 036-999-337, NHELAP 2973, NJDEP NY455, NYDOH 10026, ORELAP NY200003, PADEP 68-00281, TXCEQ T-104704412-10-1

The test results in this report relate only to the samples as received by the laboratory and will meet all requirements of the methodology, with any exceptions noted. This report shall not be reproduced except in full, without the express written approval of the laboratory. All questions should be directed to the Eurofins TestAmerica Project Manager.

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Eurofins TestAmerica, Buffalo

10 Hazelwood Drive, Amherst, NY 14228-2298

Tel (716) 691-2600 Fax (716) 691-7991 www.testamericainc.com



Table of Contents

Cover Title Page	1
Data Summaries	5
Report Narrative	5
Sample Summary	6
Detection Summary	7
Method Summary	8
Client Sample Results	9
Surrogate Summary	22
Isotope Dilution Summary	23
QC Sample Results	25
Definitions	38
QC Association	39
Chronicle	41
Certification Summary	43
Organic Sample Data	44
GC/MS VOA	44
Method 8260C	44
Method 8260C QC Summary	45
Method 8260C Sample Data	62
Standards Data	129
Method 8260C ICAL Data	129
Method 8260C CCAL Data	209
Raw QC Data	230
Method 8260C Tune Data	230
Method 8260C Blank Data	242
Method 8260C LCS/LCSD Data	260

Table of Contents

Method 8260C MS/MSD Data	273
Method 8260C Run Logs	283
Method 8260C Prep Data	286
GC/MS Semi VOA	291
Method 8270D SIM-ID	291
Method 8270D SIM-ID QC Summary	292
Method 8270D SIM-ID Sample Data	301
Standards Data	313
Method 8270D SIM-ID ICAL Data	313
Method 8270D SIM-ID CCAL Data	327
Raw QC Data	333
Method 8270D SIM-ID Tune Data	333
Method 8270D SIM-ID Blank Data	346
Method 8270D SIM-ID LCS/LCSD Data	350
Method 8270D SIM-ID MS/MSD Data	353
Method 8270D SIM-ID Run Logs	359
Method 8270D SIM-ID Prep Data	361
LCMS	362
PFC_IDA	362
PFC_IDA QC Summary	363
PFC_IDA Sample Data	375
Standards Data	512
PFC_IDA ICAL Data	512
PFC_IDA CCAL Data	622
Raw QC Data	746
PFC_IDA Blank Data	746

Table of Contents

PFC_IDA LCS/LCSD Data	822
PFC_IDA MS/MSD Data	841
PFC_IDA Run Logs	886
PFC_IDA Prep Data	889
Subcontracted Data	891
Shipping and Receiving Documents	892
Client Chain of Custody	893
Sample Receipt Checklist	896

Job Narrative
480-175175-1

Comments

No additional comments.

Receipt

The samples were received on 9/17/2020 8:00 AM; the samples arrived in good condition, and where required, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.0° C and 3.3° C.

GC/MS VOA

Method 8260C: The following sample was diluted to bring the concentration of target analytes within the calibration range: CC-MW-2 (480-175175-2). Elevated reporting limits (RLs) are provided.

Method 8260C: The continuing calibration verification (CCV) associated with batch 480-550111 recovered above the upper control limit for Carbon tetrachloride. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. The associated samples are impacted: CC-MW-1 (480-175175-1), CC-MW-2 (480-175175-2), CC-MW-3 (480-175175-3), CC-MW-5 (480-175175-4), CC-MW-4 (480-175175-5), CC-MW-6 (480-175175-6) and TRIP BLANK (480-175175-8).

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

GC/MS 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.

Sample Summary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-175175-1	CC-MW-1	Water	09/14/20 14:35	09/17/20 08:00	
480-175175-2	CC-MW-2	Water	09/15/20 12:15	09/17/20 08:00	
480-175175-3	CC-MW-3	Water	09/15/20 13:30	09/17/20 08:00	
480-175175-4	CC-MW-5	Water	09/15/20 15:25	09/17/20 08:00	
480-175175-5	CC-MW-4	Water	09/15/20 16:25	09/17/20 08:00	
480-175175-6	CC-MW-6	Water	09/15/20 17:40	09/17/20 08:00	
480-175175-7	CC-EQUIPMENT BLANK	Water	09/16/20 08:55	09/17/20 08:00	
480-175175-8	TRIP BLANK	Water	09/15/20 00:00	09/17/20 08:00	

Detection Summary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-1

Lab Sample ID: 480-175175-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanesulfonic acid (PFBS)	1.8		1.8	0.57	ng/L	1			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.1	J	1.8	0.79	ng/L	1			537 (modified)	Total/NA

Client Sample ID: CC-MW-2

Lab Sample ID: 480-175175-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	3.4		2.0	1.6	ug/L	2			8260C	Total/NA
Methylene Chloride	2.2		2.0	0.88	ug/L	2			8260C	Total/NA
Tetrachloroethene	140		2.0	0.72	ug/L	2			8260C	Total/NA
Trichloroethene	6.5		2.0	0.92	ug/L	2			8260C	Total/NA
Perfluorobutanoic acid (PFBA)	2.2	J	4.4	1.0	ng/L	1			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	2.1		1.8	0.96	ng/L	1			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	2.0		1.8	0.74	ng/L	1			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	0.90	J	1.8	0.41	ng/L	1			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	2.5		1.8	0.87	ng/L	1			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.2		1.8	0.56	ng/L	1			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.8	0.60	ng/L	1			537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.8	0.77	ng/L	1			537 (modified)	Total/NA

Client Sample ID: CC-MW-3

Lab Sample ID: 480-175175-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
cis-1,2-Dichloroethene	1.3		1.0	0.81	ug/L	1			8260C	Total/NA
Tetrachloroethene	29		1.0	0.36	ug/L	1			8260C	Total/NA
Trichloroethene	0.72	J	1.0	0.46	ug/L	1			8260C	Total/NA

Client Sample ID: CC-MW-5

Lab Sample ID: 480-175175-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.42	J	1.0	0.16	ug/L	1			8260C	Total/NA

Client Sample ID: CC-MW-4

Lab Sample ID: 480-175175-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	3.1	J	4.5	1.0	ng/L	1			537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	5.1		1.8	0.96	ng/L	1			537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	4.2		1.8	0.74	ng/L	1			537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	2.6		1.8	0.41	ng/L	1			537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	4.2		1.8	0.87	ng/L	1			537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.9		1.8	0.56	ng/L	1			537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	2.9		1.8	0.60	ng/L	1			537 (modified)	Total/NA

Client Sample ID: CC-MW-6

Lab Sample ID: 480-175175-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil	Fac	D	Method	Prep Type
Methyl tert-butyl ether	0.44	J	1.0	0.16	ug/L	1			8260C	Total/NA

Client Sample ID: CC-EQUIPMENT BLANK

Lab Sample ID: 480-175175-7

No Detections.

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-175175-8

No Detections.

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

Method Summary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL BUF
8270D SIM ID	Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)	SW846	TAL BUF
537 (modified)	Fluorinated Alkyl Substances	EPA	TAL BUR
3510C	Liquid-Liquid Extraction (Separatory Funnel)	SW846	TAL BUF
3535	Solid-Phase Extraction (SPE)	SW846	TAL BUR
5030C	Purge and Trap	SW846	TAL BUF

Protocol References:

EPA = US Environmental Protection Agency

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

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-1

Lab Sample ID: 480-175175-1

Date Collected: 09/14/20 14:35

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/18/20 12:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/18/20 12:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/18/20 12:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/18/20 12:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/18/20 12:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/18/20 12:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/18/20 12:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/18/20 12:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/18/20 12:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/18/20 12:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/18/20 12:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/18/20 12:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/18/20 12:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/18/20 12:02	1
2-Hexanone	ND		5.0	1.2	ug/L			09/18/20 12:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/18/20 12:02	1
Acetone	ND		10	3.0	ug/L			09/18/20 12:02	1
Benzene	ND		1.0	0.41	ug/L			09/18/20 12:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/18/20 12:02	1
Bromoform	ND		1.0	0.26	ug/L			09/18/20 12:02	1
Bromomethane	ND		1.0	0.69	ug/L			09/18/20 12:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/18/20 12:02	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/18/20 12:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/18/20 12:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/18/20 12:02	1
Chloroethane	ND		1.0	0.32	ug/L			09/18/20 12:02	1
Chloroform	ND		1.0	0.34	ug/L			09/18/20 12:02	1
Chloromethane	ND		1.0	0.35	ug/L			09/18/20 12:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/18/20 12:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/18/20 12:02	1
Cyclohexane	ND		1.0	0.18	ug/L			09/18/20 12:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/18/20 12:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/18/20 12:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/18/20 12:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/18/20 12:02	1
Methyl acetate	ND		2.5	1.3	ug/L			09/18/20 12:02	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/18/20 12:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/18/20 12:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/18/20 12:02	1
Styrene	ND		1.0	0.73	ug/L			09/18/20 12:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/18/20 12:02	1
Toluene	ND		1.0	0.51	ug/L			09/18/20 12:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/18/20 12:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/18/20 12:02	1
Trichloroethene	ND		1.0	0.46	ug/L			09/18/20 12:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/18/20 12:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/18/20 12:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/18/20 12:02	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-1

Lab Sample ID: 480-175175-1

Date Collected: 09/14/20 14:35

Matrix: Water

Date Received: 09/17/20 08:00

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>09/18/20 12:02</i>	<i>1</i>

<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>99</i>		<i>80 - 120</i>					<i>09/18/20 12:02</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>101</i>		<i>77 - 120</i>					<i>09/18/20 12:02</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>99</i>		<i>73 - 120</i>					<i>09/18/20 12:02</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>103</i>		<i>75 - 123</i>					<i>09/18/20 12:02</i>	<i>1</i>

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,4-Dioxane</i>	<i>ND</i>		<i>0.19</i>	<i>0.097</i>	<i>ug/L</i>		<i>09/18/20 08:21</i>	<i>09/23/20 00:59</i>	<i>1</i>
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>1,4-Dioxane-d8</i>	<i>28</i>		<i>15 - 110</i>				<i>09/18/20 08:21</i>	<i>09/23/20 00:59</i>	<i>1</i>

Method: 537 (modified) - Fluorinated Alkyl Substances

<i>Analyte</i>	<i>Result</i>	<i>Qualifier</i>	<i>RL</i>	<i>MDL</i>	<i>Unit</i>	<i>D</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Perfluorobutanoic acid (PFBA)</i>	<i>ND</i>		<i>4.5</i>	<i>1.0</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluoropentanoic acid (PFPeA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.98</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorohexanoic acid (PFHxA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.75</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluoroheptanoic acid (PFHpA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.42</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorooctanoic acid (PFOA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.89</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorononanoic acid (PFNA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.52</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorodecanoic acid (PFDA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.42</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluoroundecanoic acid (PFUnA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.66</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorododecanoic acid (PFDoA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.42</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorotridecanoic acid (PFTriA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.39</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorotetradecanoic acid (PFTeA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.53</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorobutanesulfonic acid (PFBS)</i>	<i>1.8</i>		<i>1.8</i>	<i>0.57</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorohexanesulfonic acid (PFHxS)</i>	<i>ND</i>		<i>1.8</i>	<i>0.61</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluoroheptanesulfonic Acid (PFHpS)</i>	<i>ND</i>		<i>1.8</i>	<i>0.35</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorodecanesulfonic acid (PFDS)</i>	<i>ND</i>		<i>1.8</i>	<i>0.43</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorooctanesulfonic acid (PFOS)</i>	<i>1.1 J</i>		<i>1.8</i>	<i>0.79</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Perfluorooctanesulfonamide (FOSA)</i>	<i>ND</i>		<i>1.8</i>	<i>0.52</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)</i>	<i>ND</i>		<i>4.5</i>	<i>0.71</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)</i>	<i>ND</i>		<i>4.5</i>	<i>0.84</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>6:2 FTS</i>	<i>ND</i>		<i>4.5</i>	<i>0.65</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>8:2 FTS</i>	<i>ND</i>		<i>1.8</i>	<i>0.60</i>	<i>ng/L</i>		<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>13C8 FOSA</i>	<i>80</i>		<i>25 - 150</i>				<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>13C4 PFBA</i>	<i>92</i>		<i>25 - 150</i>				<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>13C5 PFPeA</i>	<i>98</i>		<i>25 - 150</i>				<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>13C2 PFHxA</i>	<i>99</i>		<i>50 - 150</i>				<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>13C4 PFHpA</i>	<i>101</i>		<i>50 - 150</i>				<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>13C4 PFOA</i>	<i>97</i>		<i>50 - 150</i>				<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>13C5 PFNA</i>	<i>94</i>		<i>50 - 150</i>				<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>
<i>13C2 PFDA</i>	<i>92</i>		<i>50 - 150</i>				<i>09/24/20 07:00</i>	<i>09/24/20 17:28</i>	<i>1</i>

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-1

Lab Sample ID: 480-175175-1

Date Collected: 09/14/20 14:35

Matrix: Water

Date Received: 09/17/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFUnA	92		50 - 150	09/24/20 07:00	09/24/20 17:28	1
13C2 PFDoA	75		50 - 150	09/24/20 07:00	09/24/20 17:28	1
13C2 PFTeDA	85		50 - 150	09/24/20 07:00	09/24/20 17:28	1
13C3 PFBS	93		50 - 150	09/24/20 07:00	09/24/20 17:28	1
18O2 PFHxS	98		50 - 150	09/24/20 07:00	09/24/20 17:28	1
13C4 PFOS	93		50 - 150	09/24/20 07:00	09/24/20 17:28	1
d3-NMeFOSAA	86		50 - 150	09/24/20 07:00	09/24/20 17:28	1
d5-NEtFOSAA	87		50 - 150	09/24/20 07:00	09/24/20 17:28	1
M2-6:2 FTS	91		25 - 150	09/24/20 07:00	09/24/20 17:28	1
M2-8:2 FTS	104		25 - 150	09/24/20 07:00	09/24/20 17:28	1

Client Sample ID: CC-MW-2

Lab Sample ID: 480-175175-2

Date Collected: 09/15/20 12:15

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		2.0	1.6	ug/L			09/18/20 12:26	2
1,1,2,2-Tetrachloroethane	ND		2.0	0.42	ug/L			09/18/20 12:26	2
1,1,2-Trichloroethane	ND		2.0	0.46	ug/L			09/18/20 12:26	2
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62	ug/L			09/18/20 12:26	2
1,1-Dichloroethane	ND		2.0	0.76	ug/L			09/18/20 12:26	2
1,1-Dichloroethene	ND		2.0	0.58	ug/L			09/18/20 12:26	2
1,2,4-Trichlorobenzene	ND		2.0	0.82	ug/L			09/18/20 12:26	2
1,2-Dibromo-3-Chloropropane	ND		2.0	0.78	ug/L			09/18/20 12:26	2
1,2-Dichlorobenzene	ND		2.0	1.6	ug/L			09/18/20 12:26	2
1,2-Dichloroethane	ND		2.0	0.42	ug/L			09/18/20 12:26	2
1,2-Dichloropropane	ND		2.0	1.4	ug/L			09/18/20 12:26	2
1,3-Dichlorobenzene	ND		2.0	1.6	ug/L			09/18/20 12:26	2
1,4-Dichlorobenzene	ND		2.0	1.7	ug/L			09/18/20 12:26	2
2-Butanone (MEK)	ND		20	2.6	ug/L			09/18/20 12:26	2
2-Hexanone	ND		10	2.5	ug/L			09/18/20 12:26	2
4-Methyl-2-pentanone (MIBK)	ND		10	4.2	ug/L			09/18/20 12:26	2
Acetone	ND		20	6.0	ug/L			09/18/20 12:26	2
Benzene	ND		2.0	0.82	ug/L			09/18/20 12:26	2
Bromodichloromethane	ND		2.0	0.78	ug/L			09/18/20 12:26	2
Bromoform	ND		2.0	0.52	ug/L			09/18/20 12:26	2
Bromomethane	ND		2.0	1.4	ug/L			09/18/20 12:26	2
Carbon disulfide	ND		2.0	0.38	ug/L			09/18/20 12:26	2
Carbon tetrachloride	ND		2.0	0.54	ug/L			09/18/20 12:26	2
Chlorobenzene	ND		2.0	1.5	ug/L			09/18/20 12:26	2
Dibromochloromethane	ND		2.0	0.64	ug/L			09/18/20 12:26	2
Chloroethane	ND		2.0	0.64	ug/L			09/18/20 12:26	2
Chloroform	ND		2.0	0.68	ug/L			09/18/20 12:26	2
Chloromethane	ND		2.0	0.70	ug/L			09/18/20 12:26	2
cis-1,2-Dichloroethene	3.4		2.0	1.6	ug/L			09/18/20 12:26	2
cis-1,3-Dichloropropene	ND		2.0	0.72	ug/L			09/18/20 12:26	2
Cyclohexane	ND		2.0	0.36	ug/L			09/18/20 12:26	2
Dichlorodifluoromethane	ND		2.0	1.4	ug/L			09/18/20 12:26	2
Ethylbenzene	ND		2.0	1.5	ug/L			09/18/20 12:26	2

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-2

Lab Sample ID: 480-175175-2

Date Collected: 09/15/20 12:15

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane	ND		2.0	1.5	ug/L			09/18/20 12:26	2
Isopropylbenzene	ND		2.0	1.6	ug/L			09/18/20 12:26	2
Methyl acetate	ND		5.0	2.6	ug/L			09/18/20 12:26	2
Methyl tert-butyl ether	ND		2.0	0.32	ug/L			09/18/20 12:26	2
Methylcyclohexane	ND		2.0	0.32	ug/L			09/18/20 12:26	2
Methylene Chloride	2.2		2.0	0.88	ug/L			09/18/20 12:26	2
Styrene	ND		2.0	1.5	ug/L			09/18/20 12:26	2
Tetrachloroethene	140		2.0	0.72	ug/L			09/18/20 12:26	2
Toluene	ND		2.0	1.0	ug/L			09/18/20 12:26	2
trans-1,2-Dichloroethene	ND		2.0	1.8	ug/L			09/18/20 12:26	2
trans-1,3-Dichloropropene	ND		2.0	0.74	ug/L			09/18/20 12:26	2
Trichloroethene	6.5		2.0	0.92	ug/L			09/18/20 12:26	2
Trichlorofluoromethane	ND		2.0	1.8	ug/L			09/18/20 12:26	2
Vinyl chloride	ND		2.0	1.8	ug/L			09/18/20 12:26	2
Xylenes, Total	ND		4.0	1.3	ug/L			09/18/20 12:26	2

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/18/20 12:26	2

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/18/20 12:26	2
1,2-Dichloroethane-d4 (Surr)	101		77 - 120		09/18/20 12:26	2
4-Bromofluorobenzene (Surr)	101		73 - 120		09/18/20 12:26	2
Dibromofluoromethane (Surr)	100		75 - 123		09/18/20 12:26	2

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		09/18/20 08:21	09/23/20 02:07	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110				09/18/20 08:21	09/23/20 02:07	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	2.2	J	4.4	1.0	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluoropentanoic acid (PFPeA)	2.1		1.8	0.96	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorohexanoic acid (PFHxA)	2.0		1.8	0.74	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluoroheptanoic acid (PFHpA)	0.90	J	1.8	0.41	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorooctanoic acid (PFOA)	2.5		1.8	0.87	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.52	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.41	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.65	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.41	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.52	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorobutanesulfonic acid (PFBS)	4.2		1.8	0.56	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.8	0.60	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.43	ng/L		09/24/20 07:00	09/24/20 17:53	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-2

Lab Sample ID: 480-175175-2

Date Collected: 09/15/20 12:15

Matrix: Water

Date Received: 09/17/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.8	0.77	ng/L		09/24/20 07:00	09/24/20 17:53	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.51	ng/L		09/24/20 07:00	09/24/20 17:53	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.70	ng/L		09/24/20 07:00	09/24/20 17:53	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.83	ng/L		09/24/20 07:00	09/24/20 17:53	1
6:2 FTS	ND		4.4	0.64	ng/L		09/24/20 07:00	09/24/20 17:53	1
8:2 FTS	ND		1.8	0.59	ng/L		09/24/20 07:00	09/24/20 17:53	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	83		25 - 150				09/24/20 07:00	09/24/20 17:53	1
13C4 PFBA	91		25 - 150				09/24/20 07:00	09/24/20 17:53	1
13C5 PFPeA	101		25 - 150				09/24/20 07:00	09/24/20 17:53	1
13C2 PFHxA	98		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C4 PFHpA	106		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C4 PFOA	98		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C5 PFNA	97		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C2 PFDA	95		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C2 PFUnA	85		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C2 PFDoA	89		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C2 PFTeDA	86		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C3 PFBS	93		50 - 150				09/24/20 07:00	09/24/20 17:53	1
18O2 PFHxS	98		50 - 150				09/24/20 07:00	09/24/20 17:53	1
13C4 PFOS	96		50 - 150				09/24/20 07:00	09/24/20 17:53	1
d3-NMeFOSAA	88		50 - 150				09/24/20 07:00	09/24/20 17:53	1
d5-NEtFOSAA	97		50 - 150				09/24/20 07:00	09/24/20 17:53	1
M2-6:2 FTS	102		25 - 150				09/24/20 07:00	09/24/20 17:53	1
M2-8:2 FTS	94		25 - 150				09/24/20 07:00	09/24/20 17:53	1

Client Sample ID: CC-MW-3

Lab Sample ID: 480-175175-3

Date Collected: 09/15/20 13:30

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/18/20 12:49	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/18/20 12:49	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/18/20 12:49	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/18/20 12:49	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/18/20 12:49	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/18/20 12:49	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/18/20 12:49	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/18/20 12:49	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/18/20 12:49	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/18/20 12:49	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/18/20 12:49	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/18/20 12:49	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/18/20 12:49	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/18/20 12:49	1
2-Hexanone	ND		5.0	1.2	ug/L			09/18/20 12:49	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-3

Lab Sample ID: 480-175175-3

Date Collected: 09/15/20 13:30

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/18/20 12:49	1
Acetone	ND		10	3.0	ug/L			09/18/20 12:49	1
Benzene	ND		1.0	0.41	ug/L			09/18/20 12:49	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/18/20 12:49	1
Bromoform	ND		1.0	0.26	ug/L			09/18/20 12:49	1
Bromomethane	ND		1.0	0.69	ug/L			09/18/20 12:49	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/18/20 12:49	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/18/20 12:49	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/18/20 12:49	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/18/20 12:49	1
Chloroethane	ND		1.0	0.32	ug/L			09/18/20 12:49	1
Chloroform	ND		1.0	0.34	ug/L			09/18/20 12:49	1
Chloromethane	ND		1.0	0.35	ug/L			09/18/20 12:49	1
cis-1,2-Dichloroethene	1.3		1.0	0.81	ug/L			09/18/20 12:49	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/18/20 12:49	1
Cyclohexane	ND		1.0	0.18	ug/L			09/18/20 12:49	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/18/20 12:49	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/18/20 12:49	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/18/20 12:49	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/18/20 12:49	1
Methyl acetate	ND		2.5	1.3	ug/L			09/18/20 12:49	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/18/20 12:49	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/18/20 12:49	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/18/20 12:49	1
Styrene	ND		1.0	0.73	ug/L			09/18/20 12:49	1
Tetrachloroethene	29		1.0	0.36	ug/L			09/18/20 12:49	1
Toluene	ND		1.0	0.51	ug/L			09/18/20 12:49	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/18/20 12:49	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/18/20 12:49	1
Trichloroethene	0.72 J		1.0	0.46	ug/L			09/18/20 12:49	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/18/20 12:49	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/18/20 12:49	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/18/20 12:49	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/18/20 12:49	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/18/20 12:49	1
1,2-Dichloroethane-d4 (Surr)	102		77 - 120		09/18/20 12:49	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/18/20 12:49	1
Dibromofluoromethane (Surr)	105		75 - 123		09/18/20 12:49	1

Client Sample ID: CC-MW-5

Lab Sample ID: 480-175175-4

Date Collected: 09/15/20 15:25

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/18/20 13:14	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-5

Lab Sample ID: 480-175175-4

Date Collected: 09/15/20 15:25

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/18/20 13:14	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/18/20 13:14	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/18/20 13:14	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/18/20 13:14	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/18/20 13:14	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/18/20 13:14	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/18/20 13:14	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/18/20 13:14	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/18/20 13:14	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/18/20 13:14	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/18/20 13:14	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/18/20 13:14	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/18/20 13:14	1
2-Hexanone	ND		5.0	1.2	ug/L			09/18/20 13:14	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/18/20 13:14	1
Acetone	ND		10	3.0	ug/L			09/18/20 13:14	1
Benzene	ND		1.0	0.41	ug/L			09/18/20 13:14	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/18/20 13:14	1
Bromoform	ND		1.0	0.26	ug/L			09/18/20 13:14	1
Bromomethane	ND		1.0	0.69	ug/L			09/18/20 13:14	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/18/20 13:14	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/18/20 13:14	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/18/20 13:14	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/18/20 13:14	1
Chloroethane	ND		1.0	0.32	ug/L			09/18/20 13:14	1
Chloroform	ND		1.0	0.34	ug/L			09/18/20 13:14	1
Chloromethane	ND		1.0	0.35	ug/L			09/18/20 13:14	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/18/20 13:14	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/18/20 13:14	1
Cyclohexane	ND		1.0	0.18	ug/L			09/18/20 13:14	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/18/20 13:14	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/18/20 13:14	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/18/20 13:14	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/18/20 13:14	1
Methyl acetate	ND		2.5	1.3	ug/L			09/18/20 13:14	1
Methyl tert-butyl ether	0.42	J	1.0	0.16	ug/L			09/18/20 13:14	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/18/20 13:14	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/18/20 13:14	1
Styrene	ND		1.0	0.73	ug/L			09/18/20 13:14	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/18/20 13:14	1
Toluene	ND		1.0	0.51	ug/L			09/18/20 13:14	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/18/20 13:14	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/18/20 13:14	1
Trichloroethene	ND		1.0	0.46	ug/L			09/18/20 13:14	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/18/20 13:14	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/18/20 13:14	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/18/20 13:14	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/18/20 13:14	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-5

Lab Sample ID: 480-175175-4

Date Collected: 09/15/20 15:25

Matrix: Water

Date Received: 09/17/20 08:00

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/18/20 13:14	1
1,2-Dichloroethane-d4 (Surr)	99		77 - 120		09/18/20 13:14	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/18/20 13:14	1
Dibromofluoromethane (Surr)	103		75 - 123		09/18/20 13:14	1

Client Sample ID: CC-MW-4

Lab Sample ID: 480-175175-5

Date Collected: 09/15/20 16:25

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/18/20 13:37	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/18/20 13:37	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/18/20 13:37	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/18/20 13:37	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/18/20 13:37	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/18/20 13:37	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/18/20 13:37	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/18/20 13:37	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/18/20 13:37	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/18/20 13:37	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/18/20 13:37	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/18/20 13:37	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/18/20 13:37	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/18/20 13:37	1
2-Hexanone	ND		5.0	1.2	ug/L			09/18/20 13:37	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/18/20 13:37	1
Acetone	ND		10	3.0	ug/L			09/18/20 13:37	1
Benzene	ND		1.0	0.41	ug/L			09/18/20 13:37	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/18/20 13:37	1
Bromoform	ND		1.0	0.26	ug/L			09/18/20 13:37	1
Bromomethane	ND		1.0	0.69	ug/L			09/18/20 13:37	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/18/20 13:37	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/18/20 13:37	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/18/20 13:37	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/18/20 13:37	1
Chloroethane	ND		1.0	0.32	ug/L			09/18/20 13:37	1
Chloroform	ND		1.0	0.34	ug/L			09/18/20 13:37	1
Chloromethane	ND		1.0	0.35	ug/L			09/18/20 13:37	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/18/20 13:37	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/18/20 13:37	1
Cyclohexane	ND		1.0	0.18	ug/L			09/18/20 13:37	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/18/20 13:37	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/18/20 13:37	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/18/20 13:37	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/18/20 13:37	1
Methyl acetate	ND		2.5	1.3	ug/L			09/18/20 13:37	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/18/20 13:37	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/18/20 13:37	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/18/20 13:37	1

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-4

Lab Sample ID: 480-175175-5

Date Collected: 09/15/20 16:25

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		1.0	0.73	ug/L			09/18/20 13:37	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/18/20 13:37	1
Toluene	ND		1.0	0.51	ug/L			09/18/20 13:37	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/18/20 13:37	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/18/20 13:37	1
Trichloroethene	ND		1.0	0.46	ug/L			09/18/20 13:37	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/18/20 13:37	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/18/20 13:37	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/18/20 13:37	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/18/20 13:37	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/18/20 13:37	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/18/20 13:37	1
4-Bromofluorobenzene (Surr)	100		73 - 120		09/18/20 13:37	1
Dibromofluoromethane (Surr)	102		75 - 123		09/18/20 13:37	1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.19	0.095	ug/L		09/18/20 08:21	09/23/20 02:30	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	30		15 - 110				09/18/20 08:21	09/23/20 02:30	1

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	3.1	J	4.5	1.0	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluoropentanoic acid (PFPeA)	5.1		1.8	0.96	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorohexanoic acid (PFHxA)	4.2		1.8	0.74	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluoroheptanoic acid (PFHpA)	2.6		1.8	0.41	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorooctanoic acid (PFOA)	4.2		1.8	0.87	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.52	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.41	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.65	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.41	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.53	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorobutanesulfonic acid (PFBS)	4.9		1.8	0.56	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorohexanesulfonic acid (PFHxS)	2.9		1.8	0.60	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.43	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.78	ng/L		09/24/20 07:00	09/24/20 18:01	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.51	ng/L		09/24/20 07:00	09/24/20 18:01	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.70	ng/L		09/24/20 07:00	09/24/20 18:01	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.83	ng/L		09/24/20 07:00	09/24/20 18:01	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-4

Date Collected: 09/15/20 16:25

Date Received: 09/17/20 08:00

Lab Sample ID: 480-175175-5

Matrix: Water

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
6:2 FTS	ND		4.5	0.64	ng/L		09/24/20 07:00	09/24/20 18:01	1
8:2 FTS	ND		1.8	0.59	ng/L		09/24/20 07:00	09/24/20 18:01	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	85		25 - 150				09/24/20 07:00	09/24/20 18:01	1
13C4 PFBA	94		25 - 150				09/24/20 07:00	09/24/20 18:01	1
13C5 PFPeA	100		25 - 150				09/24/20 07:00	09/24/20 18:01	1
13C2 PFHxA	98		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C4 PFHpA	101		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C4 PFOA	99		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C5 PFNA	97		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C2 PFDA	87		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C2 PFUnA	86		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C2 PFDoA	77		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C2 PFTeDA	79		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C3 PFBS	93		50 - 150				09/24/20 07:00	09/24/20 18:01	1
18O2 PFHxS	99		50 - 150				09/24/20 07:00	09/24/20 18:01	1
13C4 PFOS	97		50 - 150				09/24/20 07:00	09/24/20 18:01	1
d3-NMeFOSAA	76		50 - 150				09/24/20 07:00	09/24/20 18:01	1
d5-NEtFOSAA	88		50 - 150				09/24/20 07:00	09/24/20 18:01	1
M2-6:2 FTS	100		25 - 150				09/24/20 07:00	09/24/20 18:01	1
M2-8:2 FTS	90		25 - 150				09/24/20 07:00	09/24/20 18:01	1

Client Sample ID: CC-MW-6

Date Collected: 09/15/20 17:40

Date Received: 09/17/20 08:00

Lab Sample ID: 480-175175-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/18/20 14:02	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/18/20 14:02	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/18/20 14:02	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/18/20 14:02	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/18/20 14:02	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/18/20 14:02	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/18/20 14:02	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/18/20 14:02	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/18/20 14:02	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/18/20 14:02	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/18/20 14:02	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/18/20 14:02	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/18/20 14:02	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/18/20 14:02	1
2-Hexanone	ND		5.0	1.2	ug/L			09/18/20 14:02	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/18/20 14:02	1
Acetone	ND		10	3.0	ug/L			09/18/20 14:02	1
Benzene	ND		1.0	0.41	ug/L			09/18/20 14:02	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/18/20 14:02	1
Bromoform	ND		1.0	0.26	ug/L			09/18/20 14:02	1
Bromomethane	ND		1.0	0.69	ug/L			09/18/20 14:02	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/18/20 14:02	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-6

Lab Sample ID: 480-175175-6

Date Collected: 09/15/20 17:40

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/18/20 14:02	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/18/20 14:02	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/18/20 14:02	1
Chloroethane	ND		1.0	0.32	ug/L			09/18/20 14:02	1
Chloroform	ND		1.0	0.34	ug/L			09/18/20 14:02	1
Chloromethane	ND		1.0	0.35	ug/L			09/18/20 14:02	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/18/20 14:02	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/18/20 14:02	1
Cyclohexane	ND		1.0	0.18	ug/L			09/18/20 14:02	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/18/20 14:02	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/18/20 14:02	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/18/20 14:02	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/18/20 14:02	1
Methyl acetate	ND		2.5	1.3	ug/L			09/18/20 14:02	1
Methyl tert-butyl ether	0.44	J	1.0	0.16	ug/L			09/18/20 14:02	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/18/20 14:02	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/18/20 14:02	1
Styrene	ND		1.0	0.73	ug/L			09/18/20 14:02	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/18/20 14:02	1
Toluene	ND		1.0	0.51	ug/L			09/18/20 14:02	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/18/20 14:02	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/18/20 14:02	1
Trichloroethene	ND		1.0	0.46	ug/L			09/18/20 14:02	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/18/20 14:02	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/18/20 14:02	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/18/20 14:02	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/18/20 14:02	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/18/20 14:02	1
1,2-Dichloroethane-d4 (Surr)	98		77 - 120		09/18/20 14:02	1
4-Bromofluorobenzene (Surr)	99		73 - 120		09/18/20 14:02	1
Dibromofluoromethane (Surr)	100		75 - 123		09/18/20 14:02	1

Client Sample ID: CC-EQUIPMENT BLANK

Lab Sample ID: 480-175175-7

Date Collected: 09/16/20 08:55

Matrix: Water

Date Received: 09/17/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.5	1.0	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluoropentanoic acid (PFPeA)	ND		1.8	0.97	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorohexanoic acid (PFHxA)	ND		1.8	0.74	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.41	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorooctanoic acid (PFOA)	ND		1.8	0.88	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorononanoic acid (PFNA)	ND		1.8	0.52	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorodecanoic acid (PFDA)	ND		1.8	0.41	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.65	ng/L		09/24/20 07:00	09/24/20 18:09	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-EQUIPMENT BLANK

Lab Sample ID: 480-175175-7

Date Collected: 09/16/20 08:55

Matrix: Water

Date Received: 09/17/20 08:00

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		1.8	0.41	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorotridecanoic acid (PFTrIA)	ND		1.8	0.38	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.53	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.56	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.60	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.43	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.78	ng/L		09/24/20 07:00	09/24/20 18:09	1
Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.51	ng/L		09/24/20 07:00	09/24/20 18:09	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.71	ng/L		09/24/20 07:00	09/24/20 18:09	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.83	ng/L		09/24/20 07:00	09/24/20 18:09	1
6:2 FTS	ND		4.5	0.64	ng/L		09/24/20 07:00	09/24/20 18:09	1
8:2 FTS	ND		1.8	0.59	ng/L		09/24/20 07:00	09/24/20 18:09	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	79		25 - 150				09/24/20 07:00	09/24/20 18:09	1
13C4 PFBA	78		25 - 150				09/24/20 07:00	09/24/20 18:09	1
13C5 PFPeA	104		25 - 150				09/24/20 07:00	09/24/20 18:09	1
13C2 PFHxA	105		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C4 PFHpA	108		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C4 PFOA	103		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C5 PFNA	105		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C2 PFDA	101		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C2 PFUnA	92		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C2 PFDoA	93		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C2 PFTeDA	78		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C3 PFBS	98		50 - 150				09/24/20 07:00	09/24/20 18:09	1
18O2 PFHxS	104		50 - 150				09/24/20 07:00	09/24/20 18:09	1
13C4 PFOS	100		50 - 150				09/24/20 07:00	09/24/20 18:09	1
d3-NMeFOSAA	81		50 - 150				09/24/20 07:00	09/24/20 18:09	1
d5-NEtFOSAA	94		50 - 150				09/24/20 07:00	09/24/20 18:09	1
M2-6:2 FTS	105		25 - 150				09/24/20 07:00	09/24/20 18:09	1
M2-8:2 FTS	99		25 - 150				09/24/20 07:00	09/24/20 18:09	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-175175-8

Date Collected: 09/15/20 00:00

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/18/20 14:26	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/18/20 14:26	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/18/20 14:26	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/18/20 14:26	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/18/20 14:26	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/18/20 14:26	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/18/20 14:26	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/18/20 14:26	1

Eurofins TestAmerica, Buffalo

Client Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: TRIP BLANK

Lab Sample ID: 480-175175-8

Date Collected: 09/15/20 00:00

Matrix: Water

Date Received: 09/17/20 08:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/18/20 14:26	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/18/20 14:26	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/18/20 14:26	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/18/20 14:26	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/18/20 14:26	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/18/20 14:26	1
2-Hexanone	ND		5.0	1.2	ug/L			09/18/20 14:26	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/18/20 14:26	1
Acetone	ND		10	3.0	ug/L			09/18/20 14:26	1
Benzene	ND		1.0	0.41	ug/L			09/18/20 14:26	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/18/20 14:26	1
Bromoform	ND		1.0	0.26	ug/L			09/18/20 14:26	1
Bromomethane	ND		1.0	0.69	ug/L			09/18/20 14:26	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/18/20 14:26	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/18/20 14:26	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/18/20 14:26	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/18/20 14:26	1
Chloroethane	ND		1.0	0.32	ug/L			09/18/20 14:26	1
Chloroform	ND		1.0	0.34	ug/L			09/18/20 14:26	1
Chloromethane	ND		1.0	0.35	ug/L			09/18/20 14:26	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/18/20 14:26	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/18/20 14:26	1
Cyclohexane	ND		1.0	0.18	ug/L			09/18/20 14:26	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/18/20 14:26	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/18/20 14:26	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/18/20 14:26	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/18/20 14:26	1
Methyl acetate	ND		2.5	1.3	ug/L			09/18/20 14:26	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/18/20 14:26	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/18/20 14:26	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/18/20 14:26	1
Styrene	ND		1.0	0.73	ug/L			09/18/20 14:26	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/18/20 14:26	1
Toluene	ND		1.0	0.51	ug/L			09/18/20 14:26	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/18/20 14:26	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/18/20 14:26	1
Trichloroethene	ND		1.0	0.46	ug/L			09/18/20 14:26	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/18/20 14:26	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/18/20 14:26	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/18/20 14:26	1

Tentatively Identified Compound	Est. Result	Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/18/20 14:26	1

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	99		80 - 120		09/18/20 14:26	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/18/20 14:26	1
4-Bromofluorobenzene (Surr)	97		73 - 120		09/18/20 14:26	1
Dibromofluoromethane (Surr)	100		75 - 123		09/18/20 14:26	1

Eurofins TestAmerica, Buffalo

Surrogate Summary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Surrogate Recovery (Acceptance Limits)			
		TOL (80-120)	DCA (77-120)	BFB (73-120)	DBFM (75-123)
480-175175-1	CC-MW-1	99	101	99	103
480-175175-1 MS	CC-MW-1	100	103	99	103
480-175175-1 MSD	CC-MW-1	102	103	102	102
480-175175-2	CC-MW-2	99	101	101	100
480-175175-3	CC-MW-3	99	102	99	105
480-175175-4	CC-MW-5	99	99	99	103
480-175175-5	CC-MW-4	99	100	100	102
480-175175-6	CC-MW-6	99	98	99	100
480-175175-8	TRIP BLANK	99	100	97	100
LCS 480-550111/5	Lab Control Sample	101	103	101	106
LCS 480-550367/6	Lab Control Sample	103	103	101	102
MB 480-550111/8	Method Blank	97	101	96	102
MB 480-550367/8	Method Blank	100	100	98	101

Surrogate Legend

TOL = Toluene-d8 (Surr)

DCA = 1,2-Dichloroethane-d4 (Surr)

BFB = 4-Bromofluorobenzene (Surr)

DBFM = Dibromofluoromethane (Surr)

Isotope Dilution Summary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	DXE (15-110)
480-175175-1	CC-MW-1	28
480-175175-1 MS	CC-MW-1	27
480-175175-1 MSD	CC-MW-1	28
480-175175-2	CC-MW-2	26
480-175175-5	CC-MW-4	30
LCS 480-550117/2-A	Lab Control Sample	25
MB 480-550117/1-A	Method Blank	31

Surrogate Legend

DXE = 1,4-Dioxane-d8

Method: 537 (modified) - Fluorinated Alkyl Substances

Matrix: Water

Prep Type: Total/NA

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFOSA (25-150)	PFBA (25-150)	PFPeA (25-150)	PFHxA (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFNA (50-150)	PFDA (50-150)
480-175175-1	CC-MW-1	80	92	98	99	101	97	94	92
480-175175-1 MS	CC-MW-1	77	93	99	102	99	97	95	83
480-175175-1 MSD	CC-MW-1	66	76	83	82	82	77	80	73
480-175175-2	CC-MW-2	83	91	101	98	106	98	97	95
480-175175-5	CC-MW-4	85	94	100	98	101	99	97	87
480-175175-7	CC-EQUIPMENT BLANK	79	78	104	105	108	103	105	101
LCS 200-159139/2-A	Lab Control Sample	79	103	105	100	99	100	101	91
MB 200-159139/1-A	Method Blank	56	80	78	78	75	73	72	77

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDaA (50-150)	PFTDA (50-150)	C3PFBS (50-150)	PFHxS (50-150)	PFOS (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)
480-175175-1	CC-MW-1	92	75	85	93	98	93	86	87
480-175175-1 MS	CC-MW-1	73	68	69	90	97	85	75	76
480-175175-1 MSD	CC-MW-1	69	70	63	82	79	78	74	76
480-175175-2	CC-MW-2	85	89	86	93	98	96	88	97
480-175175-5	CC-MW-4	86	77	79	93	99	97	76	88
480-175175-7	CC-EQUIPMENT BLANK	92	93	78	98	104	100	81	94
LCS 200-159139/2-A	Lab Control Sample	96	96	89	96	99	95	84	92
MB 200-159139/1-A	Method Blank	70	56	63	72	76	69	66	72

Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	M262FTS (25-150)	M282FTS (25-150)
480-175175-1	CC-MW-1	91	104
480-175175-1 MS	CC-MW-1	90	89
480-175175-1 MSD	CC-MW-1	77	85
480-175175-2	CC-MW-2	102	94
480-175175-5	CC-MW-4	100	90
480-175175-7	CC-EQUIPMENT BLANK	105	99
LCS 200-159139/2-A	Lab Control Sample	103	100
MB 200-159139/1-A	Method Blank	78	80

Surrogate Legend

PFOSA = 13C8 FOSA

Isotope Dilution Summary

Client: New York State D.E.C.

Job ID: 480-175175-1

Project/Site: SMP B - Crystal Cleaners

PFBA = $^{13}\text{C}_4$ PFBA

PFPeA = $^{13}\text{C}_5$ PFPeA

PFHxA = $^{13}\text{C}_2$ PFHxA

C4PFHA = $^{13}\text{C}_4$ PFHpA

PFOA = $^{13}\text{C}_4$ PFOA

PFNA = $^{13}\text{C}_5$ PFNA

PFDA = $^{13}\text{C}_2$ PFDA

PFUnA = $^{13}\text{C}_2$ PFUnA

PFDoA = $^{13}\text{C}_2$ PFDoA

PFTDA = $^{13}\text{C}_2$ PFTeDA

C3PFBS = $^{13}\text{C}_3$ PFBS

PFHxS = $^{18}\text{O}_2$ PFHxS

PFOS = $^{13}\text{C}_4$ PFOS

d3NMFOS = d3-NMeFOSAA

d5NEFOS = d5-NEtFOSAA

M262FTS = M2-6:2 FTS

M282FTS = M2-8:2 FTS

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Lab Sample ID: MB 480-550111/8

Matrix: Water

Analysis Batch: 550111

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/18/20 11:35	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/18/20 11:35	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/18/20 11:35	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/18/20 11:35	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/18/20 11:35	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/18/20 11:35	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/18/20 11:35	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/18/20 11:35	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/18/20 11:35	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/18/20 11:35	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/18/20 11:35	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/18/20 11:35	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/18/20 11:35	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/18/20 11:35	1
2-Hexanone	ND		5.0	1.2	ug/L			09/18/20 11:35	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/18/20 11:35	1
Acetone	ND		10	3.0	ug/L			09/18/20 11:35	1
Benzene	ND		1.0	0.41	ug/L			09/18/20 11:35	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/18/20 11:35	1
Bromoform	ND		1.0	0.26	ug/L			09/18/20 11:35	1
Bromomethane	ND		1.0	0.69	ug/L			09/18/20 11:35	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/18/20 11:35	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/18/20 11:35	1
Chlorobenzene	ND		1.0	0.75	ug/L			09/18/20 11:35	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/18/20 11:35	1
Chloroethane	ND		1.0	0.32	ug/L			09/18/20 11:35	1
Chloroform	ND		1.0	0.34	ug/L			09/18/20 11:35	1
Chloromethane	ND		1.0	0.35	ug/L			09/18/20 11:35	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/18/20 11:35	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/18/20 11:35	1
Cyclohexane	ND		1.0	0.18	ug/L			09/18/20 11:35	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/18/20 11:35	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/18/20 11:35	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/18/20 11:35	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/18/20 11:35	1
Methyl acetate	ND		2.5	1.3	ug/L			09/18/20 11:35	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/18/20 11:35	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/18/20 11:35	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/18/20 11:35	1
Styrene	ND		1.0	0.73	ug/L			09/18/20 11:35	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/18/20 11:35	1
Toluene	ND		1.0	0.51	ug/L			09/18/20 11:35	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/18/20 11:35	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/18/20 11:35	1
Trichloroethene	ND		1.0	0.46	ug/L			09/18/20 11:35	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/18/20 11:35	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/18/20 11:35	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/18/20 11:35	1

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Lab Sample ID: MB 480-550111/8

Matrix: Water

Analysis Batch: 550111

Client Sample ID: Method Blank

Prep Type: Total/NA

<i>Tentatively Identified Compound</i>	<i>Est. Result</i>	<i>Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>RT</i>	<i>CAS No.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Tentatively Identified Compound</i>	<i>None</i>		<i>ug/L</i>					<i>09/18/20 11:35</i>	<i>1</i>
<i>Surrogate</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
<i>Toluene-d8 (Surr)</i>	<i>97</i>		<i>80 - 120</i>					<i>09/18/20 11:35</i>	<i>1</i>
<i>1,2-Dichloroethane-d4 (Surr)</i>	<i>101</i>		<i>77 - 120</i>					<i>09/18/20 11:35</i>	<i>1</i>
<i>4-Bromofluorobenzene (Surr)</i>	<i>96</i>		<i>73 - 120</i>					<i>09/18/20 11:35</i>	<i>1</i>
<i>Dibromofluoromethane (Surr)</i>	<i>102</i>		<i>75 - 123</i>					<i>09/18/20 11:35</i>	<i>1</i>

Lab Sample ID: LCS 480-550111/5

Matrix: Water

Analysis Batch: 550111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

<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>%Rec. Limits</i>
1,1,1-Trichloroethane	25.0	28.0		ug/L		112	73 - 126
1,1,2,2-Tetrachloroethane	25.0	25.4		ug/L		102	76 - 120
1,1,2-Trichloroethane	25.0	25.9		ug/L		104	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.3		ug/L		117	61 - 148
1,1-Dichloroethane	25.0	27.5		ug/L		110	77 - 120
1,1-Dichloroethene	25.0	27.5		ug/L		110	66 - 127
1,2,4-Trichlorobenzene	25.0	26.5		ug/L		106	79 - 122
1,2-Dibromo-3-Chloropropane	25.0	28.8		ug/L		115	56 - 134
1,2-Dichlorobenzene	25.0	26.1		ug/L		104	80 - 124
1,2-Dichloroethane	25.0	25.5		ug/L		102	75 - 120
1,2-Dichloropropane	25.0	26.6		ug/L		106	76 - 120
1,3-Dichlorobenzene	25.0	26.1		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.1		ug/L		100	80 - 120
2-Butanone (MEK)	125	125		ug/L		100	57 - 140
2-Hexanone	125	133		ug/L		107	65 - 127
4-Methyl-2-pentanone (MIBK)	125	127		ug/L		102	71 - 125
Acetone	125	116		ug/L		93	56 - 142
Benzene	25.0	26.9		ug/L		107	71 - 124
Bromodichloromethane	25.0	28.6		ug/L		114	80 - 122
Bromoform	25.0	31.0		ug/L		124	61 - 132
Bromomethane	25.0	25.0		ug/L		100	55 - 144
Carbon disulfide	25.0	28.4		ug/L		113	59 - 134
Carbon tetrachloride	25.0	29.4		ug/L		118	72 - 134
Chlorobenzene	25.0	27.0		ug/L		108	80 - 120
Dibromochloromethane	25.0	28.3		ug/L		113	75 - 125
Chloroethane	25.0	24.8		ug/L		99	69 - 136
Chloroform	25.0	25.8		ug/L		103	73 - 127
Chloromethane	25.0	24.6		ug/L		98	68 - 124
cis-1,2-Dichloroethene	25.0	26.5		ug/L		106	74 - 124
cis-1,3-Dichloropropene	25.0	27.7		ug/L		111	74 - 124
Cyclohexane	25.0	29.3		ug/L		117	59 - 135
Dichlorodifluoromethane	25.0	23.4		ug/L		94	59 - 135
Ethylbenzene	25.0	27.1		ug/L		108	77 - 123
1,2-Dibromoethane	25.0	26.2		ug/L		105	77 - 120

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Lab Sample ID: LCS 480-550111/5

Matrix: Water

Analysis Batch: 550111

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Isopropylbenzene	25.0	26.6		ug/L		106	77 - 122
Methyl acetate	50.0	48.8		ug/L		98	74 - 133
Methyl tert-butyl ether	25.0	26.3		ug/L		105	77 - 120
Methylcyclohexane	25.0	29.6		ug/L		118	68 - 134
Methylene Chloride	25.0	25.8		ug/L		103	75 - 124
Styrene	25.0	27.1		ug/L		108	80 - 120
Tetrachloroethene	25.0	27.9		ug/L		112	74 - 122
Toluene	25.0	26.9		ug/L		107	80 - 122
trans-1,2-Dichloroethene	25.0	27.2		ug/L		109	73 - 127
trans-1,3-Dichloropropene	25.0	27.1		ug/L		108	80 - 120
Trichloroethene	25.0	26.7		ug/L		107	74 - 123
Trichlorofluoromethane	25.0	25.8		ug/L		103	62 - 150
Vinyl chloride	25.0	24.9		ug/L		100	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	101		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	106		75 - 123

Lab Sample ID: MB 480-550367/8

Matrix: Water

Analysis Batch: 550367

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		1.0	0.82	ug/L			09/21/20 11:08	1
1,1,2,2-Tetrachloroethane	ND		1.0	0.21	ug/L			09/21/20 11:08	1
1,1,2-Trichloroethane	ND		1.0	0.23	ug/L			09/21/20 11:08	1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		1.0	0.31	ug/L			09/21/20 11:08	1
1,1-Dichloroethane	ND		1.0	0.38	ug/L			09/21/20 11:08	1
1,1-Dichloroethene	ND		1.0	0.29	ug/L			09/21/20 11:08	1
1,2,4-Trichlorobenzene	ND		1.0	0.41	ug/L			09/21/20 11:08	1
1,2-Dibromo-3-Chloropropane	ND		1.0	0.39	ug/L			09/21/20 11:08	1
1,2-Dichlorobenzene	ND		1.0	0.79	ug/L			09/21/20 11:08	1
1,2-Dichloroethane	ND		1.0	0.21	ug/L			09/21/20 11:08	1
1,2-Dichloropropane	ND		1.0	0.72	ug/L			09/21/20 11:08	1
1,3-Dichlorobenzene	ND		1.0	0.78	ug/L			09/21/20 11:08	1
1,4-Dichlorobenzene	ND		1.0	0.84	ug/L			09/21/20 11:08	1
2-Butanone (MEK)	ND		10	1.3	ug/L			09/21/20 11:08	1
2-Hexanone	ND		5.0	1.2	ug/L			09/21/20 11:08	1
4-Methyl-2-pentanone (MIBK)	ND		5.0	2.1	ug/L			09/21/20 11:08	1
Acetone	ND		10	3.0	ug/L			09/21/20 11:08	1
Benzene	ND		1.0	0.41	ug/L			09/21/20 11:08	1
Bromodichloromethane	ND		1.0	0.39	ug/L			09/21/20 11:08	1
Bromoform	ND		1.0	0.26	ug/L			09/21/20 11:08	1
Bromomethane	ND		1.0	0.69	ug/L			09/21/20 11:08	1
Carbon disulfide	ND		1.0	0.19	ug/L			09/21/20 11:08	1
Carbon tetrachloride	ND		1.0	0.27	ug/L			09/21/20 11:08	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Lab Sample ID: MB 480-550367/8

Matrix: Water

Analysis Batch: 550367

Client Sample ID: Method Blank

Prep Type: Total/NA

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chlorobenzene	ND		1.0	0.75	ug/L			09/21/20 11:08	1
Dibromochloromethane	ND		1.0	0.32	ug/L			09/21/20 11:08	1
Chloroethane	ND		1.0	0.32	ug/L			09/21/20 11:08	1
Chloroform	ND		1.0	0.34	ug/L			09/21/20 11:08	1
Chloromethane	ND		1.0	0.35	ug/L			09/21/20 11:08	1
cis-1,2-Dichloroethene	ND		1.0	0.81	ug/L			09/21/20 11:08	1
cis-1,3-Dichloropropene	ND		1.0	0.36	ug/L			09/21/20 11:08	1
Cyclohexane	ND		1.0	0.18	ug/L			09/21/20 11:08	1
Dichlorodifluoromethane	ND		1.0	0.68	ug/L			09/21/20 11:08	1
Ethylbenzene	ND		1.0	0.74	ug/L			09/21/20 11:08	1
1,2-Dibromoethane	ND		1.0	0.73	ug/L			09/21/20 11:08	1
Isopropylbenzene	ND		1.0	0.79	ug/L			09/21/20 11:08	1
Methyl acetate	ND		2.5	1.3	ug/L			09/21/20 11:08	1
Methyl tert-butyl ether	ND		1.0	0.16	ug/L			09/21/20 11:08	1
Methylcyclohexane	ND		1.0	0.16	ug/L			09/21/20 11:08	1
Methylene Chloride	ND		1.0	0.44	ug/L			09/21/20 11:08	1
Styrene	ND		1.0	0.73	ug/L			09/21/20 11:08	1
Tetrachloroethene	ND		1.0	0.36	ug/L			09/21/20 11:08	1
Toluene	ND		1.0	0.51	ug/L			09/21/20 11:08	1
trans-1,2-Dichloroethene	ND		1.0	0.90	ug/L			09/21/20 11:08	1
trans-1,3-Dichloropropene	ND		1.0	0.37	ug/L			09/21/20 11:08	1
Trichloroethene	ND		1.0	0.46	ug/L			09/21/20 11:08	1
Trichlorofluoromethane	ND		1.0	0.88	ug/L			09/21/20 11:08	1
Vinyl chloride	ND		1.0	0.90	ug/L			09/21/20 11:08	1
Xylenes, Total	ND		2.0	0.66	ug/L			09/21/20 11:08	1

Tentatively Identified Compound	MB Est. Result	MB Qualifier	Unit	D	RT	CAS No.	Prepared	Analyzed	Dil Fac
Tentatively Identified Compound	None		ug/L					09/21/20 11:08	1

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Toluene-d8 (Surr)	100		80 - 120		09/21/20 11:08	1
1,2-Dichloroethane-d4 (Surr)	100		77 - 120		09/21/20 11:08	1
4-Bromofluorobenzene (Surr)	98		73 - 120		09/21/20 11:08	1
Dibromofluoromethane (Surr)	101		75 - 123		09/21/20 11:08	1

Lab Sample ID: LCS 480-550367/6

Matrix: Water

Analysis Batch: 550367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	25.0	26.3		ug/L		105	73 - 126
1,1,2,2-Tetrachloroethane	25.0	26.2		ug/L		105	76 - 120
1,1,2-Trichloroethane	25.0	25.6		ug/L		102	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.7		ug/L		111	61 - 148
1,1-Dichloroethane	25.0	26.4		ug/L		105	77 - 120
1,1-Dichloroethene	25.0	26.4		ug/L		105	66 - 127
1,2,4-Trichlorobenzene	25.0	26.3		ug/L		105	79 - 122

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Lab Sample ID: LCS 480-550367/6

Matrix: Water

Analysis Batch: 550367

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dibromo-3-Chloropropane	25.0	27.3		ug/L		109	56 - 134
1,2-Dichlorobenzene	25.0	26.2		ug/L		105	80 - 124
1,2-Dichloroethane	25.0	25.0		ug/L		100	75 - 120
1,2-Dichloropropane	25.0	26.2		ug/L		105	76 - 120
1,3-Dichlorobenzene	25.0	26.0		ug/L		104	77 - 120
1,4-Dichlorobenzene	25.0	25.0		ug/L		100	80 - 120
2-Butanone (MEK)	125	131		ug/L		105	57 - 140
2-Hexanone	125	138		ug/L		110	65 - 127
4-Methyl-2-pentanone (MIBK)	125	132		ug/L		106	71 - 125
Acetone	125	131		ug/L		105	56 - 142
Benzene	25.0	25.9		ug/L		103	71 - 124
Bromodichloromethane	25.0	27.1		ug/L		108	80 - 122
Bromoform	25.0	28.8		ug/L		115	61 - 132
Bromomethane	25.0	24.2		ug/L		97	55 - 144
Carbon disulfide	25.0	26.3		ug/L		105	59 - 134
Carbon tetrachloride	25.0	26.4		ug/L		106	72 - 134
Chlorobenzene	25.0	25.6		ug/L		102	80 - 120
Dibromochloromethane	25.0	27.0		ug/L		108	75 - 125
Chloroethane	25.0	24.1		ug/L		97	69 - 136
Chloroform	25.0	25.1		ug/L		101	73 - 127
Chloromethane	25.0	23.9		ug/L		96	68 - 124
cis-1,2-Dichloroethene	25.0	25.2		ug/L		101	74 - 124
cis-1,3-Dichloropropene	25.0	25.5		ug/L		102	74 - 124
Cyclohexane	25.0	28.0		ug/L		112	59 - 135
Dichlorodifluoromethane	25.0	21.4		ug/L		86	59 - 135
Ethylbenzene	25.0	26.7		ug/L		107	77 - 123
1,2-Dibromoethane	25.0	26.1		ug/L		104	77 - 120
Isopropylbenzene	25.0	26.5		ug/L		106	77 - 122
Methyl acetate	50.0	48.9		ug/L		98	74 - 133
Methyl tert-butyl ether	25.0	24.8		ug/L		99	77 - 120
Methylcyclohexane	25.0	27.8		ug/L		111	68 - 134
Methylene Chloride	25.0	23.9		ug/L		96	75 - 124
Styrene	25.0	26.4		ug/L		106	80 - 120
Tetrachloroethene	25.0	27.0		ug/L		108	74 - 122
Toluene	25.0	26.5		ug/L		106	80 - 122
trans-1,2-Dichloroethene	25.0	25.8		ug/L		103	73 - 127
trans-1,3-Dichloropropene	25.0	26.5		ug/L		106	80 - 120
Trichloroethene	25.0	26.0		ug/L		104	74 - 123
Trichlorofluoromethane	25.0	24.4		ug/L		98	62 - 150
Vinyl chloride	25.0	24.0		ug/L		96	65 - 133

Surrogate	LCS %Recovery	LCS Qualifier	Limits
Toluene-d8 (Surr)	103		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	101		73 - 120
Dibromofluoromethane (Surr)	102		75 - 123

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Lab Sample ID: 480-175175-1 MS

Matrix: Water

Analysis Batch: 550367

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,1,1-Trichloroethane	ND		25.0	29.9		ug/L		120	73 - 126
1,1,2,2-Tetrachloroethane	ND		25.0	28.4		ug/L		114	76 - 120
1,1,2-Trichloroethane	ND		25.0	26.8		ug/L		107	76 - 122
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	29.2		ug/L		117	61 - 148
1,1-Dichloroethane	ND		25.0	30.0		ug/L		120	77 - 120
1,1-Dichloroethene	ND		25.0	31.0		ug/L		124	66 - 127
1,2,4-Trichlorobenzene	ND		25.0	28.9		ug/L		116	79 - 122
1,2-Dibromo-3-Chloropropane	ND		25.0	28.4		ug/L		114	56 - 134
1,2-Dichlorobenzene	ND		25.0	28.8		ug/L		115	80 - 124
1,2-Dichloroethane	ND		25.0	27.3		ug/L		109	75 - 120
1,2-Dichloropropane	ND		25.0	29.3		ug/L		117	76 - 120
1,3-Dichlorobenzene	ND		25.0	29.1		ug/L		116	77 - 120
1,4-Dichlorobenzene	ND		25.0	27.9		ug/L		111	78 - 124
2-Butanone (MEK)	ND		125	131		ug/L		105	57 - 140
2-Hexanone	ND		125	141		ug/L		113	65 - 127
4-Methyl-2-pentanone (MIBK)	ND		125	139		ug/L		111	71 - 125
Acetone	ND		125	126		ug/L		101	56 - 142
Benzene	ND		25.0	29.4		ug/L		118	71 - 124
Bromodichloromethane	ND		25.0	28.6		ug/L		115	80 - 122
Bromoform	ND		25.0	25.4		ug/L		102	61 - 132
Bromomethane	ND		25.0	29.0		ug/L		116	55 - 144
Carbon disulfide	ND		25.0	28.3		ug/L		113	59 - 134
Carbon tetrachloride	ND		25.0	28.9		ug/L		116	72 - 134
Chlorobenzene	ND		25.0	28.1		ug/L		112	80 - 120
Dibromochloromethane	ND		25.0	26.7		ug/L		107	75 - 125
Chloroethane	ND		25.0	29.0		ug/L		116	69 - 136
Chloroform	ND		25.0	27.8		ug/L		111	73 - 127
Chloromethane	ND		25.0	29.4		ug/L		118	68 - 124
cis-1,2-Dichloroethene	ND		25.0	28.7		ug/L		115	74 - 124
cis-1,3-Dichloropropene	ND		25.0	27.9		ug/L		112	74 - 124
Cyclohexane	ND		25.0	30.2		ug/L		121	59 - 135
Dichlorodifluoromethane	ND		25.0	23.8		ug/L		95	59 - 135
Ethylbenzene	ND		25.0	29.5		ug/L		118	77 - 123
1,2-Dibromoethane	ND		25.0	26.7		ug/L		107	77 - 120
Isopropylbenzene	ND		25.0	30.2		ug/L		121	77 - 122
Methyl acetate	ND		50.0	49.2		ug/L		98	74 - 133
Methyl tert-butyl ether	ND		25.0	26.9		ug/L		108	77 - 120
Methylcyclohexane	ND		25.0	29.2		ug/L		117	68 - 134
Methylene Chloride	ND		25.0	27.3		ug/L		109	75 - 124
Styrene	ND		25.0	29.0		ug/L		116	80 - 120
Tetrachloroethene	ND		25.0	29.6		ug/L		118	74 - 122
Toluene	ND		25.0	29.4		ug/L		118	80 - 122
trans-1,2-Dichloroethene	ND		25.0	30.3		ug/L		121	73 - 127
trans-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	80 - 120
Trichloroethene	ND		25.0	29.2		ug/L		117	74 - 123
Trichlorofluoromethane	ND		25.0	28.1		ug/L		112	62 - 150
Vinyl chloride	ND		25.0	29.7		ug/L		119	65 - 133

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Lab Sample ID: 480-175175-1 MS

Matrix: Water

Analysis Batch: 550367

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Surrogate	MS %Recovery	MS Qualifier	Limits
Toluene-d8 (Surr)	100		80 - 120
1,2-Dichloroethane-d4 (Surr)	103		77 - 120
4-Bromofluorobenzene (Surr)	99		73 - 120
Dibromofluoromethane (Surr)	103		75 - 123

Lab Sample ID: 480-175175-1 MSD

Matrix: Water

Analysis Batch: 550367

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,1,1-Trichloroethane	ND		25.0	28.4		ug/L		114	73 - 126	5	15
1,1,2,2-Tetrachloroethane	ND		25.0	27.3		ug/L		109	76 - 120	4	15
1,1,2-Trichloroethane	ND		25.0	26.6		ug/L		106	76 - 122	1	15
1,1,2-Trichloro-1,2,2-trifluoroethane	ND		25.0	27.2		ug/L		109	61 - 148	7	20
1,1-Dichloroethane	ND		25.0	29.1		ug/L		116	77 - 120	3	20
1,1-Dichloroethene	ND		25.0	29.2		ug/L		117	66 - 127	6	16
1,2,4-Trichlorobenzene	ND		25.0	27.1		ug/L		109	79 - 122	6	20
1,2-Dibromo-3-Chloropropane	ND		25.0	27.7		ug/L		111	56 - 134	3	15
1,2-Dichlorobenzene	ND		25.0	27.4		ug/L		110	80 - 124	5	20
1,2-Dichloroethane	ND		25.0	26.5		ug/L		106	75 - 120	3	20
1,2-Dichloropropane	ND		25.0	28.4		ug/L		114	76 - 120	3	20
1,3-Dichlorobenzene	ND		25.0	27.4		ug/L		110	77 - 120	6	20
1,4-Dichlorobenzene	ND		25.0	26.7		ug/L		107	78 - 124	4	20
2-Butanone (MEK)	ND		125	131		ug/L		105	57 - 140	0	20
2-Hexanone	ND		125	142		ug/L		114	65 - 127	1	15
4-Methyl-2-pentanone (MIBK)	ND		125	139		ug/L		111	71 - 125	0	35
Acetone	ND		125	127		ug/L		101	56 - 142	1	15
Benzene	ND		25.0	28.1		ug/L		112	71 - 124	5	13
Bromodichloromethane	ND		25.0	28.1		ug/L		112	80 - 122	2	15
Bromoform	ND		25.0	26.7		ug/L		107	61 - 132	5	15
Bromomethane	ND		25.0	27.3		ug/L		109	55 - 144	6	15
Carbon disulfide	ND		25.0	26.2		ug/L		105	59 - 134	8	15
Carbon tetrachloride	ND		25.0	27.7		ug/L		111	72 - 134	4	15
Chlorobenzene	ND		25.0	28.0		ug/L		112	80 - 120	0	25
Dibromochloromethane	ND		25.0	26.7		ug/L		107	75 - 125	0	15
Chloroethane	ND		25.0	28.4		ug/L		114	69 - 136	2	15
Chloroform	ND		25.0	26.9		ug/L		108	73 - 127	3	20
Chloromethane	ND		25.0	28.3		ug/L		113	68 - 124	4	15
cis-1,2-Dichloroethene	ND		25.0	26.7		ug/L		107	74 - 124	7	15
cis-1,3-Dichloropropene	ND		25.0	26.2		ug/L		105	74 - 124	6	15
Cyclohexane	ND		25.0	28.4		ug/L		114	59 - 135	6	20
Dichlorodifluoromethane	ND		25.0	22.0		ug/L		88	59 - 135	8	20
Ethylbenzene	ND		25.0	29.0		ug/L		116	77 - 123	2	15
1,2-Dibromoethane	ND		25.0	26.6		ug/L		107	77 - 120	0	15
Isopropylbenzene	ND		25.0	28.6		ug/L		114	77 - 122	5	20
Methyl acetate	ND		50.0	46.4		ug/L		93	74 - 133	6	20
Methyl tert-butyl ether	ND		25.0	25.9		ug/L		104	77 - 120	4	37
Methylcyclohexane	ND		25.0	27.8		ug/L		111	68 - 134	5	20

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

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

Lab Sample ID: 480-175175-1 MSD

Matrix: Water

Analysis Batch: 550367

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Methylene Chloride	ND		25.0	25.5		ug/L		102	75 - 124	7	15
Styrene	ND		25.0	28.4		ug/L		114	80 - 120	2	20
Tetrachloroethene	ND		25.0	29.1		ug/L		116	74 - 122	2	20
Toluene	ND		25.0	29.1		ug/L		116	80 - 122	1	15
trans-1,2-Dichloroethene	ND		25.0	27.9		ug/L		112	73 - 127	8	20
trans-1,3-Dichloropropene	ND		25.0	26.5		ug/L		106	80 - 120	0	15
Trichloroethene	ND		25.0	27.8		ug/L		111	74 - 123	5	16
Trichlorofluoromethane	ND		25.0	26.7		ug/L		107	62 - 150	5	20
Vinyl chloride	ND		25.0	27.6		ug/L		110	65 - 133	7	15

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

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution)

Lab Sample ID: MB 480-550117/1-A

Matrix: Water

Analysis Batch: 550627

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 550117

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dioxane	ND		0.20	0.10	ug/L		09/18/20 08:21	09/22/20 23:29	1
Isotope Dilution	MB %Recovery	MB Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	31		15 - 110				09/18/20 08:21	09/22/20 23:29	1

Lab Sample ID: LCS 480-550117/2-A

Matrix: Water

Analysis Batch: 550627

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 550117

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	1.00	1.15		ug/L		115	40 - 140
Isotope Dilution	LCS %Recovery	LCS Qualifier	Limits				
1,4-Dioxane-d8	25		15 - 110				

Lab Sample ID: 480-175175-1 MS

Matrix: Water

Analysis Batch: 550627

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Prep Batch: 550117

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dioxane	ND		0.952	1.10		ug/L		116	40 - 140
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
1,4-Dioxane-d8	27		15 - 110						

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Method: 8270D SIM ID - Semivolatile Organic Compounds (GC/MS SIM / Isotope Dilution) (Continued)

Lab Sample ID: 480-175175-1 MSD

Matrix: Water

Analysis Batch: 550627

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Prep Batch: 550117

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
1,4-Dioxane	ND		0.962	1.12		ug/L		116	40 - 140	1	20
MSD MSD											
Isotope Dilution	%Recovery	Qualifier	Limits								
1,4-Dioxane-d8	28		15 - 110								

Method: 537 (modified) - Fluorinated Alkyl Substances

Lab Sample ID: MB 200-159139/1-A

Matrix: Water

Analysis Batch: 159169

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 159139

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		5.0	1.1	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	1.1	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.83	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.46	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.98	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.58	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.46	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.73	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.46	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.59	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.63	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.67	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.39	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.48	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.87	ng/L		09/24/20 07:00	09/24/20 16:21	1
Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.57	ng/L		09/24/20 07:00	09/24/20 16:21	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.79	ng/L		09/24/20 07:00	09/24/20 16:21	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.93	ng/L		09/24/20 07:00	09/24/20 16:21	1
6:2 FTS	ND		5.0	0.72	ng/L		09/24/20 07:00	09/24/20 16:21	1
8:2 FTS	ND		2.0	0.66	ng/L		09/24/20 07:00	09/24/20 16:21	1
MB MB									
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
13C8 FOSA	56		25 - 150				09/24/20 07:00	09/24/20 16:21	1
13C4 PFBA	80		25 - 150				09/24/20 07:00	09/24/20 16:21	1
13C5 PFPeA	78		25 - 150				09/24/20 07:00	09/24/20 16:21	1
13C2 PFHxA	78		50 - 150				09/24/20 07:00	09/24/20 16:21	1
13C4 PFHpA	75		50 - 150				09/24/20 07:00	09/24/20 16:21	1
13C4 PFOA	73		50 - 150				09/24/20 07:00	09/24/20 16:21	1
13C5 PFNA	72		50 - 150				09/24/20 07:00	09/24/20 16:21	1
13C2 PFDA	77		50 - 150				09/24/20 07:00	09/24/20 16:21	1
13C2 PFUnA	70		50 - 150				09/24/20 07:00	09/24/20 16:21	1
13C2 PFDoA	56		50 - 150				09/24/20 07:00	09/24/20 16:21	1

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: MB 200-159139/1-A

Matrix: Water

Analysis Batch: 159169

Client Sample ID: Method Blank

Prep Type: Total/NA

Prep Batch: 159139

Isotope Dilution	MB MB		Limits	Prepared	Analyzed	Dil Fac
	%Recovery	Qualifier				
13C2 PFTeDA	63		50 - 150	09/24/20 07:00	09/24/20 16:21	1
13C3 PFBS	72		50 - 150	09/24/20 07:00	09/24/20 16:21	1
18O2 PFHxS	76		50 - 150	09/24/20 07:00	09/24/20 16:21	1
13C4 PFOS	69		50 - 150	09/24/20 07:00	09/24/20 16:21	1
d3-NMeFOSAA	66		50 - 150	09/24/20 07:00	09/24/20 16:21	1
d5-NEtFOSAA	72		50 - 150	09/24/20 07:00	09/24/20 16:21	1
M2-6:2 FTS	78		25 - 150	09/24/20 07:00	09/24/20 16:21	1
M2-8:2 FTS	80		25 - 150	09/24/20 07:00	09/24/20 16:21	1

Lab Sample ID: LCS 200-159139/2-A

Matrix: Water

Analysis Batch: 159169

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 159139

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorobutanoic acid (PFBA)	40.0	37.8		ng/L		95	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	37.8		ng/L		94	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	41.6		ng/L		104	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	39.8		ng/L		99	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	37.8		ng/L		94	70 - 130
Perfluorononanoic acid (PFNA)	40.0	38.7		ng/L		97	70 - 130
Perfluorodecanoic acid (PFDA)	40.0	38.9		ng/L		97	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	35.7		ng/L		89	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	37.5		ng/L		94	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	36.9		ng/L		92	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	39.3		ng/L		98	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	37.0		ng/L		105	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.4		ng/L		92	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.2		ng/L		105	50 - 150
Perfluorodecanesulfonic acid (PFDS)	38.6	37.4		ng/L		97	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	36.2		ng/L		98	70 - 130
Perfluorooctanesulfonamide (FOSA)	40.0	40.3		ng/L		101	50 - 150
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	45.1		ng/L		113	70 - 130
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	40.7		ng/L		102	70 - 130
6:2 FTS	37.9	35.8		ng/L		94	50 - 150
8:2 FTS	38.3	34.5		ng/L		90	50 - 150

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
13C8 FOSA	79		25 - 150
13C4 PFBA	103		25 - 150
13C5 PFPeA	105		25 - 150

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: LCS 200-159139/2-A

Matrix: Water

Analysis Batch: 159169

Client Sample ID: Lab Control Sample

Prep Type: Total/NA

Prep Batch: 159139

Isotope Dilution	LCS		Limits
	%Recovery	Qualifier	
13C2 PFHxA	100		50 - 150
13C4 PFHpA	99		50 - 150
13C4 PFOA	100		50 - 150
13C5 PFNA	101		50 - 150
13C2 PFDA	91		50 - 150
13C2 PFUnA	96		50 - 150
13C2 PFDoA	96		50 - 150
13C2 PFTeDA	89		50 - 150
13C3 PFBS	96		50 - 150
18O2 PFHxS	99		50 - 150
13C4 PFOS	95		50 - 150
d3-NMeFOSAA	84		50 - 150
d5-NEtFOSAA	92		50 - 150
M2-6:2 FTS	103		25 - 150
M2-8:2 FTS	100		25 - 150

Lab Sample ID: 480-175175-1 MS

Matrix: Water

Analysis Batch: 159169

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Prep Batch: 159139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS		Unit	D	%Rec	%Rec. Limits
				Result	Qualifier				
Perfluorobutanoic acid (PFBA)	ND		35.3	32.1		ng/L		91	40 - 160
Perfluoropentanoic acid (PFPeA)	ND		35.3	32.5		ng/L		92	40 - 160
Perfluorohexanoic acid (PFHxA)	ND		35.3	34.2		ng/L		97	40 - 160
Perfluoroheptanoic acid (PFHpA)	ND		35.3	34.9		ng/L		99	40 - 160
Perfluorooctanoic acid (PFOA)	ND		35.3	33.8		ng/L		96	40 - 160
Perfluorononanoic acid (PFNA)	ND		35.3	32.6		ng/L		92	40 - 160
Perfluorodecanoic acid (PFDA)	ND		35.3	34.0		ng/L		96	40 - 160
Perfluoroundecanoic acid (PFUnA)	ND		35.3	35.6		ng/L		101	40 - 160
Perfluorododecanoic acid (PFDoA)	ND		35.3	34.9		ng/L		99	40 - 160
Perfluorotridecanoic acid (PFTriA)	ND		35.3	38.2		ng/L		108	40 - 160
Perfluorotetradecanoic acid (PFTeA)	ND		35.3	38.1		ng/L		108	40 - 160
Perfluorobutanesulfonic acid (PFBS)	1.8		31.2	32.3		ng/L		98	40 - 160
Perfluorohexanesulfonic acid (PFHxS)	ND		32.1	29.4		ng/L		92	40 - 160
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.6	36.6		ng/L		109	40 - 160
Perfluorodecanesulfonic acid (PFDS)	ND		34.0	29.8		ng/L		88	40 - 160
Perfluorooctanesulfonic acid (PFOS)	1.1	J	32.7	33.8		ng/L		100	40 - 160
Perfluorooctanesulfonamide (FOSA)	ND		35.3	34.4		ng/L		98	40 - 160
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.3	34.6		ng/L		98	40 - 160
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.3	30.5		ng/L		86	40 - 160

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-175175-1 MS

Matrix: Water

Analysis Batch: 159169

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Prep Batch: 159139

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
6:2 FTS	ND		33.5	35.6		ng/L		106	40 - 160
8:2 FTS	ND		33.8	32.0		ng/L		95	40 - 160
Isotope Dilution	MS %Recovery	MS Qualifier	Limits						
13C8 FOSA	77		25 - 150						
13C4 PFBA	93		25 - 150						
13C5 PFPeA	99		25 - 150						
13C2 PFHxA	102		50 - 150						
13C4 PFHpA	99		50 - 150						
13C4 PFOA	97		50 - 150						
13C5 PFNA	95		50 - 150						
13C2 PFDA	83		50 - 150						
13C2 PFUnA	73		50 - 150						
13C2 PFDoA	68		50 - 150						
13C2 PFTeDA	69		50 - 150						
13C3 PFBS	90		50 - 150						
18O2 PFHxS	97		50 - 150						
13C4 PFOS	85		50 - 150						
d3-NMeFOSAA	75		50 - 150						
d5-NEtFOSAA	76		50 - 150						
M2-6:2 FTS	90		25 - 150						
M2-8:2 FTS	89		25 - 150						

Lab Sample ID: 480-175175-1 MSD

Matrix: Water

Analysis Batch: 159169

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Prep Batch: 159139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorobutanoic acid (PFBA)	ND		35.5	35.8		ng/L		101	40 - 160	11	30
Perfluoropentanoic acid (PFPeA)	ND		35.5	36.1		ng/L		102	40 - 160	11	30
Perfluorohexanoic acid (PFHxA)	ND		35.5	37.2		ng/L		105	40 - 160	8	20
Perfluoroheptanoic acid (PFHpA)	ND		35.5	35.7		ng/L		101	40 - 160	2	20
Perfluorooctanoic acid (PFOA)	ND		35.5	36.4		ng/L		103	40 - 160	7	20
Perfluorononanoic acid (PFNA)	ND		35.5	36.6		ng/L		103	40 - 160	12	20
Perfluorodecanoic acid (PFDA)	ND		35.5	37.4		ng/L		105	40 - 160	9	20
Perfluoroundecanoic acid (PFUnA)	ND		35.5	37.8		ng/L		107	40 - 160	6	20
Perfluorododecanoic acid (PFDoA)	ND		35.5	37.6		ng/L		106	40 - 160	7	20
Perfluorotridecanoic acid (PFTriA)	ND		35.5	35.2		ng/L		99	40 - 160	8	20
Perfluorotetradecanoic acid (PFTeA)	ND		35.5	41.5		ng/L		117	40 - 160	8	20
Perfluorobutanesulfonic acid (PFBS)	1.8		31.4	34.8		ng/L		105	40 - 160	7	20
Perfluorohexanesulfonic acid (PFHxS)	ND		32.3	33.4		ng/L		104	40 - 160	13	20
Perfluoroheptanesulfonic Acid (PFHpS)	ND		33.8	37.3		ng/L		111	40 - 160	2	30
Perfluorodecanesulfonic acid (PFDS)	ND		34.2	32.4		ng/L		95	40 - 160	8	30

Eurofins TestAmerica, Buffalo

QC Sample Results

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Method: 537 (modified) - Fluorinated Alkyl Substances (Continued)

Lab Sample ID: 480-175175-1 MSD

Matrix: Water

Analysis Batch: 159169

Client Sample ID: CC-MW-1

Prep Type: Total/NA

Prep Batch: 159139

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Perfluorooctanesulfonic acid (PFOS)	1.1	J	32.9	35.0		ng/L		103	40 - 160	4	20
Perfluorooctanesulfonamide (FOSA)	ND		35.5	37.4		ng/L		105	40 - 160	8	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		35.5	33.2		ng/L		94	40 - 160	4	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		35.5	32.6		ng/L		92	40 - 160	7	20
6:2 FTS	ND		33.6	34.4		ng/L		102	40 - 160	3	30
8:2 FTS	ND		34.0	32.1		ng/L		95	40 - 160	1	30

Isotope Dilution	MSD %Recovery	MSD Qualifier	Limits
13C8 FOSA	66		25 - 150
13C4 PFBA	76		25 - 150
13C5 PFPeA	83		25 - 150
13C2 PFHxA	82		50 - 150
13C4 PFHpA	82		50 - 150
13C4 PFOA	77		50 - 150
13C5 PFNA	80		50 - 150
13C2 PFDA	73		50 - 150
13C2 PFUnA	69		50 - 150
13C2 PFDoA	70		50 - 150
13C2 PFTeDA	63		50 - 150
13C3 PFBS	82		50 - 150
18O2 PFHxS	79		50 - 150
13C4 PFOS	78		50 - 150
d3-NMeFOSAA	74		50 - 150
d5-NEtFOSAA	76		50 - 150
M2-6:2 FTS	77		25 - 150
M2-8:2 FTS	85		25 - 150

Definitions/Glossary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Qualifiers

GC/MS VOA

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

LCMS

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

Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	Listed under the "D" column to designate that the result is reported on a dry weight basis
%R	Percent Recovery
CFL	Contains Free Liquid
CFU	Colony Forming Unit
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)
MCL	EPA recommended "Maximum Contaminant Level"
MDA	Minimum Detectable Activity (Radiochemistry)
MDC	Minimum Detectable Concentration (Radiochemistry)
MDL	Method Detection Limit
ML	Minimum Level (Dioxin)
MPN	Most Probable Number
MQL	Method Quantitation Limit
NC	Not Calculated
ND	Not Detected at the reporting limit (or MDL or EDL if shown)
NEG	Negative / Absent
POS	Positive / Present
PQL	Practical Quantitation Limit
PRES	Presumptive
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)
TNTC	Too Numerous To Count

QC Association Summary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

GC/MS VOA

Analysis Batch: 550111

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175175-1	CC-MW-1	Total/NA	Water	8260C	
480-175175-2	CC-MW-2	Total/NA	Water	8260C	
480-175175-3	CC-MW-3	Total/NA	Water	8260C	
480-175175-4	CC-MW-5	Total/NA	Water	8260C	
480-175175-5	CC-MW-4	Total/NA	Water	8260C	
480-175175-6	CC-MW-6	Total/NA	Water	8260C	
480-175175-8	TRIP BLANK	Total/NA	Water	8260C	
MB 480-550111/8	Method Blank	Total/NA	Water	8260C	
LCS 480-550111/5	Lab Control Sample	Total/NA	Water	8260C	

Analysis Batch: 550367

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 480-550367/8	Method Blank	Total/NA	Water	8260C	
LCS 480-550367/6	Lab Control Sample	Total/NA	Water	8260C	
480-175175-1 MS	CC-MW-1	Total/NA	Water	8260C	
480-175175-1 MSD	CC-MW-1	Total/NA	Water	8260C	

GC/MS Semi VOA

Prep Batch: 550117

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175175-1	CC-MW-1	Total/NA	Water	3510C	
480-175175-2	CC-MW-2	Total/NA	Water	3510C	
480-175175-5	CC-MW-4	Total/NA	Water	3510C	
MB 480-550117/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-550117/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-175175-1 MS	CC-MW-1	Total/NA	Water	3510C	
480-175175-1 MSD	CC-MW-1	Total/NA	Water	3510C	

Analysis Batch: 550627

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175175-1	CC-MW-1	Total/NA	Water	8270D SIM ID	550117
480-175175-2	CC-MW-2	Total/NA	Water	8270D SIM ID	550117
480-175175-5	CC-MW-4	Total/NA	Water	8270D SIM ID	550117
MB 480-550117/1-A	Method Blank	Total/NA	Water	8270D SIM ID	550117
LCS 480-550117/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	550117
480-175175-1 MS	CC-MW-1	Total/NA	Water	8270D SIM ID	550117
480-175175-1 MSD	CC-MW-1	Total/NA	Water	8270D SIM ID	550117

LCMS

Prep Batch: 159139

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175175-1	CC-MW-1	Total/NA	Water	3535	
480-175175-2	CC-MW-2	Total/NA	Water	3535	
480-175175-5	CC-MW-4	Total/NA	Water	3535	
480-175175-7	CC-EQUIPMENT BLANK	Total/NA	Water	3535	
MB 200-159139/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-159139/2-A	Lab Control Sample	Total/NA	Water	3535	
480-175175-1 MS	CC-MW-1	Total/NA	Water	3535	
480-175175-1 MSD	CC-MW-1	Total/NA	Water	3535	

QC Association Summary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

LCMS

Analysis Batch: 159169

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175175-1	CC-MW-1	Total/NA	Water	537 (modified)	159139
480-175175-2	CC-MW-2	Total/NA	Water	537 (modified)	159139
480-175175-5	CC-MW-4	Total/NA	Water	537 (modified)	159139
480-175175-7	CC-EQUIPMENT BLANK	Total/NA	Water	537 (modified)	159139
MB 200-159139/1-A	Method Blank	Total/NA	Water	537 (modified)	159139
LCS 200-159139/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	159139
480-175175-1 MS	CC-MW-1	Total/NA	Water	537 (modified)	159139
480-175175-1 MSD	CC-MW-1	Total/NA	Water	537 (modified)	159139

Lab Chronicle

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-1

Lab Sample ID: 480-175175-1

Date Collected: 09/14/20 14:35

Matrix: Water

Date Received: 09/17/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	550111	09/18/20 12:02	CRL	TAL BUF
Total/NA	Prep	3510C			550117	09/18/20 08:21	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	550627	09/23/20 00:59	PJQ	TAL BUF
Total/NA	Prep	3535			159139	09/24/20 07:00	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	159169	09/24/20 17:28	BWC	TAL BUR

Client Sample ID: CC-MW-2

Lab Sample ID: 480-175175-2

Date Collected: 09/15/20 12:15

Matrix: Water

Date Received: 09/17/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		2	550111	09/18/20 12:26	CRL	TAL BUF
Total/NA	Prep	3510C			550117	09/18/20 08:21	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	550627	09/23/20 02:07	PJQ	TAL BUF
Total/NA	Prep	3535			159139	09/24/20 07:00	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	159169	09/24/20 17:53	BWC	TAL BUR

Client Sample ID: CC-MW-3

Lab Sample ID: 480-175175-3

Date Collected: 09/15/20 13:30

Matrix: Water

Date Received: 09/17/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	550111	09/18/20 12:49	CRL	TAL BUF

Client Sample ID: CC-MW-5

Lab Sample ID: 480-175175-4

Date Collected: 09/15/20 15:25

Matrix: Water

Date Received: 09/17/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	550111	09/18/20 13:14	CRL	TAL BUF

Client Sample ID: CC-MW-4

Lab Sample ID: 480-175175-5

Date Collected: 09/15/20 16:25

Matrix: Water

Date Received: 09/17/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	550111	09/18/20 13:37	CRL	TAL BUF
Total/NA	Prep	3510C			550117	09/18/20 08:21	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	550627	09/23/20 02:30	PJQ	TAL BUF
Total/NA	Prep	3535			159139	09/24/20 07:00	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	159169	09/24/20 18:01	BWC	TAL BUR

Lab Chronicle

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Client Sample ID: CC-MW-6

Date Collected: 09/15/20 17:40

Date Received: 09/17/20 08:00

Lab Sample ID: 480-175175-6

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	550111	09/18/20 14:02	CRL	TAL BUF

Client Sample ID: CC-EQUIPMENT BLANK

Date Collected: 09/16/20 08:55

Date Received: 09/17/20 08:00

Lab Sample ID: 480-175175-7

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			159139	09/24/20 07:00	TPB	TAL BUR
Total/NA	Analysis	537 (modified)		1	159169	09/24/20 18:09	BWC	TAL BUR

Client Sample ID: TRIP BLANK

Date Collected: 09/15/20 00:00

Date Received: 09/17/20 08:00

Lab Sample ID: 480-175175-8

Matrix: Water

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Analysis	8260C		1	550111	09/18/20 14:26	CRL	TAL BUF

Laboratory References:

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

TAL BUR = Eurofins TestAmerica, Burlington, 30 Community Drive, Suite 11, South Burlington, VT 05403, TEL (802)660-1990

Accreditation/Certification Summary

Client: New York State D.E.C.
Project/Site: SMP B - Crystal Cleaners

Job ID: 480-175175-1

Laboratory: Eurofins TestAmerica, Buffalo

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10026	04-01-21

Laboratory: Eurofins TestAmerica, Burlington

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

Authority	Program	Identification Number	Expiration Date
New York	NELAP	10391	04-01-21

The following analytes are included in this report, but the laboratory is not certified by the governing authority. This list may include analytes for which the agency does not offer certification.

Analysis Method	Prep Method	Matrix	Analyte
537 (modified)	3535	Water	6:2 FTS
537 (modified)	3535	Water	8:2 FTS
537 (modified)	3535	Water	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)
537 (modified)	3535	Water	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)
537 (modified)	3535	Water	Perfluorobutanesulfonic acid (PFBS)
537 (modified)	3535	Water	Perfluorobutanoic acid (PFBA)
537 (modified)	3535	Water	Perfluorodecanesulfonic acid (PFDS)
537 (modified)	3535	Water	Perfluorodecanoic acid (PFDA)
537 (modified)	3535	Water	Perfluorododecanoic acid (PFDaA)
537 (modified)	3535	Water	Perfluoroheptanesulfonic Acid (PFHpS)
537 (modified)	3535	Water	Perfluoroheptanoic acid (PFHpA)
537 (modified)	3535	Water	Perfluorohexanesulfonic acid (PFHxS)
537 (modified)	3535	Water	Perfluorohexanoic acid (PFHxA)
537 (modified)	3535	Water	Perfluorononanoic acid (PFNA)
537 (modified)	3535	Water	Perfluorooctanesulfonamide (FOSA)
537 (modified)	3535	Water	Perfluorooctanesulfonic acid (PFOS)
537 (modified)	3535	Water	Perfluorooctanoic acid (PFOA)
537 (modified)	3535	Water	Perfluoropentanoic acid (PFPeA)
537 (modified)	3535	Water	Perfluorotetradecanoic acid (PFTeA)
537 (modified)	3535	Water	Perfluorotridecanoic acid (PFTriA)
537 (modified)	3535	Water	Perfluoroundecanoic acid (PFUnA)

Method 8260C

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

FORM II
GC/MS VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-175175-1

SDG No.: _____

Matrix: Water

Level: Low

GC Column (1): ZB-624 (20) ID: 0.18 (mm)

Client Sample ID	Lab Sample ID	DBFM #	DCA #	TOL #	BFB #
CC-MW-1	480-175175-1	103	101	99	99
CC-MW-2	480-175175-2	100	101	99	101
CC-MW-3	480-175175-3	105	102	99	99
CC-MW-5	480-175175-4	103	99	99	99
CC-MW-4	480-175175-5	102	100	99	100
CC-MW-6	480-175175-6	100	98	99	99
TRIP BLANK	480-175175-8	100	100	99	97
	MB 480-550111/8	102	101	97	96
	MB 480-550367/8	101	100	100	98
	LCS 480-550111/5	106	103	101	101
	LCS 480-550367/6	102	103	103	101
CC-MW-1 MS	480-175175-1 MS	103	103	100	99
CC-MW-1 MSD	480-175175-1 MSD	102	103	102	102

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

QC LIMITS
75-123
77-120
80-120
73-120

Column to be used to flag recovery values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T6881.D
 Lab ID: LCS 480-550111/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	28.0	112	73-126	
1,1,2,2-Tetrachloroethane	25.0	25.4	102	76-120	
1,1,2-Trichloroethane	25.0	25.9	104	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	29.3	117	61-148	
1,1-Dichloroethane	25.0	27.5	110	77-120	
1,1-Dichloroethene	25.0	27.5	110	66-127	
1,2,4-Trichlorobenzene	25.0	26.5	106	79-122	
1,2-Dibromo-3-Chloropropane	25.0	28.8	115	56-134	
1,2-Dichlorobenzene	25.0	26.1	104	80-124	
1,2-Dichloroethane	25.0	25.5	102	75-120	
1,2-Dichloropropane	25.0	26.6	106	76-120	
1,3-Dichlorobenzene	25.0	26.1	104	77-120	
1,4-Dichlorobenzene	25.0	25.1	100	80-120	
2-Butanone (MEK)	125	125	100	57-140	
2-Hexanone	125	133	107	65-127	
4-Methyl-2-pentanone (MIBK)	125	127	102	71-125	
Acetone	125	116	93	56-142	
Benzene	25.0	26.9	107	71-124	
Bromodichloromethane	25.0	28.6	114	80-122	
Bromoform	25.0	31.0	124	61-132	
Bromomethane	25.0	25.0	100	55-144	
Carbon disulfide	25.0	28.4	113	59-134	
Carbon tetrachloride	25.0	29.4	118	72-134	
Chlorobenzene	25.0	27.0	108	80-120	
Dibromochloromethane	25.0	28.3	113	75-125	
Chloroethane	25.0	24.8	99	69-136	
Chloroform	25.0	25.8	103	73-127	
Chloromethane	25.0	24.6	98	68-124	
cis-1,2-Dichloroethene	25.0	26.5	106	74-124	
cis-1,3-Dichloropropene	25.0	27.7	111	74-124	
Cyclohexane	25.0	29.3	117	59-135	
Dichlorodifluoromethane	25.0	23.4	94	59-135	
Ethylbenzene	25.0	27.1	108	77-123	
1,2-Dibromoethane	25.0	26.2	105	77-120	
Isopropylbenzene	25.0	26.6	106	77-122	
Methyl acetate	50.0	48.8	98	74-133	
Methyl tert-butyl ether	25.0	26.3	105	77-120	
Methylcyclohexane	25.0	29.6	118	68-134	
Methylene Chloride	25.0	25.8	103	75-124	
Styrene	25.0	27.1	108	80-120	
Tetrachloroethene	25.0	27.9	112	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: T6881.D
Lab ID: LCS 480-550111/5 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	26.9	107	80-122	
trans-1,2-Dichloroethene	25.0	27.2	109	73-127	
trans-1,3-Dichloropropene	25.0	27.1	108	80-120	
Trichloroethene	25.0	26.7	107	74-123	
Trichlorofluoromethane	25.0	25.8	103	62-150	
Vinyl chloride	25.0	24.9	100	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T6936.D
 Lab ID: LCS 480-550367/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	26.3	105	73-126	
1,1,2,2-Tetrachloroethane	25.0	26.2	105	76-120	
1,1,2-Trichloroethane	25.0	25.6	102	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.7	111	61-148	
1,1-Dichloroethane	25.0	26.4	105	77-120	
1,1-Dichloroethene	25.0	26.4	105	66-127	
1,2,4-Trichlorobenzene	25.0	26.3	105	79-122	
1,2-Dibromo-3-Chloropropane	25.0	27.3	109	56-134	
1,2-Dichlorobenzene	25.0	26.2	105	80-124	
1,2-Dichloroethane	25.0	25.0	100	75-120	
1,2-Dichloropropane	25.0	26.2	105	76-120	
1,3-Dichlorobenzene	25.0	26.0	104	77-120	
1,4-Dichlorobenzene	25.0	25.0	100	80-120	
2-Butanone (MEK)	125	131	105	57-140	
2-Hexanone	125	138	110	65-127	
4-Methyl-2-pentanone (MIBK)	125	132	106	71-125	
Acetone	125	131	105	56-142	
Benzene	25.0	25.9	103	71-124	
Bromodichloromethane	25.0	27.1	108	80-122	
Bromoform	25.0	28.8	115	61-132	
Bromomethane	25.0	24.2	97	55-144	
Carbon disulfide	25.0	26.3	105	59-134	
Carbon tetrachloride	25.0	26.4	106	72-134	
Chlorobenzene	25.0	25.6	102	80-120	
Dibromochloromethane	25.0	27.0	108	75-125	
Chloroethane	25.0	24.1	97	69-136	
Chloroform	25.0	25.1	101	73-127	
Chloromethane	25.0	23.9	96	68-124	
cis-1,2-Dichloroethene	25.0	25.2	101	74-124	
cis-1,3-Dichloropropene	25.0	25.5	102	74-124	
Cyclohexane	25.0	28.0	112	59-135	
Dichlorodifluoromethane	25.0	21.4	86	59-135	
Ethylbenzene	25.0	26.7	107	77-123	
1,2-Dibromoethane	25.0	26.1	104	77-120	
Isopropylbenzene	25.0	26.5	106	77-122	
Methyl acetate	50.0	48.9	98	74-133	
Methyl tert-butyl ether	25.0	24.8	99	77-120	
Methylcyclohexane	25.0	27.8	111	68-134	
Methylene Chloride	25.0	23.9	96	75-124	
Styrene	25.0	26.4	106	80-120	
Tetrachloroethene	25.0	27.0	108	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: T6936.D
Lab ID: LCS 480-550367/6 Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
Toluene	25.0	26.5	106	80-122	
trans-1,2-Dichloroethene	25.0	25.8	103	73-127	
trans-1,3-Dichloropropene	25.0	26.5	106	80-120	
Trichloroethene	25.0	26.0	104	74-123	
Trichlorofluoromethane	25.0	24.4	98	62-150	
Vinyl chloride	25.0	24.0	96	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-175175-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: T6957.D

Lab ID: 480-175175-1 MS

Client ID: CC-MW-1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,1,1-Trichloroethane	25.0	ND	29.9	120	73-126	
1,1,2,2-Tetrachloroethane	25.0	ND	28.4	114	76-120	
1,1,2-Trichloroethane	25.0	ND	26.8	107	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	ND	29.2	117	61-148	
1,1-Dichloroethane	25.0	ND	30.0	120	77-120	
1,1-Dichloroethene	25.0	ND	31.0	124	66-127	
1,2,4-Trichlorobenzene	25.0	ND	28.9	116	79-122	
1,2-Dibromo-3-Chloropropane	25.0	ND	28.4	114	56-134	
1,2-Dichlorobenzene	25.0	ND	28.8	115	80-124	
1,2-Dichloroethane	25.0	ND	27.3	109	75-120	
1,2-Dichloropropane	25.0	ND	29.3	117	76-120	
1,3-Dichlorobenzene	25.0	ND	29.1	116	77-120	
1,4-Dichlorobenzene	25.0	ND	27.9	111	78-124	
2-Butanone (MEK)	125	ND	131	105	57-140	
2-Hexanone	125	ND	141	113	65-127	
4-Methyl-2-pentanone (MIBK)	125	ND	139	111	71-125	
Acetone	125	ND	126	101	56-142	
Benzene	25.0	ND	29.4	118	71-124	
Bromodichloromethane	25.0	ND	28.6	115	80-122	
Bromoform	25.0	ND	25.4	102	61-132	
Bromomethane	25.0	ND	29.0	116	55-144	
Carbon disulfide	25.0	ND	28.3	113	59-134	
Carbon tetrachloride	25.0	ND	28.9	116	72-134	
Chlorobenzene	25.0	ND	28.1	112	80-120	
Dibromochloromethane	25.0	ND	26.7	107	75-125	
Chloroethane	25.0	ND	29.0	116	69-136	
Chloroform	25.0	ND	27.8	111	73-127	
Chloromethane	25.0	ND	29.4	118	68-124	
cis-1,2-Dichloroethene	25.0	ND	28.7	115	74-124	
cis-1,3-Dichloropropene	25.0	ND	27.9	112	74-124	
Cyclohexane	25.0	ND	30.2	121	59-135	
Dichlorodifluoromethane	25.0	ND	23.8	95	59-135	
Ethylbenzene	25.0	ND	29.5	118	77-123	
1,2-Dibromoethane	25.0	ND	26.7	107	77-120	
Isopropylbenzene	25.0	ND	30.2	121	77-122	
Methyl acetate	50.0	ND	49.2	98	74-133	
Methyl tert-butyl ether	25.0	ND	26.9	108	77-120	
Methylcyclohexane	25.0	ND	29.2	117	68-134	
Methylene Chloride	25.0	ND	27.3	109	75-124	
Styrene	25.0	ND	29.0	116	80-120	
Tetrachloroethene	25.0	ND	29.6	118	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: T6957.D
Lab ID: 480-175175-1 MS Client ID: CC-MW-1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
Toluene	25.0	ND	29.4	118	80-122	
trans-1,2-Dichloroethene	25.0	ND	30.3	121	73-127	
trans-1,3-Dichloropropene	25.0	ND	26.5	106	80-120	
Trichloroethene	25.0	ND	29.2	117	74-123	
Trichlorofluoromethane	25.0	ND	28.1	112	62-150	
Vinyl chloride	25.0	ND	29.7	119	65-133	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-175175-1

SDG No.: _____

Matrix: Water Level: Low

Lab File ID: T6958.D

Lab ID: 480-175175-1 MSD

Client ID: CC-MW-1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,1,1-Trichloroethane	25.0	28.4	114	5	15	73-126	
1,1,2,2-Tetrachloroethane	25.0	27.3	109	4	15	76-120	
1,1,2-Trichloroethane	25.0	26.6	106	1	15	76-122	
1,1,2-Trichloro-1,2,2-trifluoroethane	25.0	27.2	109	7	20	61-148	
1,1-Dichloroethane	25.0	29.1	116	3	20	77-120	
1,1-Dichloroethene	25.0	29.2	117	6	16	66-127	
1,2,4-Trichlorobenzene	25.0	27.1	109	6	20	79-122	
1,2-Dibromo-3-Chloropropane	25.0	27.7	111	3	15	56-134	
1,2-Dichlorobenzene	25.0	27.4	110	5	20	80-124	
1,2-Dichloroethane	25.0	26.5	106	3	20	75-120	
1,2-Dichloropropane	25.0	28.4	114	3	20	76-120	
1,3-Dichlorobenzene	25.0	27.4	110	6	20	77-120	
1,4-Dichlorobenzene	25.0	26.7	107	4	20	78-124	
2-Butanone (MEK)	125	131	105	0	20	57-140	
2-Hexanone	125	142	114	1	15	65-127	
4-Methyl-2-pentanone (MIBK)	125	139	111	0	35	71-125	
Acetone	125	127	101	1	15	56-142	
Benzene	25.0	28.1	112	5	13	71-124	
Bromodichloromethane	25.0	28.1	112	2	15	80-122	
Bromoform	25.0	26.7	107	5	15	61-132	
Bromomethane	25.0	27.3	109	6	15	55-144	
Carbon disulfide	25.0	26.2	105	8	15	59-134	
Carbon tetrachloride	25.0	27.7	111	4	15	72-134	
Chlorobenzene	25.0	28.0	112	0	25	80-120	
Dibromochloromethane	25.0	26.7	107	0	15	75-125	
Chloroethane	25.0	28.4	114	2	15	69-136	
Chloroform	25.0	26.9	108	3	20	73-127	
Chloromethane	25.0	28.3	113	4	15	68-124	
cis-1,2-Dichloroethene	25.0	26.7	107	7	15	74-124	
cis-1,3-Dichloropropene	25.0	26.2	105	6	15	74-124	
Cyclohexane	25.0	28.4	114	6	20	59-135	
Dichlorodifluoromethane	25.0	22.0	88	8	20	59-135	
Ethylbenzene	25.0	29.0	116	2	15	77-123	
1,2-Dibromoethane	25.0	26.6	107	0	15	77-120	
Isopropylbenzene	25.0	28.6	114	5	20	77-122	
Methyl acetate	50.0	46.4	93	6	20	74-133	
Methyl tert-butyl ether	25.0	25.9	104	4	37	77-120	
Methylcyclohexane	25.0	27.8	111	5	20	68-134	
Methylene Chloride	25.0	25.5	102	7	15	75-124	
Styrene	25.0	28.4	114	2	20	80-120	
Tetrachloroethene	25.0	29.1	116	2	20	74-122	

Column to be used to flag recovery and RPD values

FORM III
GC/MS VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: T6958.D
 Lab ID: 480-175175-1 MSD Client ID: CC-MW-1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Toluene	25.0	29.1	116	1	15	80-122	
trans-1,2-Dichloroethene	25.0	27.9	112	8	20	73-127	
trans-1,3-Dichloropropene	25.0	26.5	106	0	15	80-120	
Trichloroethene	25.0	27.8	111	5	16	74-123	
Trichlorofluoromethane	25.0	26.7	107	5	20	62-150	
Vinyl chloride	25.0	27.6	110	7	15	65-133	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Lab File ID: T6883.D Lab Sample ID: MB 480-550111/8
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5975T Date Analyzed: 09/18/2020 11:35
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-550111/5	T6881.D	09/18/2020 10:48
CC-MW-1	480-175175-1	T6884.D	09/18/2020 12:02
CC-MW-2	480-175175-2	T6885.D	09/18/2020 12:26
CC-MW-3	480-175175-3	T6886.D	09/18/2020 12:49
CC-MW-5	480-175175-4	T6887.D	09/18/2020 13:14
CC-MW-4	480-175175-5	T6888.D	09/18/2020 13:37
CC-MW-6	480-175175-6	T6889.D	09/18/2020 14:02
TRIP BLANK	480-175175-8	T6890.D	09/18/2020 14:26

FORM IV
GC/MS VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Lab File ID: T6938.D Lab Sample ID: MB 480-550367/8
Matrix: Water Heated Purge: (Y/N) N
Instrument ID: HP5975T Date Analyzed: 09/21/2020 11:08
GC Column: ZB-624 (20) ID: 0.18 (mm)

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-550367/6	T6936.D	09/21/2020 10:20
CC-MW-1 MS	480-175175-1 MS	T6957.D	09/21/2020 18:47
CC-MW-1 MSD	480-175175-1 MSD	T6958.D	09/21/2020 19:11

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Lab File ID: T6843.D BFB Injection Date: 09/16/2020
Instrument ID: HP5975T BFB Injection Time: 12:54
Analysis Batch No.: 549730

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.8
75	30.0 - 60.0 % of mass 95	49.3
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.8
173	Less than 2.0 % of mass 174	1.0 (1.2) 1
174	Greater than 50% of mass 95	84.1
175	5.0 - 9.0 % of mass 174	6.5 (7.7) 1
176	95.0 - 101.0 % of mass 174	80.8 (96.0) 1
177	5.0 - 9.0 % of mass 176	5.3 (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
	IC 480-549730/6	T6845.D	09/16/2020	13:41
	IC 480-549730/7	T6846.D	09/16/2020	14:05
	IC 480-549730/8	T6847.D	09/16/2020	14:30
	IC 480-549730/9	T6848.D	09/16/2020	14:54
	IC 480-549730/10	T6849.D	09/16/2020	15:18
	ICIS 480-549730/11	T6850.D	09/16/2020	15:43
	IC 480-549730/12	T6851.D	09/16/2020	16:07
	IC 480-549730/13	T6852.D	09/16/2020	16:31
	ICV 480-549730/27	T6866.D	09/16/2020	22:09

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Lab File ID: T6876.D BFB Injection Date: 09/18/2020
 Instrument ID: HP5975T BFB Injection Time: 08:49
 Analysis Batch No.: 550111

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	19.1
75	30.0 - 60.0 % of mass 95	51.1
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	0.6 (0.8) 1
174	Greater than 50% of mass 95	79.4
175	5.0 - 9.0 % of mass 174	5.9 (7.4) 1
176	95.0 - 101.0 % of mass 174	79.4 (100.1) 1
177	5.0 - 9.0 % of mass 176	5.0 (6.2) 2

1-Value is % mass 174

2-Value is % mass 176

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-550111/3	T6879.D	09/18/2020	10:00
	LCS 480-550111/5	T6881.D	09/18/2020	10:48
	MB 480-550111/8	T6883.D	09/18/2020	11:35
CC-MW-1	480-175175-1	T6884.D	09/18/2020	12:02
CC-MW-2	480-175175-2	T6885.D	09/18/2020	12:26
CC-MW-3	480-175175-3	T6886.D	09/18/2020	12:49
CC-MW-5	480-175175-4	T6887.D	09/18/2020	13:14
CC-MW-4	480-175175-5	T6888.D	09/18/2020	13:37
CC-MW-6	480-175175-6	T6889.D	09/18/2020	14:02
TRIP BLANK	480-175175-8	T6890.D	09/18/2020	14:26

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Lab File ID: T6933.D BFB Injection Date: 09/21/2020
 Instrument ID: HP5975T BFB Injection Time: 09:09
 Analysis Batch No.: 550367

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
50	15.0 - 40.0 % of mass 95	20.8
75	30.0 - 60.0 % of mass 95	52.7
95	Base Peak, 100% relative abundance	100.0
96	5.0 - 9.0 % of mass 95	6.3
173	Less than 2.0 % of mass 174	0.4 (0.4) 1
174	Greater than 50% of mass 95	83.7
175	5.0 - 9.0 % of mass 174	6.1 (7.2) 1
176	95.0 - 101.0 % of mass 174	80.7 (96.4) 1
177	5.0 - 9.0 % of mass 176	5.9 (7.3) 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 480-550367/4	T6934.D	09/21/2020	9:33
	LCS 480-550367/6	T6936.D	09/21/2020	10:20
	MB 480-550367/8	T6938.D	09/21/2020	11:08
CC-MW-1 MS	480-175175-1 MS	T6957.D	09/21/2020	18:47
CC-MW-1 MSD	480-175175-1 MSD	T6958.D	09/21/2020	19:11

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Sample No.: ICIS 480-549730/11 Date Analyzed: 09/16/2020 15:43
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): T6850.D Heated Purge: (Y/N) N
 Calibration ID: 40385

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
INITIAL CALIBRATION MID-POINT	172184	4.71	602286	7.00	338497	8.86	
UPPER LIMIT	344368	5.21	1204572	7.50	676994	9.36	
LOWER LIMIT	86092	4.21	301143	6.50	169249	8.36	
LAB SAMPLE ID	CLIENT SAMPLE ID						
ICV 480-549730/27		169436	4.70	586740	7.00	327086	8.86
CCVIS 480-550111/3		163361	4.71	571003	7.00	316911	8.86
CCVIS 480-550367/4		170452	4.71	581939	7.00	321190	8.86

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Sample No.: CCVIS 480-550111/3 Date Analyzed: 09/18/2020 10:00
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): T6879.D Heated Purge: (Y/N) N
 Calibration ID: 40388

		FB		CBNZd5		DCBd4	
		AREA #	RT #	AREA #	RT #	AREA #	RT #
12/24 HOUR STD		163361	4.71	571003	7.00	316911	8.86
UPPER LIMIT		326722	5.21	1142006	7.50	633822	9.36
LOWER LIMIT		81681	4.21	285502	6.50	158456	8.36
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-550111/5		158166	4.71	559755	7.00	321374	8.86
MB 480-550111/8		166303	4.71	596913	7.00	318527	8.86
480-175175-1	CC-MW-1	167051	4.71	589886	7.00	328836	8.86
480-175175-2	CC-MW-2	165789	4.70	582406	7.00	326312	8.86
480-175175-3	CC-MW-3	163043	4.71	575947	7.00	320147	8.86
480-175175-4	CC-MW-5	165265	4.71	580134	7.00	316701	8.86
480-175175-5	CC-MW-4	158150	4.70	559878	7.00	314628	8.86
480-175175-6	CC-MW-6	167419	4.70	583291	7.00	321314	8.86
480-175175-8	TRIP BLANK	161460	4.70	562530	7.00	314624	8.86

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

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

Column used to flag values outside QC limits

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Sample No.: CCVIS 480-550367/4 Date Analyzed: 09/21/2020 09:33
 Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm)
 Lab File ID (Standard): T6934.D Heated Purge: (Y/N) N
 Calibration ID: 40388

	FB		CBNZd5		DCBd4		
	AREA #	RT #	AREA #	RT #	AREA #	RT #	
12/24 HOUR STD	170452	4.71	581939	7.00	321190	8.86	
UPPER LIMIT	340904	5.21	1163878	7.50	642380	9.36	
LOWER LIMIT	85226	4.21	290970	6.50	160595	8.36	
LAB SAMPLE ID	CLIENT SAMPLE ID						
LCS 480-550367/6		166573	4.71	569137	7.00	319205	8.86
MB 480-550367/8		161524	4.71	555415	7.00	307138	8.86
480-175175-1 MS	CC-MW-1 MS	154821	4.70	543820	7.00	295378	8.86
480-175175-1 MSD	CC-MW-1 MSD	160360	4.71	547524	7.00	306542	8.86

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

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

Column used to flag values outside QC limits

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: CC-MW-1 Lab Sample ID: 480-175175-1

Matrix: Water Lab File ID: T6884.D

Analysis Method: 8260C Date Collected: 09/14/2020 14:35

Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 12:02

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550111 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-1 Lab Sample ID: 480-175175-1
 Matrix: Water Lab File ID: T6884.D
 Analysis Method: 8260C Date Collected: 09/14/2020 14:35
 Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 12:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550111 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: CC-MW-1 Lab Sample ID: 480-175175-1
Matrix: Water Lab File ID: T6884.D
Analysis Method: 8260C Date Collected: 09/14/2020 14:35
Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 12:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550111 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6884.D
 Lims ID: 480-175175-F-1
 Client ID: CC-MW-1
 Sample Type: Client
 Inject. Date: 18-Sep-2020 12:02:30 ALS Bottle#: 10 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-175175-f-1
 Misc. Info.: 480-0093526-012
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Sep-2020 10:30:33 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1053

First Level Reviewer: lapointec

Date: 19-Sep-2020 10:30:38

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	167051	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	589886	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	328836	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.236	0.000	93	202071	25.8	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.493	0.001	0	270684	25.2	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	774076	24.9	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	234207	24.8	
11 Dichlorodifluoromethane	85		1.167				ND	
13 Chloromethane	50		1.323				ND	
14 Vinyl chloride	62		1.405				ND	
15 Bromomethane	94		1.654				ND	
16 Chloroethane	64		1.727				ND	U
17 Trichlorofluoromethane	101		1.934				ND	
22 1,1-Dichloroethene	96		2.369				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.369				ND	
23 Acetone	43	2.473	2.483	-0.010	95	10137	2.80	
25 Carbon disulfide	76		2.545				ND	
28 Methyl acetate	43		2.742				ND	
30 Methylene Chloride	84		2.836				ND	7
33 Methyl tert-butyl ether	73		3.022				ND	
32 trans-1,2-Dichloroethene	96		3.032				ND	
36 1,1-Dichloroethane	63		3.395				ND	
43 cis-1,2-Dichloroethene	96		3.862				ND	
44 2-Butanone (MEK)	43		3.882				ND	U
50 Chloroform	83		4.121				ND	
51 1,1,1-Trichloroethane	97		4.214				ND	
52 Cyclohexane	56		4.214				ND	
53 Carbon tetrachloride	117		4.328				ND	
55 Benzene	78		4.494				ND	
57 1,2-Dichloroethane	62		4.545				ND	
60 Trichloroethene	95		4.981				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.074				ND	
63 1,2-Dichloropropane	63		5.167				ND	
67 Dichlorobromomethane	83		5.395				ND	
71 cis-1,3-Dichloropropene	75		5.706				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820				ND	
73 Toluene	92		5.934				ND	
75 trans-1,3-Dichloropropene	75		6.141				ND	
78 1,1,2-Trichloroethane	83		6.286				ND	
79 Tetrachloroethene	166		6.328				ND	
81 2-Hexanone	43		6.452				ND	
82 Chlorodibromomethane	129		6.587				ND	
83 Ethylene Dibromide	107		6.670				ND	
86 Chlorobenzene	112		7.022				ND	
88 Ethylbenzene	91		7.084				ND	
90 m-Xylene & p-Xylene	106		7.178				ND	
91 o-Xylene	106		7.489				ND	
92 Styrene	104		7.520				ND	
93 Bromoform	173		7.706				ND	
95 Isopropylbenzene	105		7.779				ND	
98 1,1,2,2-Tetrachloroethane	83		8.090				ND	
110 1,3-Dichlorobenzene	146		8.805				ND	
113 1,4-Dichlorobenzene	146		8.877				ND	
116 1,2-Dichlorobenzene	146		9.188				ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862				ND	
119 1,2,4-Trichlorobenzene	180		10.504				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 19-Sep-2020 10:30:38

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6884.D

Injection Date: 18-Sep-2020 12:02:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-F-1

Lab Sample ID: 480-175175-1

Worklist Smp#: 12

Client ID: CC-MW-1

Purge Vol: 5.000 mL

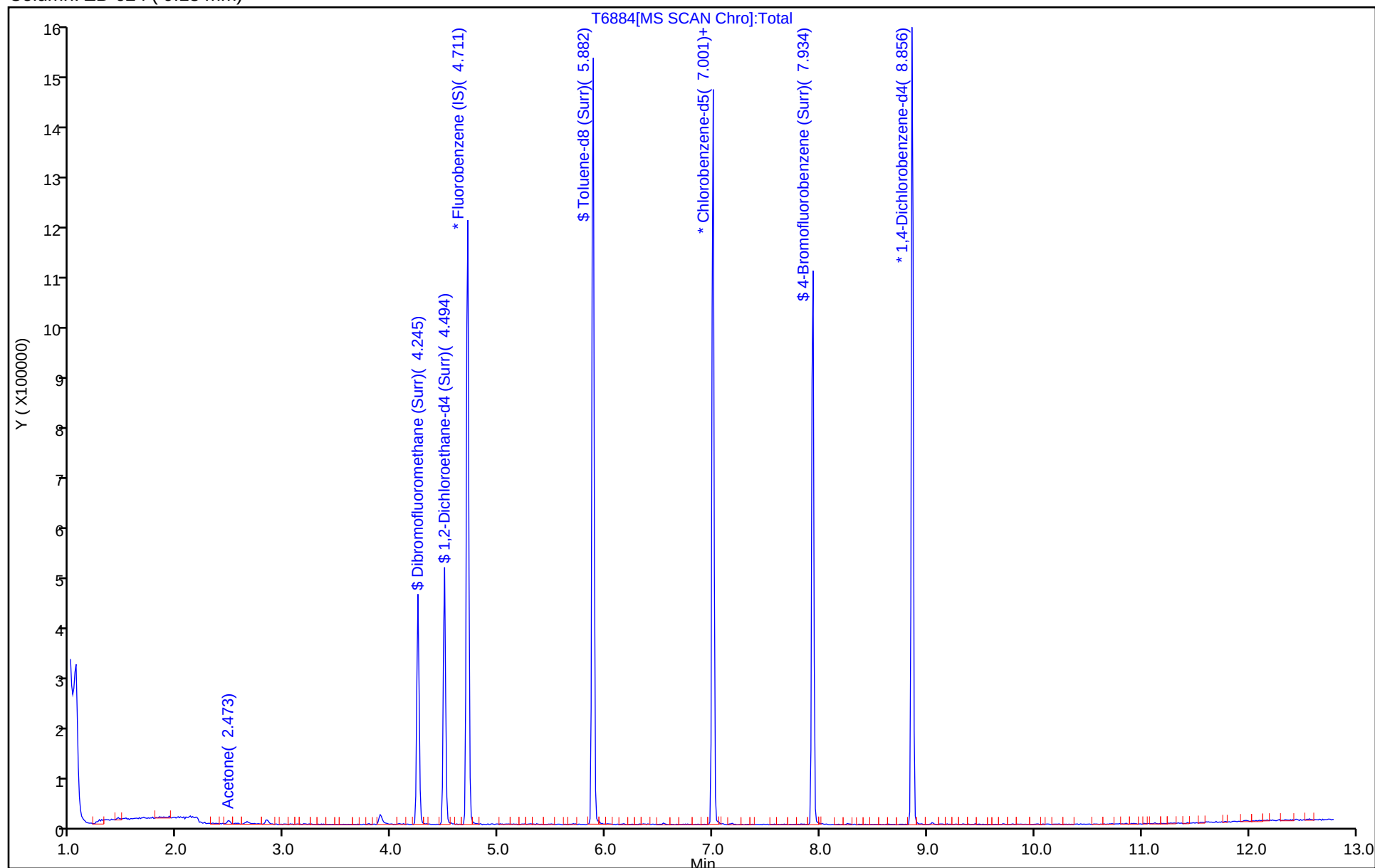
Dil. Factor: 1.0000

ALS Bottle#: 10

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6884.D

Injection Date: 18-Sep-2020 12:02:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-1

Lab Sample ID: 480-175175-1

Client ID: CC-MW-1

Operator ID: RF

ALS Bottle#: 10 Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

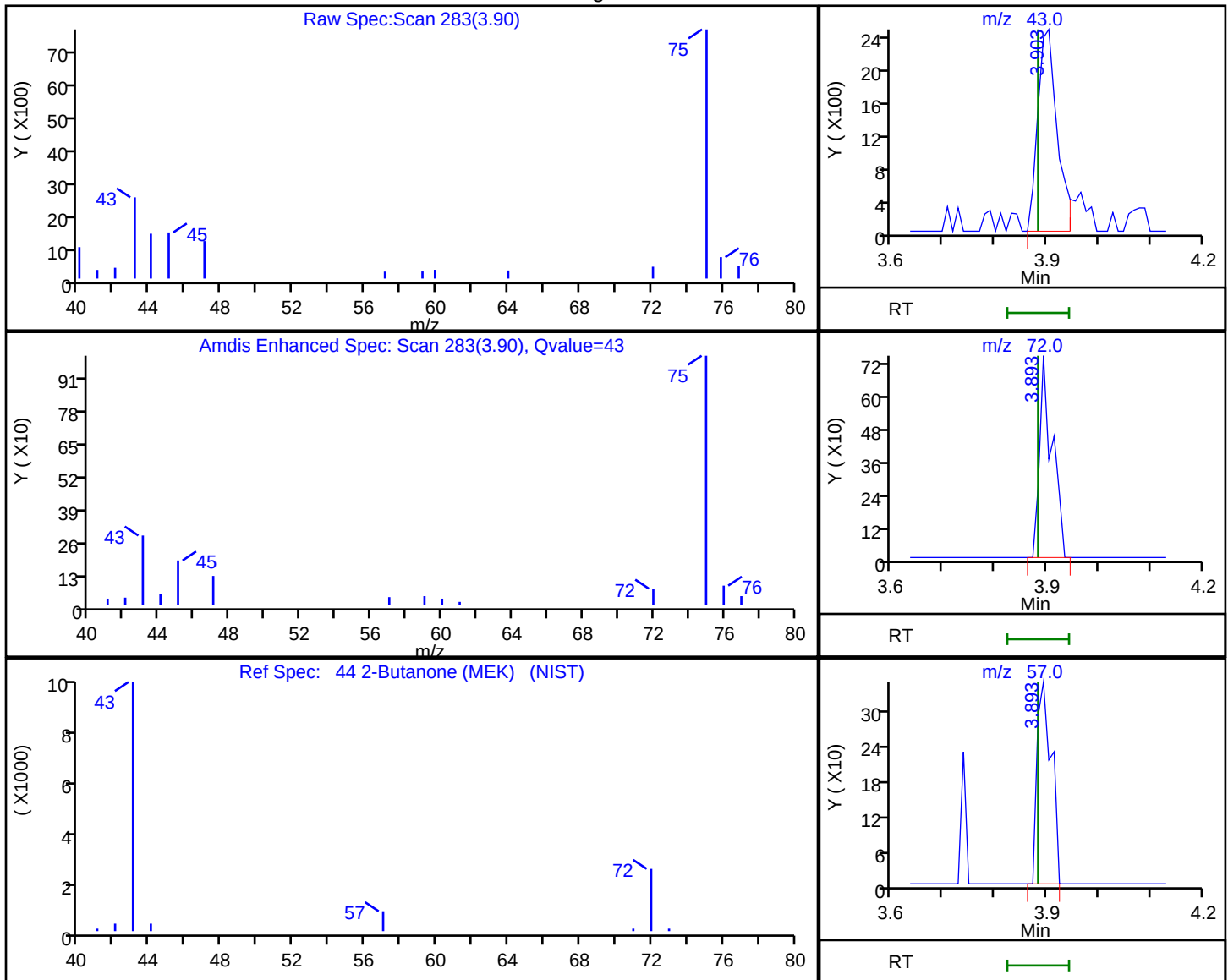
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

44 2-Butanone (MEK), CAS: 78-93-3

Processing Results



RT	Mass	Response	Amount
3.90	43.00	6527	1.206226
3.89	72.00	1272	
3.89	57.00	669	

Reviewer: lapointec, 19-Sep-2020 10:30:17

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6884.D

Injection Date: 18-Sep-2020 12:02:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-1

Lab Sample ID: 480-175175-1

Client ID: CC-MW-1

Operator ID: RF

ALS Bottle#: 10 Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

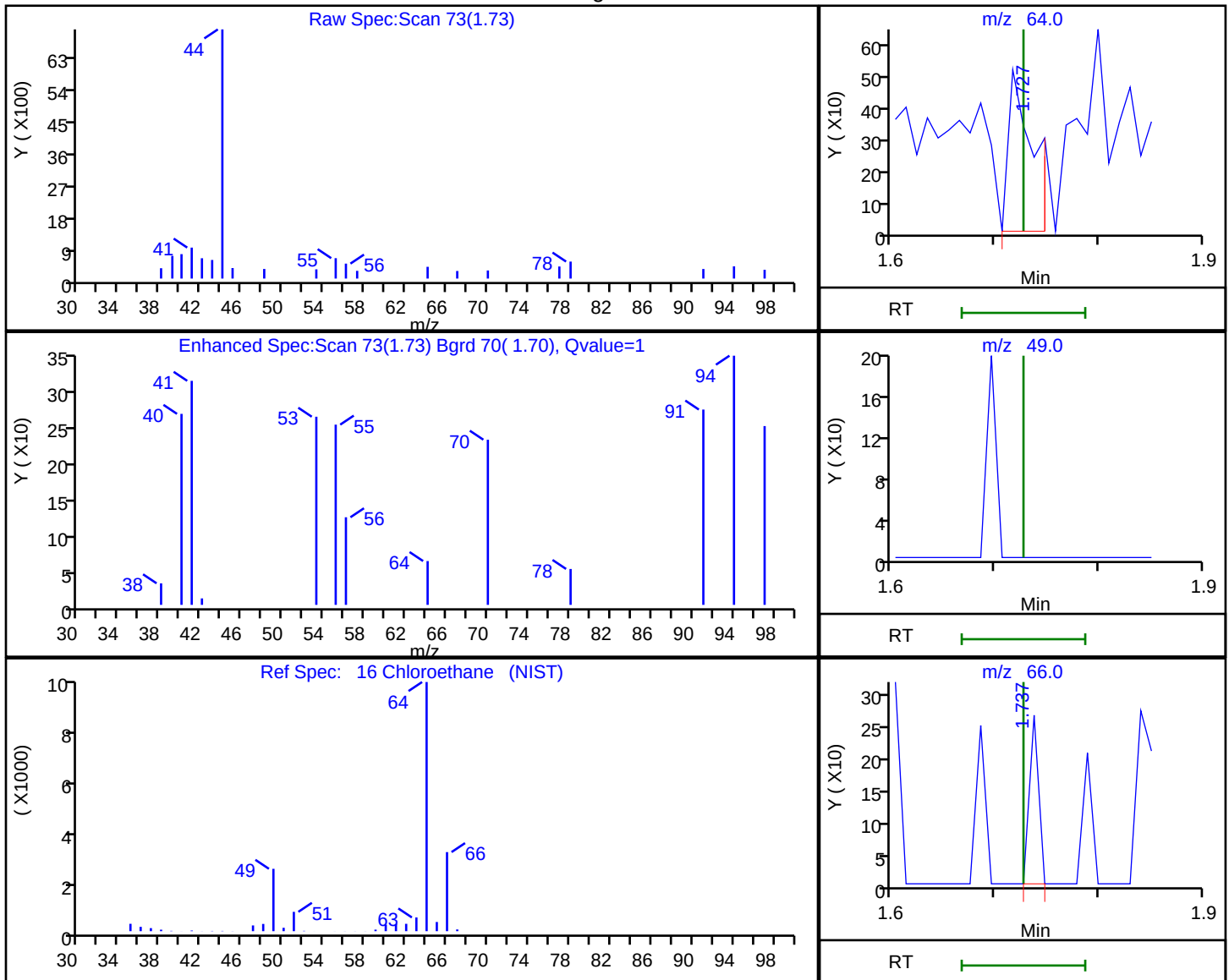
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.73	64.00	857	0.117348
1.74	66.00	164	
1.73	49.00	0	

Reviewer: lapointec, 19-Sep-2020 10:30:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: CC-MW-2 Lab Sample ID: 480-175175-2

Matrix: Water Lab File ID: T6885.D

Analysis Method: 8260C Date Collected: 09/15/2020 12:15

Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 12:26

Soil Aliquot Vol: _____ Dilution Factor: 2

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550111 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	ND		2.0	1.6
79-34-5	1,1,2,2-Tetrachloroethane	ND		2.0	0.42
79-00-5	1,1,2-Trichloroethane	ND		2.0	0.46
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	ND		2.0	0.62
75-34-3	1,1-Dichloroethane	ND		2.0	0.76
75-35-4	1,1-Dichloroethene	ND		2.0	0.58
120-82-1	1,2,4-Trichlorobenzene	ND		2.0	0.82
96-12-8	1,2-Dibromo-3-Chloropropane	ND		2.0	0.78
95-50-1	1,2-Dichlorobenzene	ND		2.0	1.6
107-06-2	1,2-Dichloroethane	ND		2.0	0.42
78-87-5	1,2-Dichloropropane	ND		2.0	1.4
541-73-1	1,3-Dichlorobenzene	ND		2.0	1.6
106-46-7	1,4-Dichlorobenzene	ND		2.0	1.7
78-93-3	2-Butanone (MEK)	ND		20	2.6
591-78-6	2-Hexanone	ND		10	2.5
108-10-1	4-Methyl-2-pentanone (MIBK)	ND		10	4.2
67-64-1	Acetone	ND		20	6.0
71-43-2	Benzene	ND		2.0	0.82
75-27-4	Bromodichloromethane	ND		2.0	0.78
75-25-2	Bromoform	ND		2.0	0.52
74-83-9	Bromomethane	ND		2.0	1.4
75-15-0	Carbon disulfide	ND		2.0	0.38
56-23-5	Carbon tetrachloride	ND		2.0	0.54
108-90-7	Chlorobenzene	ND		2.0	1.5
124-48-1	Dibromochloromethane	ND		2.0	0.64
75-00-3	Chloroethane	ND		2.0	0.64
67-66-3	Chloroform	ND		2.0	0.68
74-87-3	Chloromethane	ND		2.0	0.70
156-59-2	cis-1,2-Dichloroethene	3.4		2.0	1.6
10061-01-5	cis-1,3-Dichloropropene	ND		2.0	0.72
110-82-7	Cyclohexane	ND		2.0	0.36
75-71-8	Dichlorodifluoromethane	ND		2.0	1.4
100-41-4	Ethylbenzene	ND		2.0	1.5
106-93-4	1,2-Dibromoethane	ND		2.0	1.5
98-82-8	Isopropylbenzene	ND		2.0	1.6

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Buffalo</u>	Job No.: <u>480-175175-1</u>
SDG No.: _____	
Client Sample ID: <u>CC-MW-2</u>	Lab Sample ID: <u>480-175175-2</u>
Matrix: <u>Water</u>	Lab File ID: <u>T6885.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>09/15/2020 12:15</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>09/18/2020 12:26</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>2</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>550111</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		5.0	2.6
1634-04-4	Methyl tert-butyl ether	ND		2.0	0.32
108-87-2	Methylcyclohexane	ND		2.0	0.32
75-09-2	Methylene Chloride	2.2		2.0	0.88
100-42-5	Styrene	ND		2.0	1.5
127-18-4	Tetrachloroethene	140		2.0	0.72
108-88-3	Toluene	ND		2.0	1.0
156-60-5	trans-1,2-Dichloroethene	ND		2.0	1.8
10061-02-6	trans-1,3-Dichloropropene	ND		2.0	0.74
79-01-6	Trichloroethene	6.5		2.0	0.92
75-69-4	Trichlorofluoromethane	ND		2.0	1.8
75-01-4	Vinyl chloride	ND		2.0	1.8
1330-20-7	Xylenes, Total	ND		4.0	1.3

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: CC-MW-2 Lab Sample ID: 480-175175-2
Matrix: Water Lab File ID: T6885.D
Analysis Method: 8260C Date Collected: 09/15/2020 12:15
Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 12:26
Soil Aliquot Vol: _____ Dilution Factor: 2
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550111 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D
 Lims ID: 480-175175-F-2
 Client ID: CC-MW-2
 Sample Type: Client
 Inject. Date: 18-Sep-2020 12:26:30 ALS Bottle#: 11 Worklist Smp#: 15
 Purge Vol: 5.000 mL Dil. Factor: 2.0000
 Sample Info: 480-175175-f-2
 Misc. Info.: 480-0093526-015
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Sep-2020 10:31:44 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1053

First Level Reviewer: lapointec

Date: 19-Sep-2020 10:31:44

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.701	4.711	-0.010	98	165789	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.001	0.001	89	582406	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	326312	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.236	0.000	92	194317	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.483	4.493	-0.010	0	268245	25.2	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	760760	24.7	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	235497	25.2	
11 Dichlorodifluoromethane	85		1.167				ND	
13 Chloromethane	50		1.323				ND	U
14 Vinyl chloride	62	1.385	1.405	-0.020	30	2414	0.2042	
15 Bromomethane	94		1.654				ND	
16 Chloroethane	64		1.727				ND	
17 Trichlorofluoromethane	101		1.934				ND	
22 1,1-Dichloroethene	96		2.369				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.369				ND	
23 Acetone	43	2.473	2.483	-0.010	66	4922	1.37	
25 Carbon disulfide	76		2.545				ND	
28 Methyl acetate	43		2.742				ND	
30 Methylene Chloride	84	2.836	2.836	0.000	94	17652	1.12	
33 Methyl tert-butyl ether	73		3.022				ND	
32 trans-1,2-Dichloroethene	96		3.032				ND	
36 1,1-Dichloroethane	63		3.395				ND	
43 cis-1,2-Dichloroethene	96	3.862	3.862	0.000	82	16556	1.69	
44 2-Butanone (MEK)	43		3.882				ND	
50 Chloroform	83		4.121				ND	Ua
51 1,1,1-Trichloroethane	97		4.214				ND	
52 Cyclohexane	56		4.214				ND	
53 Carbon tetrachloride	117		4.328				ND	
55 Benzene	78		4.494				ND	
57 1,2-Dichloroethane	62		4.545				ND	
60 Trichloroethene	95	4.970	4.981	-0.011	97	29331	3.25	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.074				ND	
63 1,2-Dichloropropane	63		5.167				ND	
67 Dichlorobromomethane	83		5.395				ND	
71 cis-1,3-Dichloropropene	75		5.706				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820				ND	
73 Toluene	92		5.934				ND	
75 trans-1,3-Dichloropropene	75		6.141				ND	
78 1,1,2-Trichloroethane	83		6.286				ND	U
79 Tetrachloroethene	166	6.328	6.328	0.000	95	621054	68.7	
81 2-Hexanone	43		6.452				ND	U
82 Chlorodibromomethane	129		6.587				ND	
83 Ethylene Dibromide	107		6.670				ND	
86 Chlorobenzene	112		7.022				ND	
88 Ethylbenzene	91		7.084				ND	
90 m-Xylene & p-Xylene	106		7.178				ND	
91 o-Xylene	106		7.489				ND	
92 Styrene	104		7.520				ND	
93 Bromoform	173		7.706				ND	
95 Isopropylbenzene	105		7.779				ND	
98 1,1,2,2-Tetrachloroethane	83		8.090				ND	
110 1,3-Dichlorobenzene	146		8.805				ND	
113 1,4-Dichlorobenzene	146		8.877				ND	
116 1,2-Dichlorobenzene	146		9.188				ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862				ND	
119 1,2,4-Trichlorobenzene	180		10.504				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D

Injection Date: 18-Sep-2020 12:26:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-F-2

Lab Sample ID: 480-175175-2

Worklist Smp#: 15

Client ID: CC-MW-2

Purge Vol: 5.000 mL

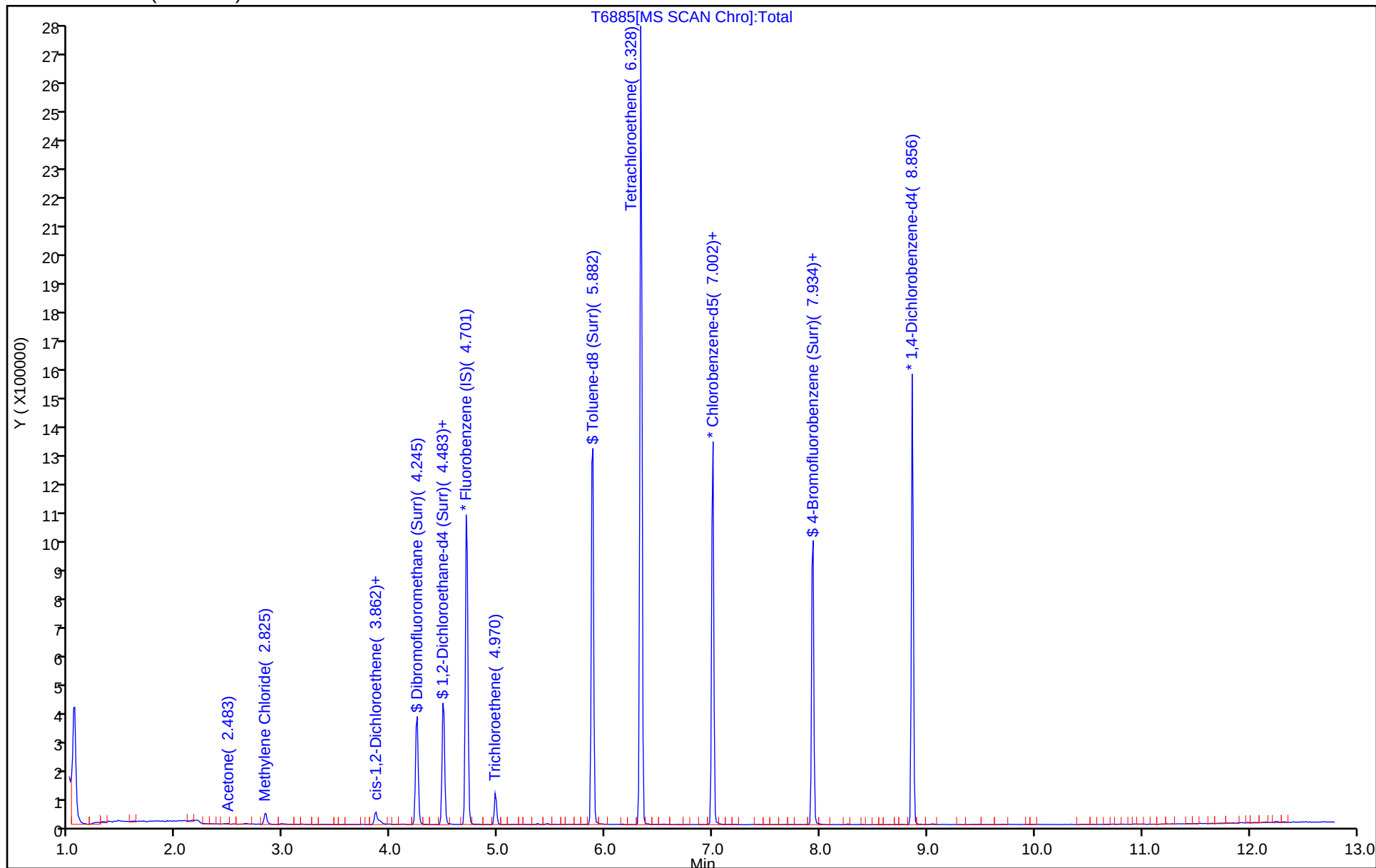
Dil. Factor: 2.0000

ALS Bottle#: 11

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D

Injection Date: 18-Sep-2020 12:26:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-2

Lab Sample ID: 480-175175-2

Client ID: CC-MW-2

Operator ID: RF

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 5.000 mL

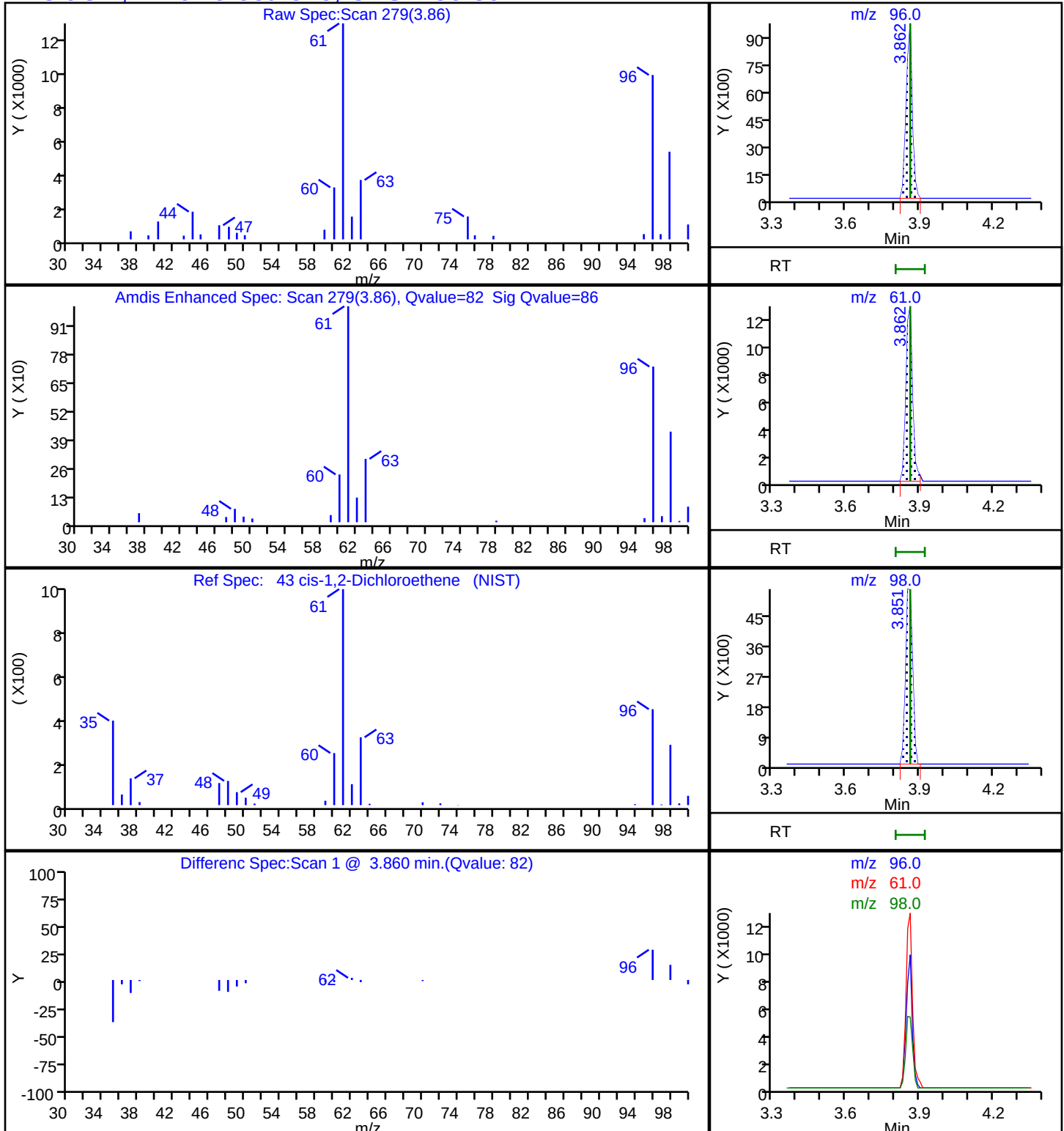
Dil. Factor: 2.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D

Injection Date: 18-Sep-2020 12:26:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-2

Lab Sample ID: 480-175175-2

Client ID: CC-MW-2

Operator ID: RF

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 5.000 mL

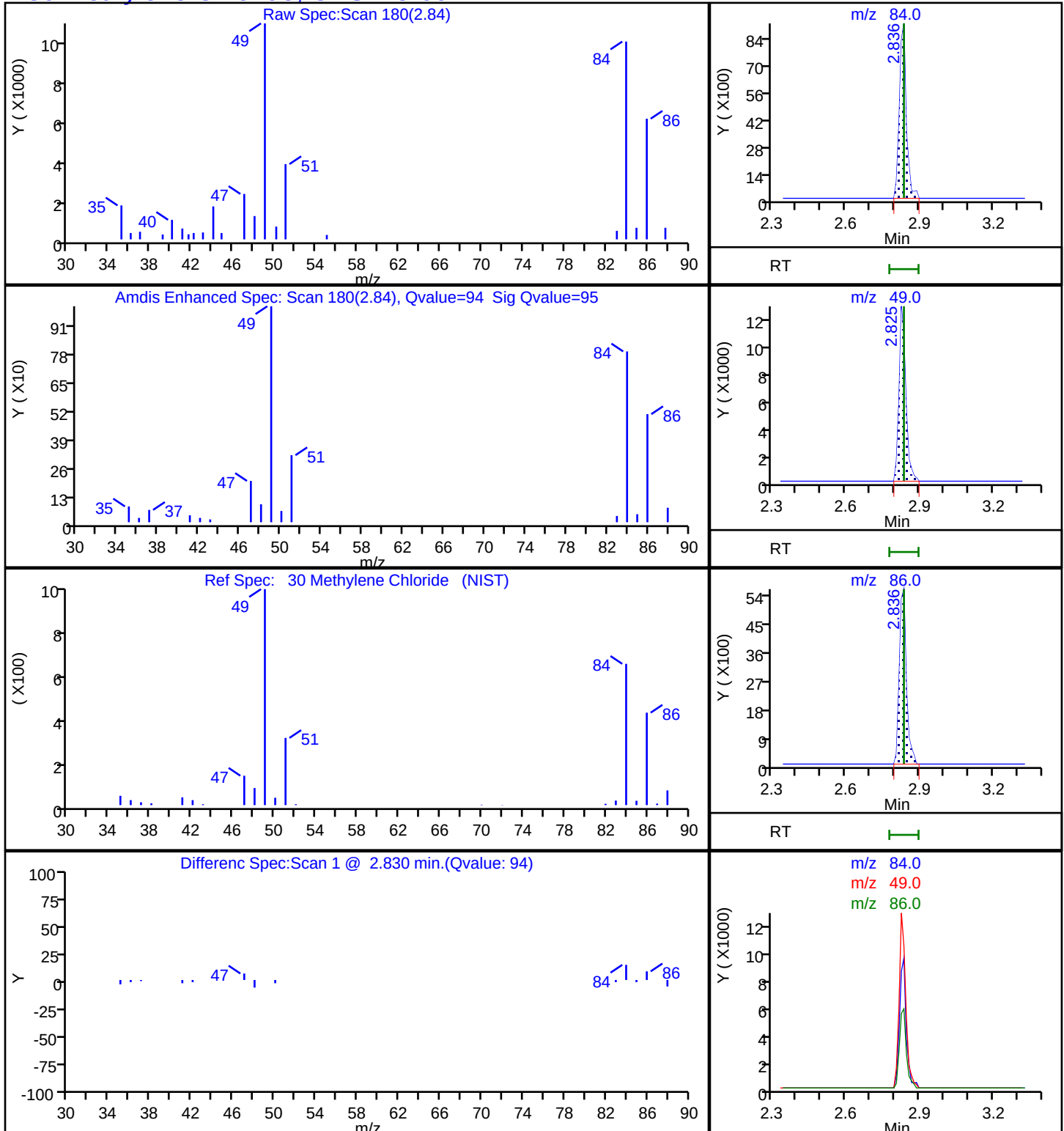
Dil. Factor: 2.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

30 Methylene Chloride, CAS: 75-09-2

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D

Injection Date: 18-Sep-2020 12:26:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-2

Lab Sample ID: 480-175175-2

Client ID: CC-MW-2

Operator ID: RF

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 5.000 mL

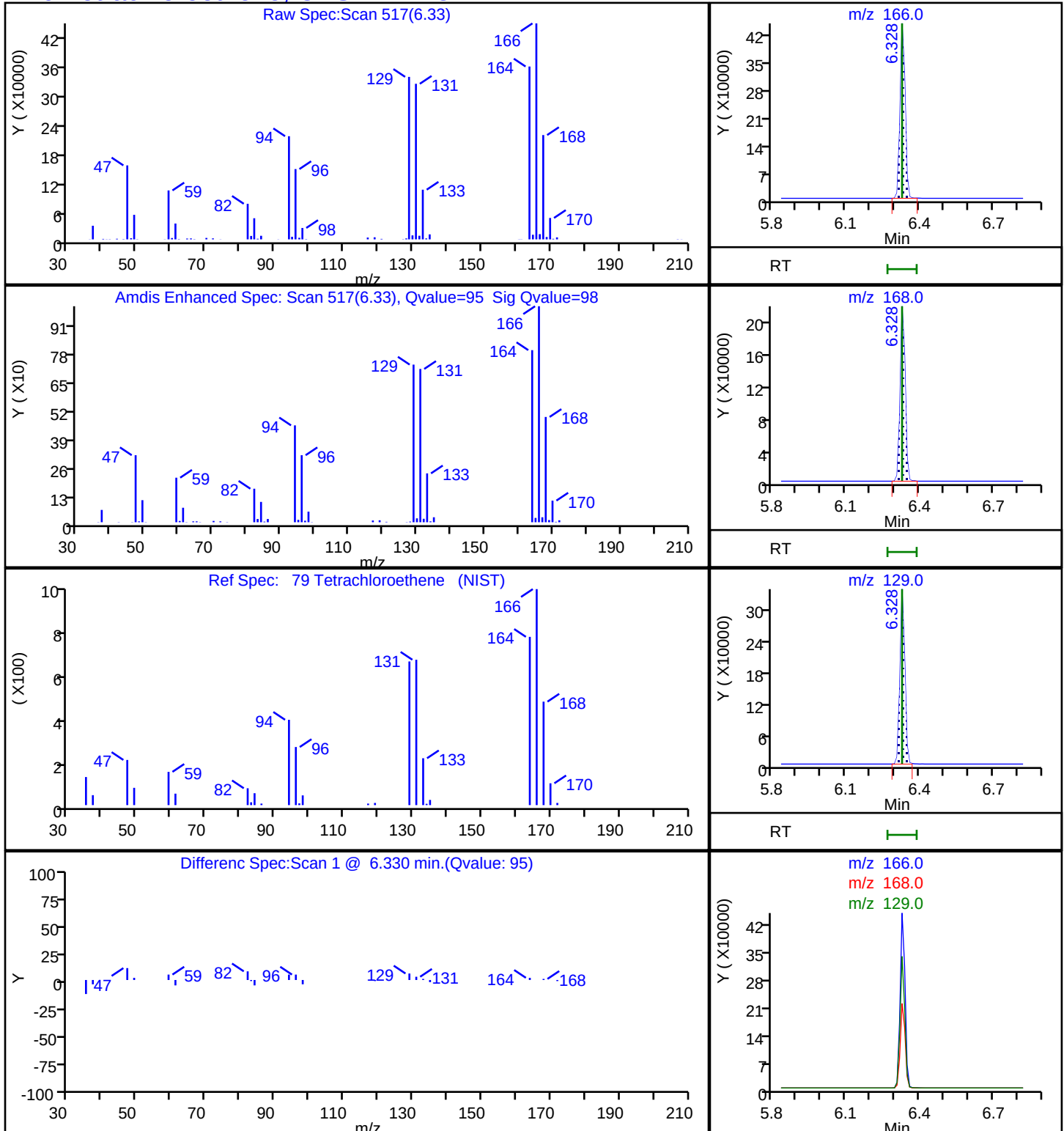
Dil. Factor: 2.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D

Injection Date: 18-Sep-2020 12:26:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-2

Lab Sample ID: 480-175175-2

Client ID: CC-MW-2

Operator ID: RF

ALS Bottle#: 11

Worklist Smp#: 15

Purge Vol: 5.000 mL

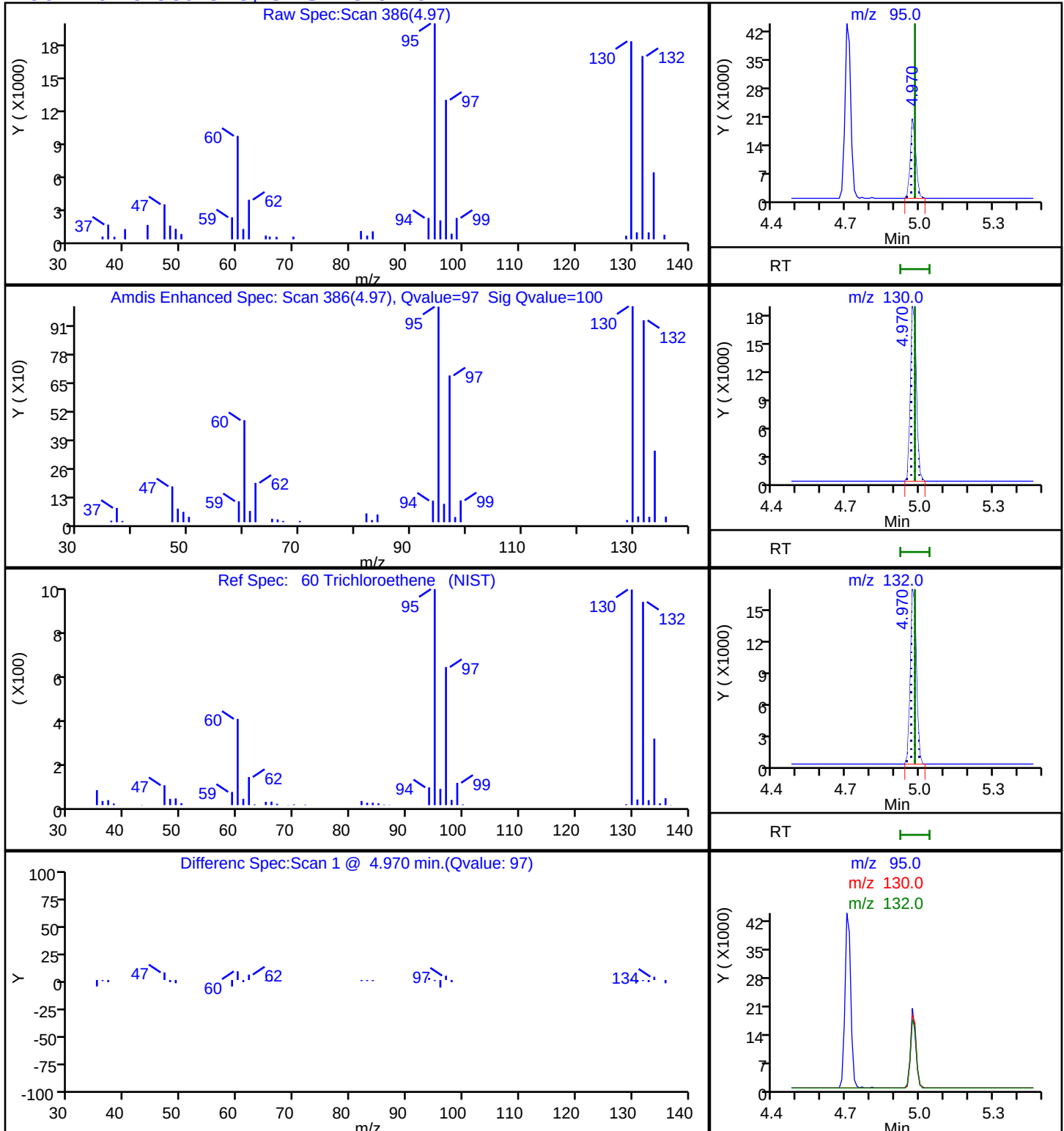
Dil. Factor: 2.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D

Injection Date: 18-Sep-2020 12:26:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-2

Lab Sample ID: 480-175175-2

Client ID: CC-MW-2

Operator ID: RF

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: T-8260

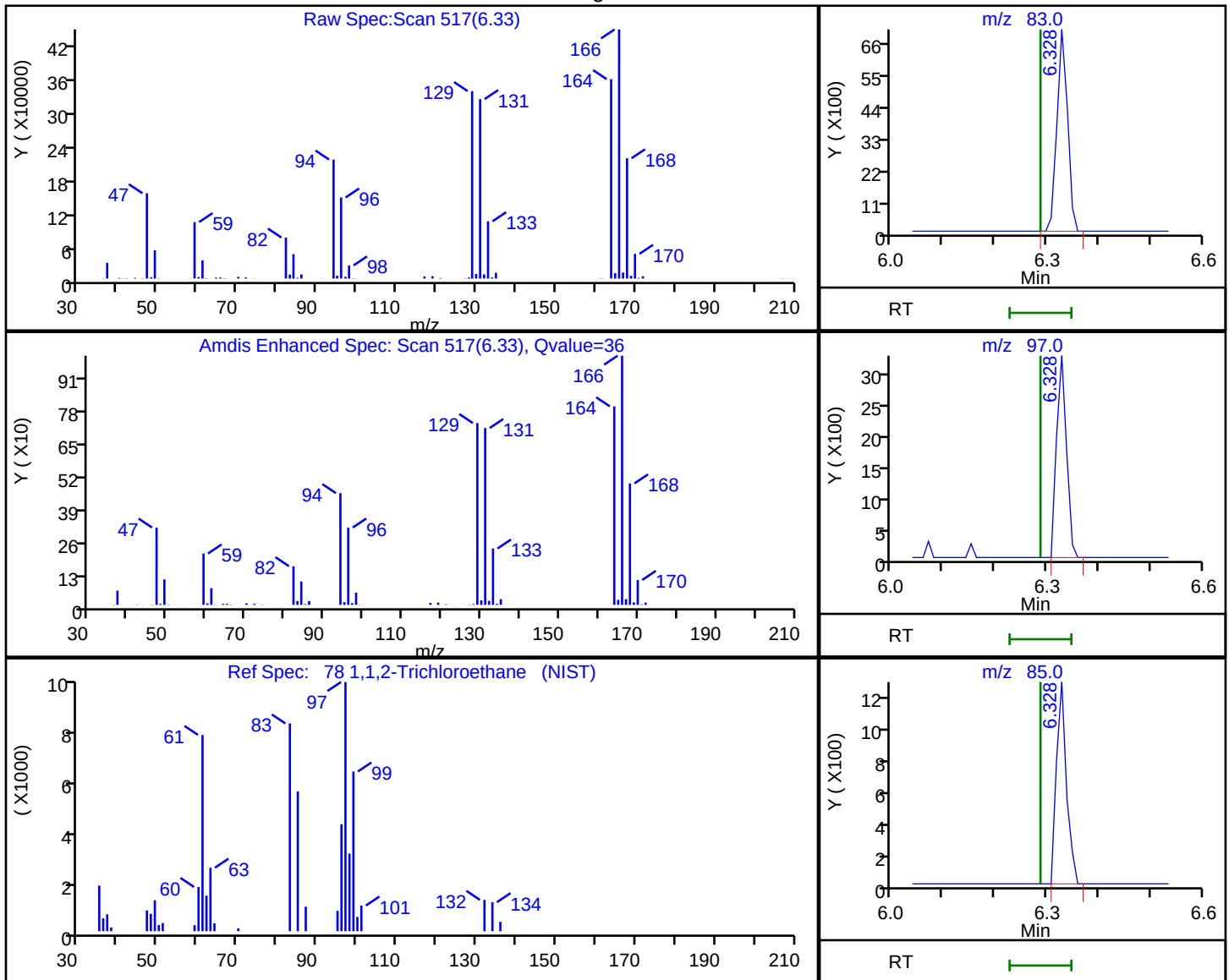
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

78 1,1,2-Trichloroethane, CAS: 79-00-5

Processing Results



RT	Mass	Response	Amount
6.33	83.00	10037	1.370912
6.33	97.00	4299	
6.33	85.00	1748	

Reviewer: lapointec, 19-Sep-2020 10:31:29

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D

Injection Date: 18-Sep-2020 12:26:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-2

Lab Sample ID: 480-175175-2

Client ID: CC-MW-2

Operator ID: RF

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: T-8260

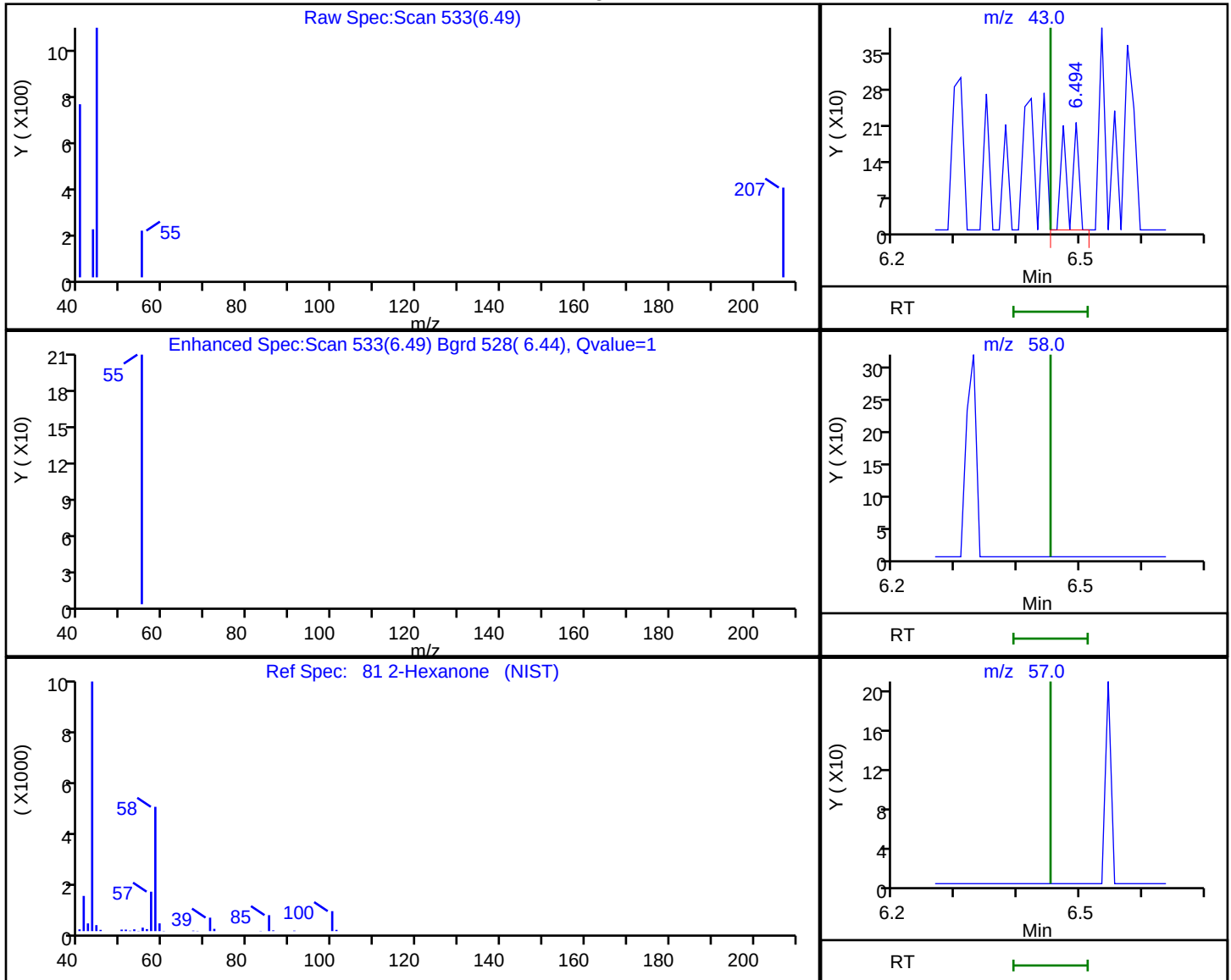
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

81 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
6.49	43.00	259	0.032116
6.45	58.00	0	
6.45	57.00	0	

Reviewer: lapointec, 19-Sep-2020 10:31:33

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6885.D

Injection Date: 18-Sep-2020 12:26:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-2

Lab Sample ID: 480-175175-2

Client ID: CC-MW-2

Operator ID: RF

ALS Bottle#: 11 Worklist Smp#: 15

Purge Vol: 5.000 mL

Dil. Factor: 2.0000

Method: T-8260

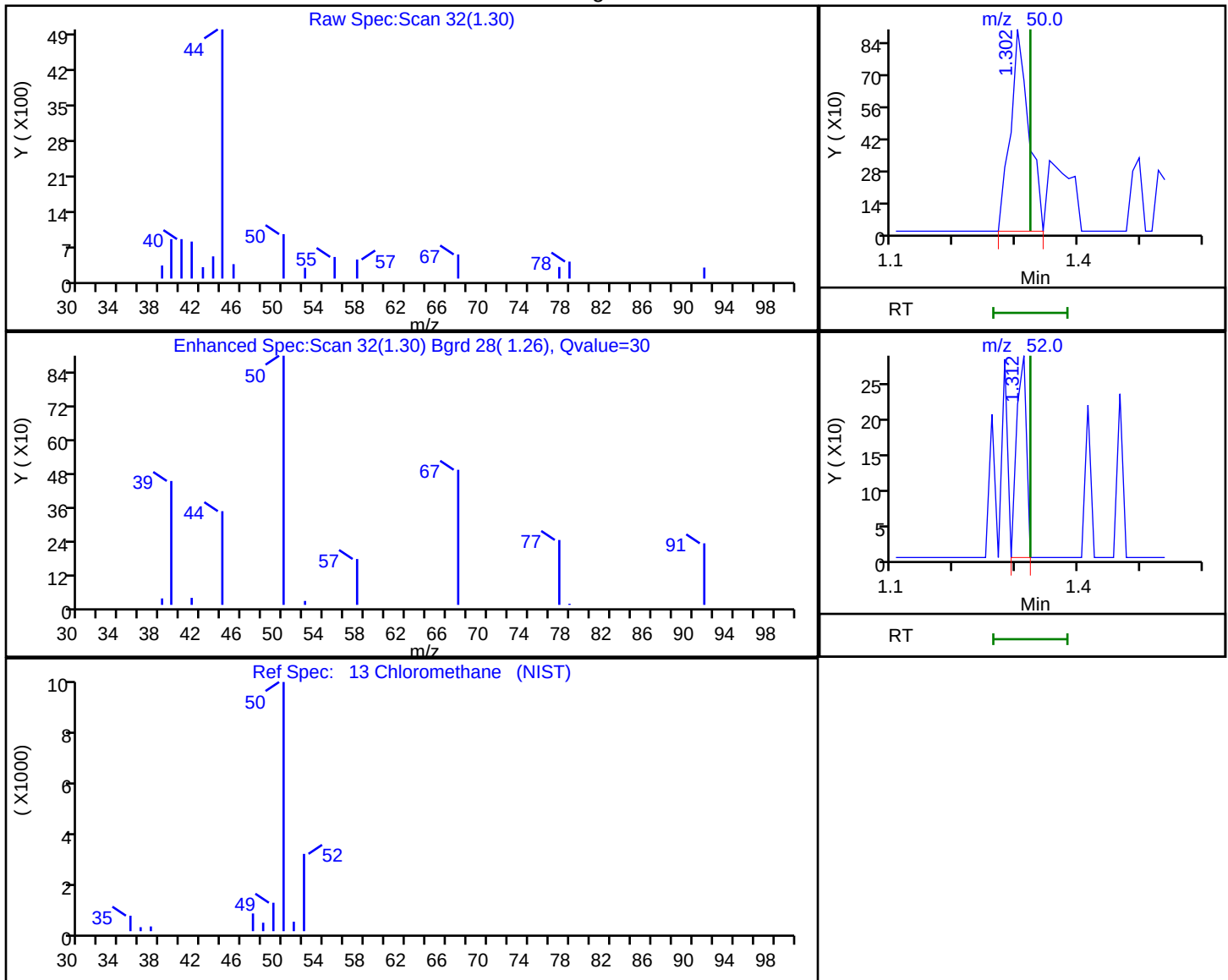
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.30	50.00	1831	0.149207
1.31	52.00	313	

Reviewer: lapointec, 19-Sep-2020 10:30:50

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: CC-MW-3 Lab Sample ID: 480-175175-3

Matrix: Water Lab File ID: T6886.D

Analysis Method: 8260C Date Collected: 09/15/2020 13:30

Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 12:49

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550111 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Buffalo</u>	Job No.: <u>480-175175-1</u>
SDG No.: _____	
Client Sample ID: <u>CC-MW-3</u>	Lab Sample ID: <u>480-175175-3</u>
Matrix: <u>Water</u>	Lab File ID: <u>T6886.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>09/15/2020 13:30</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>09/18/2020 12:49</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>550111</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	ND		1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	29		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	0.72	J	1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	102		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	105		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: CC-MW-3 Lab Sample ID: 480-175175-3
Matrix: Water Lab File ID: T6886.D
Analysis Method: 8260C Date Collected: 09/15/2020 13:30
Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 12:49
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550111 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6886.D
 Lims ID: 480-175175-B-3
 Client ID: CC-MW-3
 Sample Type: Client
 Inject. Date: 18-Sep-2020 12:49:30 ALS Bottle#: 12 Worklist Smp#: 16
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-175175-b-3
 Misc. Info.: 480-0093526-016
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Sep-2020 10:32:48 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1053

First Level Reviewer: lapointec

Date: 19-Sep-2020 10:32:48

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.710	4.711	-0.001	98	163043	25.0	
* 2 Chlorobenzene-d5	117	7.000	7.001	-0.001	89	575947	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.855	8.856	-0.001	97	320147	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.243	4.236	-0.002	92	200426	26.2	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.492	4.493	-0.001	0	266221	25.4	
\$ 6 Toluene-d8 (Surr)	98	5.881	5.882	-0.001	95	753288	24.8	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.933	7.934	-0.001	0	229075	24.8	
11 Dichlorodifluoromethane	85		1.167				ND	
13 Chloromethane	50		1.323				ND	U
14 Vinyl chloride	62		1.405				ND	
15 Bromomethane	94		1.654				ND	
16 Chloroethane	64		1.727				ND	
17 Trichlorofluoromethane	101		1.934				ND	
22 1,1-Dichloroethene	96		2.369				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.369				ND	
23 Acetone	43	2.471	2.483	-0.012	97	10202	2.89	
25 Carbon disulfide	76		2.545				ND	U
28 Methyl acetate	43		2.742				ND	
30 Methylene Chloride	84		2.836				ND	7
33 Methyl tert-butyl ether	73		3.022				ND	
32 trans-1,2-Dichloroethene	96		3.032				ND	
36 1,1-Dichloroethane	63		3.395				ND	
43 cis-1,2-Dichloroethene	96	3.860	3.862	-0.002	82	12986	1.35	
44 2-Butanone (MEK)	43		3.882				ND	
50 Chloroform	83		4.121				ND	
51 1,1,1-Trichloroethane	97		4.214				ND	
52 Cyclohexane	56		4.214				ND	
53 Carbon tetrachloride	117		4.328				ND	
55 Benzene	78		4.494				ND	
57 1,2-Dichloroethane	62		4.545				ND	
60 Trichloroethene	95	4.979	4.981	-0.002	94	6382	0.7201	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.074				ND	
63 1,2-Dichloropropane	63		5.167				ND	
67 Dichlorobromomethane	83		5.395				ND	
71 cis-1,3-Dichloropropene	75		5.706				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820				ND	
73 Toluene	92		5.934				ND	Ua
75 trans-1,3-Dichloropropene	75		6.141				ND	
78 1,1,2-Trichloroethane	83		6.286				ND	
79 Tetrachloroethene	166	6.337	6.328	0.009	95	255012	28.5	
81 2-Hexanone	43		6.452				ND	U
82 Chlorodibromomethane	129		6.587				ND	
83 Ethylene Dibromide	107		6.670				ND	
86 Chlorobenzene	112		7.022				ND	
88 Ethylbenzene	91		7.084				ND	
90 m-Xylene & p-Xylene	106		7.178				ND	
91 o-Xylene	106		7.489				ND	
92 Styrene	104		7.520				ND	
93 Bromoform	173		7.706				ND	
95 Isopropylbenzene	105		7.779				ND	
98 1,1,2,2-Tetrachloroethane	83		8.090				ND	
110 1,3-Dichlorobenzene	146		8.805				ND	
113 1,4-Dichlorobenzene	146		8.877				ND	
116 1,2-Dichlorobenzene	146		9.188				ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862				ND	
119 1,2,4-Trichlorobenzene	180		10.504				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 19-Sep-2020 10:32:48

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6886.D

Injection Date: 18-Sep-2020 12:49:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-B-3

Lab Sample ID: 480-175175-3

Worklist Smp#: 16

Client ID: CC-MW-3

Purge Vol: 5.000 mL

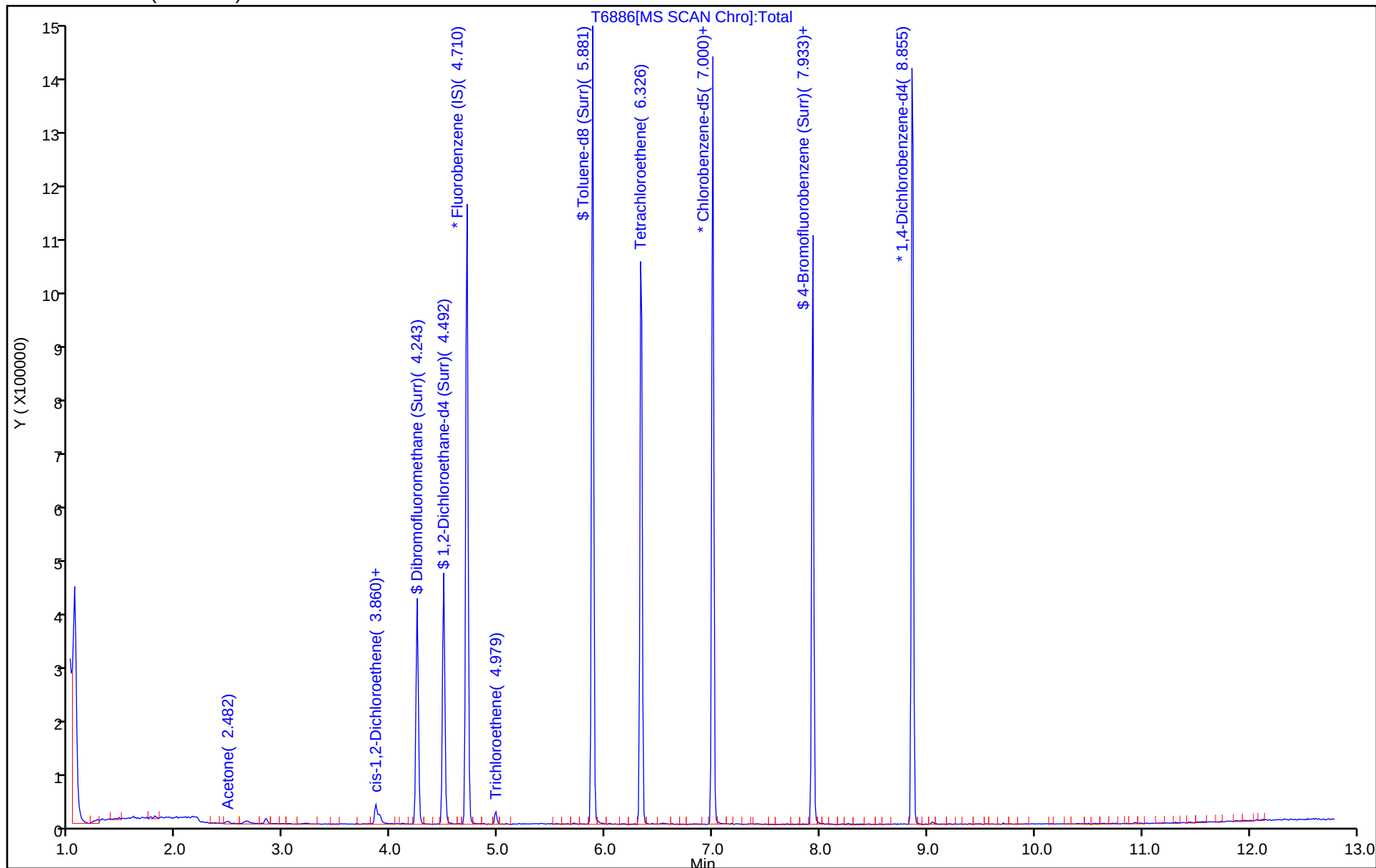
Dil. Factor: 1.0000

ALS Bottle#: 12

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6886.D

Injection Date: 18-Sep-2020 12:49:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-3

Lab Sample ID: 480-175175-3

Client ID: CC-MW-3

Operator ID: RF

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 5.000 mL

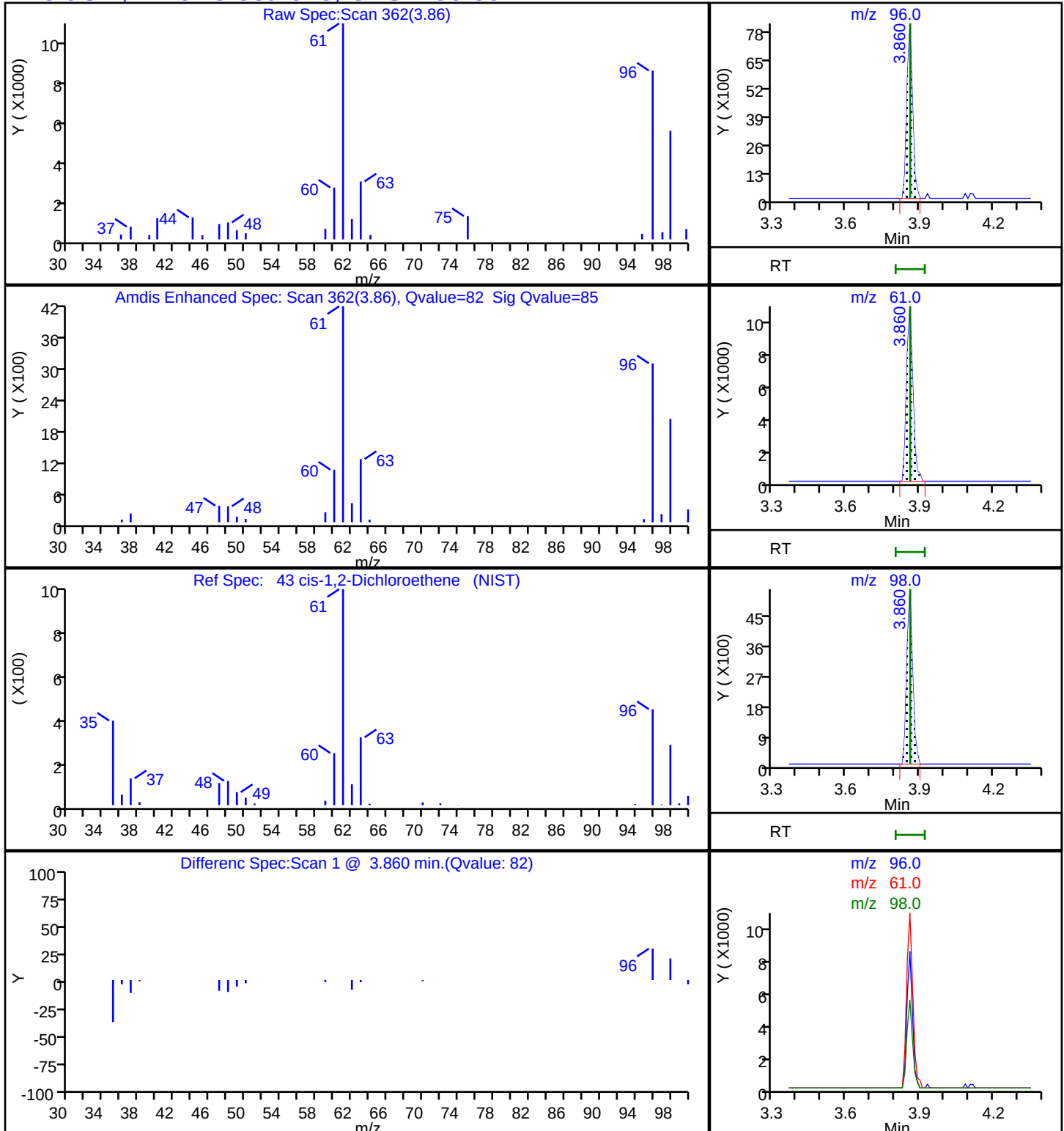
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

43 cis-1,2-Dichloroethene, CAS: 156-59-2

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6886.D

Injection Date: 18-Sep-2020 12:49:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-3

Lab Sample ID: 480-175175-3

Client ID: CC-MW-3

Operator ID: RF

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 5.000 mL

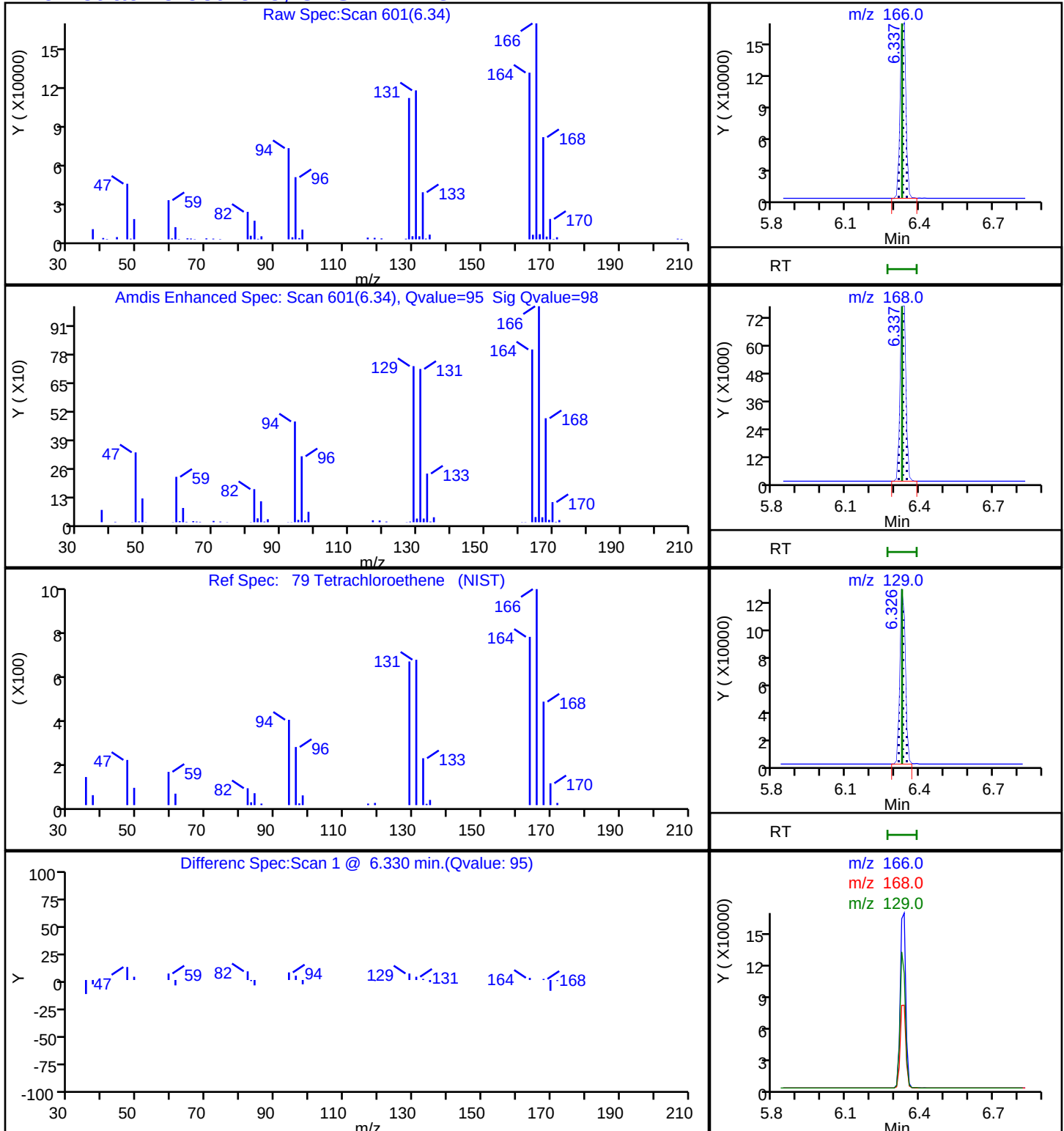
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

79 Tetrachloroethene, CAS: 127-18-4

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6886.D

Injection Date: 18-Sep-2020 12:49:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-3

Lab Sample ID: 480-175175-3

Client ID: CC-MW-3

Operator ID: RF

ALS Bottle#: 12

Worklist Smp#: 16

Purge Vol: 5.000 mL

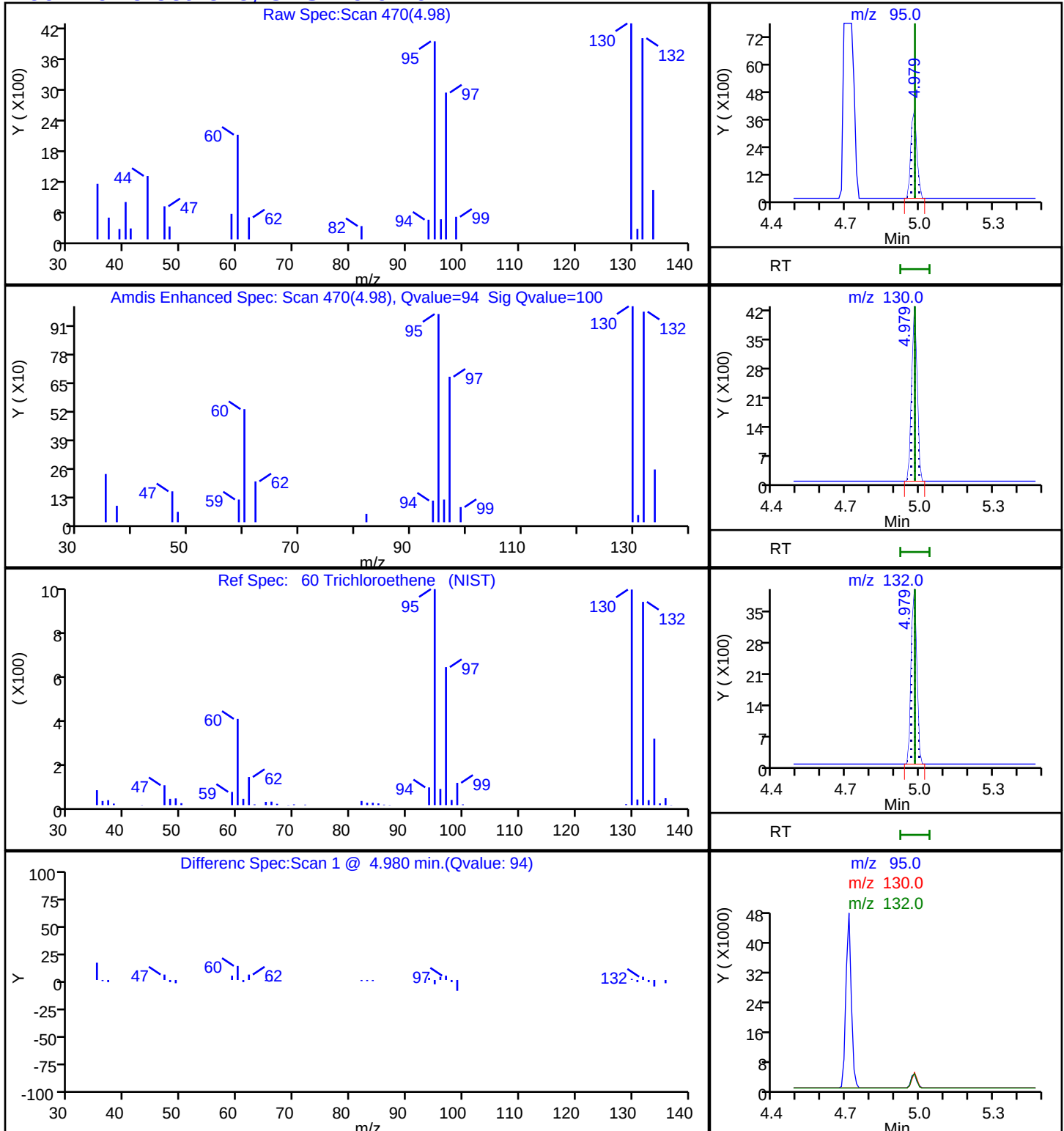
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

60 Trichloroethene, CAS: 79-01-6

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6886.D

Injection Date: 18-Sep-2020 12:49:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-3

Lab Sample ID: 480-175175-3

Client ID: CC-MW-3

Operator ID: RF

ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

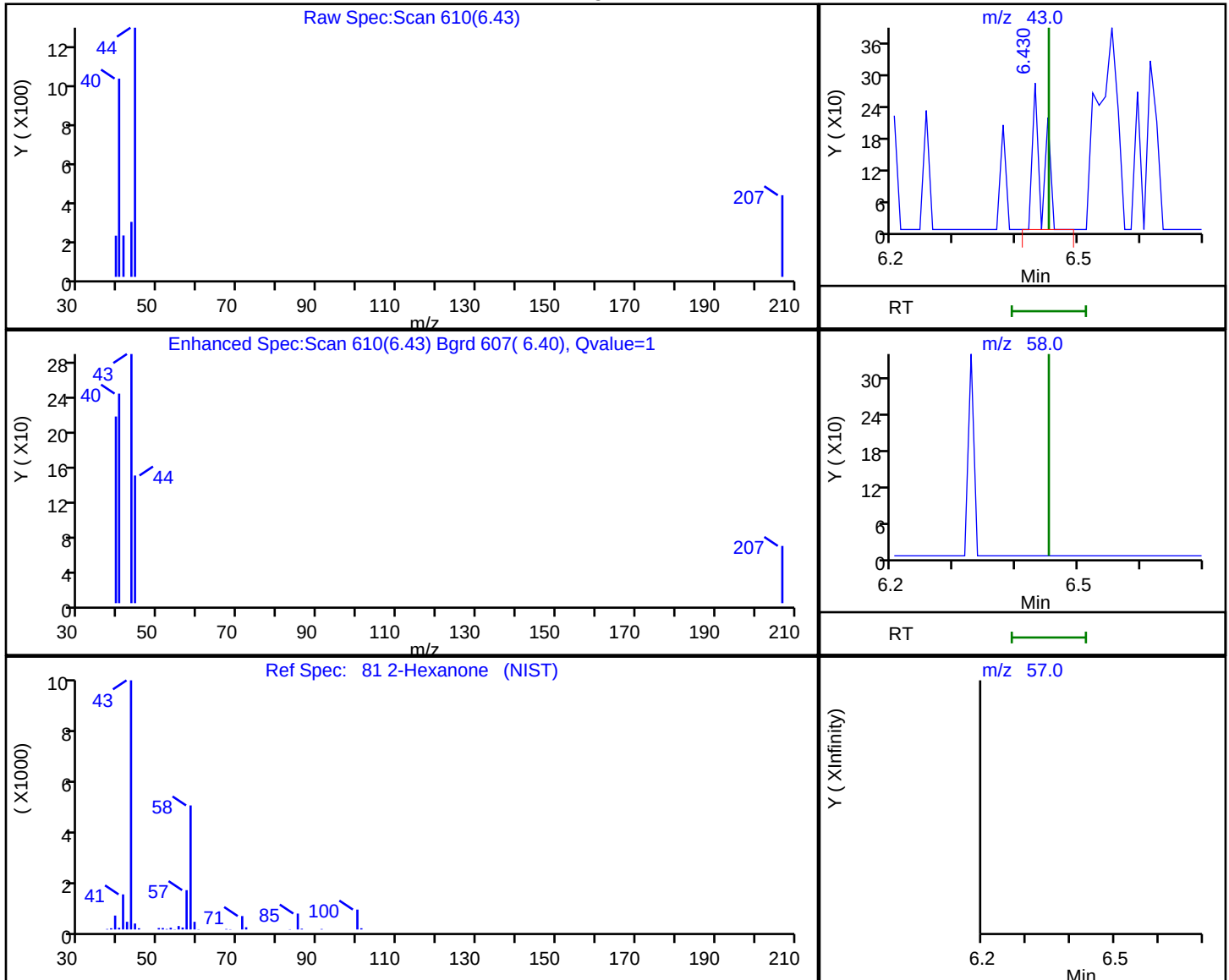
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

81 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
6.43	43.00	310	0.038871
6.45	58.00	0	
6.45	57.00	0	

Reviewer: lapointec, 19-Sep-2020 10:32:37

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6886.D

Injection Date: 18-Sep-2020 12:49:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-3

Lab Sample ID: 480-175175-3

Client ID: CC-MW-3

Operator ID: RF

ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

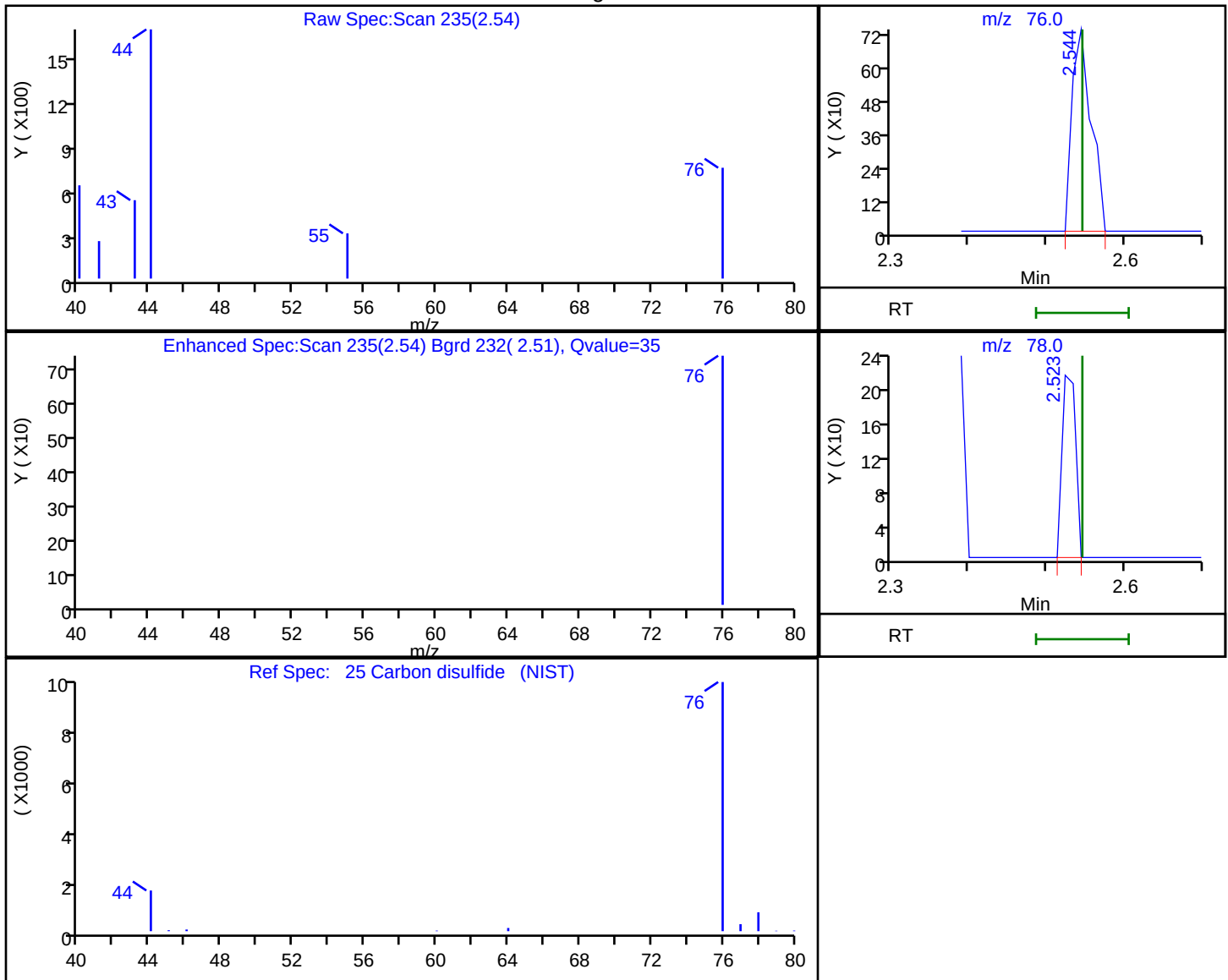
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.54	76.00	1253	0.049178
2.52	78.00	261	

Reviewer: lapointec, 19-Sep-2020 10:32:13

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6886.D

Injection Date: 18-Sep-2020 12:49:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-3

Lab Sample ID: 480-175175-3

Client ID: CC-MW-3

Operator ID: RF

ALS Bottle#: 12 Worklist Smp#: 16

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

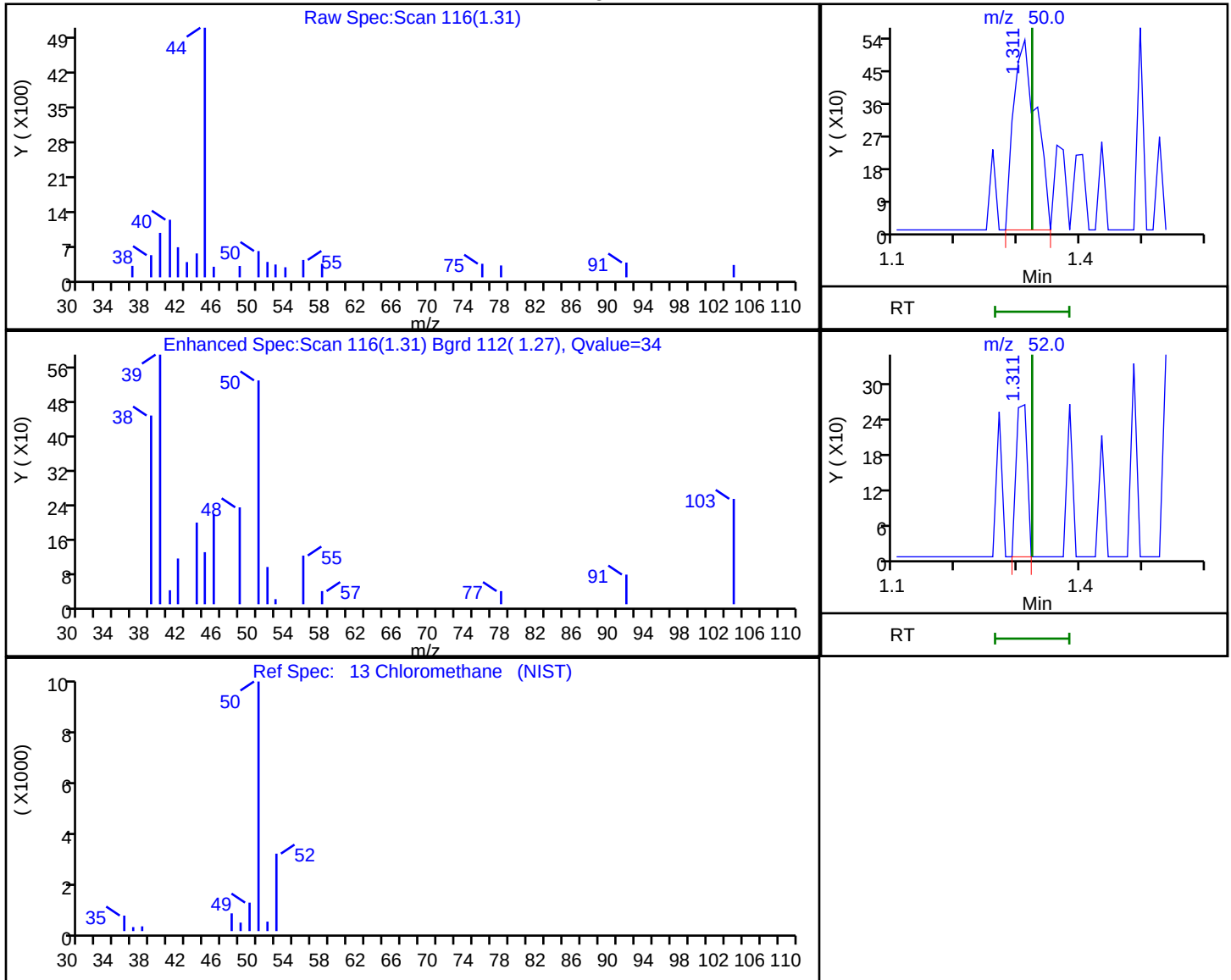
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.31	50.00	1353	0.112112
1.31	52.00	318	

Reviewer: lapointec, 19-Sep-2020 10:32:03

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: CC-MW-5 Lab Sample ID: 480-175175-4

Matrix: Water Lab File ID: T6887.D

Analysis Method: 8260C Date Collected: 09/15/2020 15:25

Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 13:14

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550111 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Buffalo</u>	Job No.: <u>480-175175-1</u>
SDG No.: _____	
Client Sample ID: <u>CC-MW-5</u>	Lab Sample ID: <u>480-175175-4</u>
Matrix: <u>Water</u>	Lab File ID: <u>T6887.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>09/15/2020 15:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>09/18/2020 13:14</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>550111</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	ND		2.5	1.3
1634-04-4	Methyl tert-butyl ether	0.42	J	1.0	0.16
108-87-2	Methylcyclohexane	ND		1.0	0.16
75-09-2	Methylene Chloride	ND		1.0	0.44
100-42-5	Styrene	ND		1.0	0.73
127-18-4	Tetrachloroethene	ND		1.0	0.36
108-88-3	Toluene	ND		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	ND		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	ND		1.0	0.37
79-01-6	Trichloroethene	ND		1.0	0.46
75-69-4	Trichlorofluoromethane	ND		1.0	0.88
75-01-4	Vinyl chloride	ND		1.0	0.90
1330-20-7	Xylenes, Total	ND		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	99		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: CC-MW-5 Lab Sample ID: 480-175175-4
Matrix: Water Lab File ID: T6887.D
Analysis Method: 8260C Date Collected: 09/15/2020 15:25
Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 13:14
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550111 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6887.D
 Lims ID: 480-175175-B-4
 Client ID: CC-MW-5
 Sample Type: Client
 Inject. Date: 18-Sep-2020 13:14:30 ALS Bottle#: 13 Worklist Smp#: 17
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-175175-b-4
 Misc. Info.: 480-0093526-017
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Sep-2020 10:32:48 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1053

First Level Reviewer: lapointec

Date: 19-Sep-2020 10:33:37

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	165265	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	580134	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	316701	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.236	0.000	92	199511	25.7	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.493	0.001	0	263299	24.8	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	757434	24.7	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	229744	24.7	
11 Dichlorodifluoromethane	85		1.167				ND	
13 Chloromethane	50		1.323				ND	
14 Vinyl chloride	62		1.405				ND	
15 Bromomethane	94		1.654				ND	
16 Chloroethane	64		1.727				ND	
17 Trichlorofluoromethane	101		1.934				ND	
22 1,1-Dichloroethene	96		2.369				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.369				ND	
23 Acetone	43	2.473	2.483	-0.010	83	5775	1.62	
25 Carbon disulfide	76		2.545				ND	
28 Methyl acetate	43		2.742				ND	
30 Methylene Chloride	84		2.836				ND	7
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	96	12225	0.4228	
32 trans-1,2-Dichloroethene	96		3.032				ND	
36 1,1-Dichloroethane	63		3.395				ND	
43 cis-1,2-Dichloroethene	96		3.862				ND	
44 2-Butanone (MEK)	43		3.882				ND	
50 Chloroform	83		4.121				ND	
51 1,1,1-Trichloroethane	97		4.214				ND	
52 Cyclohexane	56		4.214				ND	
53 Carbon tetrachloride	117		4.328				ND	
55 Benzene	78		4.494				ND	
57 1,2-Dichloroethane	62		4.545				ND	
60 Trichloroethene	95		4.981				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.074				ND	
63 1,2-Dichloropropane	63		5.167				ND	
67 Dichlorobromomethane	83		5.395				ND	
71 cis-1,3-Dichloropropene	75		5.706				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820				ND	
73 Toluene	92		5.934				ND	
75 trans-1,3-Dichloropropene	75		6.141				ND	
78 1,1,2-Trichloroethane	83		6.286				ND	
79 Tetrachloroethene	166		6.328				ND	
81 2-Hexanone	43		6.452				ND	
82 Chlorodibromomethane	129		6.587				ND	
83 Ethylene Dibromide	107		6.670				ND	
86 Chlorobenzene	112		7.022				ND	
88 Ethylbenzene	91		7.084				ND	
90 m-Xylene & p-Xylene	106		7.178				ND	
91 o-Xylene	106		7.489				ND	
92 Styrene	104		7.520				ND	
93 Bromoform	173		7.706				ND	
95 Isopropylbenzene	105		7.779				ND	
98 1,1,2,2-Tetrachloroethane	83		8.090				ND	
110 1,3-Dichlorobenzene	146		8.805				ND	
113 1,4-Dichlorobenzene	146		8.877				ND	
116 1,2-Dichlorobenzene	146		9.188				ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862				ND	
119 1,2,4-Trichlorobenzene	180		10.504				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6887.D

Injection Date: 18-Sep-2020 13:14:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-B-4

Lab Sample ID: 480-175175-4

Worklist Smp#: 17

Client ID: CC-MW-5

Purge Vol: 5.000 mL

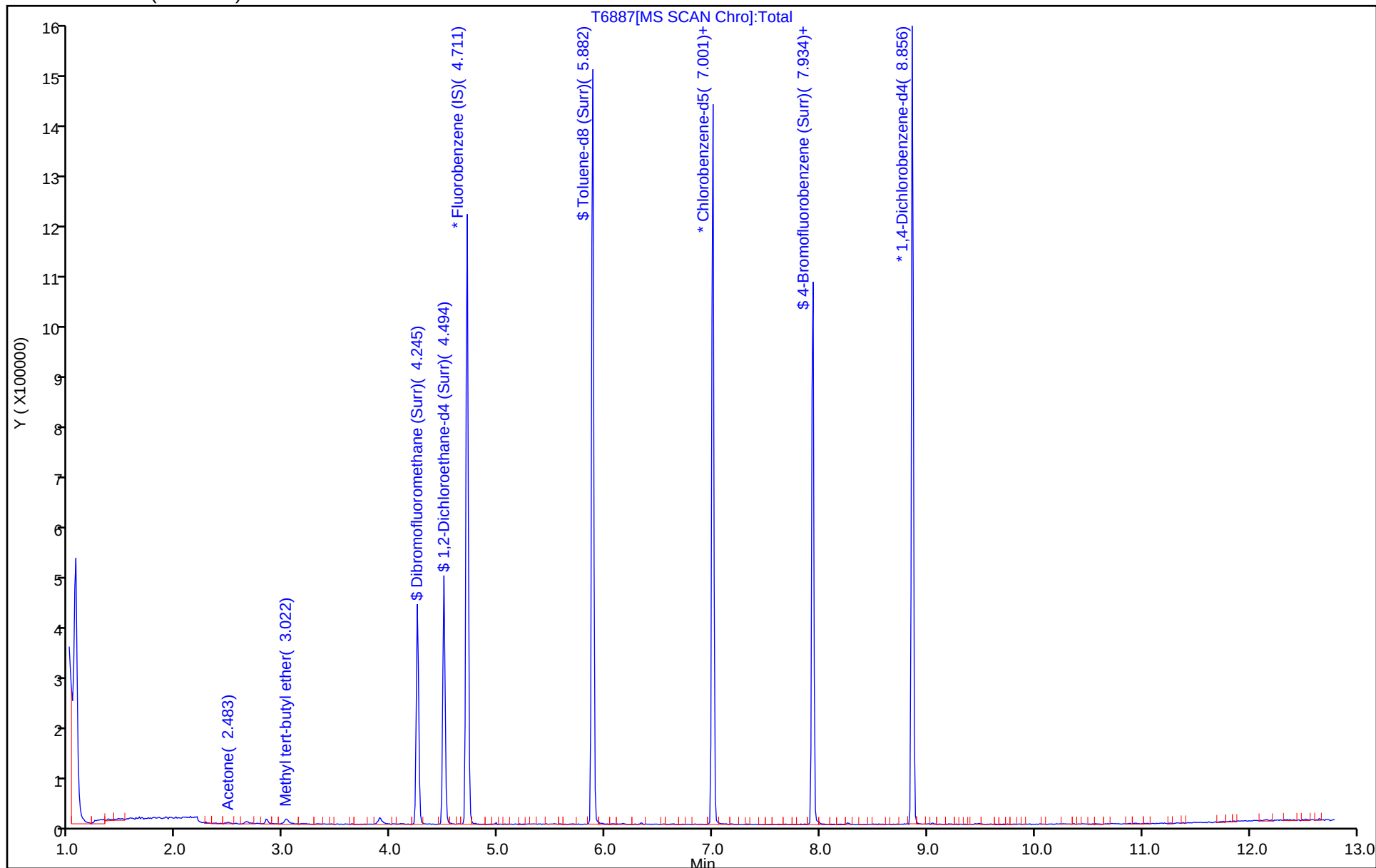
Dil. Factor: 1.0000

ALS Bottle#: 13

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6887.D

Injection Date: 18-Sep-2020 13:14:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-4

Lab Sample ID: 480-175175-4

Client ID: CC-MW-5

Operator ID: RF

ALS Bottle#: 13

Worklist Smp#: 17

Purge Vol: 5.000 mL

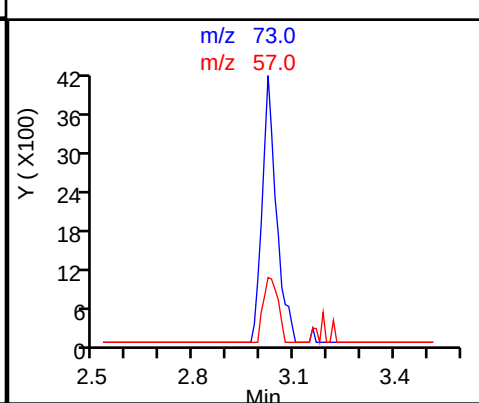
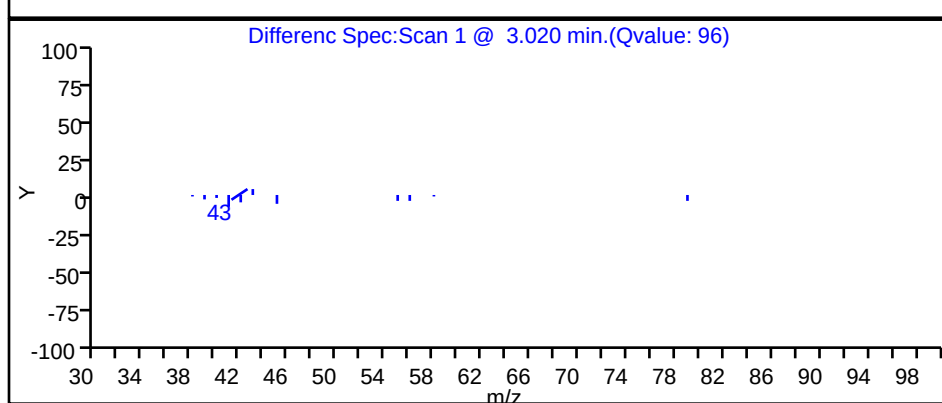
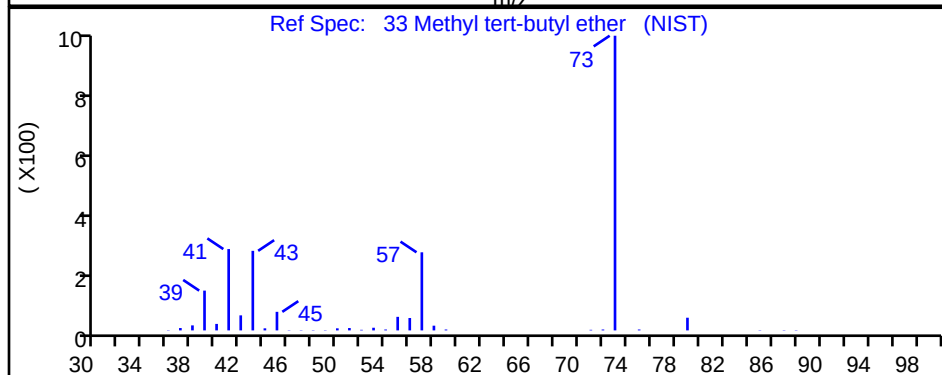
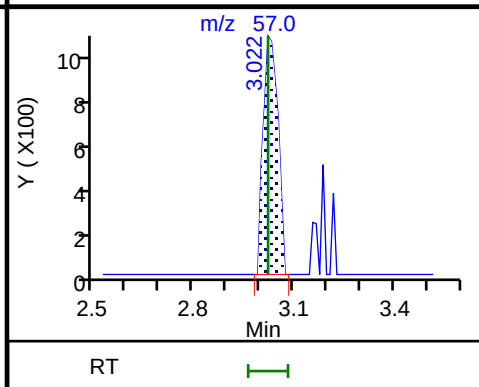
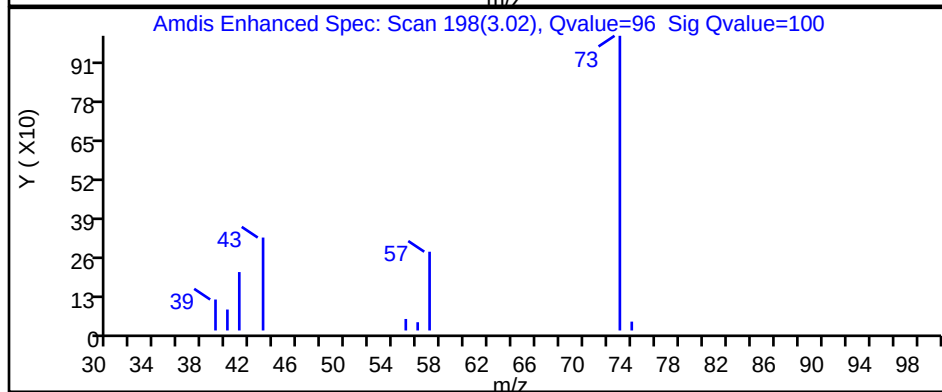
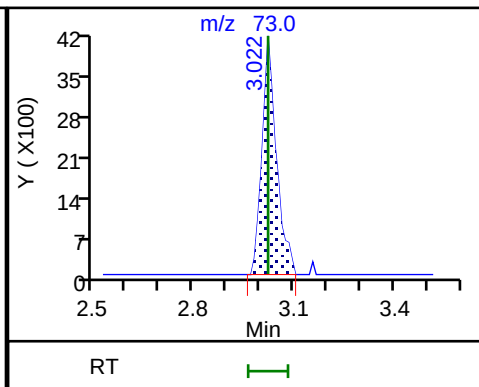
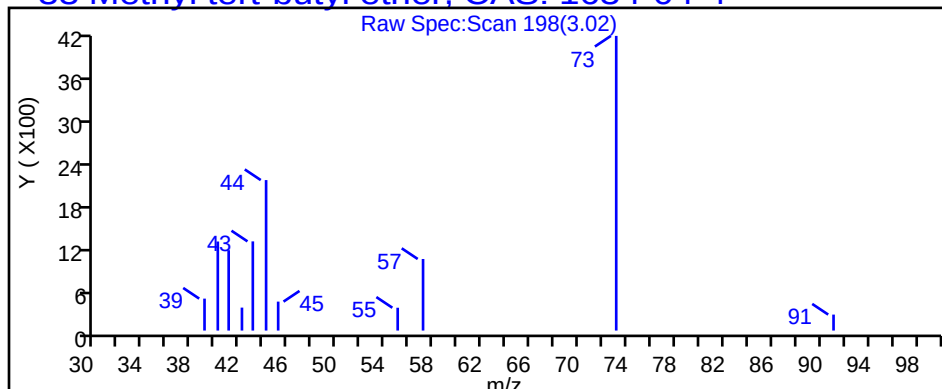
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: CC-MW-4 Lab Sample ID: 480-175175-5

Matrix: Water Lab File ID: T6888.D

Analysis Method: 8260C Date Collected: 09/15/2020 16:25

Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 13:37

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550111 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Buffalo</u>	Job No.: <u>480-175175-1</u>
SDG No.: _____	
Client Sample ID: <u>CC-MW-4</u>	Lab Sample ID: <u>480-175175-5</u>
Matrix: <u>Water</u>	Lab File ID: <u>T6888.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>09/15/2020 16:25</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>09/18/2020 13:37</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>550111</u>	Units: <u>ug/L</u>

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	100		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: CC-MW-4 Lab Sample ID: 480-175175-5
Matrix: Water Lab File ID: T6888.D
Analysis Method: 8260C Date Collected: 09/15/2020 16:25
Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 13:37
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550111 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6888.D
 Lims ID: 480-175175-F-5
 Client ID: CC-MW-4
 Sample Type: Client
 Inject. Date: 18-Sep-2020 13:37:30 ALS Bottle#: 14 Worklist Smp#: 18
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-175175-f-5
 Misc. Info.: 480-0093526-018
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Sep-2020 10:34:53 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1053

First Level Reviewer: lapointec

Date: 19-Sep-2020 10:34:53

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.701	4.711	-0.010	98	158150	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	559878	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	314628	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.234	4.236	-0.011	93	189732	25.6	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.483	4.493	-0.010	0	253380	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	733423	24.8	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	223995	25.0	
11 Dichlorodifluoromethane	85		1.167				ND	
13 Chloromethane	50		1.323				ND	U
14 Vinyl chloride	62		1.405				ND	
15 Bromomethane	94		1.654				ND	
16 Chloroethane	64		1.727				ND	
17 Trichlorofluoromethane	101		1.934				ND	
22 1,1-Dichloroethene	96		2.369				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.369				ND	
23 Acetone	43	2.473	2.483	-0.010	96	7692	2.25	
25 Carbon disulfide	76		2.545				ND	U
28 Methyl acetate	43		2.742				ND	
30 Methylene Chloride	84		2.836				ND	7
33 Methyl tert-butyl ether	73		3.022				ND	
32 trans-1,2-Dichloroethene	96		3.032				ND	
36 1,1-Dichloroethane	63		3.395				ND	
43 cis-1,2-Dichloroethene	96		3.862				ND	
44 2-Butanone (MEK)	43		3.882				ND	
50 Chloroform	83		4.121				ND	Ua
51 1,1,1-Trichloroethane	97		4.214				ND	
52 Cyclohexane	56		4.214				ND	
53 Carbon tetrachloride	117		4.328				ND	
55 Benzene	78		4.494				ND	
57 1,2-Dichloroethane	62		4.545				ND	
60 Trichloroethene	95		4.981				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.074				ND	
63 1,2-Dichloropropane	63		5.167				ND	
67 Dichlorobromomethane	83		5.395				ND	
71 cis-1,3-Dichloropropene	75		5.706				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820				ND	U
73 Toluene	92		5.934				ND	Ua
75 trans-1,3-Dichloropropene	75		6.141				ND	
78 1,1,2-Trichloroethane	83		6.286				ND	
79 Tetrachloroethene	166		6.328				ND	
81 2-Hexanone	43		6.452				ND	
82 Chlorodibromomethane	129		6.587				ND	
83 Ethylene Dibromide	107		6.670				ND	
86 Chlorobenzene	112		7.022				ND	
88 Ethylbenzene	91		7.084				ND	
90 m-Xylene & p-Xylene	106		7.178				ND	
91 o-Xylene	106		7.489				ND	
92 Styrene	104		7.520				ND	
93 Bromoform	173		7.706				ND	
95 Isopropylbenzene	105		7.779				ND	
98 1,1,2,2-Tetrachloroethane	83		8.090				ND	
110 1,3-Dichlorobenzene	146		8.805				ND	
113 1,4-Dichlorobenzene	146		8.877				ND	
116 1,2-Dichlorobenzene	146		9.188				ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862				ND	
119 1,2,4-Trichlorobenzene	180		10.504				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 19-Sep-2020 10:34:53

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6888.D

Injection Date: 18-Sep-2020 13:37:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-F-5

Lab Sample ID: 480-175175-5

Worklist Smp#: 18

Client ID: CC-MW-4

Purge Vol: 5.000 mL

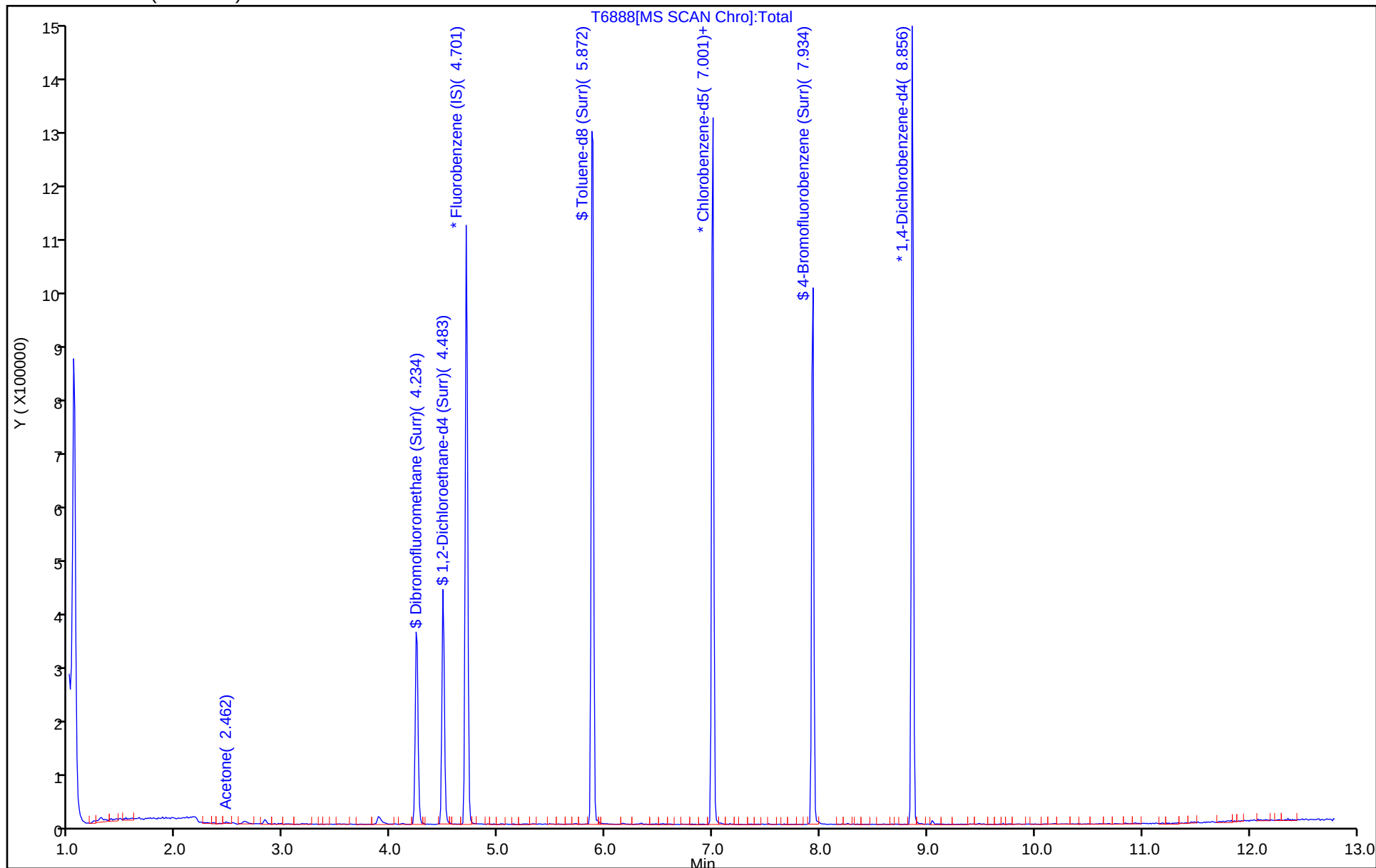
Dil. Factor: 1.0000

ALS Bottle#: 14

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6888.D

Injection Date: 18-Sep-2020 13:37:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-5

Lab Sample ID: 480-175175-5

Client ID: CC-MW-4

Operator ID: RF

ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

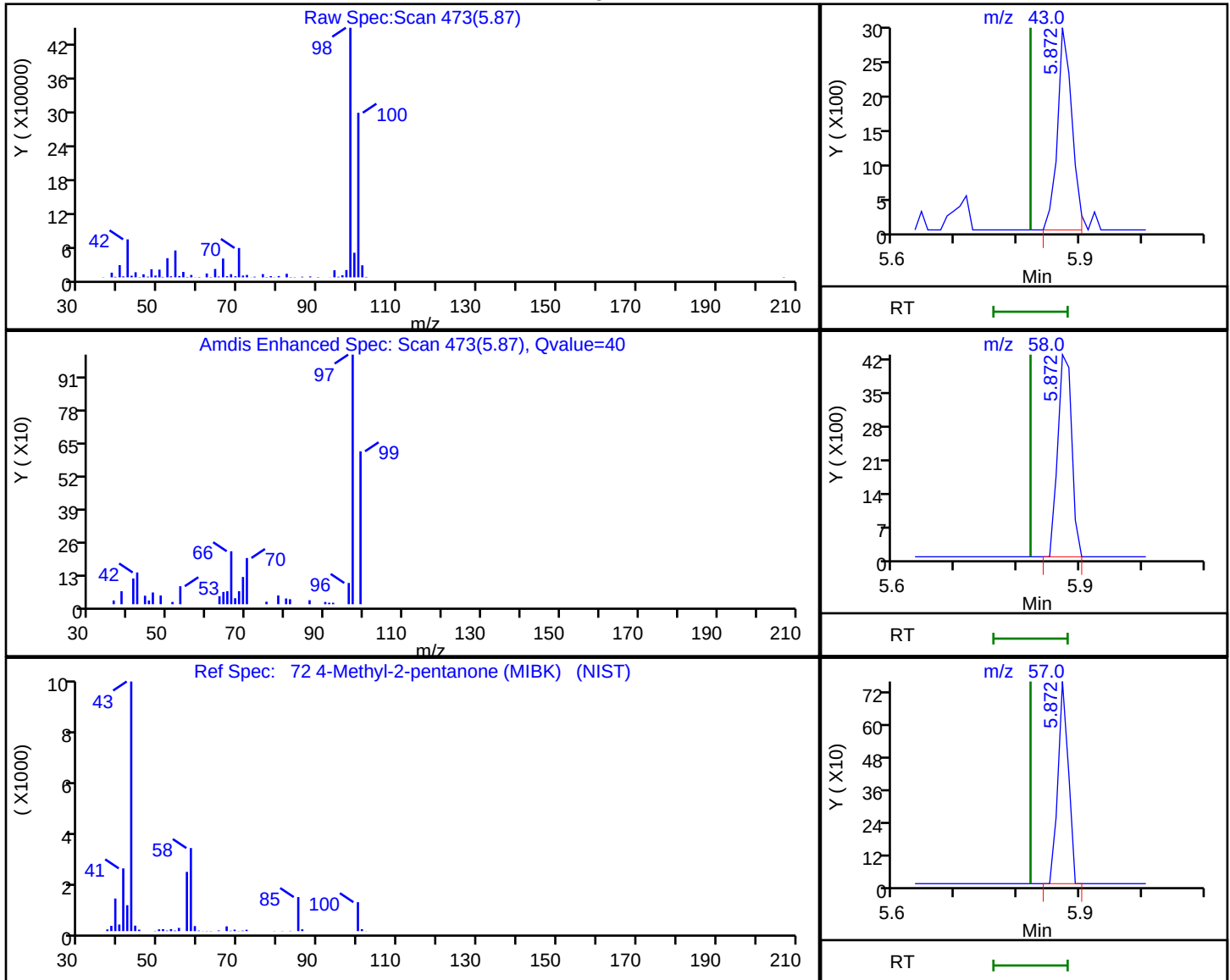
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

72 4-Methyl-2-pentanone (MIBK), CAS: 108-10-1

Processing Results



RT	Mass	Response	Amount
5.87	43.00	4697	0.425584
5.87	58.00	6626	
5.87	57.00	872	

Reviewer: lapointec, 19-Sep-2020 10:34:34

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6888.D

Injection Date: 18-Sep-2020 13:37:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-5

Lab Sample ID: 480-175175-5

Client ID: CC-MW-4

Operator ID: RF

ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

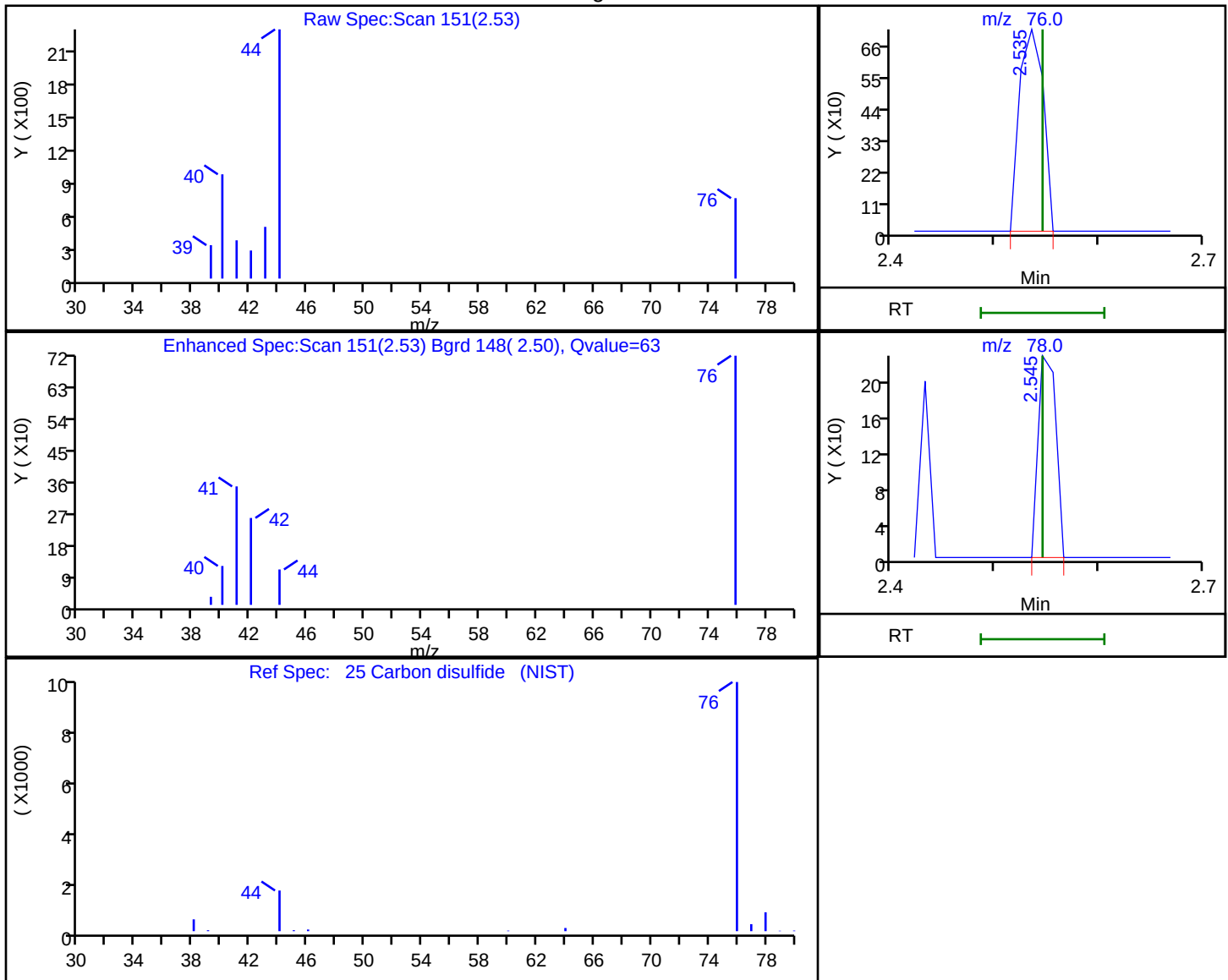
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.53	76.00	1138	0.046046
2.55	78.00	274	

Reviewer: lapointec, 19-Sep-2020 10:34:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6888.D

Injection Date: 18-Sep-2020 13:37:30

Instrument ID: HP5975T

Lims ID: 480-175175-F-5

Lab Sample ID: 480-175175-5

Client ID: CC-MW-4

Operator ID: RF

ALS Bottle#: 14 Worklist Smp#: 18

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

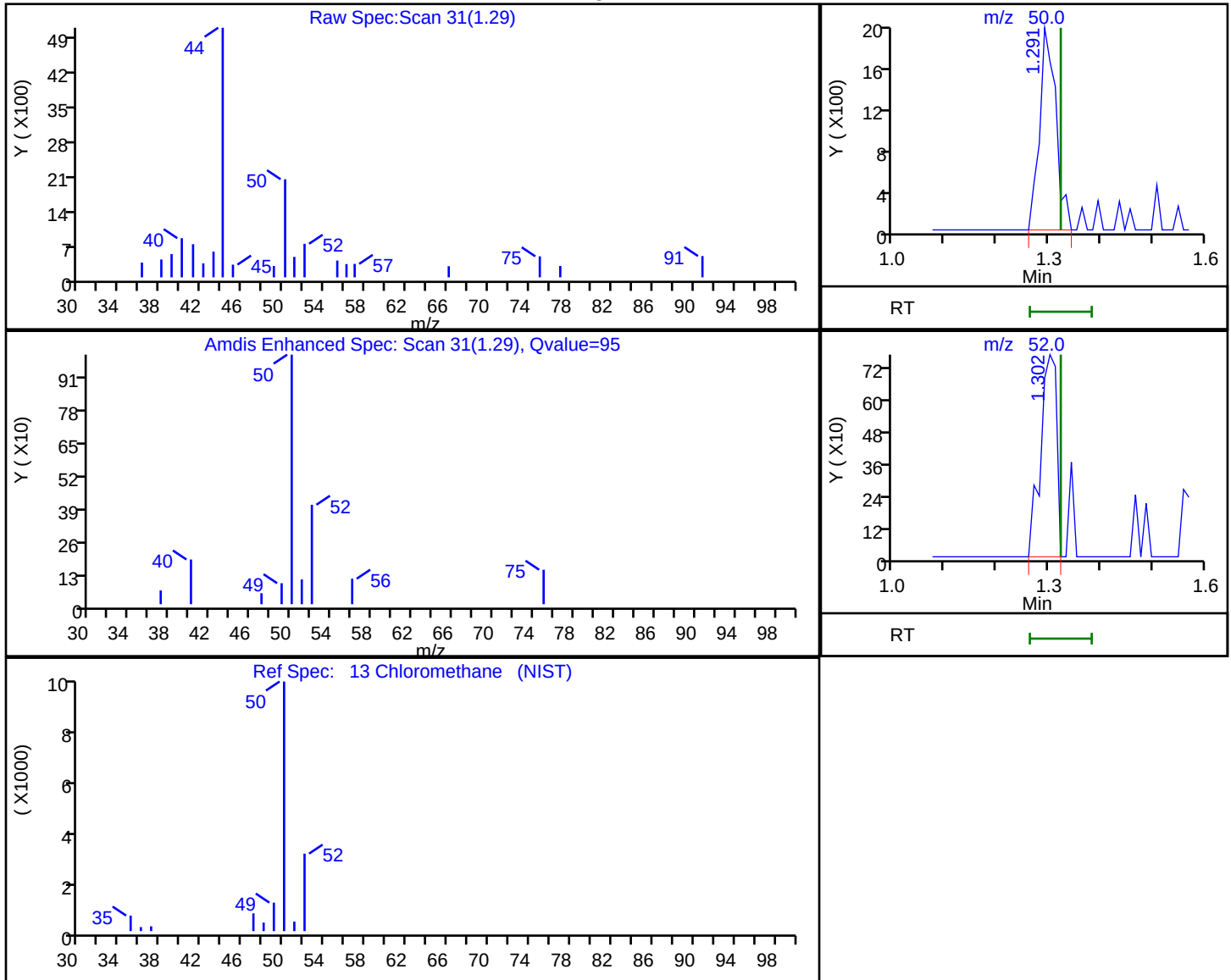
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.29	50.00	4321	0.369124
1.30	52.00	1655	

Reviewer: lapointec, 19-Sep-2020 10:33:57

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-6 Lab Sample ID: 480-175175-6
 Matrix: Water Lab File ID: T6889.D
 Analysis Method: 8260C Date Collected: 09/15/2020 17:40
 Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 14:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550111 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-6 Lab Sample ID: 480-175175-6
 Matrix: Water Lab File ID: T6889.D
 Analysis Method: 8260C Date Collected: 09/15/2020 17:40
 Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 14:02
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550111 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	98		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: CC-MW-6 Lab Sample ID: 480-175175-6
Matrix: Water Lab File ID: T6889.D
Analysis Method: 8260C Date Collected: 09/15/2020 17:40
Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 14:02
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550111 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6889.D
 Lims ID: 480-175175-B-6
 Client ID: CC-MW-6
 Sample Type: Client
 Inject. Date: 18-Sep-2020 14:02:30 ALS Bottle#: 15 Worklist Smp#: 19
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-175175-b-6
 Misc. Info.: 480-0093526-019
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Sep-2020 10:36:06 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1053

First Level Reviewer: lapointec

Date: 19-Sep-2020 10:36:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.701	4.711	-0.010	98	167419	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	583291	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	321314	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.236	0.000	92	195899	24.9	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.493	0.001	0	262056	24.4	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	763120	24.8	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	231990	24.8	
11 Dichlorodifluoromethane	85		1.167				ND	
13 Chloromethane	50		1.323				ND	U
14 Vinyl chloride	62		1.405				ND	
15 Bromomethane	94		1.654				ND	
16 Chloroethane	64		1.727				ND	U
17 Trichlorofluoromethane	101		1.934				ND	
22 1,1-Dichloroethene	96		2.369				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroe	101		2.369				ND	
23 Acetone	43		2.483				ND	U
25 Carbon disulfide	76		2.545				ND	U
28 Methyl acetate	43		2.742				ND	
30 Methylene Chloride	84		2.836				ND	7
33 Methyl tert-butyl ether	73	3.012	3.022	-0.010	98	12812	0.4374	
32 trans-1,2-Dichloroethene	96		3.032				ND	
36 1,1-Dichloroethane	63	3.385	3.395	-0.010	94	4144	0.2630	
43 cis-1,2-Dichloroethene	96	3.851	3.862	-0.011	42	2098	0.2122	
44 2-Butanone (MEK)	43		3.882				ND	
50 Chloroform	83		4.121				ND	
51 1,1,1-Trichloroethane	97		4.214				ND	Ua
52 Cyclohexane	56		4.214				ND	
53 Carbon tetrachloride	117		4.328				ND	
55 Benzene	78		4.494				ND	
57 1,2-Dichloroethane	62		4.545				ND	
60 Trichloroethene	95	4.981	4.981	0.000	90	1957	0.2150	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.074				ND	
63 1,2-Dichloropropane	63		5.167				ND	
67 Dichlorobromomethane	83		5.395				ND	
71 cis-1,3-Dichloropropene	75		5.706				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820				ND	
73 Toluene	92		5.934				ND	
75 trans-1,3-Dichloropropene	75		6.141				ND	
78 1,1,2-Trichloroethane	83		6.286				ND	
79 Tetrachloroethene	166		6.328				ND	
81 2-Hexanone	43		6.452				ND	U
82 Chlorodibromomethane	129		6.587				ND	
83 Ethylene Dibromide	107		6.670				ND	
86 Chlorobenzene	112		7.022				ND	
88 Ethylbenzene	91		7.084				ND	
90 m-Xylene & p-Xylene	106		7.178				ND	
91 o-Xylene	106		7.489				ND	
92 Styrene	104		7.520				ND	
93 Bromoform	173		7.706				ND	
95 Isopropylbenzene	105		7.779				ND	
98 1,1,2,2-Tetrachloroethane	83		8.090				ND	
110 1,3-Dichlorobenzene	146		8.805				ND	
113 1,4-Dichlorobenzene	146		8.877				ND	
116 1,2-Dichlorobenzene	146		9.188				ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862				ND	
119 1,2,4-Trichlorobenzene	180		10.504				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

a - User Assigned ID

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6889.D

Injection Date: 18-Sep-2020 14:02:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-B-6

Lab Sample ID: 480-175175-6

Worklist Smp#: 19

Client ID: CC-MW-6

Purge Vol: 5.000 mL

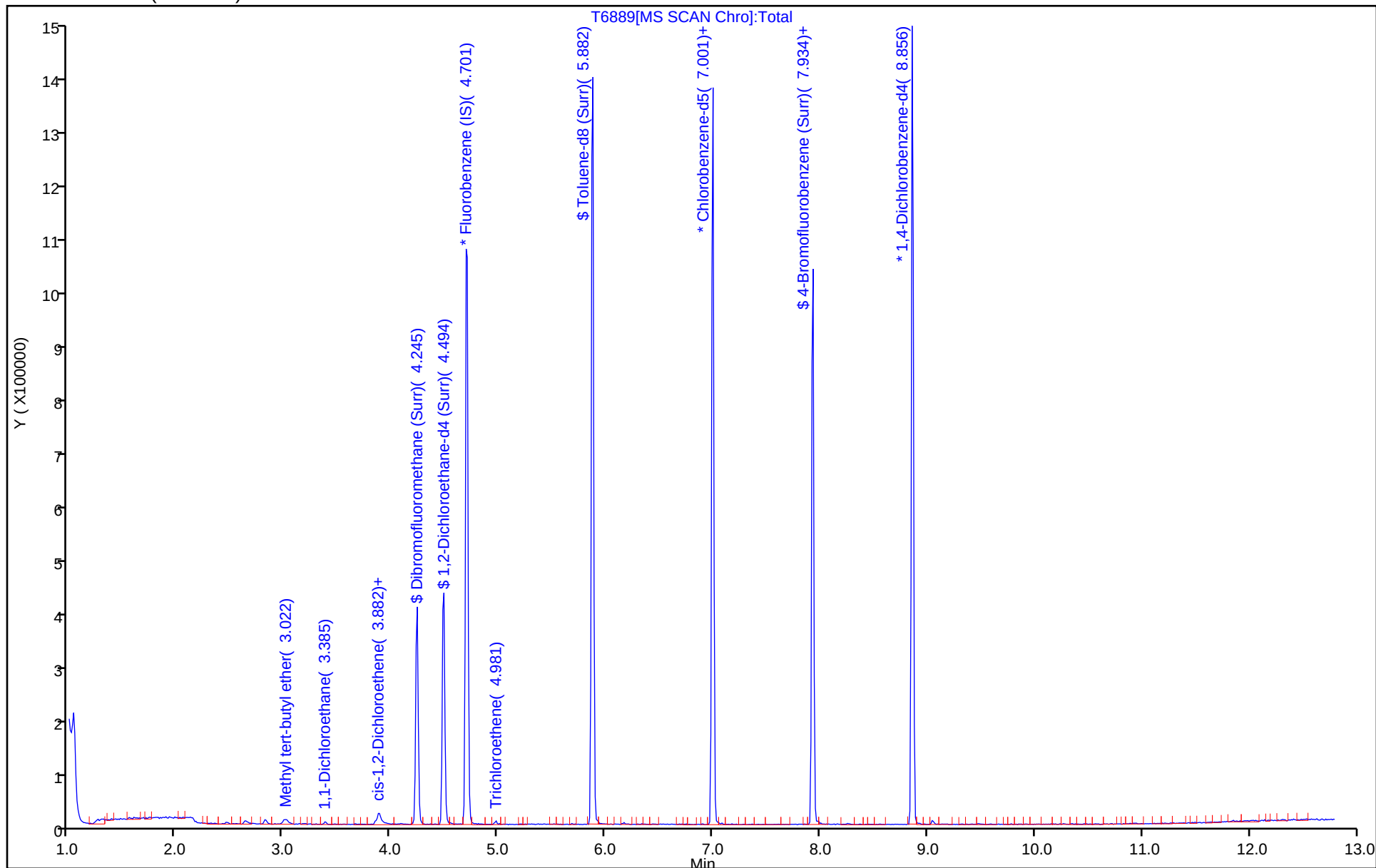
Dil. Factor: 1.0000

ALS Bottle#: 15

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6889.D

Injection Date: 18-Sep-2020 14:02:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-6

Lab Sample ID: 480-175175-6

Client ID: CC-MW-6

Operator ID: RF

ALS Bottle#: 15

Worklist Smp#: 19

Purge Vol: 5.000 mL

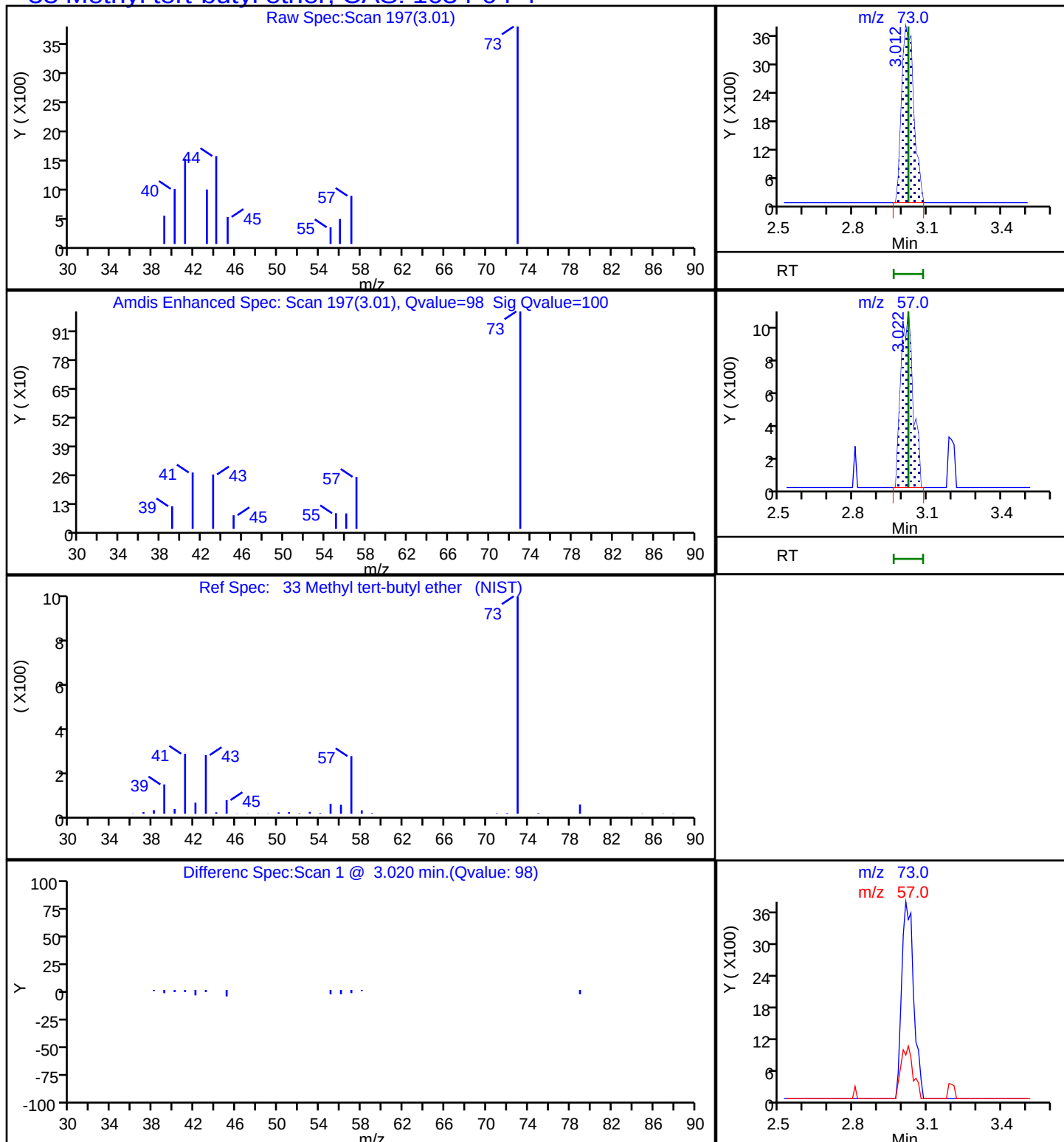
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

33 Methyl tert-butyl ether, CAS: 1634-04-4

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6889.D

Injection Date: 18-Sep-2020 14:02:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-6

Lab Sample ID: 480-175175-6

Client ID: CC-MW-6

Operator ID: RF

ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

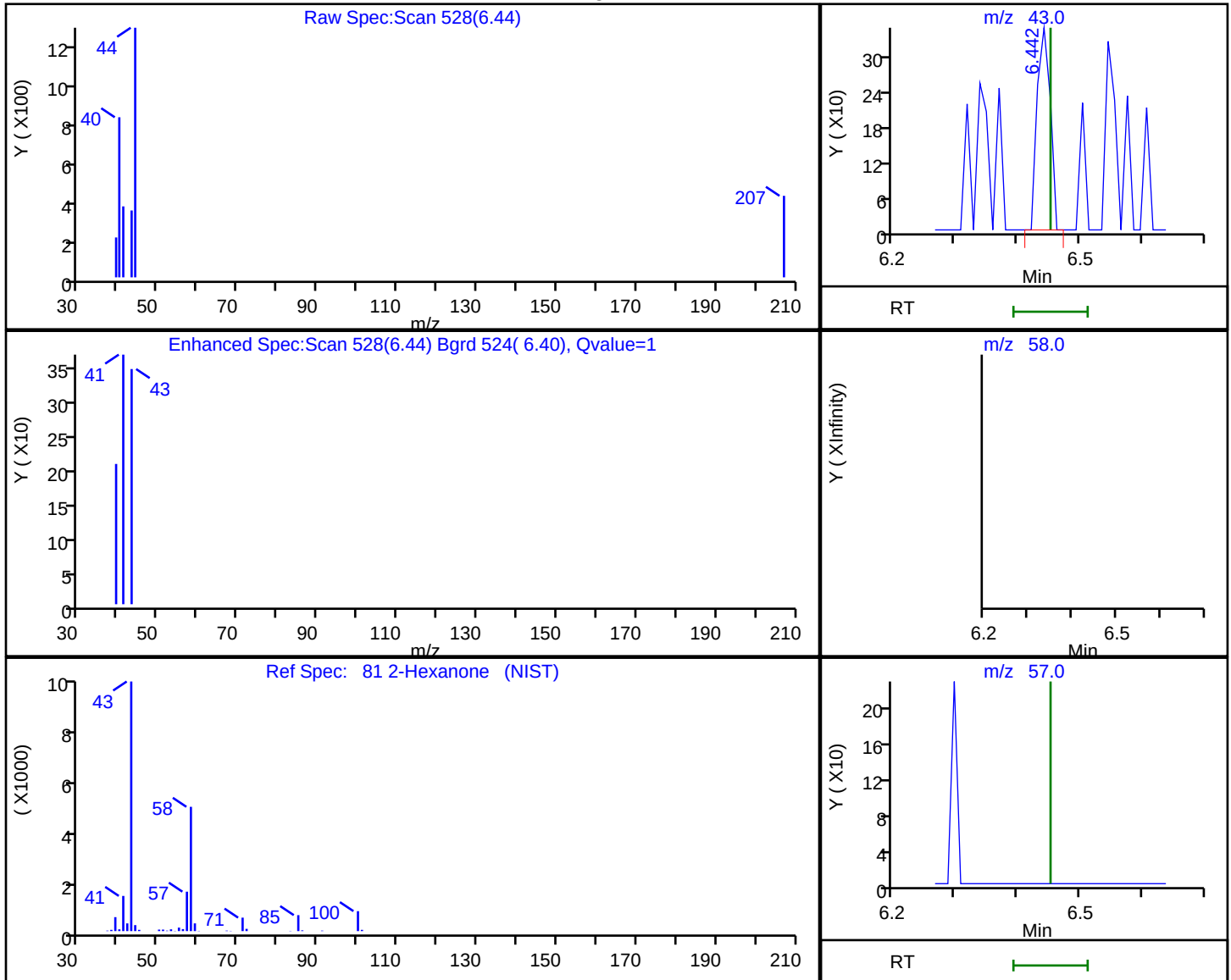
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

81 2-Hexanone, CAS: 591-78-6

Processing Results



RT	Mass	Response	Amount
6.44	43.00	502	0.062153
6.45	58.00	0	
6.45	57.00	0	

Reviewer: lapointec, 19-Sep-2020 10:35:55

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6889.D

Injection Date: 18-Sep-2020 14:02:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-6

Lab Sample ID: 480-175175-6

Client ID: CC-MW-6

Operator ID: RF

ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

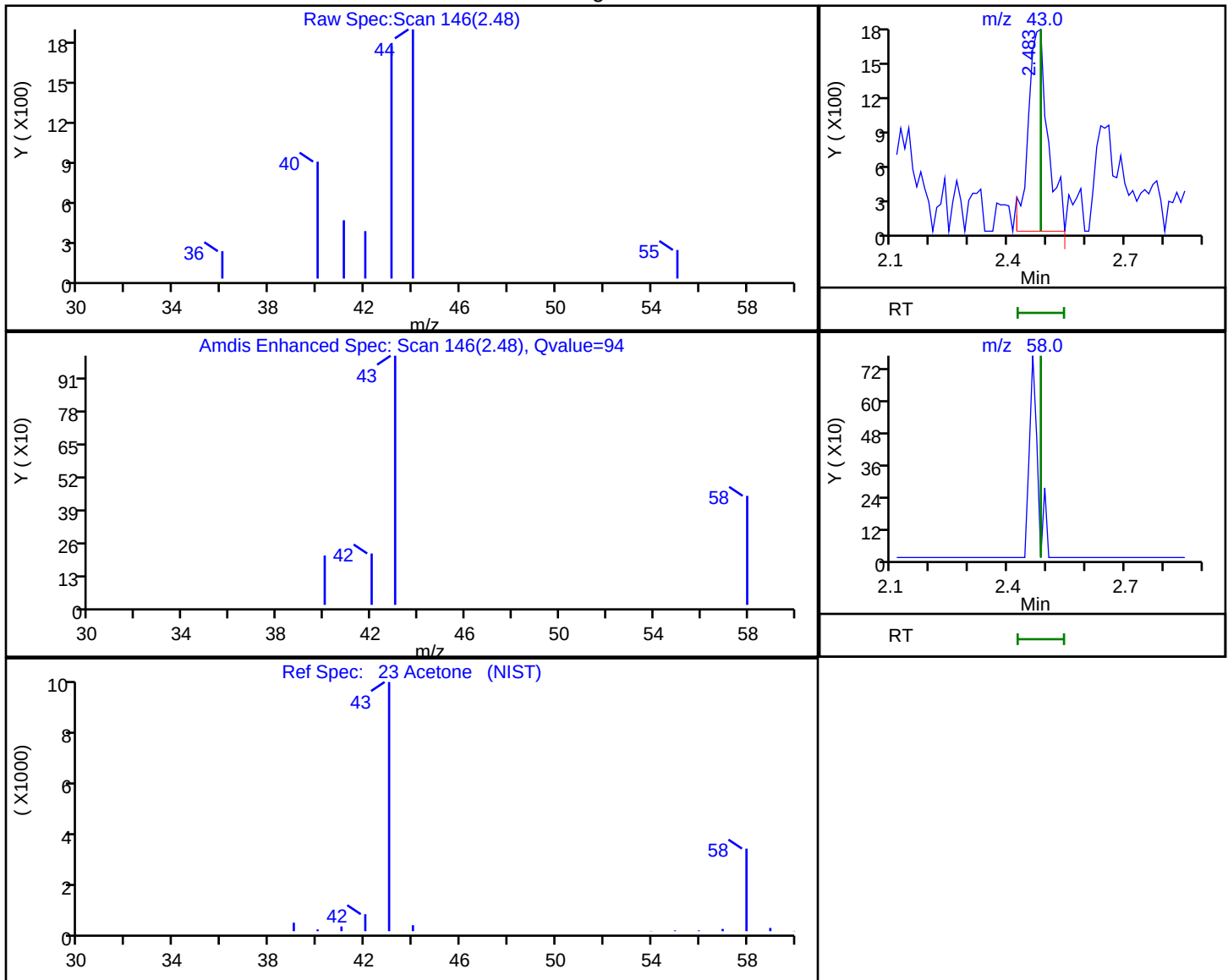
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.48	43.00	6116	1.688505
2.48	58.00	0	

Reviewer: lapointec, 19-Sep-2020 10:35:22

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6889.D

Injection Date: 18-Sep-2020 14:02:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-6

Lab Sample ID: 480-175175-6

Client ID: CC-MW-6

Operator ID: RF

ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

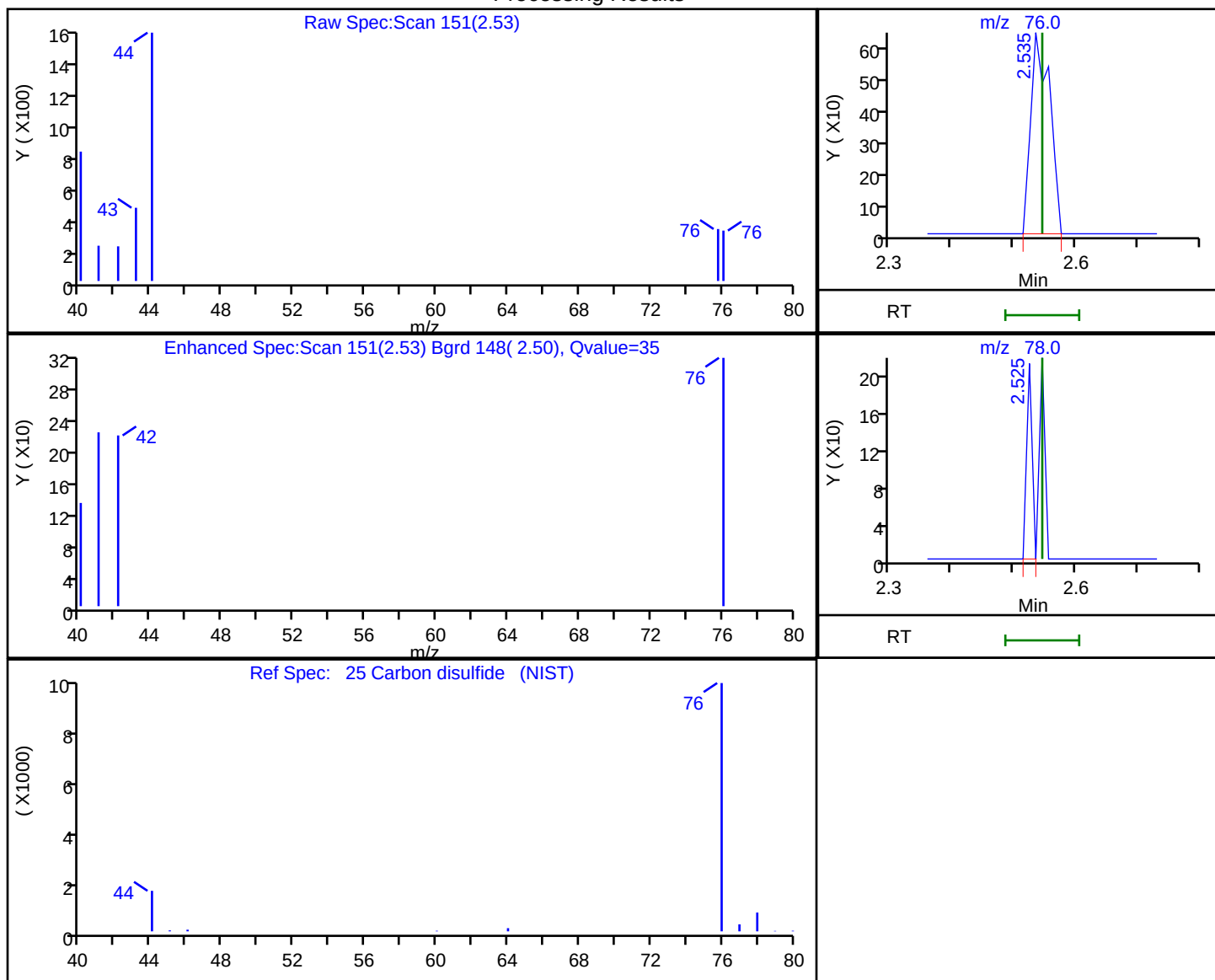
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

25 Carbon disulfide, CAS: 75-15-0

Processing Results



RT	Mass	Response	Amount
2.53	76.00	1383	0.052861
2.52	78.00	130	

Reviewer: lapointec, 19-Sep-2020 10:35:27

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6889.D

Injection Date: 18-Sep-2020 14:02:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-6

Lab Sample ID: 480-175175-6

Client ID: CC-MW-6

Operator ID: RF

ALS Bottle#:

15

Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

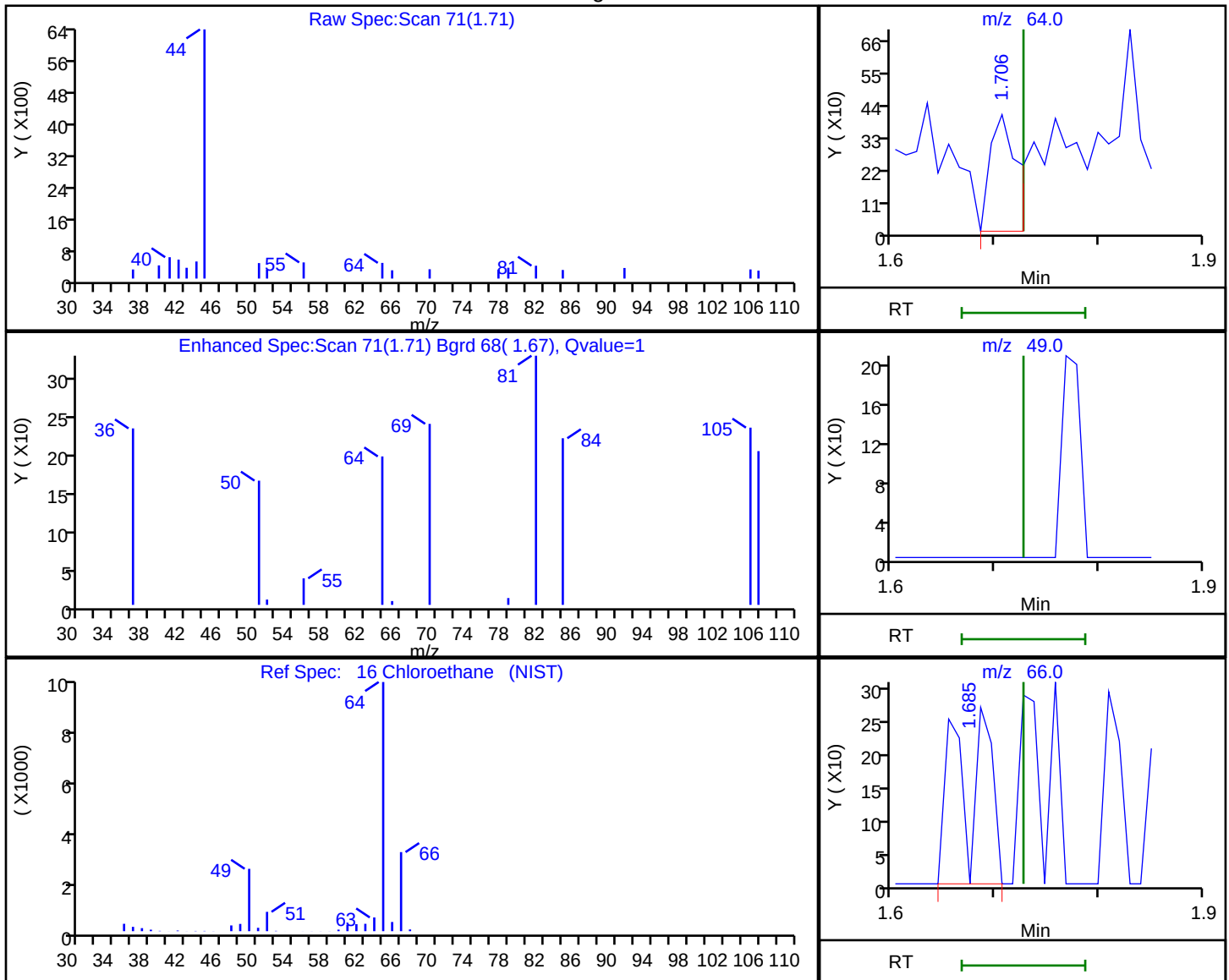
Column: ZB-624 (0.18 mm)

Detector

MS SCAN

16 Chloroethane, CAS: 75-00-3

Processing Results



RT	Mass	Response	Amount
1.71	64.00	736	0.100558
1.69	66.00	599	
1.73	49.00	0	

Reviewer: lapointec, 19-Sep-2020 10:35:14

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6889.D

Injection Date: 18-Sep-2020 14:02:30

Instrument ID: HP5975T

Lims ID: 480-175175-B-6

Lab Sample ID: 480-175175-6

Client ID: CC-MW-6

Operator ID: RF

ALS Bottle#: 15 Worklist Smp#: 19

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

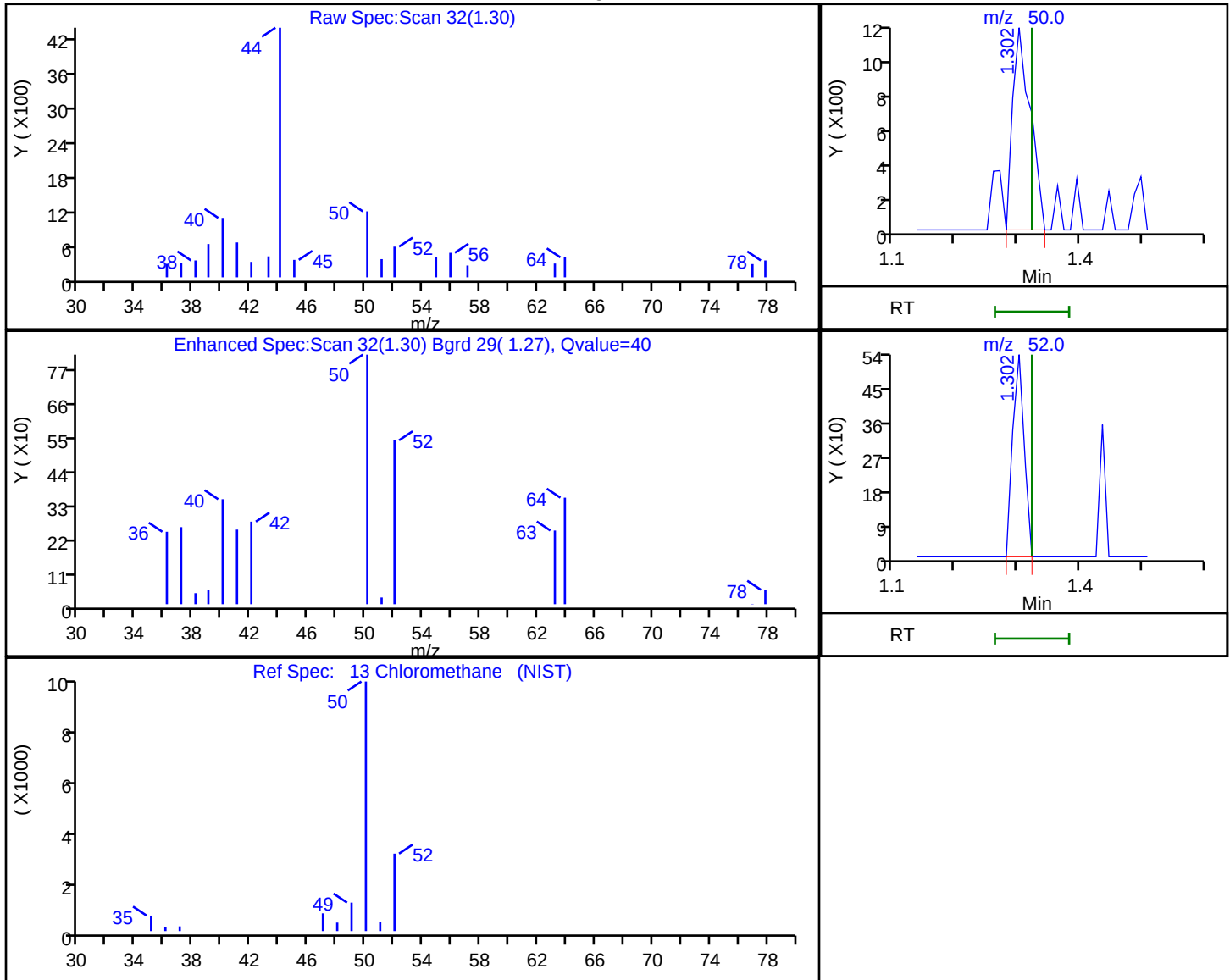
Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Processing Results



RT	Mass	Response	Amount
1.30	50.00	2278	0.183826
1.30	52.00	688	

Reviewer: lapointec, 19-Sep-2020 10:35:09

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-175175-8
 Matrix: Water Lab File ID: T6890.D
 Analysis Method: 8260C Date Collected: 09/15/2020 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 14:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550111 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: TRIP BLANK Lab Sample ID: 480-175175-8
 Matrix: Water Lab File ID: T6890.D
 Analysis Method: 8260C Date Collected: 09/15/2020 00:00
 Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 14:26
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550111 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	99		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	97		73-120
1868-53-7	Dibromofluoromethane (Surr)	100		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: TRIP BLANK Lab Sample ID: 480-175175-8
Matrix: Water Lab File ID: T6890.D
Analysis Method: 8260C Date Collected: 09/15/2020 00:00
Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 14:26
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550111 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6890.D
 Lims ID: 480-175175-A-8
 Client ID: TRIP BLANK
 Sample Type: Client
 Inject. Date: 18-Sep-2020 14:26:30 ALS Bottle#: 16 Worklist Smp#: 20
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-175175-a-8
 Misc. Info.: 480-0093526-020
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 19-Sep-2020 10:36:06 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1053

First Level Reviewer: lapointec

Date: 19-Sep-2020 10:49:03

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.701	4.711	-0.010	98	161460	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	562530	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	314624	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.236	0.000	92	190029	25.1	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.483	4.493	-0.010	0	258723	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	737308	24.8	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	218563	24.3	
11 Dichlorodifluoromethane	85		1.167				ND	
13 Chloromethane	50		1.323				ND	
14 Vinyl chloride	62		1.405				ND	
15 Bromomethane	94		1.654				ND	
16 Chloroethane	64		1.727				ND	
17 Trichlorofluoromethane	101		1.934				ND	
22 1,1-Dichloroethene	96		2.369				ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.369				ND	
23 Acetone	43	2.473	2.483	-0.010	69	5207	1.49	
25 Carbon disulfide	76		2.545				ND	
28 Methyl acetate	43		2.742				ND	
30 Methylene Chloride	84		2.836				ND	7
33 Methyl tert-butyl ether	73		3.022				ND	
32 trans-1,2-Dichloroethene	96		3.032				ND	
36 1,1-Dichloroethane	63		3.395				ND	
43 cis-1,2-Dichloroethene	96		3.862				ND	
44 2-Butanone (MEK)	43		3.882				ND	
50 Chloroform	83	4.120	4.110	-0.001	93	2896	0.1838	
51 1,1,1-Trichloroethane	97		4.214				ND	
52 Cyclohexane	56		4.214				ND	
53 Carbon tetrachloride	117		4.328				ND	
55 Benzene	78		4.494				ND	
57 1,2-Dichloroethane	62		4.545				ND	
60 Trichloroethene	95		4.981				ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83		5.074				ND	
63 1,2-Dichloropropane	63		5.167				ND	
67 Dichlorobromomethane	83		5.395				ND	
71 cis-1,3-Dichloropropene	75		5.706				ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820				ND	
73 Toluene	92		5.934				ND	
75 trans-1,3-Dichloropropene	75		6.141				ND	
78 1,1,2-Trichloroethane	83		6.286				ND	
79 Tetrachloroethene	166		6.328				ND	
81 2-Hexanone	43		6.452				ND	
82 Chlorodibromomethane	129		6.587				ND	
83 Ethylene Dibromide	107		6.670				ND	
86 Chlorobenzene	112		7.022				ND	
88 Ethylbenzene	91		7.084				ND	
90 m-Xylene & p-Xylene	106		7.178				ND	
91 o-Xylene	106		7.489				ND	
92 Styrene	104		7.520				ND	
93 Bromoform	173		7.706				ND	
95 Isopropylbenzene	105		7.779				ND	
98 1,1,2,2-Tetrachloroethane	83		8.090				ND	
110 1,3-Dichlorobenzene	146		8.805				ND	
113 1,4-Dichlorobenzene	146		8.877				ND	
116 1,2-Dichlorobenzene	146		9.188				ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862				ND	
119 1,2,4-Trichlorobenzene	180		10.504				ND	
S 126 Xylenes, Total	1		30.000				ND	7

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6890.D

Injection Date: 18-Sep-2020 14:26:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-A-8

Lab Sample ID: 480-175175-8

Worklist Smp#: 20

Client ID: TRIP BLANK

Purge Vol: 5.000 mL

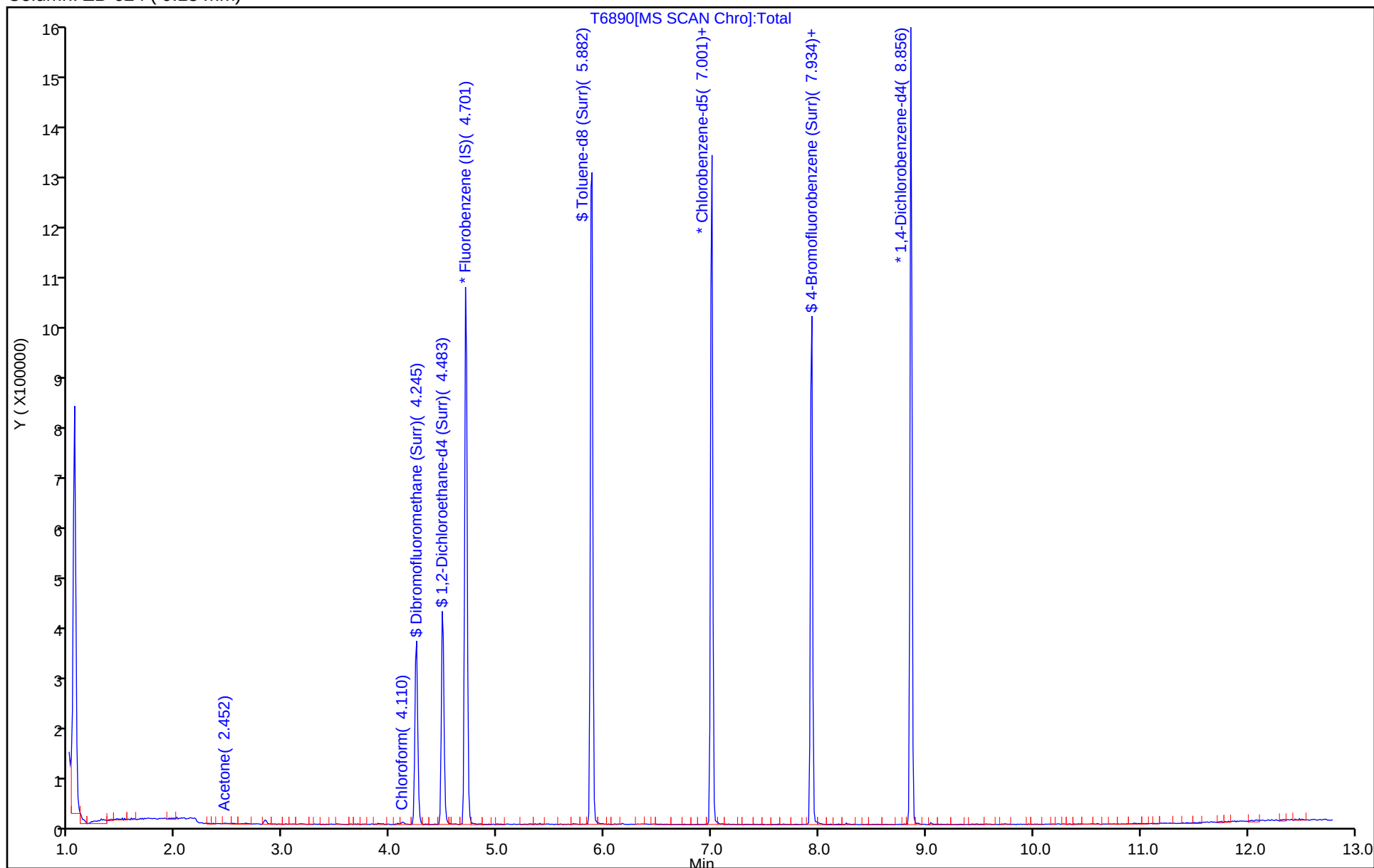
Dil. Factor: 1.0000

ALS Bottle#: 16

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-549730/6	T6845.D
Level 2	IC 480-549730/7	T6846.D
Level 3	IC 480-549730/8	T6847.D
Level 4	IC 480-549730/9	T6848.D
Level 5	IC 480-549730/10	T6849.D
Level 6	ICIS 480-549730/11	T6850.D
Level 7	IC 480-549730/12	T6851.D
Level 8	IC 480-549730/13	T6852.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Dichlorodifluoromethane	1.6921 1.8121	1.9890 1.8823	1.6489 1.8359	1.8308	1.8959	Ave		1.8234			0.1000	6.0		20.0			
Chloromethane	2.0776 1.8236	1.6784 1.8854	1.7526 1.8030	1.8737	1.9093	Ave		1.8505			0.1000	6.4		20.0			
Butadiene	++++ 1.5970	1.8815 1.6611	1.6808 1.6357	1.7762	1.5607	Ave		1.6847				6.6		20.0			
Vinyl chloride	1.8120 1.7788	1.9181 1.8331	1.6646 1.7759	1.7576	1.7180	Ave		1.7823			0.1000	4.3		20.0			
Bromomethane	1.2925 1.1329	1.2819 1.1661	1.0562 1.1441	1.1103	1.1538	Ave		1.1672			0.1000	7.0		20.0			
Chloroethane	++++ 1.0623	1.2957 1.0802	1.0341 1.0448	1.0666	1.0669	Ave		1.0929			0.1000	8.3		20.0			
Dichlorofluoromethane	3.1768 2.5160	2.5578 2.5304	2.3894 2.4748	2.5761	2.4438	Ave		2.5831				9.6		20.0			
Trichlorofluoromethane	1.9183 2.2067	2.4912 2.3610	2.1370 2.2588	2.3224	2.2081	Ave		2.2379			0.1000	7.6		20.0			
Ethyl ether	1.3709 1.2720	1.3167 1.3122	1.2934 1.2710	1.2738	1.2994	Ave		1.3012				2.6		20.0			
Acrolein	++++ 0.1781	0.1823 0.1906	0.1677 0.1848	0.1722	0.1854	Ave		0.1802				4.5		20.0			
1,1-Dichloroethene	1.1273 1.1258	0.9331 1.2567	1.0318 1.2179	1.0248	1.1148	Ave		1.1040			0.1000	9.6		20.0			
1,1,2-Trichloro-1,2,2-trifluoroethane	0.8690 1.2308	1.0709 1.3679	1.0527 1.3280	1.0959	1.1918	Ave		1.1509			0.1000	14.1		20.0			
Acetone	0.6870 0.5065	0.6088 0.5295	0.4552 0.5091	0.5224	0.5085	Ave		0.5409			0.1000	13.4		20.0			
Iodomethane	1.6899 2.0847	1.9762 2.2551	1.9461 2.1843	1.9692	2.1084	Ave		2.0267				8.6		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730
SDG No.: _____
Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
Carbon disulfide	3.5410 4.0877	3.5000 4.5073	3.6234 4.3591	3.5718	4.0639	Ave		3.9068			0.1000	10.2		20.0			
Allyl chloride	2.1795 2.0476	2.0491 2.2714	1.7457 2.1712	1.9109	1.9953	Ave		2.0463				8.2		20.0			
Methyl acetate	1.3692 1.3096	1.3256 1.3219	1.2628 1.3038	1.3676	1.2927	Ave		1.3192			0.1000	2.7		20.0			
Methylene Chloride	4.1896 1.4396	2.6712 1.4697	1.8171 1.4395	1.5689	1.4804	Lin1	1.0710	1.4245			0.1000				1.0000		0.9900
2-Methyl-2-propanol	0.1473 0.1776	0.1530 0.1973	0.1516 0.2069	0.1881	0.1757	Ave		0.1747				12.8		20.0			
Methyl tert-butyl ether	4.5231 4.4501	4.3161 4.6413	3.8872 4.4688	4.3090	4.3955	Ave		4.3739			0.1000	5.1		20.0			
trans-1,2-Dichloroethene	1.2542 1.3476	1.2770 1.4230	1.2080 1.4001	1.2563	1.3307	Ave		1.3121			0.1000	5.8		20.0			
Acrylonitrile	0.6078 0.6343	0.6704 0.6731	0.5984 0.6223	0.6345	0.6489	Ave		0.6362				4.3		20.0			
Hexane	1.9815 2.0462	2.0035 2.2630	1.9094 2.1761	1.8381	2.0564	Ave		2.0343				6.7		20.0			
1,1-Dichloroethane	2.3208 2.4462	2.3004 2.5661	2.0882 2.5069	2.2216	2.3704	Ave		2.3526			0.2000	6.6		20.0			
Vinyl acetate	3.0834 3.3232	2.8742 3.5064	2.8514 3.4786	3.0595	3.0929	Ave		3.1587				8.0		20.0			
2,2-Dichloropropane	1.8623 2.0144	1.7551 2.1928	1.6801 2.1608	1.8261	1.9891	Ave		1.9351				9.6		20.0			
cis-1,2-Dichloroethene	1.4547 1.5003	1.4965 1.5856	1.3623 1.5359	1.3737	1.5013	Ave		1.4763			0.1000	5.2		20.0			
2-Butanone (MEK)	0.7905 0.8178	0.8429 0.8454	0.7614 0.8236	0.7893	0.8074	Ave		0.8098			0.1000	3.5		20.0			
Chlorobromomethane	0.7964 0.7601	0.7402 0.7882	0.6136 0.7873	0.7209	0.7768	Ave		0.7479				8.0		20.0			
Tetrahydrofuran	1.1111 0.5611	0.8339 0.5643	0.6811 0.5505	0.6100	0.5579	Lin1	0.4849	0.5513							1.0000		0.9900
Chloroform	++++ 2.3968	2.6239 2.5752	2.3458 2.5061	2.2226	2.4069	Ave		2.4396			0.2000	5.7		20.0			
1,1,1-Trichloroethane	1.9273 2.0930	1.8473 2.3205	1.7690 2.2670	1.7830	1.9973	Ave		2.0006			0.1000	10.5		20.0			
Cyclohexane	2.0148 2.4382	2.0209 2.7068	2.1200 2.5849	2.1127	2.3403	Ave		2.2923			0.1000	11.6		20.0			
Carbon tetrachloride	++++ 1.6241	1.1715 1.8771	1.2973 1.8638	1.3496	1.5495	Ave		1.5333			0.1000	18.0		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730
SDG No.: _____
Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,1-Dichloropropene	1.3926 1.8391	1.5155 2.0186	1.5963 1.9641	1.6355	1.7983	Ave		1.7200				12.8		20.0			
Benzene	4.9104 5.2199	4.9626 5.6048	4.7675 5.3790	4.9902	5.2229	Ave		5.1322			0.5000	5.4		20.0			
Isobutyl alcohol	0.0625 0.0655	0.0524 0.0735	0.0604 0.0715	0.0641	0.0605	Ave		0.0638				10.4		20.0			
1,2-Dichloroethane	2.4610 2.2044	2.1845 2.2531	1.9939 2.1673	2.1366	2.1663	Ave		2.1959			0.1000	6.0		20.0			
n-Heptane	2.9979 2.2172	2.3804 2.4079	2.0938 2.2741	2.1367	2.2115	Ave		2.3399				12.3		20.0			
Trichloroethene	1.3084 1.3958	1.3218 1.5119	1.2560 1.4566	1.2344	1.3870	Ave		1.3590			0.2000	7.1		20.0			
Methylcyclohexane	1.9226 2.4436	1.8799 2.6685	1.9893 2.5937	2.0967	2.3954	Ave		2.2487			0.1000	13.9		20.0			
1,2-Dichloropropane	1.3253 1.4063	1.3141 1.4802	1.1995 1.4318	1.3414	1.3744	Ave		1.3591			0.1000	6.3		20.0			
1,4-Dioxane	++++ 0.0032	0.0024 0.0037	0.0023 0.0038	0.0032	0.0034	Ave		0.0031				18.7		20.0			
Dibromomethane	0.9174 0.9503	0.8858 0.9944	0.8831 0.9494	0.8979	0.9123	Ave		0.9238			0.1000	4.1		20.0			
Bromodichloromethane	1.5971 1.6773	1.3869 1.8264	1.3410 1.8755	1.4424	1.5341	Ave		1.5851			0.2000	12.5		20.0			
2-Chloroethyl vinyl ether	++++ 1.0869	0.9690 1.1364	1.0312 1.1476	1.0266	1.0567	Ave		1.0649				6.0		20.0			
cis-1,3-Dichloropropene	1.9349 2.2405	2.0084 2.3880	1.7820 2.3867	2.1148	2.1018	Ave		2.1196			0.2000	10.1		20.0			
4-Methyl-2-pentanone (MIBK)	0.4607 0.5120	0.4650 0.5331	0.4514 0.5083	0.5020	0.5100	Ave		0.4928			0.1000	6.0		20.0			
Toluene	0.8618 0.9846	0.9155 1.0377	0.8707 1.0030	0.9028	0.9664	Ave		0.9428			0.4000	6.8		20.0			
trans-1,3-Dichloropropene	0.5783 0.6126	0.5257 0.6552	0.5248 0.6642	0.5696	0.5750	Ave		0.5882			0.1000	9.0		20.0			
Ethyl methacrylate	0.5404 0.5926	0.5043 0.6171	0.5009 0.6148	0.5299	0.5736	Ave		0.5592				8.4		20.0			
1,1,2-Trichloroethane	0.3375 0.3165	0.3157 0.3257	0.2885 0.3219	0.3027	0.3057	Ave		0.3143			0.1000	4.8		20.0			
Tetrachloroethene	0.3219 0.4112	0.3745 0.4422	0.3641 0.4292	0.3624	0.4010	Ave		0.3883			0.2000	10.3		20.0			
1,3-Dichloropropane	0.6377 0.6591	0.6498 0.6771	0.6066 0.6548	0.6272	0.6355	Ave		0.6435				3.4		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730
SDG No.: _____
Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
2-Hexanone	0.2934 0.3720	0.3197 0.3850	0.3099 0.3724	0.3554	0.3616	Ave		0.3462			0.1000	9.8		20.0			
Dibromochloromethane	++++ 0.3381	0.2816 0.3773	0.2378 0.3975	0.2804	0.3094	Ave		0.3174			0.1000	18.0		20.0			
1,2-Dibromoethane	0.3605 0.3884	0.3323 0.4082	0.3663 0.4007	0.3588	0.3893	Ave		0.3756				6.8		20.0			
Chlorobenzene	0.9905 1.0558	0.9675 1.1200	0.9624 1.0810	1.0090	1.0435	Ave		1.0287			0.5000	5.5		20.0			
Ethylbenzene	1.6892 1.8586	1.6588 1.9853	1.7006 1.9089	1.6950	1.8651	Ave		1.7952			0.1000	6.9		20.0			
1,1,1,2-Tetrachloroethane	0.3210 0.3443	0.3054 0.3767	0.2796 0.3847	0.3007	0.3241	Ave		0.3296				11.2		20.0			
m,p-Xylene	0.6088 0.7090	0.6113 0.7479	0.6068 0.7323	0.6717	0.7094	Ave		0.6746			0.1000	8.7		20.0			
o-Xylene	0.5696 0.6929	0.6257 0.7233	0.6002 0.7157	0.6355	0.6762	Ave		0.6549			0.3000	8.5		20.0			
Styrene	1.0245 1.1840	1.0351 1.2566	1.0095 1.2353	1.1250	1.1465	Ave		1.1271			0.3000	8.5		20.0			
Bromoform	0.1611 0.2117	0.1513 0.2419	0.1606 ++++	0.1632	0.1817	Ave		0.1816			0.1000	18.3		20.0			
Isopropylbenzene	2.9010 3.2272	2.8323 3.4491	2.7733 3.3461	3.0408	3.2647	Ave		3.1043			0.1000	8.1		20.0			
Bromobenzene	0.7881 0.8044	0.7216 0.8351	0.7543 0.8149	0.8045	0.8049	Ave		0.7910				4.6		20.0			
1,1,2,2-Tetrachloroethane	0.9683 1.0010	0.9009 1.0071	0.8812 1.0095	0.9012	0.9865	Ave		0.9570			0.3000	5.6		20.0			
N-Propylbenzene	3.4085 4.0473	3.5090 4.2537	3.4334 4.1412	3.6746	4.0160	Ave		3.8105				9.0		20.0			
1,2,3-Trichloropropane	0.2311 0.3145	0.2848 0.3244	0.2787 0.3197	0.3023	0.3190	Ave		0.2968				10.6		20.0			
trans-1,4-Dichloro-2-butene	0.2351 0.3236	0.2493 0.3440	0.2297 0.3500	0.2719	0.2887	Ave		0.2865				16.8		20.0			
2-Chlorotoluene	0.7182 0.7709	0.7185 0.7778	0.6530 0.7826	0.7081	0.7614	Ave		0.7363				6.1		20.0			
1,3,5-Trimethylbenzene	2.5135 2.7948	2.5248 2.9657	2.3976 2.8798	2.6352	2.8343	Ave		2.6932				7.6		20.0			
4-Chlorotoluene	2.6460 2.8033	2.6474 2.9713	2.4804 2.8738	2.6045	2.8621	Ave		2.7361				6.1		20.0			
tert-Butylbenzene	0.4792 0.5923	0.4682 0.6267	0.5300 0.6187	0.5498	0.5689	Ave		0.5542				10.7		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730
SDG No.: _____
Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N
Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5		B	M1	M2								
1,2,4-Trimethylbenzene	2.3342 2.8811	2.6423 3.0364	2.5097 2.9580	2.6833	2.9176	Ave		2.7453				8.9		20.0			
sec-Butylbenzene	2.9249 3.6040	3.0263 3.8239	3.0514 3.7112	3.3297	3.5715	Ave		3.3804				10.2		20.0			
4-Isopropyltoluene	2.6275 3.1089	2.6804 3.3407	2.7124 3.2070	2.8580	3.0684	Ave		2.9504				9.1		20.0			
1,3-Dichlorobenzene	1.4471 1.5962	1.4387 1.6321	1.4244 1.5987	1.5348	1.6087	Ave		1.5351			0.6000	5.6		20.0			
1,4-Dichlorobenzene	1.6482 1.6176	1.5653 1.6708	1.5472 1.6341	1.5965	1.6516	Ave		1.6164			0.5000	2.7		20.0			
n-Butylbenzene	2.4557 2.9549	2.3877 3.1454	2.4200 3.0826	2.7177	3.0198	Ave		2.7729				11.4		20.0			
1,2-Dichlorobenzene	1.3767 1.5963	1.4818 1.6584	1.4354 1.5993	1.5358	1.5729	Ave		1.5321			0.4000	6.2		20.0			
1,2-Dibromo-3-Chloropropane	0.1418 0.1791	0.1369 0.1981	0.1211 0.2086	0.1416	0.1567	Ave		0.1605			0.0500	19.6		20.0			
1,2,4-Trichlorobenzene	1.0058 1.2327	1.0514 1.2531	1.0106 1.2226	1.1915	1.2106	Ave		1.1473			0.2000	9.2		20.0			
Hexachlorobutadiene	0.5101 0.5714	0.4765 0.6117	0.4725 0.6075	0.5236	0.5640	Ave		0.5422				10.1		20.0			
Naphthalene	2.8317 3.4903	3.1496 3.5466	3.0131 3.4997	3.3696	3.4399	Ave		3.2926				8.0		20.0			
1,2,3-Trichlorobenzene	1.0575 1.2015	1.1387 1.2265	1.0877 1.2111	1.1968	1.1920	Ave		1.1640				5.4		20.0			
Dibromofluoromethane (Surr)	1.1725 1.2124	1.1488 1.2096	1.1470 1.1843	1.1594	1.1535	Ave		1.1734				2.2		20.0			
1,2-Dichloroethane-d4 (Surr)	1.6047 1.6053	1.6134 1.5964	1.5791 1.6115	1.6211	1.6035	Ave		1.6044				0.8		20.0			
Toluene-d8 (Surr)	1.3300 1.3391	1.3171 1.3283	1.3135 1.2997	1.3200	1.3082	Ave		1.3195				1.0		20.0			
4-Bromofluorobenzene (Surr)	0.3993 0.4011	0.3988 0.4042	0.4058 0.4008	0.3963	0.3968	Ave		0.4004				0.8		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-549730/6	T6845.D
Level 2	IC 480-549730/7	T6846.D
Level 3	IC 480-549730/8	T6847.D
Level 4	IC 480-549730/9	T6848.D
Level 5	IC 480-549730/10	T6849.D
Level 6	ICIS 480-549730/11	T6850.D
Level 7	IC 480-549730/12	T6851.D
Level 8	IC 480-549730/13	T6852.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Dichlorodifluoromethane	FB	Ave	4683 312012	13699 638530	23058 1260368	63320	132729	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloromethane	FB	Ave	5750 313997	11560 639565	24509 1237843	64804	133664	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Butadiene	FB	Ave	++++ 274979	12959 563490	23504 1122983	61431	109259	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl chloride	FB	Ave	5015 306278	13211 621815	23278 1219181	60789	120271	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromomethane	FB	Ave	3577 195069	8829 395561	14770 785477	38401	80771	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Chloroethane	FB	Ave	++++ 182916	8924 366411	14461 717301	36889	74689	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
Dichlorofluoromethane	FB	Ave	8792 433207	17617 858353	33413 1699042	89097	171082	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichlorofluoromethane	FB	Ave	5309 379963	17158 800884	29884 1550741	80323	154584	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl ether	FB	Ave	3794 219018	9069 445135	18087 872586	44054	90967	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrolein	FB	Ave	++++ 153289	6278 323196	11723 634496	29785	64907	++++ 125	5.00 250	10.0 500	25.0	50.0
1,1-Dichloroethene	FB	Ave	3120 193846	6427 426287	14428 836090	35444	78045	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloro-1,2,2-trifluoroethane	FB	Ave	2405 211931	7376 464018	14721 911724	37903	83434	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acetone	FB	Ave	9506 436065	20966 898045	31831 1747569	90343	177991	2.00 125	5.00 250	10.0 500	25.0	50.0
Iodomethane	FB	Ave	4677 358953	13611 764967	27214 1499613	68106	147601	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon disulfide	FB	Ave	9800 703833	24106 1528975	50670 2992677	123534	284501	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Allyl chloride	FB	Ave	6032 352561	14113 770499	24412 1490560	66089	139684	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methyl acetate	FB	Ave	7579 450994	18260 896845	35317 1790173	94601	181002	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Methylene Chloride	FB	Lin1	11595 247878	18398 498552	25410 988281	54260	103640	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Methyl-2-propanol	FB	Ave	4077 305835	10540 669299	21198 1420674	65039	122999	4.00 250	10.0 500	20.0 1000	50.0	100
Methyl tert-butyl ether	FB	Ave	12518 766235	29727 1574434	54358 3067957	149030	307712	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,2-Dichloroethene	FB	Ave	3471 232042	8795 482694	16893 961214	43450	93160	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Acrylonitrile	FB	Ave	16822 1092141	46175 2283417	83687 4272499	219458	454252	4.00 250	10.0 500	20.0 1000	50.0	100
Hexane	FB	Ave	5484 352323	13799 767653	26701 1493944	63573	143962	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloroethane	FB	Ave	6423 421191	15844 870462	29201 1721071	76835	165941	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Vinyl acetate	FB	Ave	17067 1144412	39592 2378849	79749 4776358	211631	433046	0.800 50.0	2.00 100	4.00 200	10.0	20.0
2,2-Dichloropropane	FB	Ave	5154 346852	12088 743851	23494 1483484	63156	139248	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,2-Dichloroethene	FB	Ave	4026 258324	10307 537880	19050 1054444	47509	105100	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Butanone (MEK)	FB	Ave	10939 704074	29029 1433844	53237 2827170	136499	282605	2.00 125	5.00 250	10.0 500	25.0	50.0
Chlorobromomethane	FB	Ave	2204 130876	5098 267387	8581 540510	24932	54384	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrahydrofuran	FB	Lin1	6150 193239	11487 382876	19048 755803	42193	78113	0.800 50.0	2.00 100	4.00 200	10.0	20.0
Chloroform	FB	Ave	++++ 412683	18072 873557	32803 1720505	76869	168500	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1-Trichloroethane	FB	Ave	5334 360385	12723 787168	24738 1556360	61666	139827	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Cyclohexane	FB	Ave	5576 419820	13919 918197	29646 1774600	73068	163836	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Carbon tetrachloride	FB	Ave	++++ 279641	8069 636737	18142 1279553	46675	108477	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1-Dichloropropene	FB	Ave	3854 316671	10438 684736	22323 1348398	56566	125892	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Benzene	FB	Ave	13590 898778	34180 1901275	66669 3692828	172589	365636	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Isobutyl alcohol	FB	Ave	4324 281788	9020 623242	21102 1226926	55448	105935	10.0 625	25.0 1250	50.0 2500	125	250
1,2-Dichloroethane	FB	Ave	6811 379569	15046 764302	27883 1487924	73896	151657	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Heptane	FB	Ave	8297 381763	16395 816805	29279 1561224	73899	154822	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Trichloroethene	FB	Ave	3621 240331	9104 512860	17564 999968	42691	97097	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Methylcyclohexane	FB	Ave	5321 420754	12948 905203	27818 1780665	72514	167697	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichloropropane	FB	Ave	3668 242147	9051 502117	16774 982958	46394	96218	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,4-Dioxane	CBNZ d5	Ave	++++ 38936	1150 88733	2220 181422	7697	16583	++++ 500	20.0 1000	40.0 2000	100	200
Dibromomethane	FB	Ave	2539 163625	6101 337332	12349 651788	31056	63869	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromodichloromethane	FB	Ave	4420 288805	9552 619549	18752 1287582	49887	107396	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chloroethyl vinyl ether	FB	Ave	++++ 187151	6674 385477	14420 787878	35506	73973	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
cis-1,3-Dichloropropene	FB	Ave	5355 385770	13833 810066	24920 1638534	73143	147139	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Methyl-2-pentanone (MIBK)	CBNZ d5	Ave	22187 1541772	56249 3176877	108319 6144719	303140	620878	2.00 125	5.00 250	10.0 500	25.0	50.0
Toluene	CBNZ d5	Ave	8300 593026	22151 1236747	41786 2425056	109034	235308	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,3-Dichloropropene	CBNZ d5	Ave	5570 368943	12719 780943	25185 1605757	68789	140003	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethyl methacrylate	CBNZ d5	Ave	5205 356889	12202 735491	24036 1486353	64002	139678	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2-Trichloroethane	CBNZ d5	Ave	3251 190631	7638 388218	13843 778248	36553	74435	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Tetrachloroethene	CBNZ d5	Ave	3100 247660	9061 527089	17475 1037678	43772	97640	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichloropropane	CBNZ d5	Ave	6142 396948	15722 806999	29112 1583146	75743	154734	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Hexanone	CBNZ d5	Ave	14127 1120361	38678 2294293	74351 4501688	214625	440232	2.00 125	5.00 250	10.0 500	25.0	50.0
Dibromochloromethane	CBNZ d5	Ave	++++ 203606	6814 449710	11410 961045	33864	75333	++++ 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromoethane	CBNZ d5	Ave	3472 233956	8039 486528	17576 968860	43336	94801	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
Chlorobenzene	CBNZ d5	Ave	9540 635905	23409 1334921	46183 2613535	121860	254079	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Ethylbenzene	CBNZ d5	Ave	16269 1119402	40133 2366179	81607 4615188	204709	454137	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,1,2-Tetrachloroethane	CBNZ d5	Ave	3092 207354	7389 449004	13417 930042	36315	78927	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
m,p-Xylene	CBNZ d5	Ave	5864 426999	14790 891351	29121 1770416	81119	172739	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
o-Xylene	CBNZ d5	Ave	5486 417327	15138 862011	28803 1730332	76753	164658	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Styrene	CBNZ d5	Ave	9867 713136	25045 1497630	48444 2986660	135866	279168	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromoform	CBNZ d5	Ave	1552 127523	3660 288254	7708 +++++	19706	44242	0.400 25.0	1.00 50.0	2.00 +++++	5.00	10.0
Isopropylbenzene	DCBd 4	Ave	15656 1092399	37884 2328945	74320 4545369	203407	434512	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Bromobenzene	DCBd 4	Ave	4253 272283	9652 563899	20214 1106956	53817	107129	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,1,2,2-Tetrachloroethane	DCBd 4	Ave	5226 338844	12050 680007	23614 1371275	60284	131294	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
N-Propylbenzene	DCBd 4	Ave	18395 1369990	46935 2872239	92007 5625424	245806	534510	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichloropropane	DCBd 4	Ave	1247 106449	3810 219064	7469 434252	20221	42456	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
trans-1,4-Dichloro-2-butene	DCBd 4	Ave	1269 109547	3334 232264	6155 475397	18187	38421	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
2-Chlorotoluene	DCBd 4	Ave	3876 260957	9610 525211	17498 1063101	47367	101336	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3,5-Trimethylbenzene	DCBd 4	Ave	13565 946028	33770 2002499	64251 3911907	176275	377233	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Chlorotoluene	DCBd 4	Ave	14280 948923	35410 2006305	66469 3903875	174222	380927	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
tert-Butylbenzene	DCBd 4	Ave	2586 200485	6262 423164	14203 840468	36775	75716	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trimethylbenzene	DCBd 4	Ave	12597 975251	35342 2050224	67256 4018229	179494	388314	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
sec-Butylbenzene	DCBd 4	Ave	15785 1219956	40478 2581983	81772 5041403	222731	475347	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
4-Isopropyltoluene	DCBd 4	Ave	14180 1052370	35852 2255748	72688 4356417	191183	408392	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,3-Dichlorobenzene	DCBd 4	Ave	7810 540303	19243 1102028	38171 2171651	102668	214115	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549730

SDG No.: _____

Instrument ID: HP5975T GC Column: ZB-624 (20) ID: 0.18 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2020 13:41 Calibration End Date: 09/16/2020 16:31 Calibration ID: 40385

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (UG/L)				
			LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2 LVL 7	LVL 3 LVL 8	LVL 4	LVL 5
1,4-Dichlorobenzene	DCBd 4	Ave	8895 547540	20936 1128147	41461 2219778	106797	219820	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
n-Butylbenzene	DCBd 4	Ave	13253 1000210	31932 2123876	64850 4187469	181795	401924	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dichlorobenzene	DCBd 4	Ave	7430 540351	19820 1119775	38466 2172549	102731	209351	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2-Dibromo-3-Chloropropane	DCBd 4	Ave	765 60624	1831 133735	3244 283399	9470	20856	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,4-Trichlorobenzene	DCBd 4	Ave	5428 417265	14063 846132	27082 1660771	79705	161125	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Hexachlorobutadiene	DCBd 4	Ave	2753 193425	6374 413067	12661 825187	35028	75064	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Naphthalene	DCBd 4	Ave	15282 1181472	42128 2394740	80745 4754033	225401	457834	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
1,2,3-Trichlorobenzene	DCBd 4	Ave	5707 406711	15231 828140	29147 1645244	80055	158656	0.400 25.0	1.00 50.0	2.00 100	5.00	10.0
Dibromofluoromethane (Surr)	FB	Ave	202811 208754	197806 205155	200499 203256	200501	201884	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
1,2-Dichloroethane-d4 (Surr)	FB	Ave	277574 276409	277813 270765	276024 276584	280342	280647	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
Toluene-d8 (Surr)	CBNZ d5	Ave	800593 806510	796658 791573	787910 785595	797085	796322	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0
4-Bromofluorobenzene (Surr)	CBNZ d5	Ave	240392 241570	241235 240876	243413 242241	239306	241518	25.0 25.0	25.0 25.0	25.0 25.0	25.0	25.0

Curve Type Legend:

Ave = Average ISTD
Lin1 = Linear 1/conc ISTD

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D
 Lims ID: IC 0.4
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Sep-2020 13:41:30 ALS Bottle#: 38 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 0.4
 Misc. Info.: 480-0093466-006
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:25:21 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 11:43:21

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	99	172974	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.001	0.001	89	601965	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	337301	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	92	202811	25.0	25.0	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	277574	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	800593	25.0	25.2	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	240392	25.0	24.9	
11 Dichlorodifluoromethane	85	1.157	1.167	-0.010	96	4683	0.4000	0.3712	
13 Chloromethane	50	1.302	1.322	-0.020	97	5750	0.4000	0.4491	
151 Butadiene	54	1.385	1.395	-0.010	79	2994	0.4000	0.2569	M
14 Vinyl chloride	62	1.395	1.405	-0.010	94	5015	0.4000	0.4067	
15 Bromomethane	94	1.654	1.654	0.000	74	3577	0.4000	0.4429	M
16 Chloroethane	64	1.716	1.716	0.000	18	4540	0.4000	0.6004	
18 Dichlorofluoromethane	67	1.913	1.923	-0.010	92	8792	0.4000	0.4919	M
17 Trichlorofluoromethane	101	1.924	1.934	-0.010	58	5309	0.4000	0.3429	M
19 Ethyl ether	59	2.162	2.162	0.000	87	3794	0.4000	0.4214	
21 Acrolein	56	2.328	2.338	-0.010	23	2643	2.00	2.12	M
22 1,1-Dichloroethene	96	2.359	2.369	-0.010	93	3120	0.4000	0.4084	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.379	-0.010	61	2405	0.4000	0.3020	
23 Acetone	43	2.483	2.483	0.000	100	9506	2.00	2.54	
24 Iodomethane	142	2.514	2.514	0.000	98	4677	0.4000	0.3335	
25 Carbon disulfide	76	2.545	2.545	0.000	98	9800	0.4000	0.3625	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	84	6032	0.4000	0.4260	
28 Methyl acetate	43	2.742	2.742	0.000	98	7579	0.8000	0.8304	Ma
30 Methylene Chloride	84	2.836	2.835	0.001	97	11595	0.4000	0.4246	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	42	4077	4.00	3.37	
33 Methyl tert-butyl ether	73	3.012	3.022	-0.010	96	12518	0.4000	0.4136	
32 trans-1,2-Dichloroethene	96	3.022	3.032	-0.010	97	3471	0.4000	0.3823	
34 Acrylonitrile	53	3.084	3.084	0.000	96	16822	4.00	3.82	M
35 Hexane	57	3.188	3.198	-0.010	89	5484	0.4000	0.3896	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.395	3.395	0.000	95	6423	0.4000	0.3946	
39 Vinyl acetate	43	3.437	3.436	0.001	98	17067	0.8000	0.7809	M
42 2,2-Dichloropropane	77	3.841	3.841	0.000	62	5154	0.4000	0.3850	
43 cis-1,2-Dichloroethene	96	3.861	3.861	0.000	86	4026	0.4000	0.3942	
44 2-Butanone (MEK)	43	3.893	3.882	0.011	97	10939	2.00	1.95	
47 Chlorobromomethane	128	4.048	4.058	-0.010	90	2204	0.4000	0.4259	
48 Tetrahydrofuran	42	4.069	4.058	0.011	82	6150	0.8000	0.7328	
50 Chloroform	83	4.110	4.120	-0.010	94	9576	0.4000	0.5673	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	89	5334	0.4000	0.3854	
52 Cyclohexane	56	4.214	4.214	0.000	84	5576	0.4000	0.3516	
53 Carbon tetrachloride	117	4.317	4.317	0.000	66	3034	0.4000	0.2860	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	90	3854	0.4000	0.3238	
55 Benzene	78	4.494	4.494	0.000	43	13590	0.4000	0.3827	
56 Isobutyl alcohol	43	4.514	4.514	0.000	47	4324	10.0	9.80	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	94	6811	0.4000	0.4483	
59 n-Heptane	43	4.628	4.628	0.000	87	8297	0.4000	0.5125	
60 Trichloroethene	95	4.981	4.981	0.000	93	3621	0.4000	0.3851	
62 Methylcyclohexane	83	5.064	5.074	-0.010	85	5321	0.4000	0.3420	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	86	3668	0.4000	0.3901	
66 1,4-Dioxane	88		5.281				ND	ND	
65 Dibromomethane	93	5.281	5.281	0.000	91	2539	0.4000	0.3972	
67 Dichlorobromomethane	83	5.395	5.395	0.000	96	4420	0.4000	0.4030	
69 2-Chloroethyl vinyl ether	63	5.602	5.602	0.000	81	1908	0.4000	0.2590	
71 cis-1,3-Dichloropropene	75	5.716	5.716	0.000	90	5355	0.4000	0.3651	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	95	22187	2.00	1.87	
73 Toluene	92	5.924	5.934	-0.010	96	8300	0.4000	0.3656	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	90	5570	0.4000	0.3933	
77 Ethyl methacrylate	69	6.172	6.172	0.000	0	5205	0.4000	0.3866	M
78 1,1,2-Trichloroethane	83	6.286	6.286	0.000	85	3251	0.4000	0.4296	
79 Tetrachloroethene	166	6.328	6.328	0.000	84	3100	0.4000	0.3315	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	92	6142	0.4000	0.3964	a
81 2-Hexanone	43	6.463	6.452	0.011	97	14127	2.00	1.69	M
82 Chlorodibromomethane	129	6.587	6.587	0.000	0	2702	0.4000	0.3535	M
83 Ethylene Dibromide	107	6.670	6.670	0.000	93	3472	0.4000	0.3839	
86 Chlorobenzene	112	7.022	7.022	0.000	95	9540	0.4000	0.3851	
88 Ethylbenzene	91	7.084	7.084	0.000	98	16269	0.4000	0.3764	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	0	3092	0.4000	0.3896	M
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	5864	0.4000	0.3610	a
91 o-Xylene	106	7.489	7.488	0.001	96	5486	0.4000	0.3479	
92 Styrene	104	7.520	7.520	0.000	94	9867	0.4000	0.3636	
93 Bromoform	173	7.706	7.706	0.000	0	1552	0.4000	0.3549	M
95 Isopropylbenzene	105	7.779	7.779	0.000	96	15656	0.4000	0.3738	
97 Bromobenzene	156	8.048	8.048	0.000	93	4253	0.4000	0.3985	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.089	0.001	92	5226	0.4000	0.4048	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	18395	0.4000	0.3578	a
101 trans-1,4-Dichloro-2-butene	53	8.131	8.121	0.010	66	1269	0.4000	0.3283	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	0	1247	0.4000	0.3114	M
105 2-Chlorotoluene	126	8.193	8.193	0.000	97	3876	0.4000	0.3902	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	93	13565	0.4000	0.3733	
102 4-Chlorotoluene	91	8.287	8.286	0.001	97	14280	0.4000	0.3868	
106 tert-Butylbenzene	134	8.504	8.504	0.000	92	2586	0.4000	0.3458	
107 1,2,4-Trimethylbenzene	105	8.556	8.556	0.000	96	12597	0.4000	0.3401	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	94	15785	0.4000	0.3461	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	95	14180	0.4000	0.3562	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	96	7810	0.4000	0.3771	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	88	8895	0.4000	0.4079	
115 n-Butylbenzene	91	9.136	9.136	0.000	97	13253	0.4000	0.3542	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	93	7430	0.4000	0.3594	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	0	765	0.4000	0.3533	M
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	93	5428	0.4000	0.3507	a
120 Hexachlorobutadiene	225	10.618	10.608	0.010	92	2753	0.4000	0.3763	
121 Naphthalene	128	10.722	10.711	0.011	97	15282	0.4000	0.3440	
122 1,2,3-Trichlorobenzene	180	10.919	10.908	0.011	95	5707	0.4000	0.3634	
S 125 Total BTEX	1				0			1.83	
S 126 Xylenes, Total	1				0			0.7089	
S 124 1,2-Dichloroethene, Total	1				0			0.7765	
S 123 1,3-Dichloropropene, Total	1				0			0.7584	

QC Flag Legend

Processing Flags

ND - Not Detected or Marked ND

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00193	Amount Added: 0.40	Units: uL	
GAS CORP mix_00418	Amount Added: 0.40	Units: uL	
T_8260_Surr_00210	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00249	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Operator ID: RF

Client ID:

Worklist Smp#: 6

Purge Vol: 5.000 mL

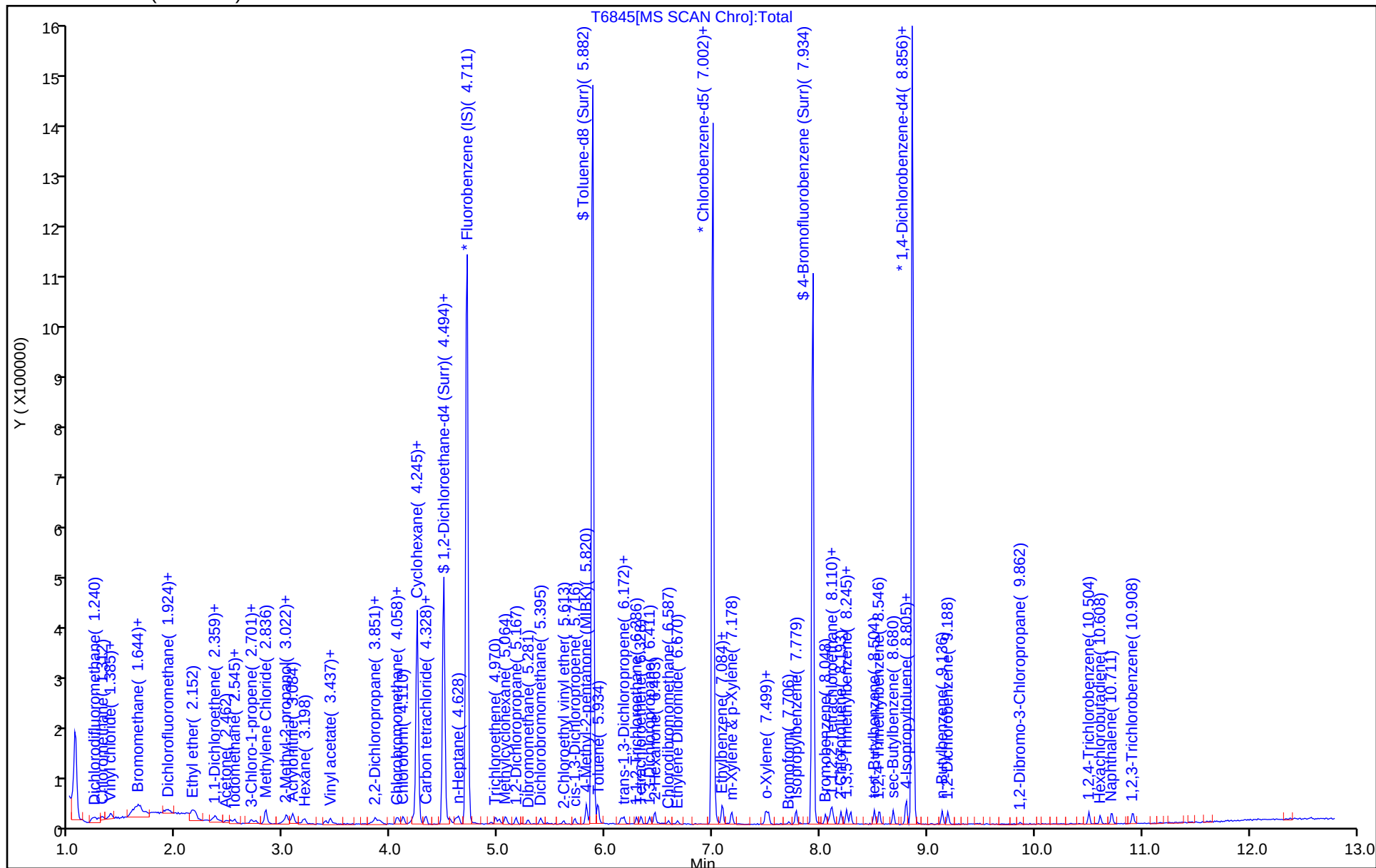
Dil. Factor: 1.0000

ALS Bottle#: 38

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

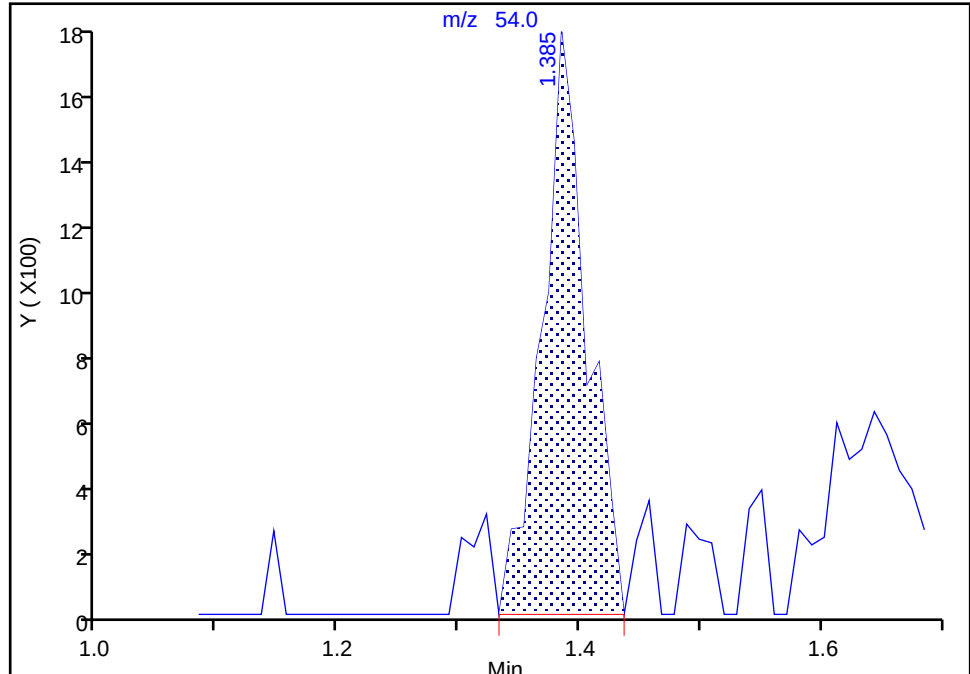
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D
Injection Date: 16-Sep-2020 13:41:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 38 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

151 Butadiene, CAS: 106-99-0

Signal: 1

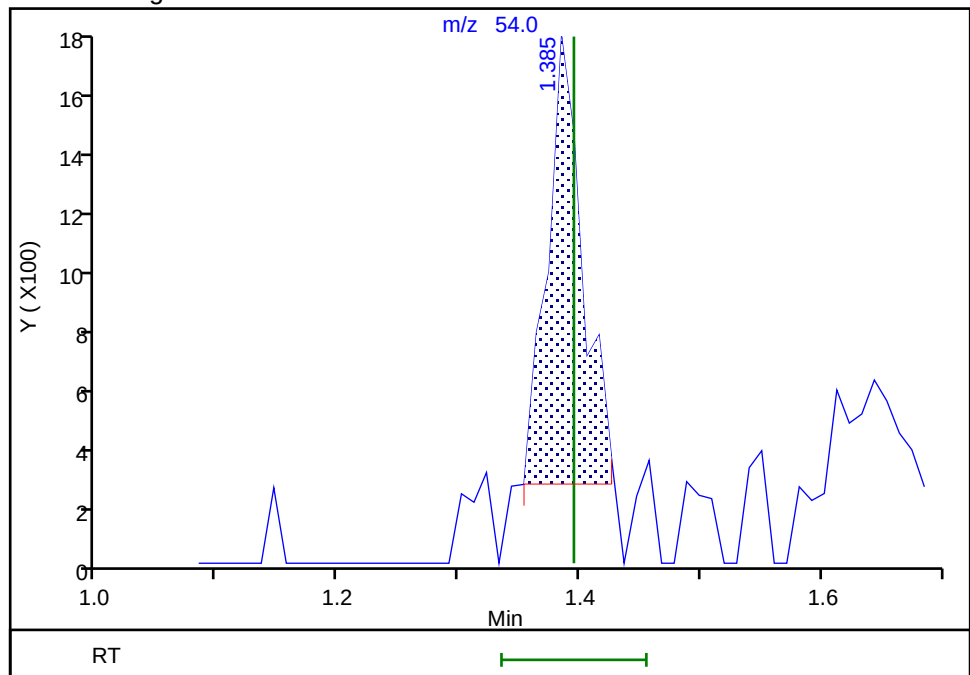
RT: 1.38
Area: 4450
Amount: 0.383948
Amount Units: ug/L

Processing Integration Results



RT: 1.38
Area: 2994
Amount: 0.256851
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:40:13
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 143 of 897

Eurofins TestAmerica, Buffalo

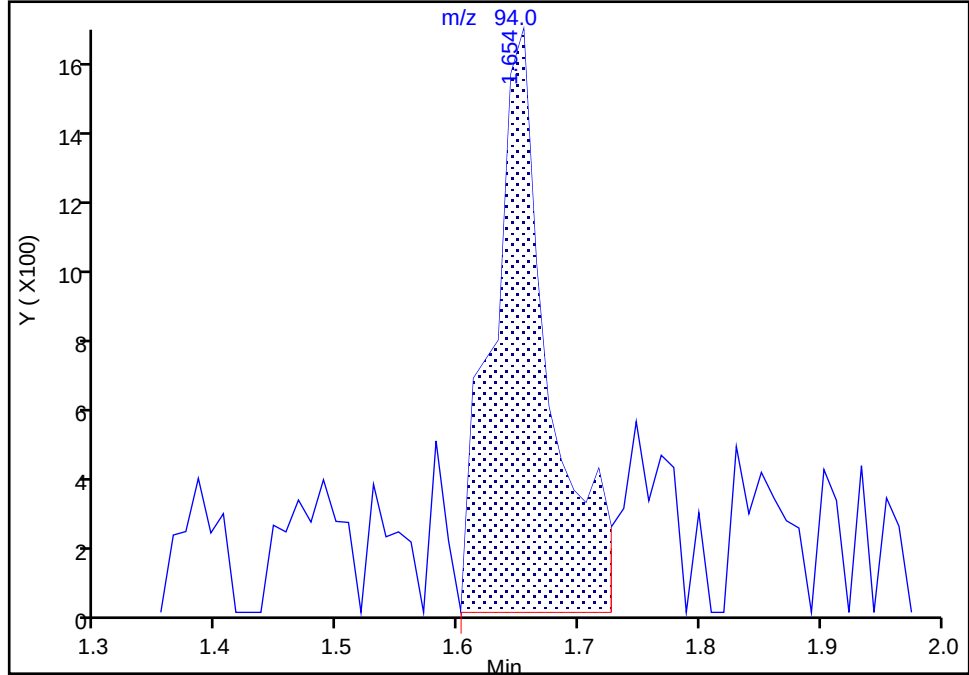
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D
Injection Date: 16-Sep-2020 13:41:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 38 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

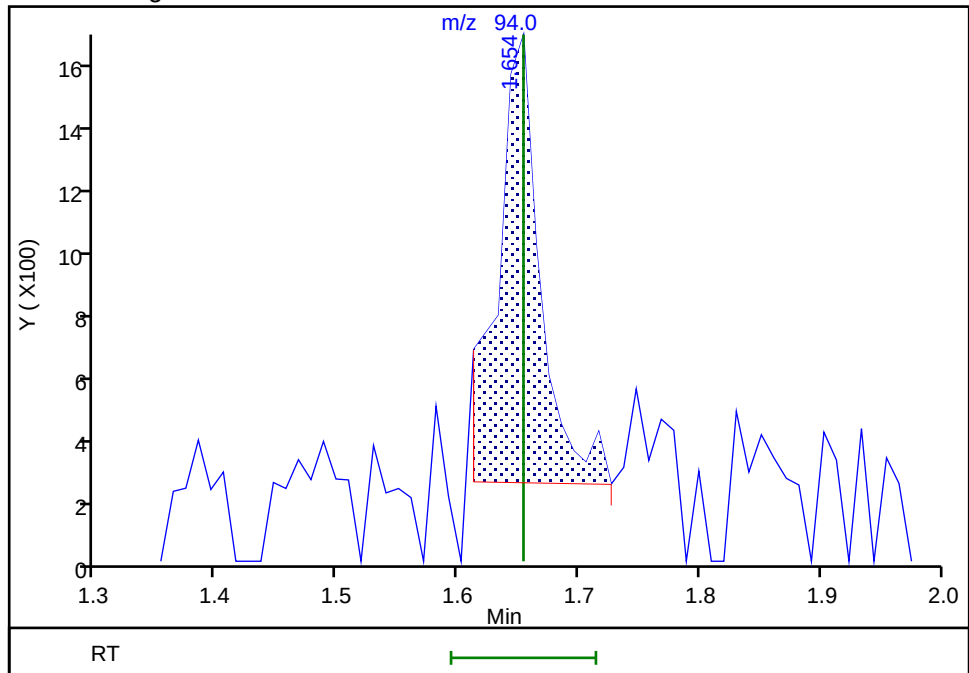
RT: 1.65
Area: 5420
Amount: 0.380381
Amount Units: ug/L

Processing Integration Results



RT: 1.65
Area: 3577
Amount: 0.442920
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:43:00

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

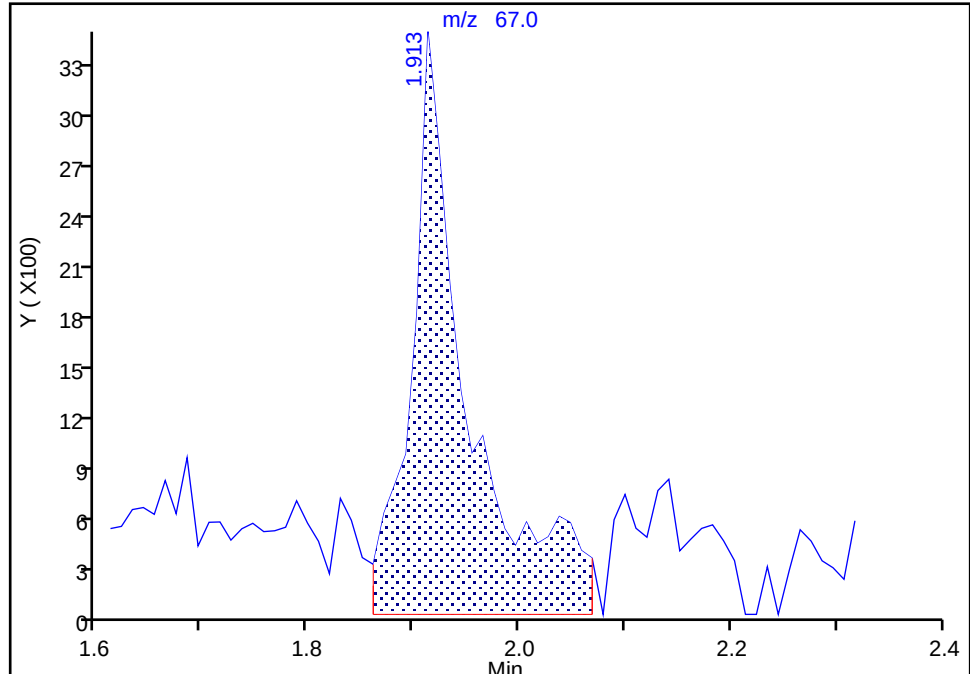
Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

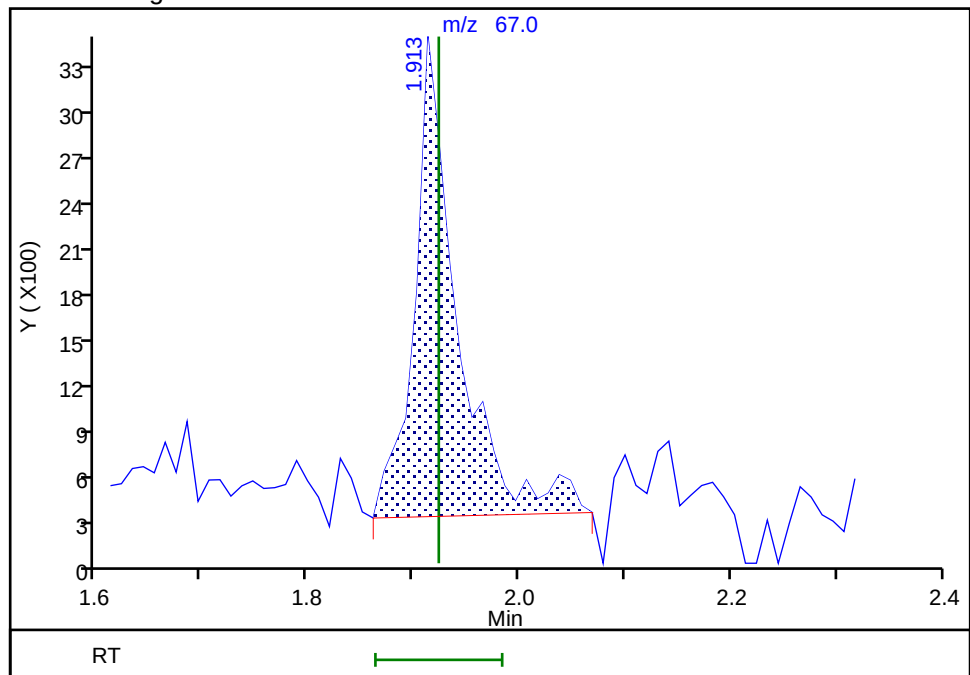
RT: 1.91
Area: 12879
Amount: 0.420576
Amount Units: ug/L

Processing Integration Results



RT: 1.91
Area: 8792
Amount: 0.491926
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:43:16

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

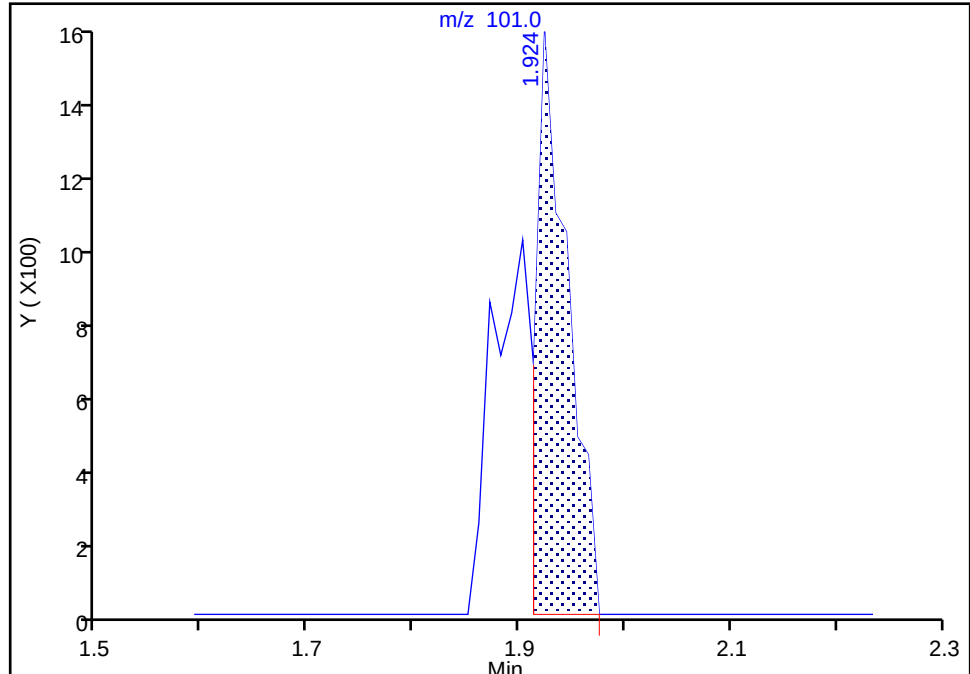
Detector: MS SCAN

17 Trichlorofluoromethane, CAS: 75-69-4

Signal: 1

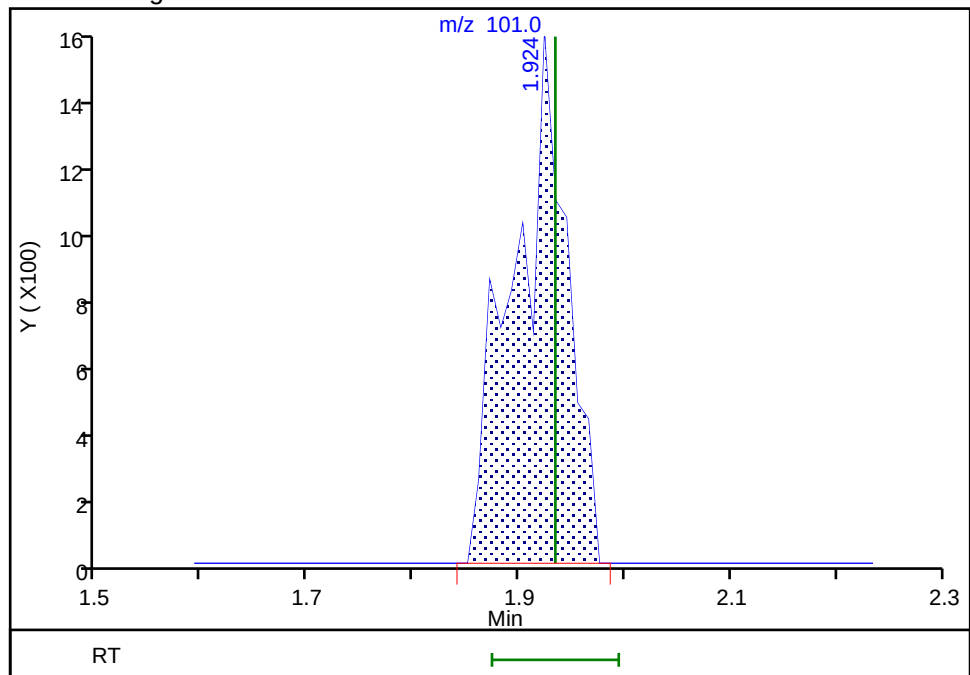
RT: 1.92
Area: 3150
Amount: 0.315846
Amount Units: ug/L

Processing Integration Results



RT: 1.92
Area: 5309
Amount: 0.342865
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:44:32

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

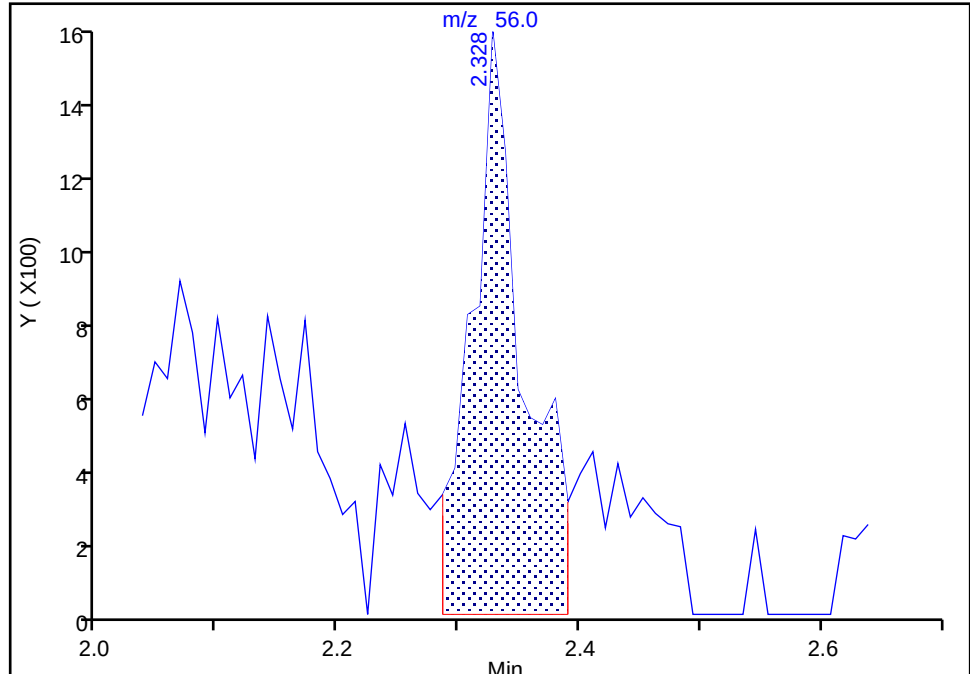
Detector: MS SCAN

21 Acrolein, CAS: 107-02-8

Signal: 1

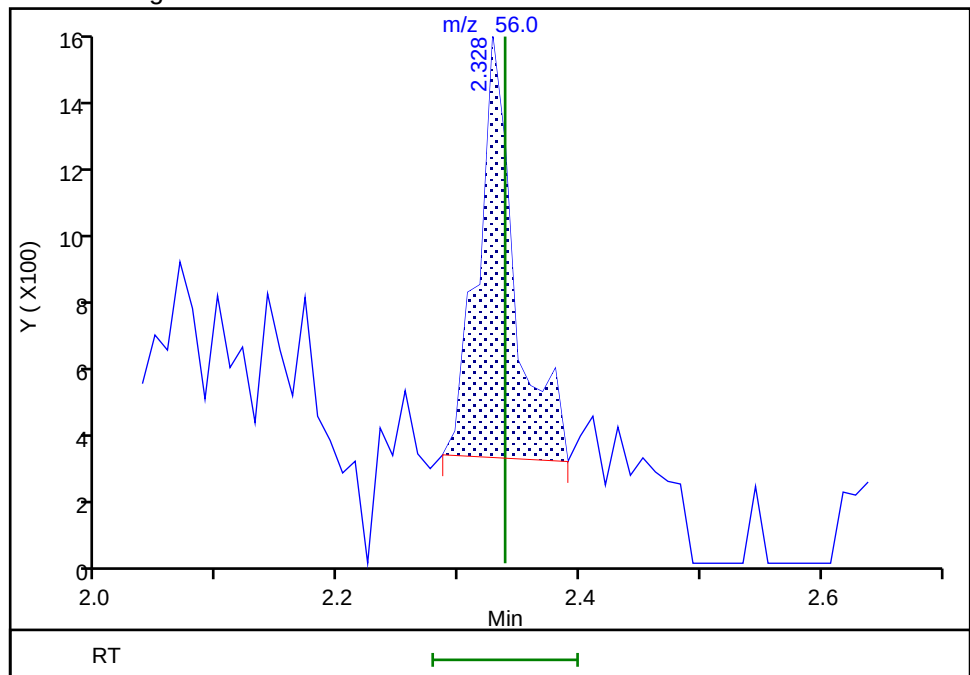
RT: 2.33
Area: 4784
Amount: 3.020885
Amount Units: ug/L

Processing Integration Results



RT: 2.33
Area: 2643
Amount: 2.120368
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:44:41

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

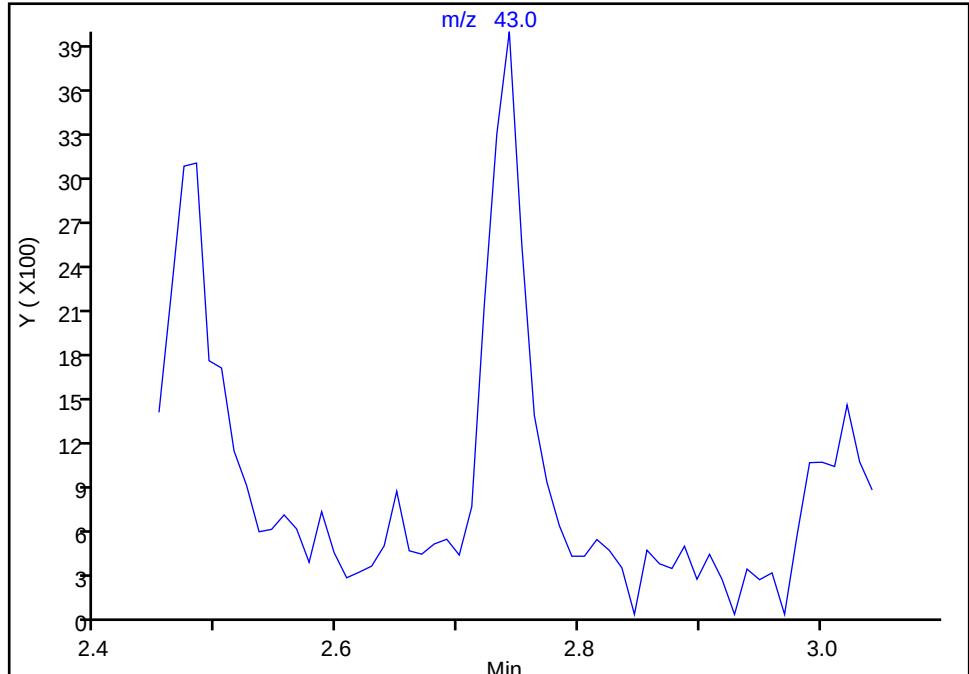
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D
Injection Date: 16-Sep-2020 13:41:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 38 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

28 Methyl acetate, CAS: 79-20-9

Signal: 1

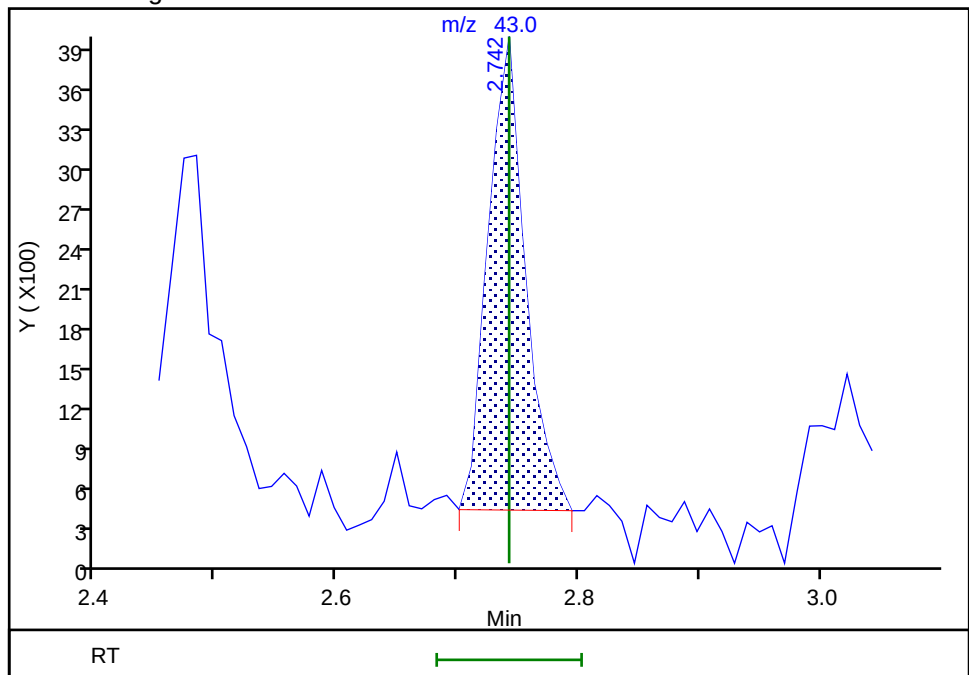
Not Detected
Expected RT: 2.74

Processing Integration Results



RT: 2.74
Area: 7579
Amount: 0.830370
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:45:08
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 148 of 897

Eurofins TestAmerica, Buffalo

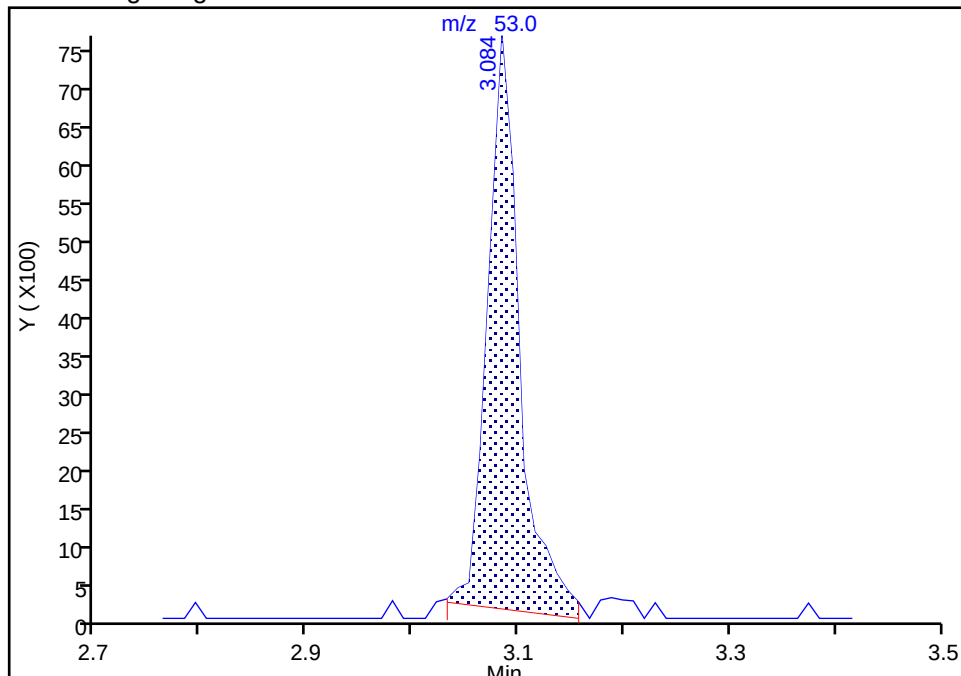
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D
Injection Date: 16-Sep-2020 13:41:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 38 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

34 Acrylonitrile, CAS: 107-13-1

Signal: 1

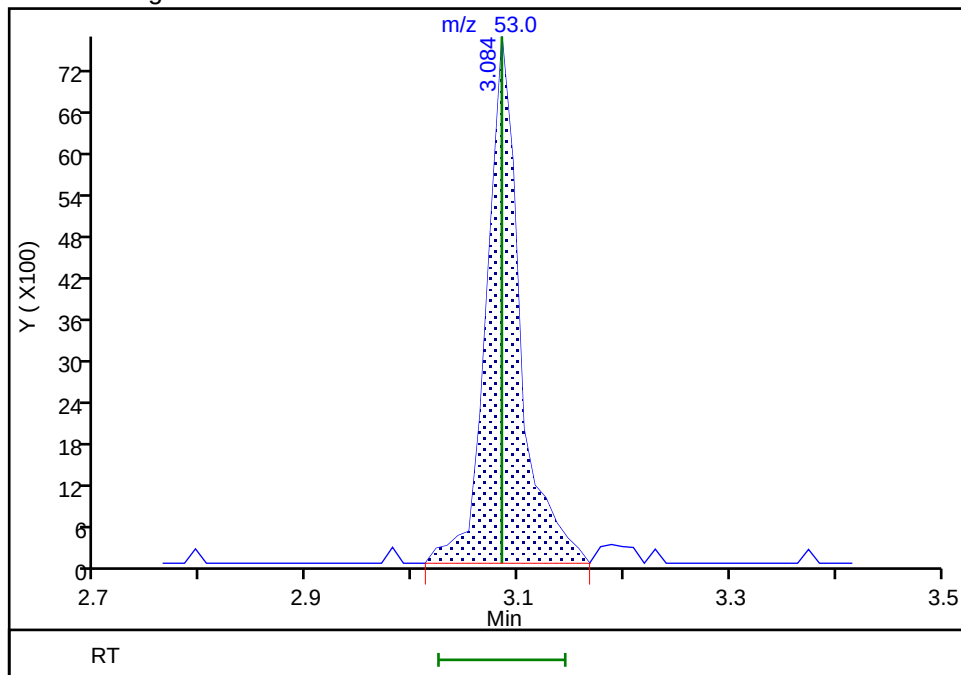
RT: 3.08
Area: 15833
Amount: 3.622155
Amount Units: ug/L

Processing Integration Results



RT: 3.08
Area: 16822
Amount: 3.821392
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:45:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

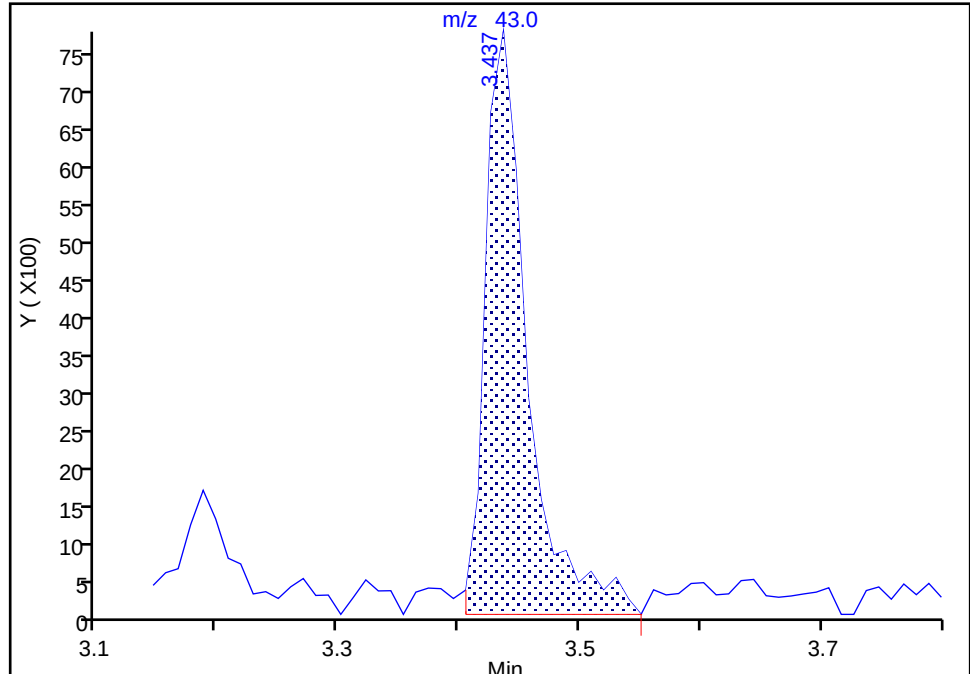
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D
Injection Date: 16-Sep-2020 13:41:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 38 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

39 Vinyl acetate, CAS: 108-05-4

Signal: 1

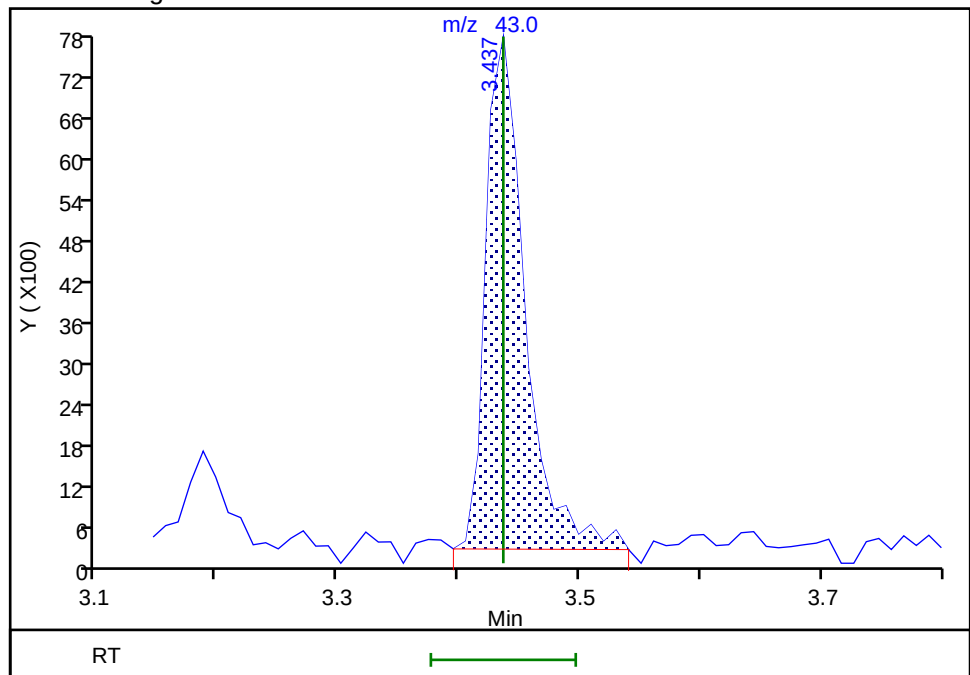
RT: 3.44
Area: 18857
Amount: 0.851923
Amount Units: ug/L

Processing Integration Results



RT: 3.44
Area: 17067
Amount: 0.780922
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:45:53
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 150 of 897

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

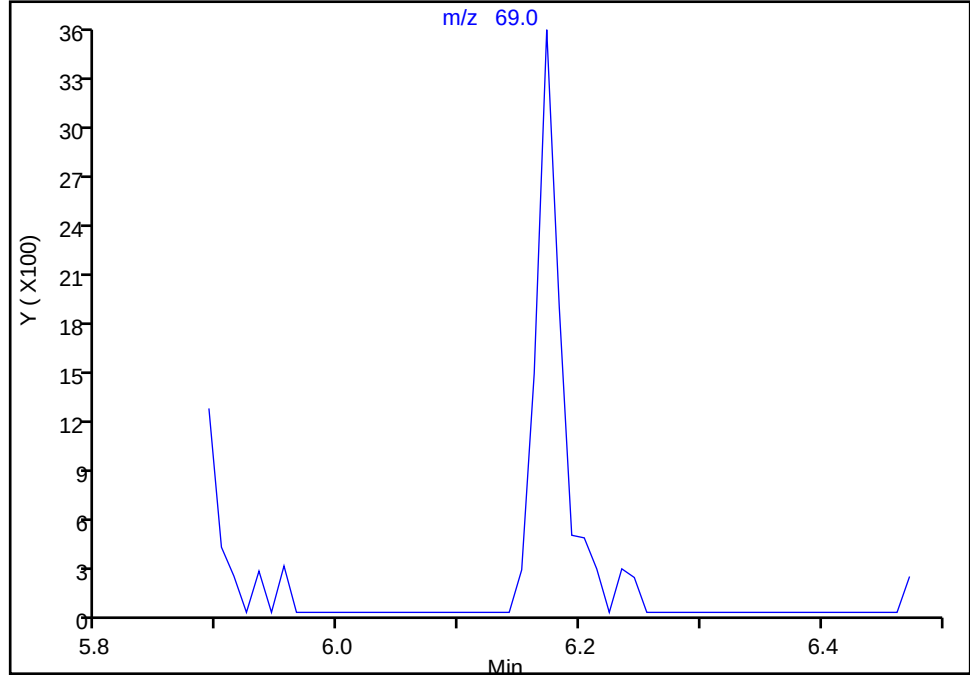
77 Ethyl methacrylate, CAS: 97-63-2

Signal: 1

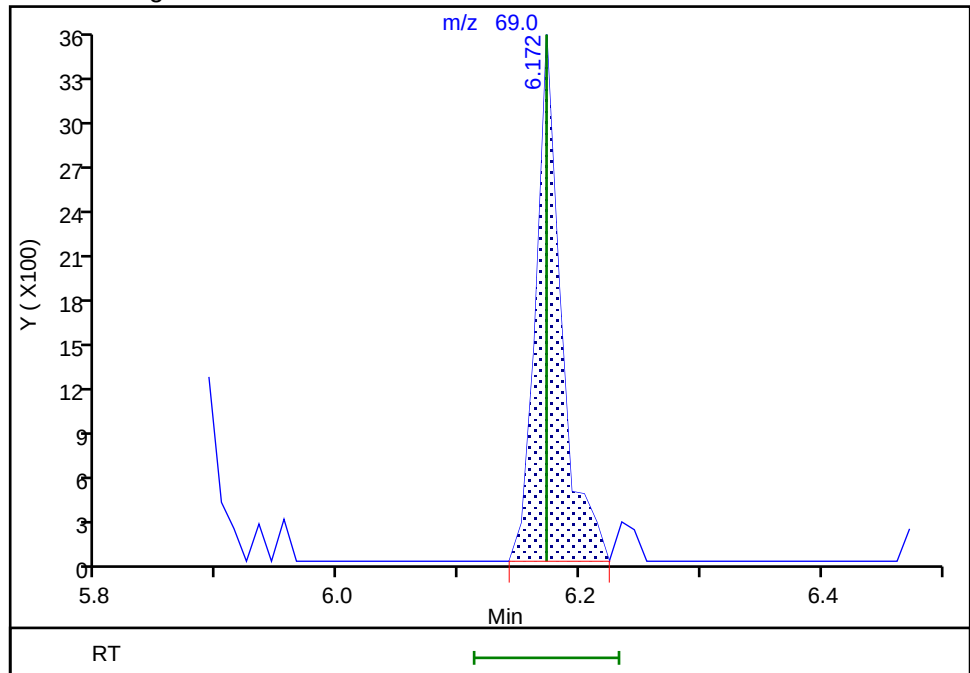
Not Detected

Expected RT: 6.17

Processing Integration Results



Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:46:33

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector

MS SCAN

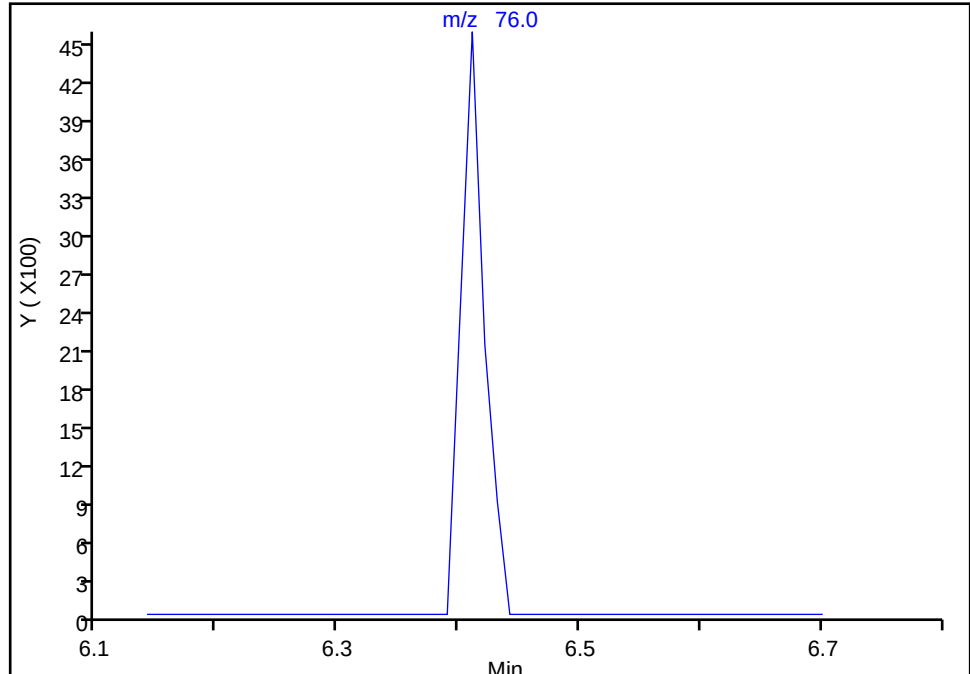
80 1,3-Dichloropropane, CAS: 142-28-9

Signal: 1

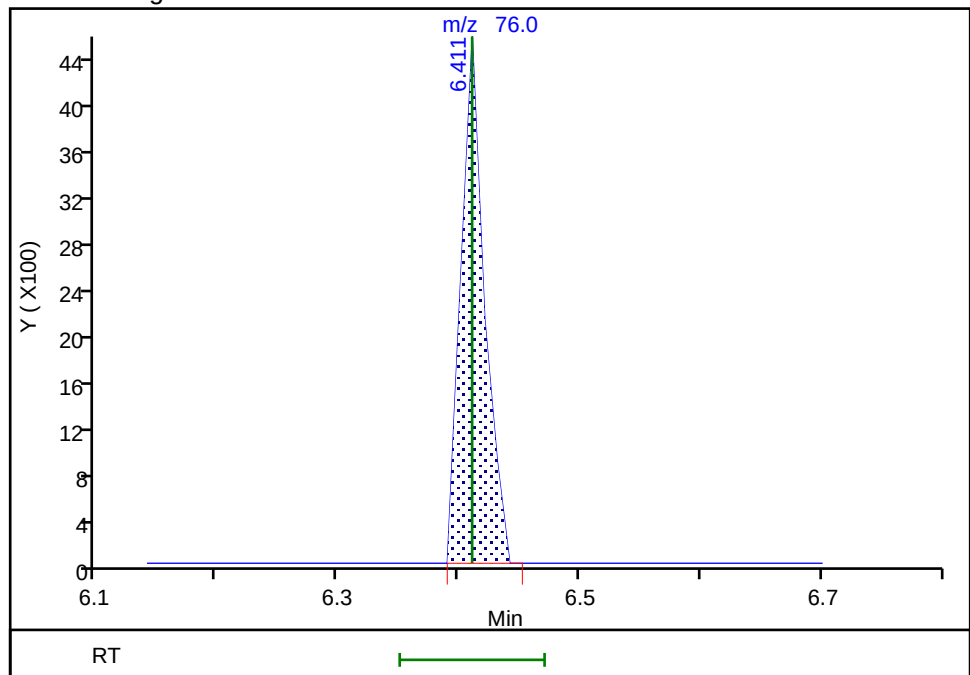
Not Detected

Expected RT: 6.41

Processing Integration Results



Manual Integration Results



RT: 6.41

Area: 6142

Amount: 0.396413

Amount Units: ug/L

Reviewer: farrellr, 17-Sep-2020 11:46:39

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

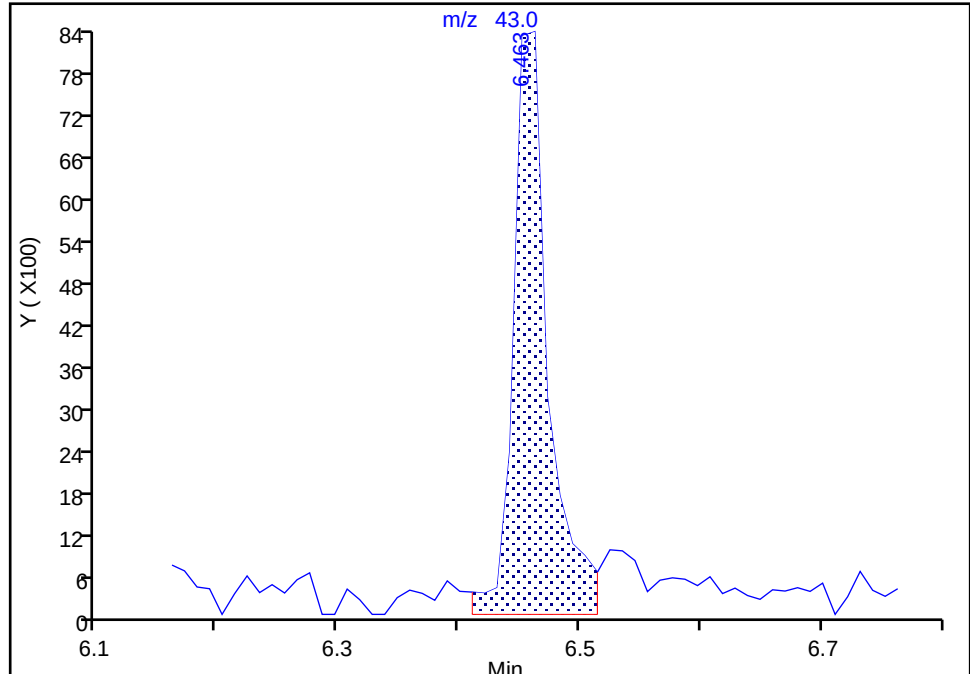
Detector: MS SCAN

81 2-Hexanone, CAS: 591-78-6

Signal: 1

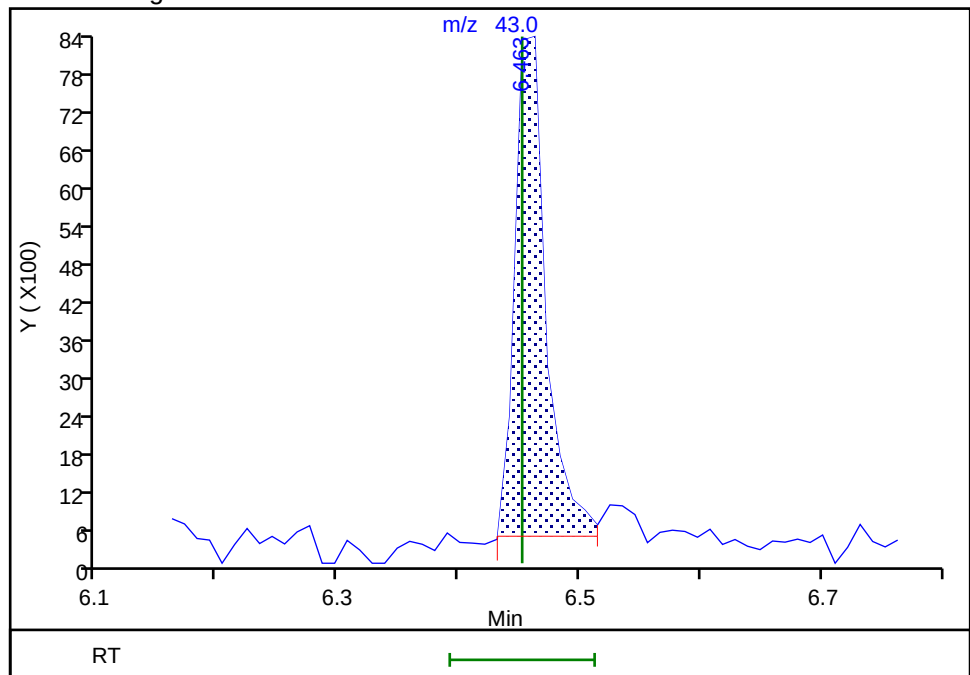
RT: 6.46
Area: 16900
Amount: 1.986200
Amount Units: ug/L

Processing Integration Results



RT: 6.46
Area: 14127
Amount: 1.694821
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:47:00

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector

MS SCAN

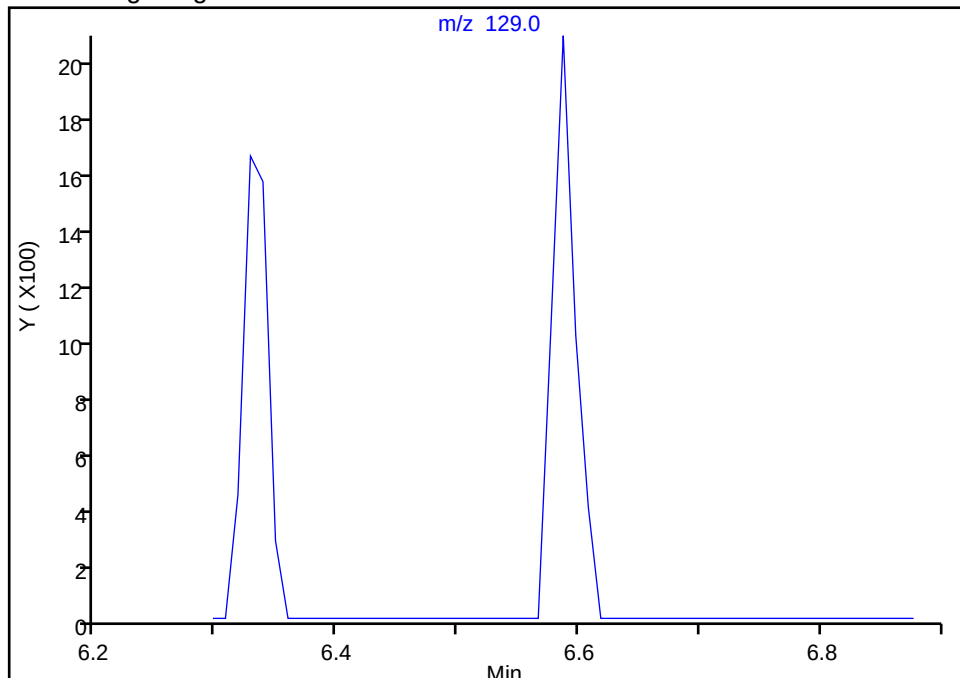
82 Chlorodibromomethane, CAS: 124-48-1

Signal: 1

Not Detected

Expected RT: 6.59

Processing Integration Results



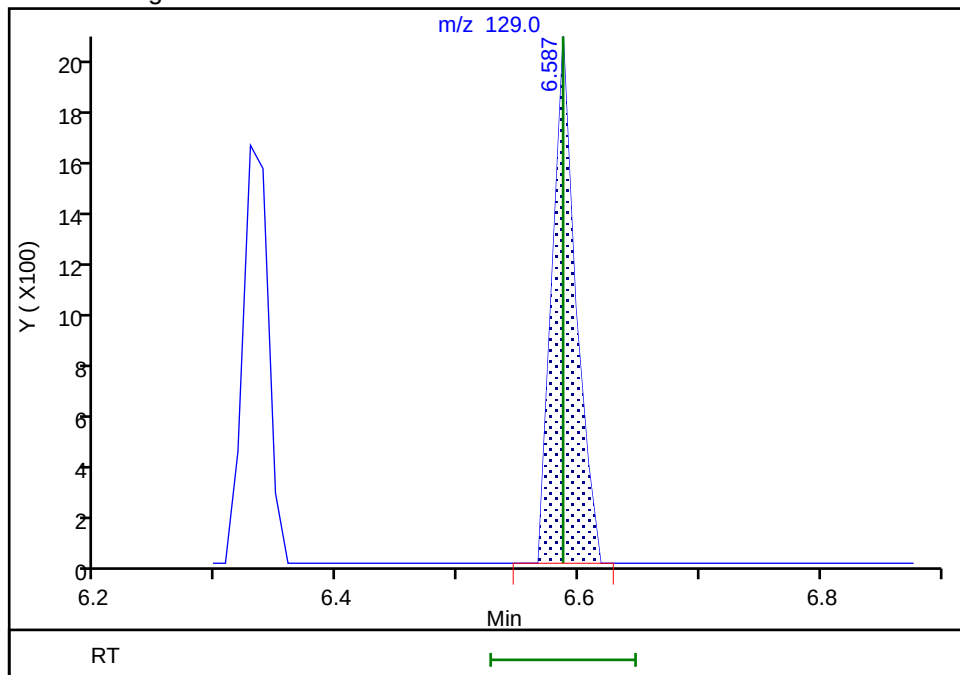
RT: 6.59

Area: 2702

Amount: 0.353505

Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:47:08

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

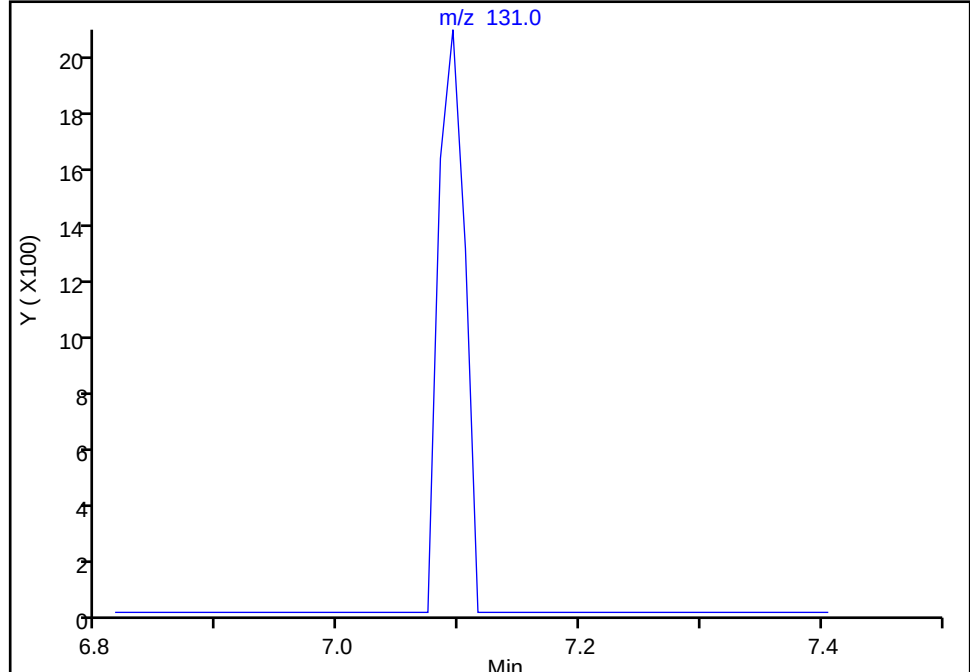
89 1,1,1,2-Tetrachloroethane, CAS: 630-20-6

Signal: 1

Not Detected

Expected RT: 7.09

Processing Integration Results



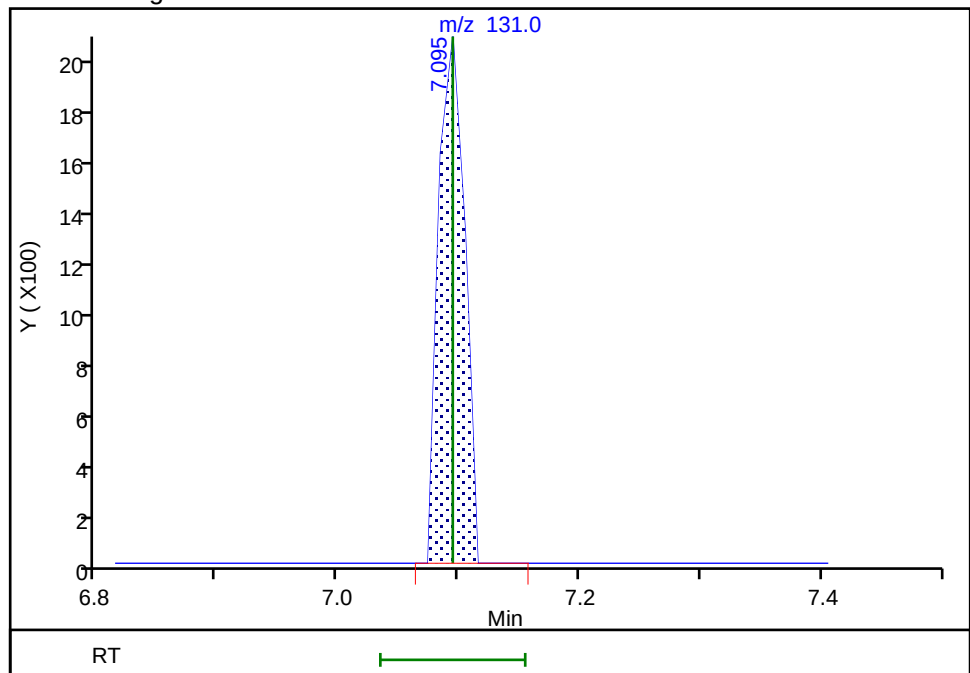
RT: 7.09

Area: 3092

Amount: 0.389640

Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:47:20

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector

MS SCAN

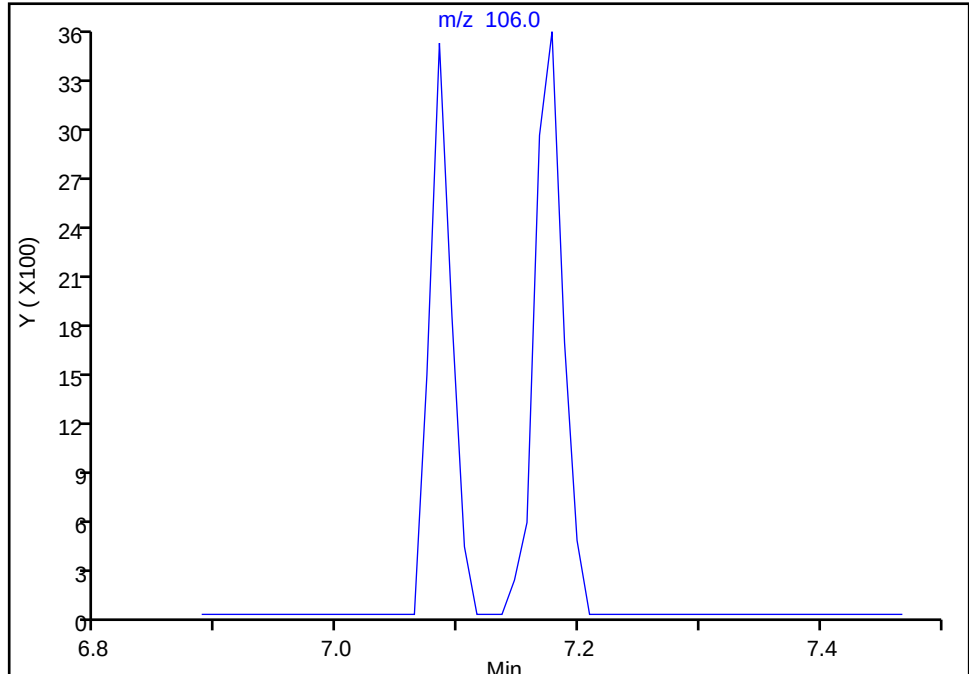
90 m-Xylene & p-Xylene, CAS: 179601-23-1

Signal: 1

Not Detected

Expected RT: 7.18

Processing Integration Results



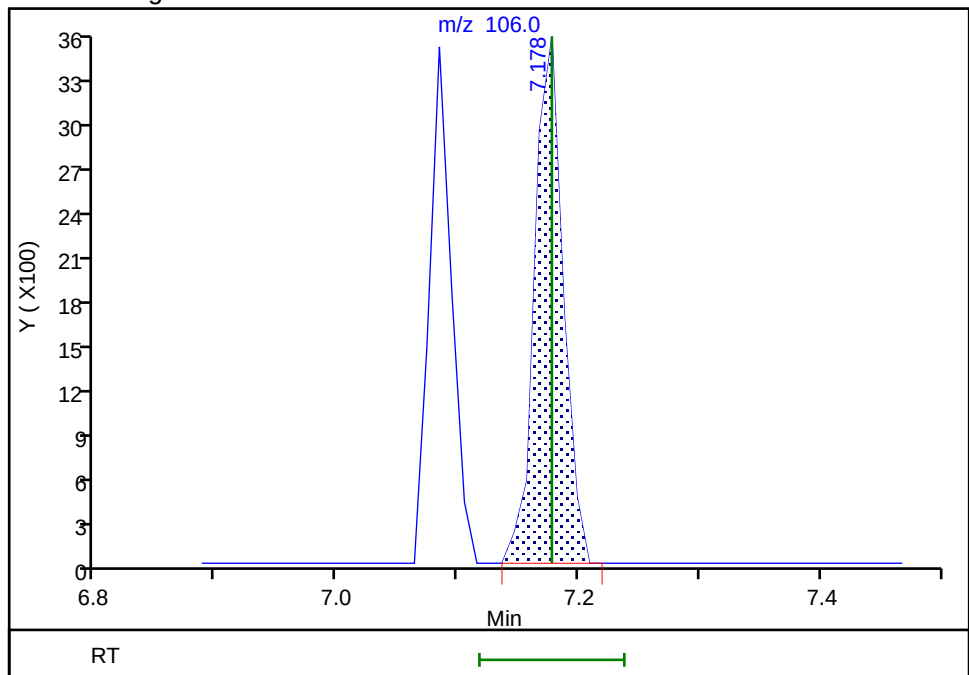
RT: 7.18

Area: 5864

Amount: 0.360983

Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:47:25

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

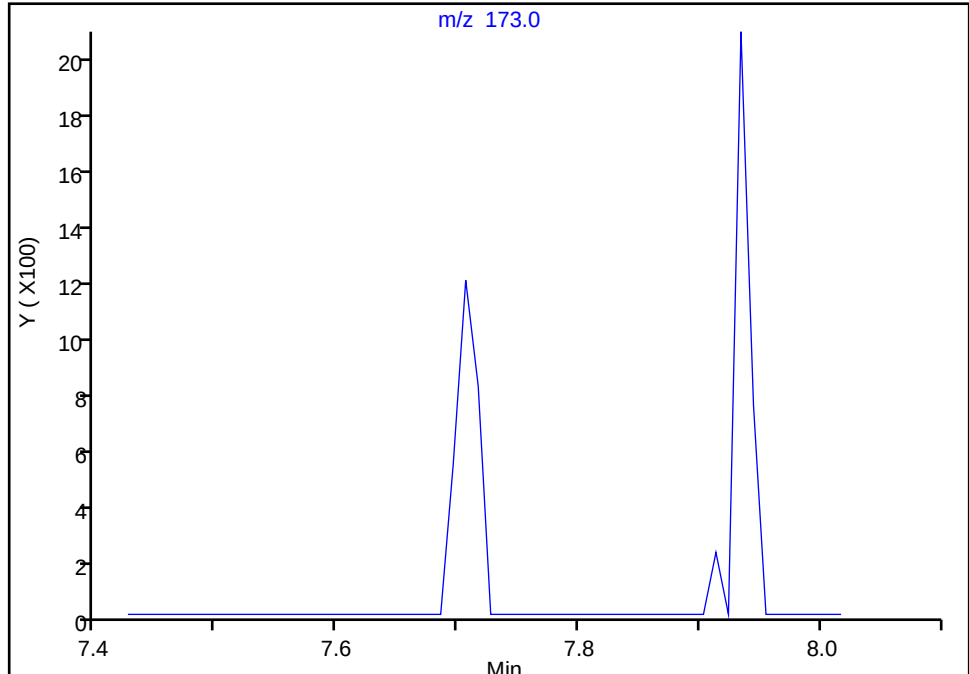
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D
Injection Date: 16-Sep-2020 13:41:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 38 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

93 Bromoform, CAS: 75-25-2

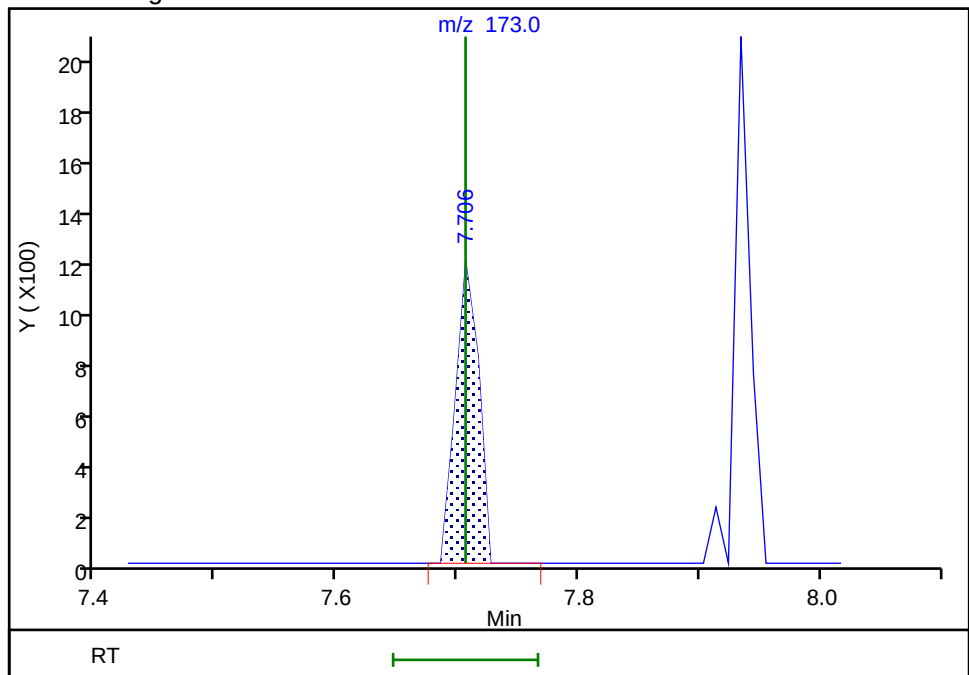
Signal: 1

Not Detected
Expected RT: 7.71

Processing Integration Results



Manual Integration Results



RT: 7.71
Area: 1552
Amount: 0.354851
Amount Units: ug/L

Reviewer: farrellr, 17-Sep-2020 11:47:33
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 157 of 897

Eurofins TestAmerica, Buffalo

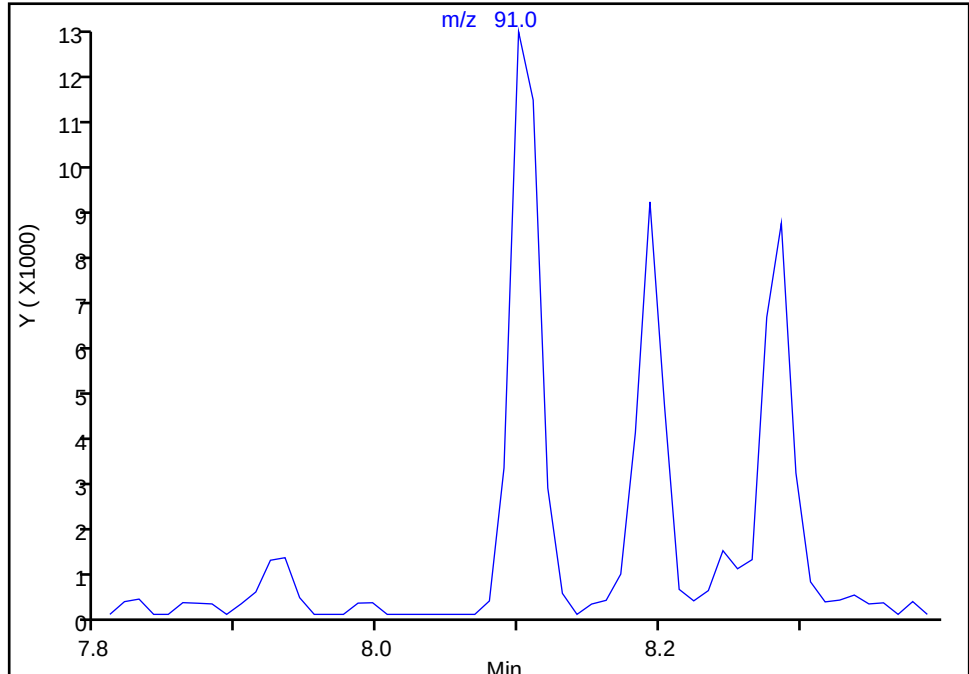
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D
Injection Date: 16-Sep-2020 13:41:30 Instrument ID: HP5975T
Lims ID: IC 0.4
Client ID:
Operator ID: RF ALS Bottle#: 38 Worklist Smp#: 6
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

99 N-Propylbenzene, CAS: 103-65-1

Signal: 1

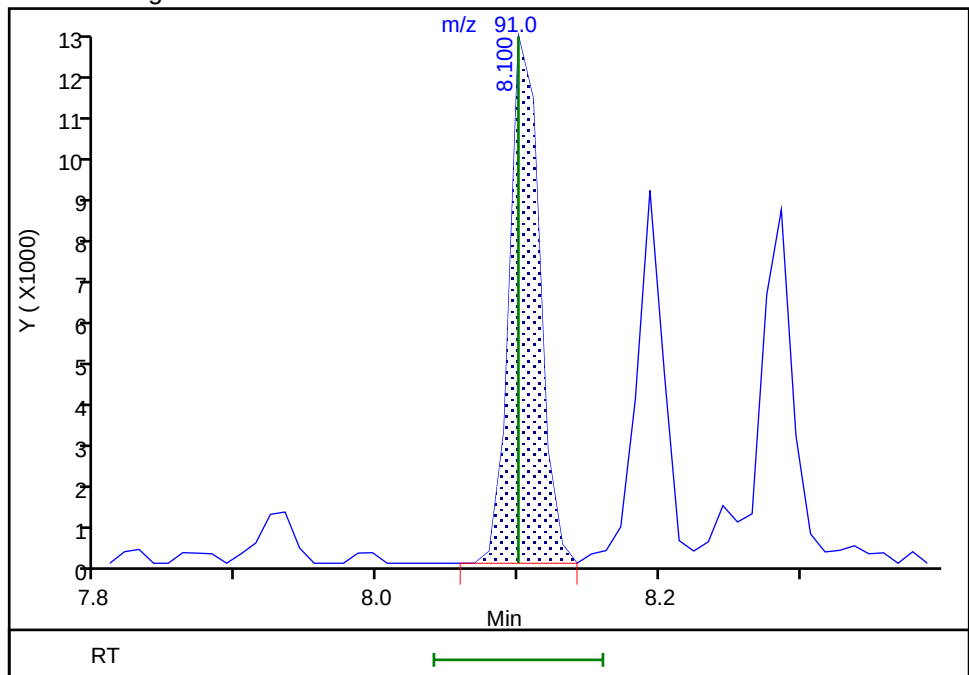
Not Detected
Expected RT: 8.10

Processing Integration Results



RT: 8.10
Area: 18395
Amount: 0.357804
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:47:41
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography
Page 158 of 897

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector

MS SCAN

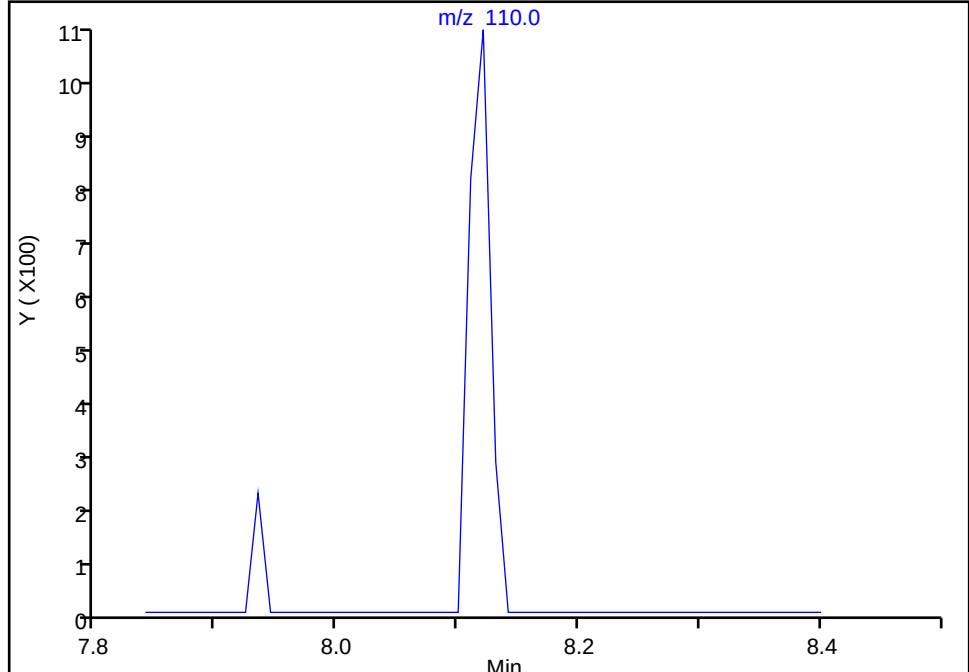
100 1,2,3-Trichloropropane, CAS: 96-18-4

Signal: 1

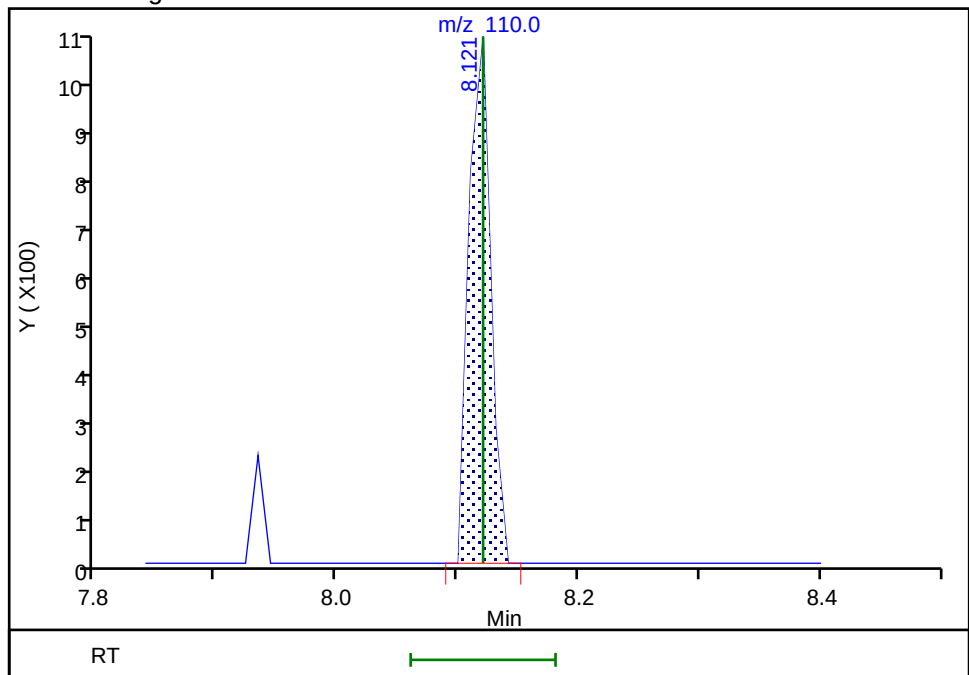
Not Detected

Expected RT: 8.12

Processing Integration Results



Manual Integration Results



RT: 8.12

Area: 1247

Amount: 0.311393

Amount Units: ug/L

Reviewer: farrellr, 17-Sep-2020 11:47:53

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector

MS SCAN

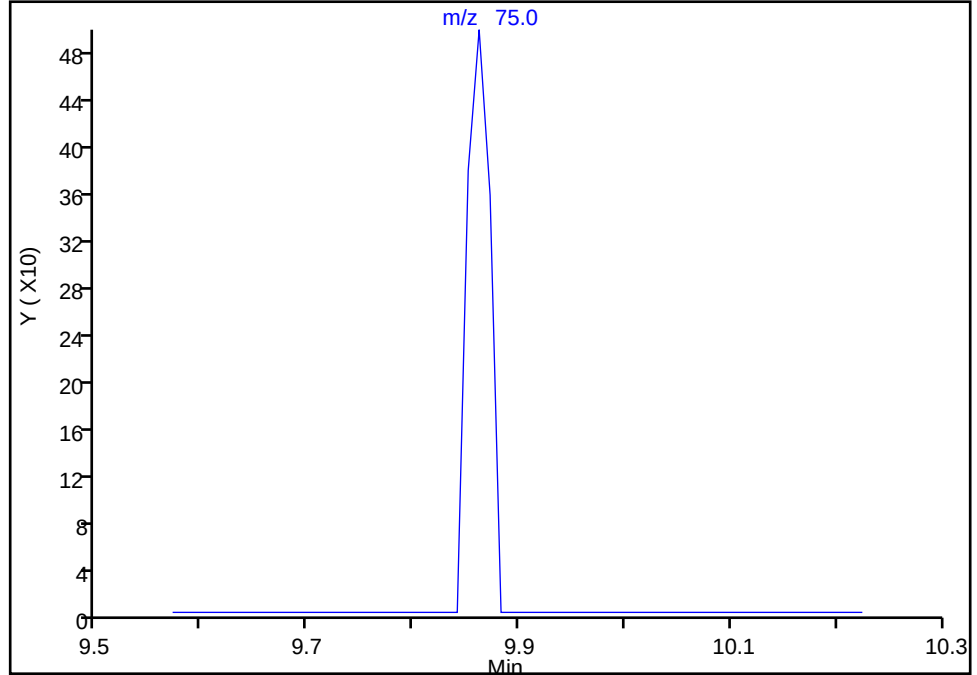
117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

Not Detected

Expected RT: 9.86

Processing Integration Results



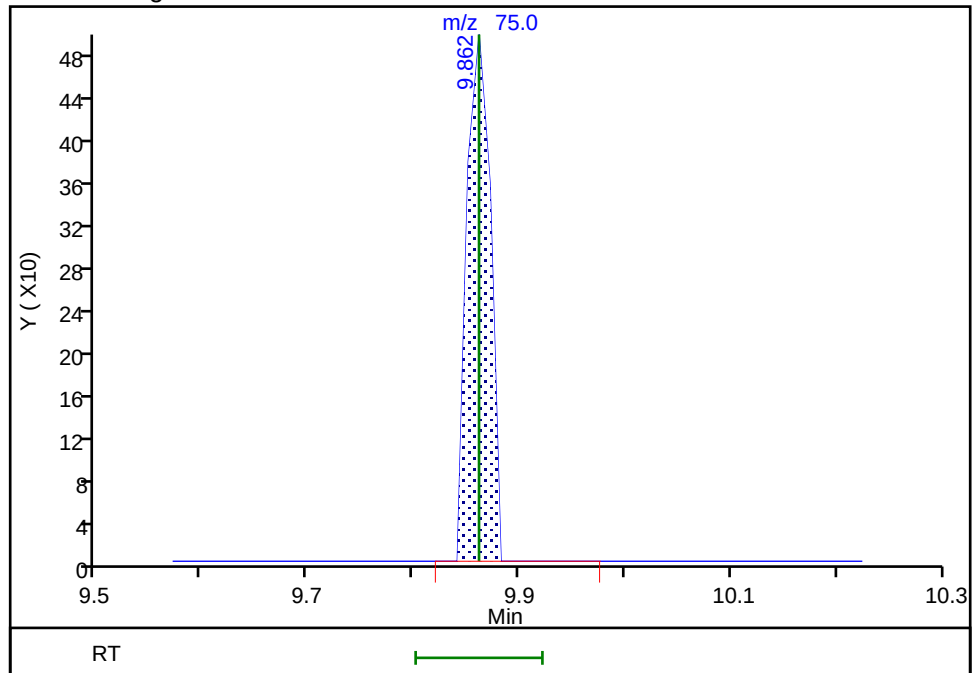
RT: 9.86

Area: 765

Amount: 0.353341

Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:48:13

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6845.D

Injection Date: 16-Sep-2020 13:41:30

Instrument ID: HP5975T

Lims ID: IC 0.4

Client ID:

Operator ID: RF

ALS Bottle#:

38

Worklist Smp#: 6

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector

MS SCAN

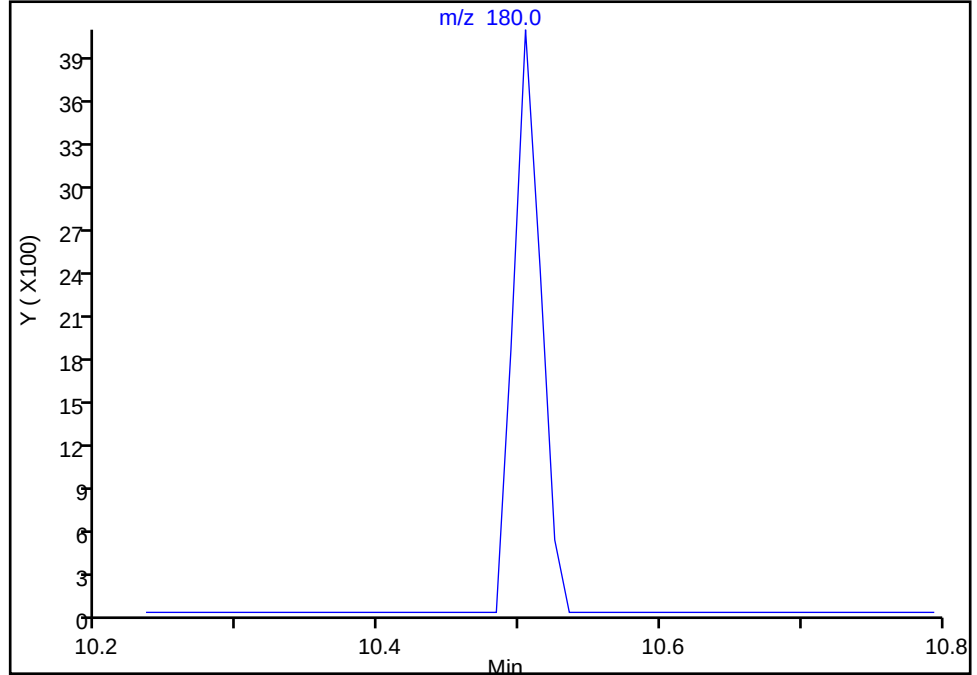
119 1,2,4-Trichlorobenzene, CAS: 120-82-1

Signal: 1

Not Detected

Expected RT: 10.50

Processing Integration Results



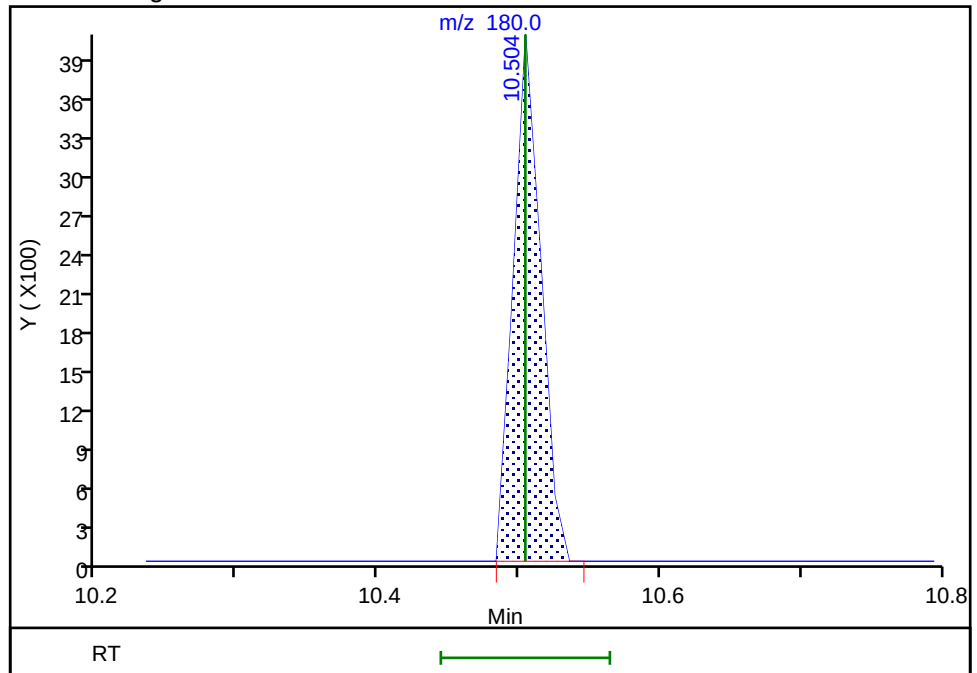
RT: 10.50

Area: 5428

Amount: 0.350663

Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:48:18

Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Sep-2020 14:05:30 ALS Bottle#: 39 Worklist Smp#: 7
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic
 Misc. Info.: 480-0093466-007
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:25:30 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 11:50:11

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	99	172187	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.001	0.001	89	604865	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.857	8.856	0.001	97	334387	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	93	197806	25.0	24.5	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	277813	25.0	25.1	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	796658	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	241235	25.0	24.9	
11 Dichlorodifluoromethane	85	1.167	1.167	0.000	98	13699	1.00	1.09	
13 Chloromethane	50	1.312	1.322	-0.010	98	11560	1.00	0.9070	M
151 Butadiene	54	1.385	1.395	-0.010	96	12959	1.00	1.12	
14 Vinyl chloride	62	1.395	1.405	-0.010	95	13211	1.00	1.08	
15 Bromomethane	94	1.654	1.654	0.000	89	8829	1.00	1.10	M
16 Chloroethane	64	1.696	1.716	-0.020	91	8924	1.00	1.19	
18 Dichlorofluoromethane	67	1.924	1.923	0.001	96	17617	1.00	0.99	M
17 Trichlorofluoromethane	101	1.924	1.934	-0.010	72	17158	1.00	1.11	
19 Ethyl ether	59	2.162	2.162	0.000	89	9069	1.00	1.01	
21 Acrolein	56	2.338	2.338	0.000	97	6278	5.00	5.06	M
22 1,1-Dichloroethene	96	2.359	2.369	-0.010	94	6427	1.00	0.8452	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.359	2.379	-0.020	64	7376	1.00	0.9305	
23 Acetone	43	2.483	2.483	0.000	99	20966	5.00	5.63	
24 Iodomethane	142	2.514	2.514	0.000	100	13611	1.00	0.9751	
25 Carbon disulfide	76	2.545	2.545	0.000	99	24106	1.00	0.8959	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	84	14113	1.00	1.00	
28 Methyl acetate	43	2.742	2.742	0.000	98	18260	2.00	2.01	
30 Methylene Chloride	84	2.836	2.835	0.001	95	18398	1.00	1.12	
31 2-Methyl-2-propanol	59	3.001	2.991	0.010	45	10540	10.0	8.76	
33 Methyl tert-butyl ether	73	3.012	3.022	-0.010	98	29727	1.00	0.9868	
32 trans-1,2-Dichloroethene	96	3.033	3.032	0.001	96	8795	1.00	0.9732	
34 Acrylonitrile	53	3.084	3.084	0.000	97	46175	10.0	10.5	
35 Hexane	57	3.188	3.198	-0.010	91	13799	1.00	0.9849	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.395	3.395	0.000	95	15844	1.00	0.9778	
39 Vinyl acetate	43	3.437	3.436	0.001	98	39592	2.00	1.82	
42 2,2-Dichloropropane	77	3.841	3.841	0.000	88	12088	1.00	0.9070	
43 cis-1,2-Dichloroethene	96	3.862	3.861	0.001	83	10307	1.00	1.01	
44 2-Butanone (MEK)	43	3.893	3.882	0.011	99	29029	5.00	5.20	
48 Tetrahydrofuran	42	4.069	4.058	0.011	91	11487	2.00	2.15	M
47 Chlorobromomethane	128	4.059	4.058	0.001	96	5098	1.00	0.9896	
50 Chloroform	83	4.121	4.120	0.001	96	18072	1.00	1.08	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	96	12723	1.00	0.9234	
52 Cyclohexane	56	4.214	4.214	0.000	91	13919	1.00	0.8816	
53 Carbon tetrachloride	117	4.318	4.317	0.001	67	8069	1.00	0.7641	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	87	10438	1.00	0.8811	
55 Benzene	78	4.494	4.494	0.000	47	34180	1.00	0.9670	
56 Isobutyl alcohol	43	4.514	4.514	0.000	90	9020	25.0	20.5	
57 1,2-Dichloroethane	62	4.556	4.545	0.011	97	15046	1.00	0.99	
59 n-Heptane	43	4.628	4.628	0.000	93	16395	1.00	1.02	M
60 Trichloroethene	95	4.970	4.981	-0.011	94	9104	1.00	0.9727	
62 Methylcyclohexane	83	5.064	5.074	-0.010	91	12948	1.00	0.8360	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	92	9051	1.00	0.9669	
65 Dibromomethane	93	5.281	5.281	0.000	90	6101	1.00	0.9588	
66 1,4-Dioxane	88	5.281	5.281	0.000	0	1150	20.0	15.1	M
67 Dichlorobromomethane	83	5.395	5.395	0.000	97	9552	1.00	0.8750	
69 2-Chloroethyl vinyl ether	63	5.603	5.602	0.001	91	6674	1.00	0.9099	
71 cis-1,3-Dichloropropene	75	5.717	5.716	0.001	91	13833	1.00	0.9475	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	96	56249	5.00	4.72	
73 Toluene	92	5.934	5.934	0.000	98	22151	1.00	0.9711	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	99	12719	1.00	0.8938	
77 Ethyl methacrylate	69	6.173	6.172	0.001	90	12202	1.00	0.9019	
78 1,1,2-Trichloroethane	83	6.287	6.286	0.001	91	7638	1.00	1.00	
79 Tetrachloroethene	166	6.328	6.328	0.000	94	9061	1.00	0.9644	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	91	15722	1.00	1.01	
81 2-Hexanone	43	6.452	6.452	0.000	96	38678	5.00	4.62	
82 Chlorodibromomethane	129	6.587	6.587	0.000	88	6814	1.00	0.8872	
83 Ethylene Dibromide	107	6.670	6.670	0.000	99	8039	1.00	0.8847	
86 Chlorobenzene	112	7.022	7.022	0.000	93	23409	1.00	0.9405	
88 Ethylbenzene	91	7.085	7.084	0.000	98	40133	1.00	0.9240	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	88	7389	1.00	0.9267	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	14790	1.00	0.9061	
91 o-Xylene	106	7.499	7.488	0.011	96	15138	1.00	0.9554	
92 Styrene	104	7.520	7.520	0.000	95	25045	1.00	0.9184	
93 Bromoform	173	7.706	7.706	0.000	84	3660	1.00	0.8328	a
95 Isopropylbenzene	105	7.779	7.779	0.000	96	37884	1.00	0.9124	
97 Bromobenzene	156	8.048	8.048	0.000	95	9652	1.00	0.9123	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.089	0.001	95	12050	1.00	0.9414	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	46935	1.00	0.9209	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	68	3334	1.00	0.8699	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	88	3810	1.00	0.9597	
105 2-Chlorotoluene	126	8.193	8.193	0.000	96	9610	1.00	0.9758	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	92	33770	1.00	0.9375	
102 4-Chlorotoluene	91	8.287	8.286	0.001	98	35410	1.00	0.9676	
106 tert-Butylbenzene	134	8.504	8.504	0.000	92	6262	1.00	0.8448	
107 1,2,4-Trimethylbenzene	105	8.556	8.556	0.000	97	35342	1.00	0.9625	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	40478	1.00	0.8953	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	35852	1.00	0.9085	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	95	19243	1.00	0.9372	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	20936	1.00	0.9684	
115 n-Butylbenzene	91	9.136	9.136	0.000	95	31932	1.00	0.8609	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	94	19820	1.00	0.9672	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	0	1831	1.00	0.8531	M
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	92	14063	1.00	0.9164	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	92	6374	1.00	0.8790	
121 Naphthalene	128	10.712	10.711	0.001	98	42128	1.00	0.9566	
122 1,2,3-Trichlorobenzene	180	10.919	10.908	0.011	94	15231	1.00	0.9783	
S 125 Total BTEX	1				0			4.72	
S 126 Xylenes, Total	1				0			1.86	
S 124 1,2-Dichloroethene, Total	1				0			1.99	
S 123 1,3-Dichloropropene, Total	1				0			1.84	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

8260 CORP mix_00193

Amount Added: 1.00

Units: uL

GAS CORP mix_00418

Amount Added: 1.00

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D

Injection Date: 16-Sep-2020 14:05:30

Instrument ID: HP5975T

Lims ID: IC

Operator ID: RF

Client ID:

Worklist Smp#: 7

Purge Vol: 5.000 mL

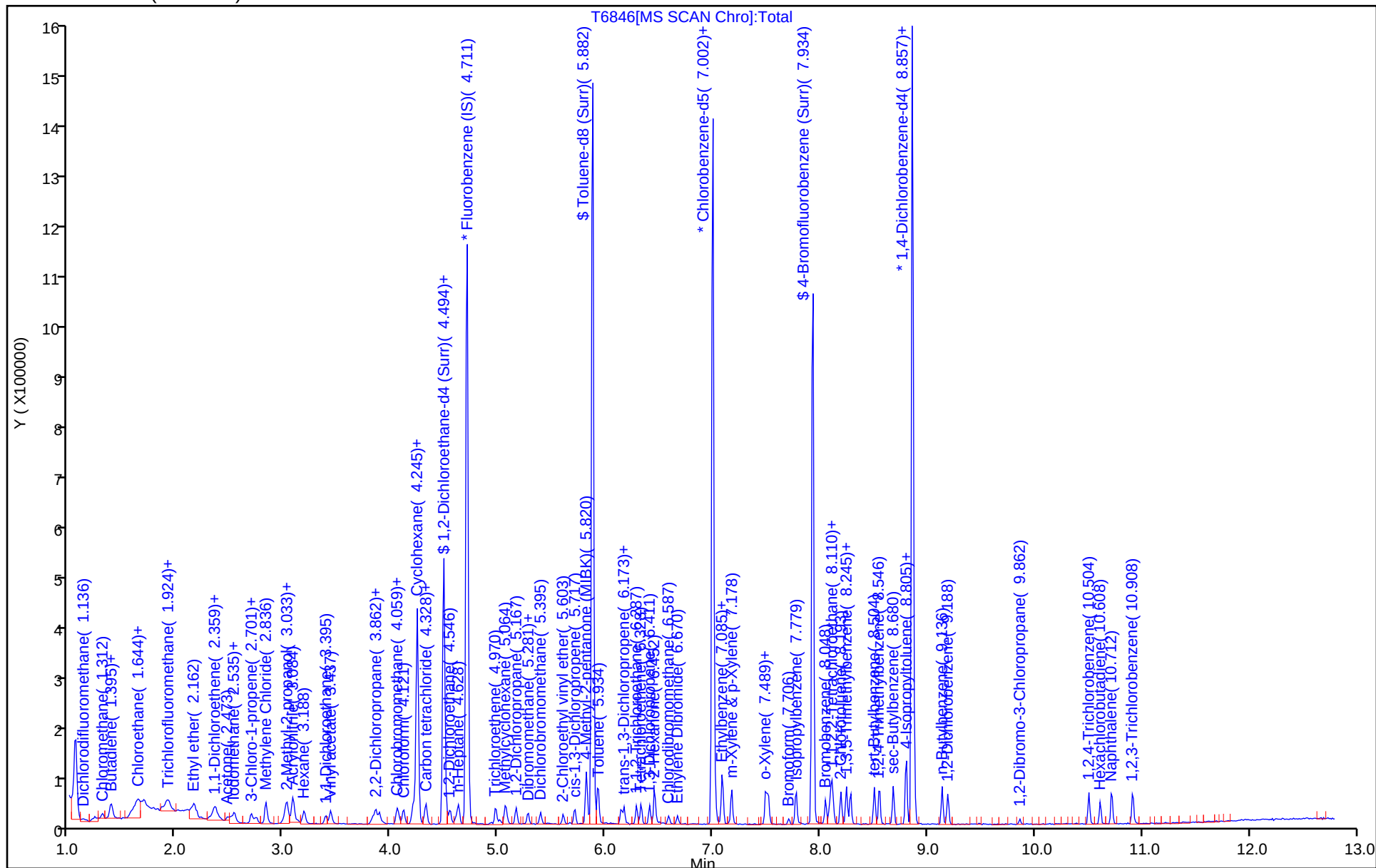
Dil. Factor: 1.0000

ALS Bottle#: 39

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D

Injection Date: 16-Sep-2020 14:05:30

Instrument ID: HP5975T

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

39

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

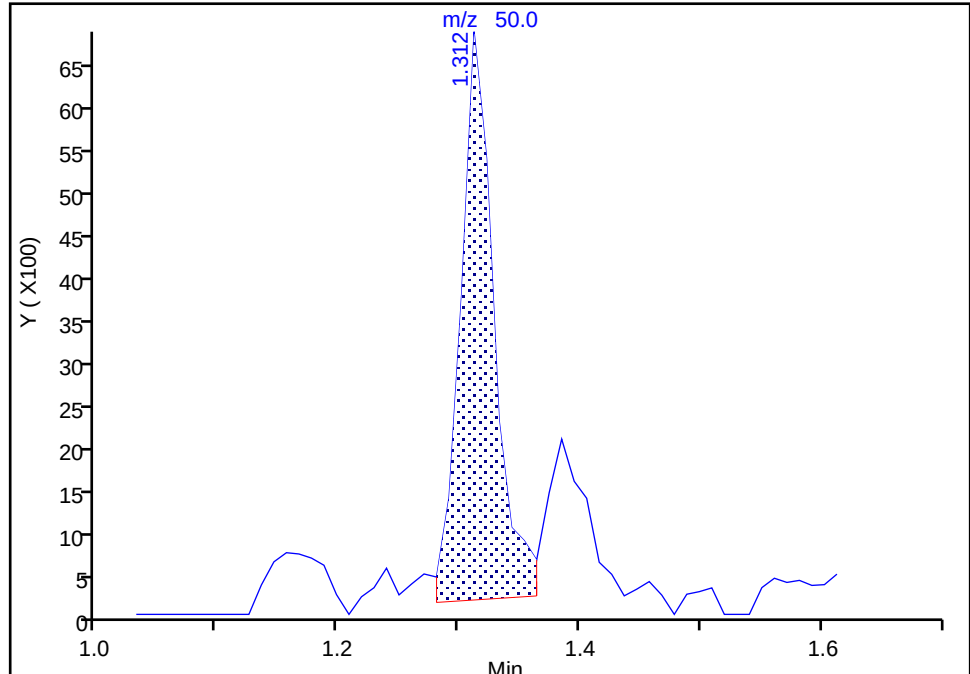
Detector: MS SCAN

13 Chloromethane, CAS: 74-87-3

Signal: 1

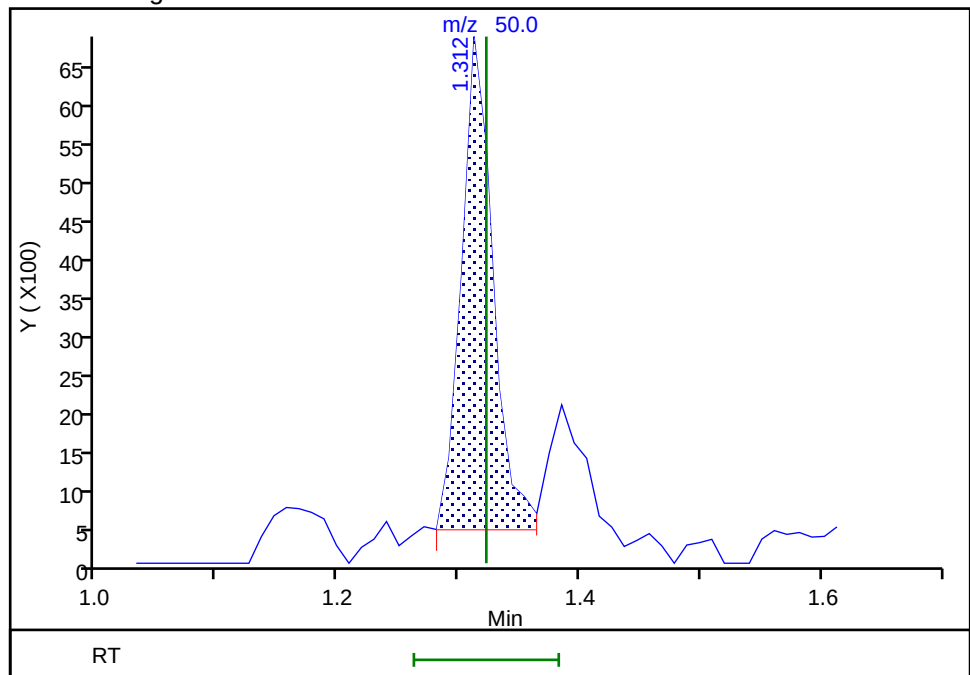
RT: 1.31
Area: 12987
Amount: 1.004917
Amount Units: ug/L

Processing Integration Results



RT: 1.31
Area: 11560
Amount: 0.907017
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:49:13

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D

Injection Date: 16-Sep-2020 14:05:30

Instrument ID: HP5975T

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

39

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

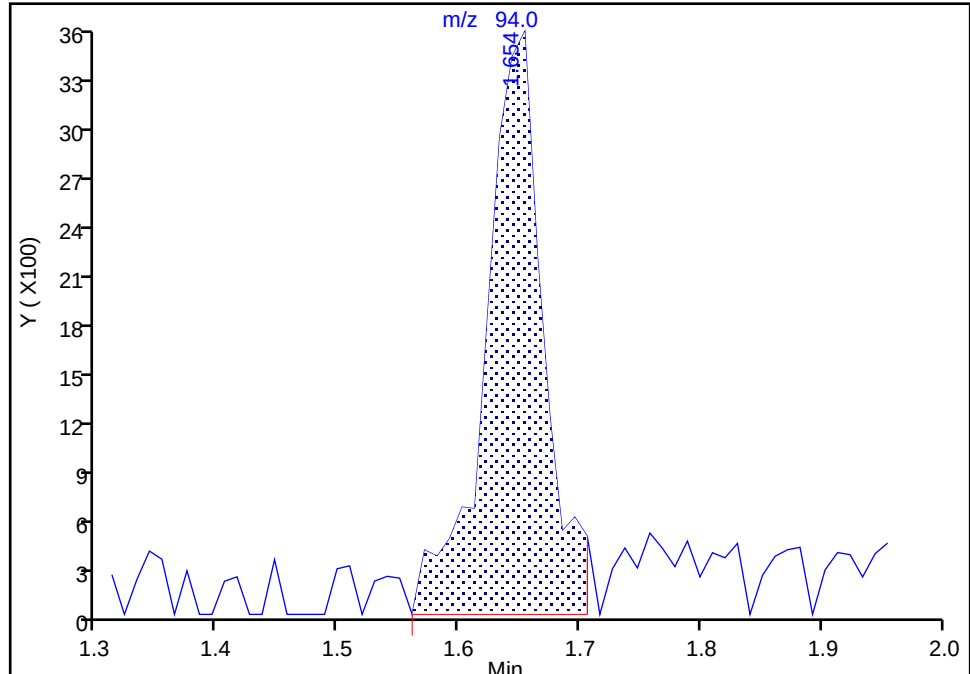
Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

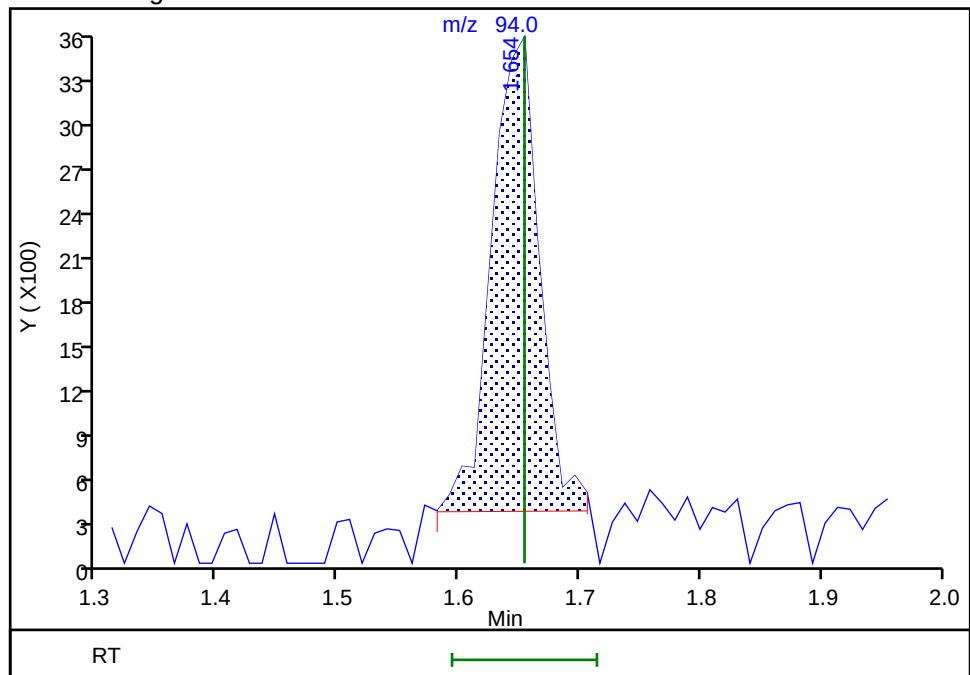
RT: 1.65
Area: 11902
Amount: 1.384252
Amount Units: ug/L

Processing Integration Results



RT: 1.65
Area: 8829
Amount: 1.098242
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:49:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D

Injection Date: 16-Sep-2020 14:05:30

Instrument ID: HP5975T

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

39

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector

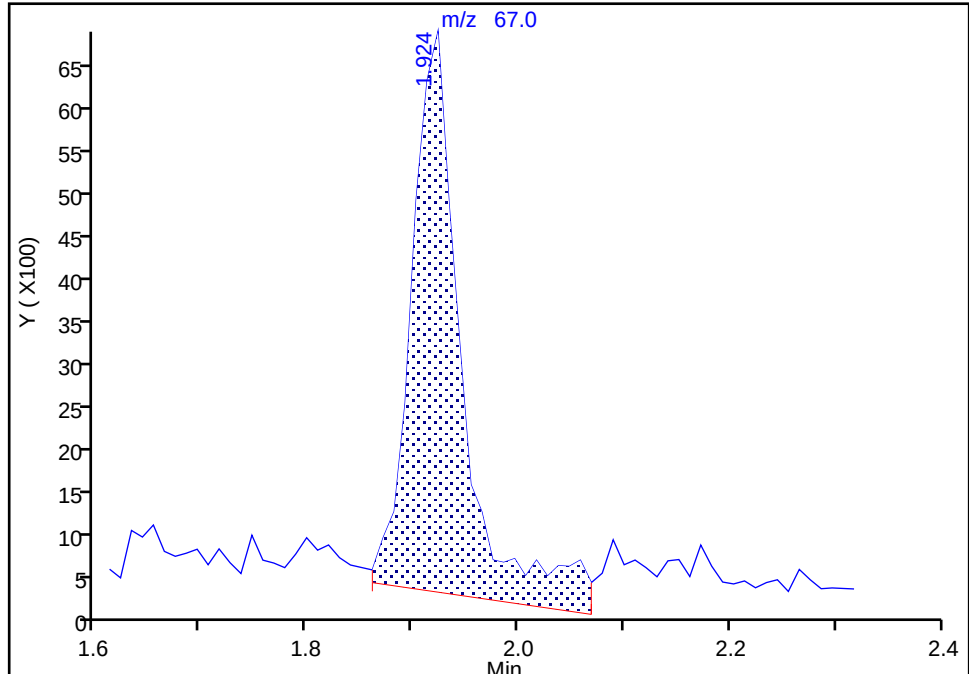
MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

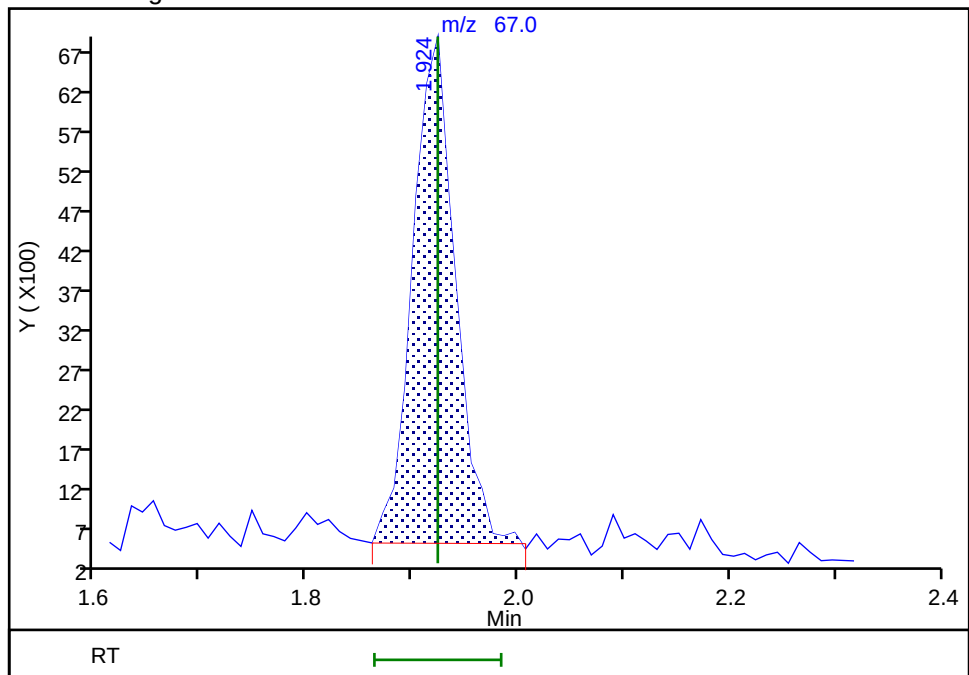
RT: 1.92
Area: 22011
Amount: 1.166878
Amount Units: ug/L

Processing Integration Results



RT: 1.92
Area: 17617
Amount: 0.990204
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:50:03

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D

Injection Date: 16-Sep-2020 14:05:30

Instrument ID: HP5975T

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

39

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

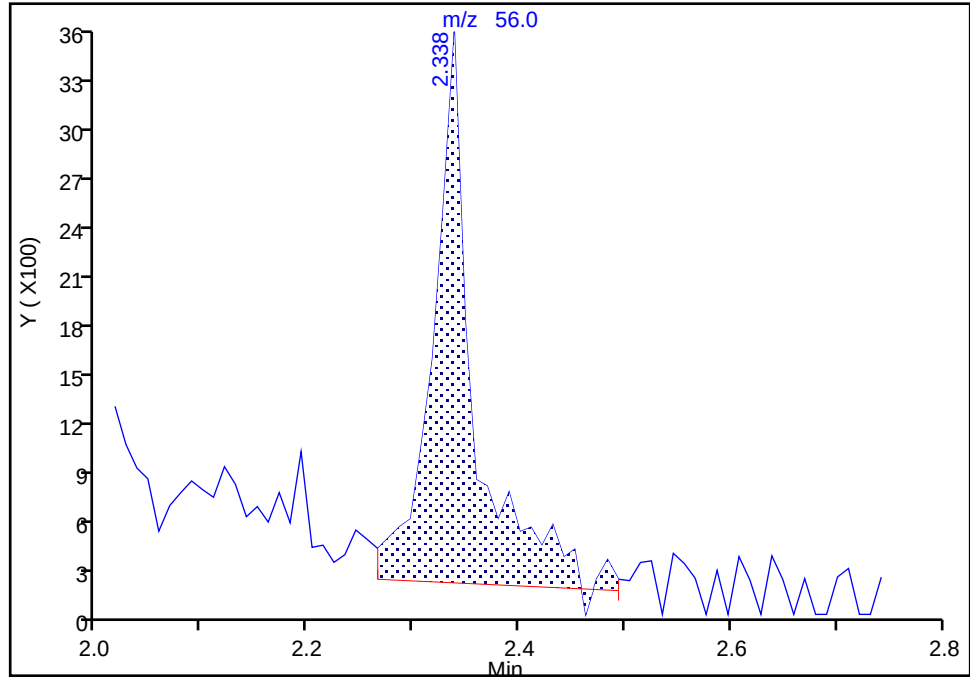
Detector: MS SCAN

21 Acrolein, CAS: 107-02-8

Signal: 1

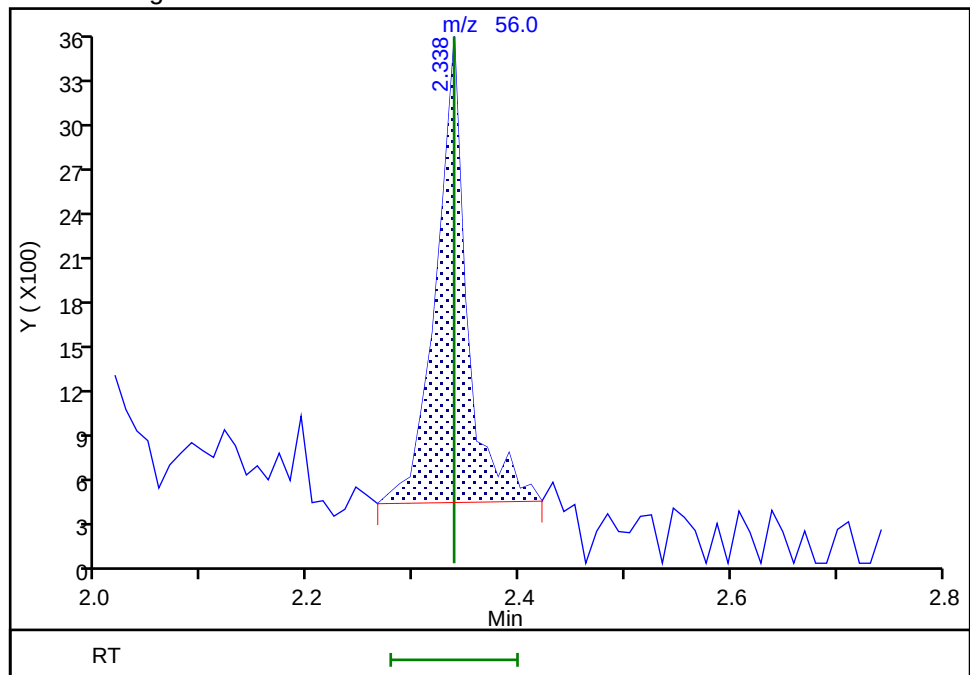
RT: 2.34
Area: 9031
Amount: 6.382092
Amount Units: ug/L

Processing Integration Results



RT: 2.34
Area: 6278
Amount: 5.059595
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:50:34

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D

Injection Date: 16-Sep-2020 14:05:30

Instrument ID: HP5975T

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

39

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

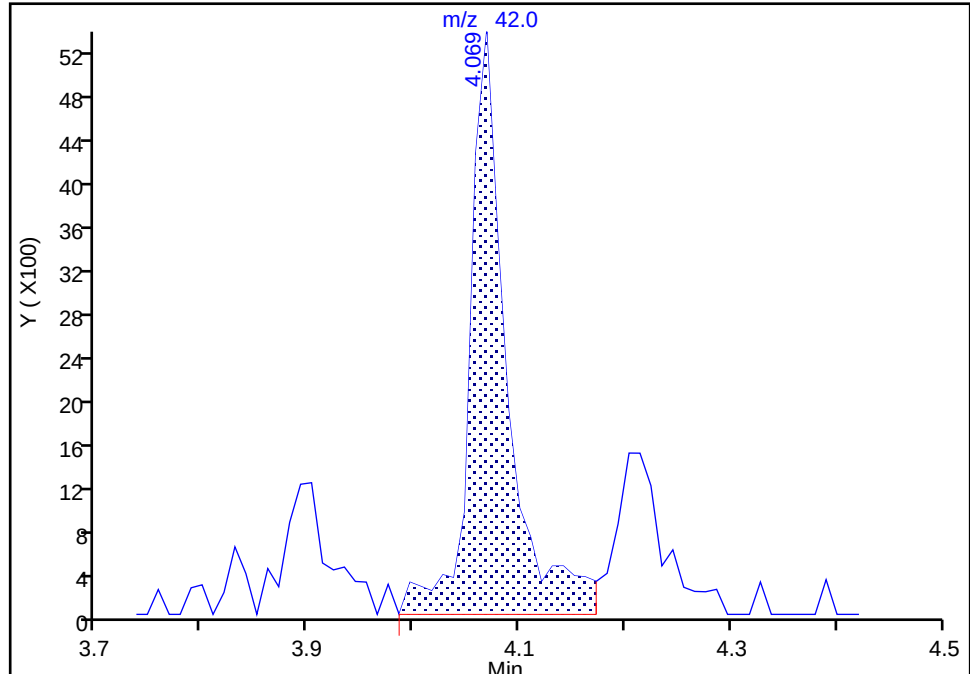
Detector: MS SCAN

48 Tetrahydrofuran, CAS: 109-99-9

Signal: 1

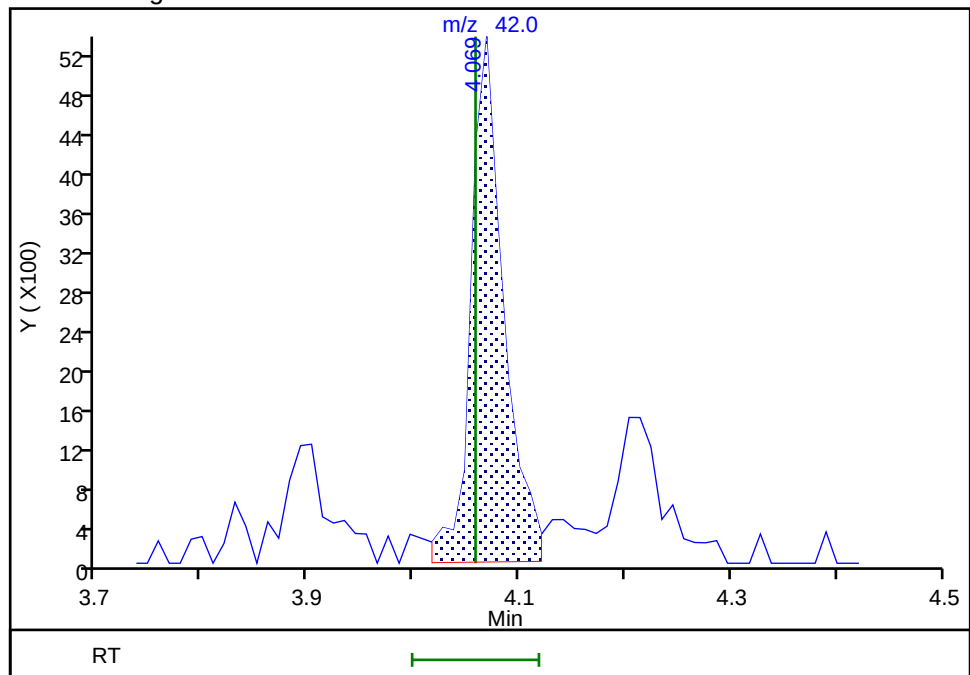
RT: 4.07
Area: 13073
Amount: 2.466653
Amount Units: ug/L

Processing Integration Results



RT: 4.07
Area: 11487
Amount: 2.145702
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:52:14

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

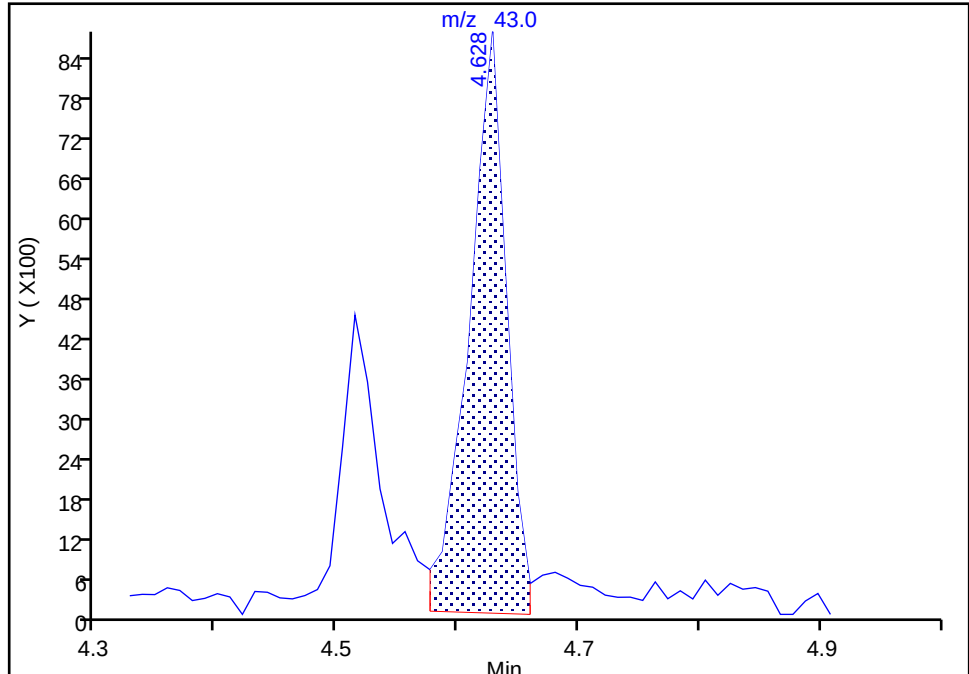
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D
Injection Date: 16-Sep-2020 14:05:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 39 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

59 n-Heptane, CAS: 142-82-5

Signal: 1

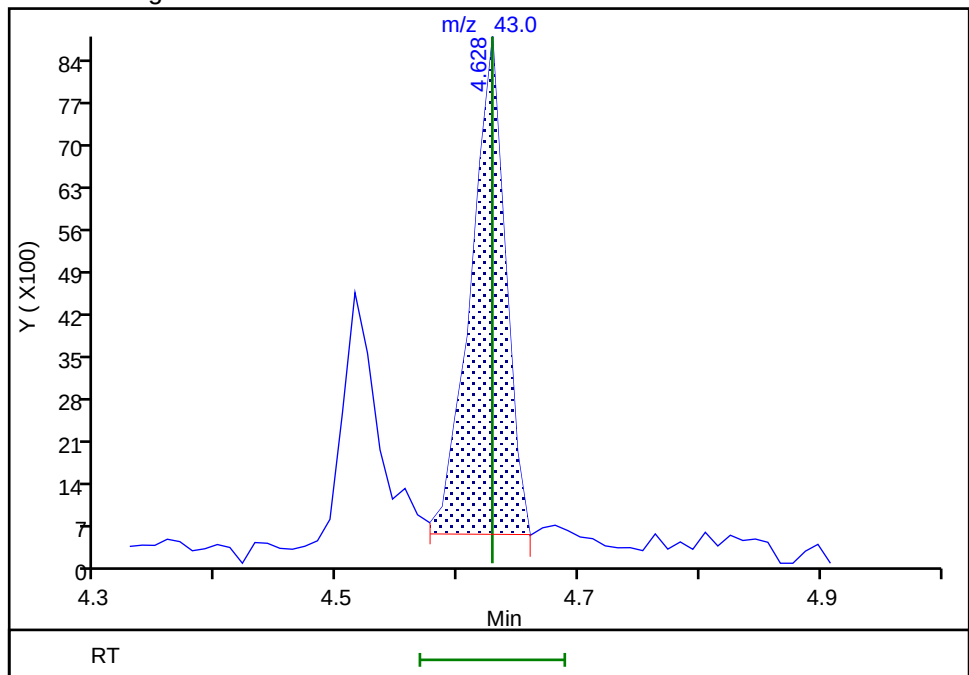
RT: 4.63
Area: 18949
Amount: 1.152932
Amount Units: ug/L

Processing Integration Results



RT: 4.63
Area: 16395
Amount: 1.017297
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:53:13

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D

Injection Date: 16-Sep-2020 14:05:30

Instrument ID: HP5975T

Lims ID: IC

Client ID:

Operator ID: RF

ALS Bottle#:

39

Worklist Smp#: 7

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

Detector: MS SCAN

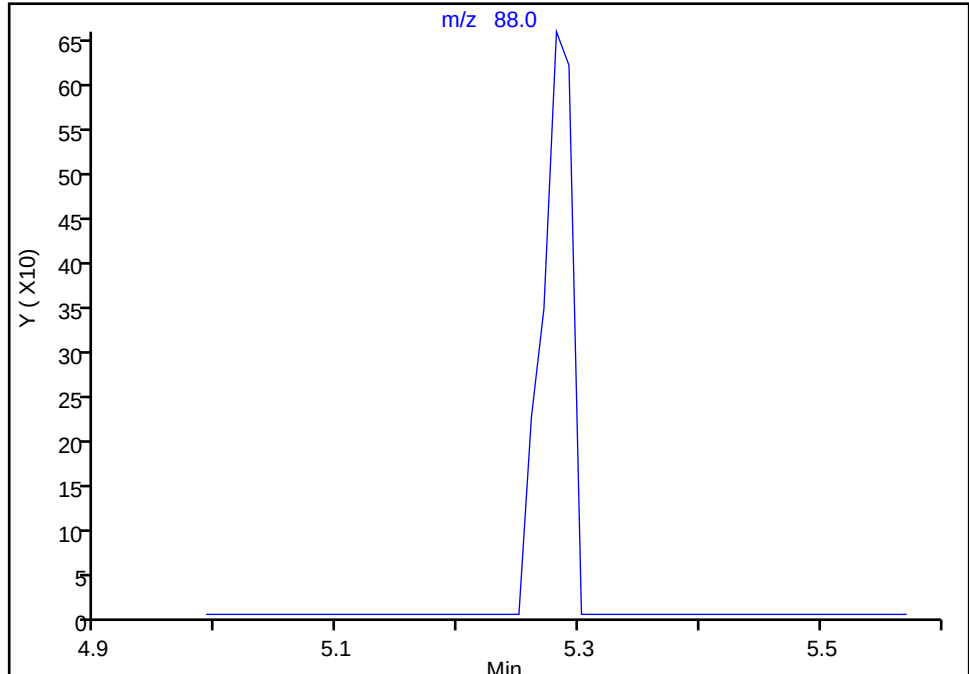
66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

Not Detected

Expected RT: 5.28

Processing Integration Results



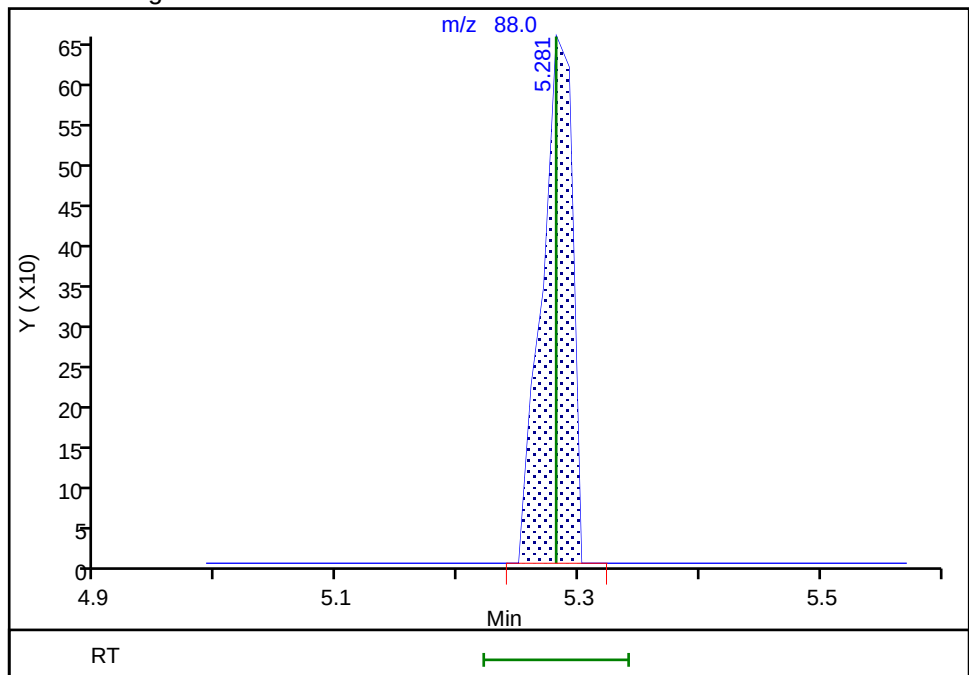
RT: 5.28

Area: 1150

Amount: 15.131664

Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:53:21

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

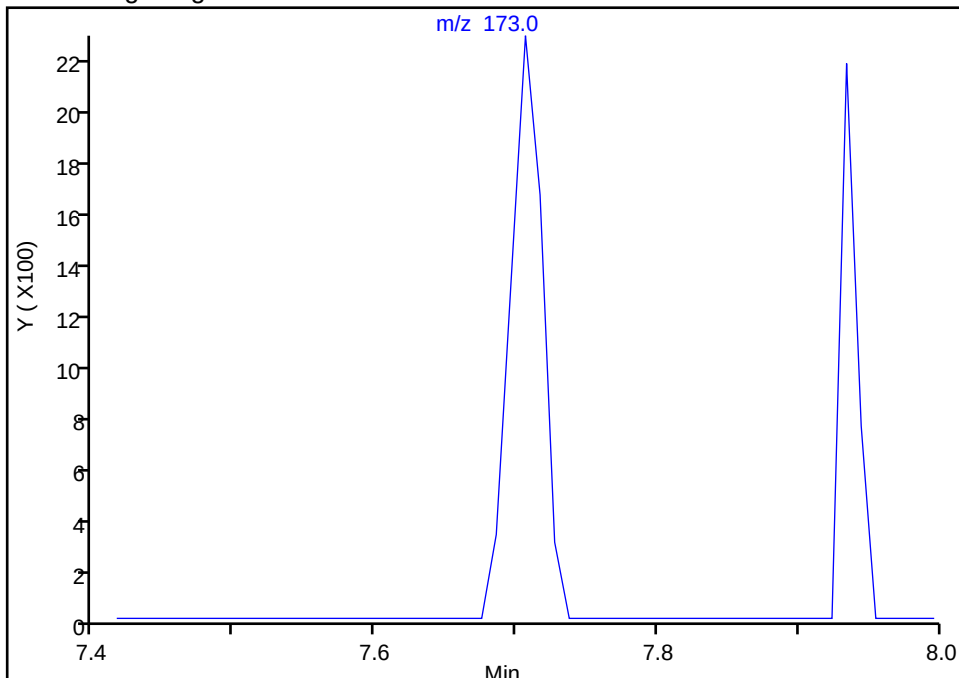
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D
Injection Date: 16-Sep-2020 14:05:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 39 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

93 Bromoform, CAS: 75-25-2

Signal: 1

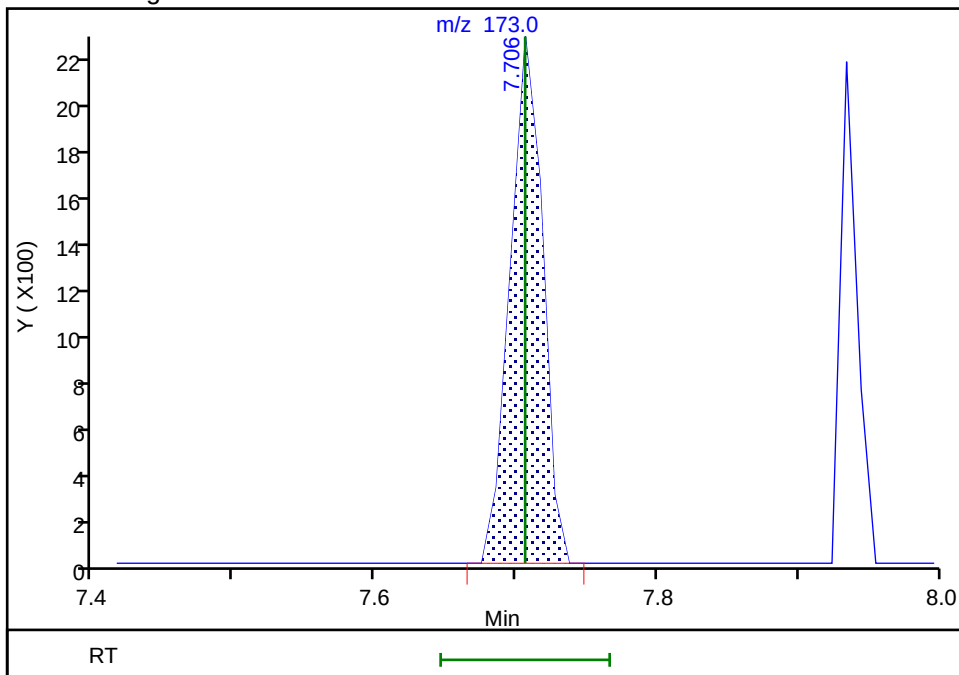
Not Detected
Expected RT: 7.71

Processing Integration Results



RT: 7.71
Area: 3660
Amount: 0.832815
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:53:39
Audit Action: Assigned Compound ID

Audit Reason: Poor chromatography
Page 173 of 897

Eurofins TestAmerica, Buffalo

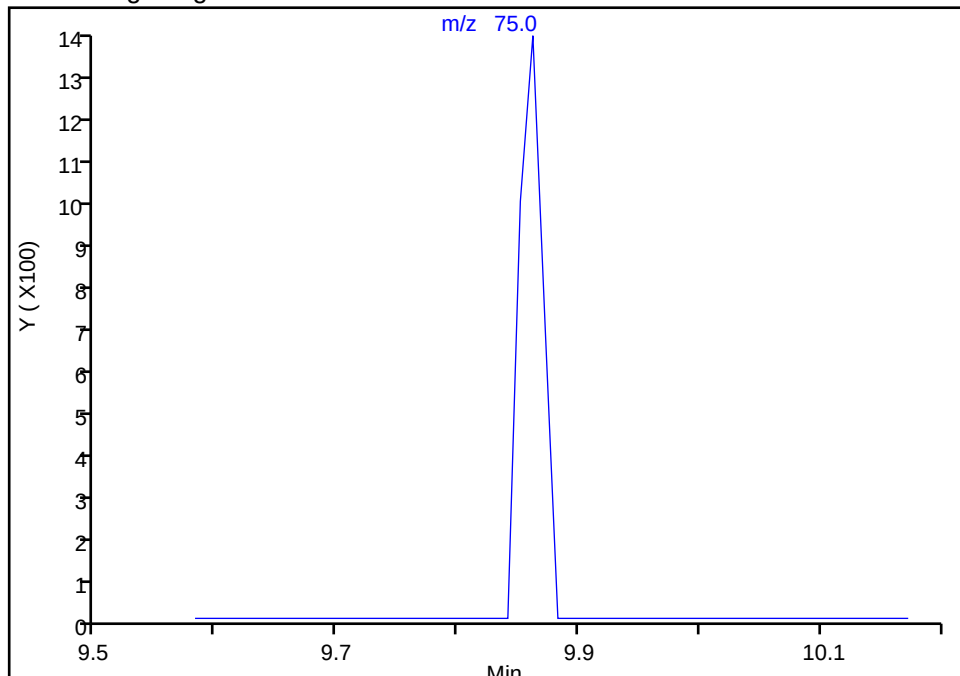
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6846.D
Injection Date: 16-Sep-2020 14:05:30 Instrument ID: HP5975T
Lims ID: IC
Client ID:
Operator ID: RF ALS Bottle#: 39 Worklist Smp#: 7
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

117 1,2-Dibromo-3-Chloropropane, CAS: 96-12-8

Signal: 1

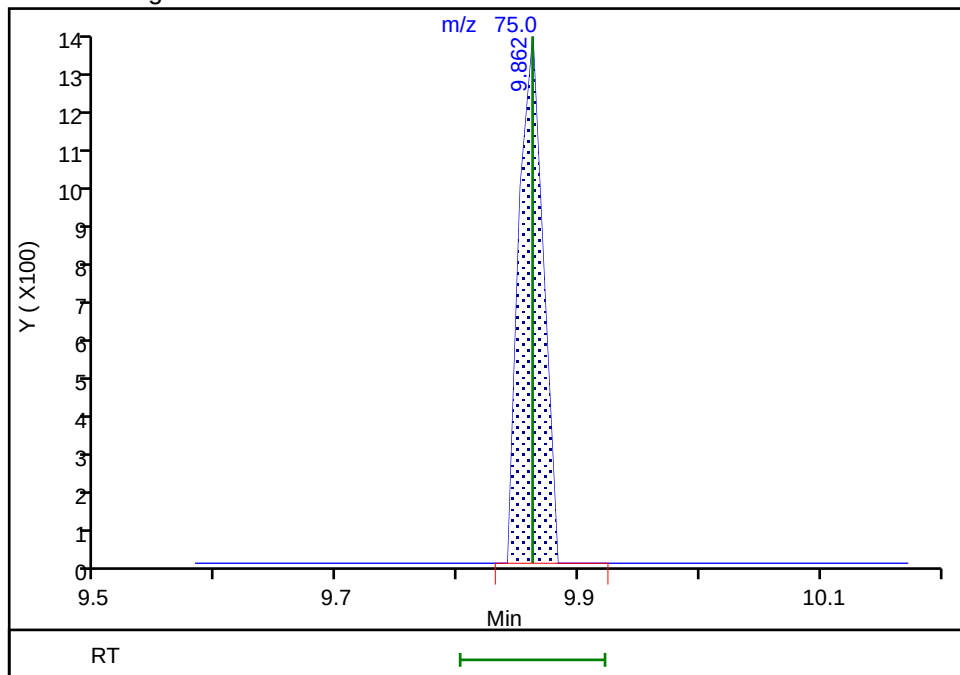
Not Detected
Expected RT: 9.86

Processing Integration Results



RT: 9.86
Area: 1831
Amount: 0.853079
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:54:03
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 174 of 897

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6847.D
 Lims ID: IC 2
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 16-Sep-2020 14:30:30 ALS Bottle#: 40 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 2
 Misc. Info.: 480-0093466-008
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:25:37 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 11:56:47

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	174800	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.001	0.001	89	599857	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.857	8.856	0.001	97	334974	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	92	200499	25.0	24.4	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	276024	25.0	24.6	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	787910	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	243413	25.0	25.3	
11 Dichlorodifluoromethane	85	1.157	1.167	-0.010	98	23058	2.00	1.81	
13 Chloromethane	50	1.312	1.322	-0.010	99	24509	2.00	1.89	
151 Butadiene	54	1.385	1.395	-0.010	92	23504	2.00	2.00	
14 Vinyl chloride	62	1.395	1.405	-0.010	97	23278	2.00	1.87	
15 Bromomethane	94	1.644	1.654	-0.010	90	14770	2.00	1.81	M
16 Chloroethane	64	1.716	1.716	0.000	97	14461	2.00	1.89	M
18 Dichlorofluoromethane	67	1.913	1.923	-0.010	95	33413	2.00	1.85	M
17 Trichlorofluoromethane	101	1.924	1.934	-0.010	80	29884	2.00	1.91	
19 Ethyl ether	59	2.162	2.162	0.000	93	18087	2.00	1.99	
21 Acrolein	56	2.338	2.338	0.000	97	11723	10.0	9.31	
22 1,1-Dichloroethene	96	2.359	2.369	-0.010	98	14428	2.00	1.87	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.359	2.379	-0.020	62	14721	2.00	1.83	
23 Acetone	43	2.473	2.483	-0.010	97	31831	10.0	8.42	
24 Iodomethane	142	2.504	2.514	-0.010	99	27214	2.00	1.92	
25 Carbon disulfide	76	2.535	2.545	-0.010	100	50670	2.00	1.85	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	88	24412	2.00	1.71	
28 Methyl acetate	43	2.742	2.742	0.000	99	35317	4.00	3.83	
30 Methylene Chloride	84	2.825	2.835	-0.010	93	25410	2.00	1.80	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	65	21198	20.0	17.4	
33 Methyl tert-butyl ether	73	3.012	3.022	-0.010	91	54358	2.00	1.78	
32 trans-1,2-Dichloroethene	96	3.022	3.032	-0.010	98	16893	2.00	1.84	
34 Acrylonitrile	53	3.084	3.084	0.000	97	83687	20.0	18.8	
35 Hexane	57	3.188	3.198	-0.010	93	26701	2.00	1.88	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.385	3.395	-0.010	96	29201	2.00	1.78	
39 Vinyl acetate	43	3.437	3.436	0.001	97	79749	4.00	3.61	
42 2,2-Dichloropropane	77	3.830	3.841	-0.011	90	23494	2.00	1.74	
43 cis-1,2-Dichloroethene	96	3.862	3.861	0.001	84	19050	2.00	1.85	
44 2-Butanone (MEK)	43	3.893	3.882	0.011	99	53237	10.0	9.40	
47 Chlorobromomethane	128	4.048	4.058	-0.010	96	8581	2.00	1.64	
48 Tetrahydrofuran	42	4.069	4.058	0.011	90	19048	4.00	4.06	
50 Chloroform	83	4.121	4.120	0.001	94	32803	2.00	1.92	
51 1,1,1-Trichloroethane	97	4.204	4.214	-0.010	89	24738	2.00	1.77	
52 Cyclohexane	56	4.214	4.214	0.000	94	29646	2.00	1.85	
53 Carbon tetrachloride	117	4.318	4.317	0.001	95	18142	2.00	1.69	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	91	22323	2.00	1.86	
55 Benzene	78	4.494	4.494	0.000	53	66669	2.00	1.86	
56 Isobutyl alcohol	43	4.514	4.514	0.000	91	21102	50.0	47.3	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	97	27883	2.00	1.82	
59 n-Heptane	43	4.628	4.628	0.000	89	29279	2.00	1.79	
60 Trichloroethene	95	4.970	4.981	-0.011	94	17564	2.00	1.85	
62 Methylcyclohexane	83	5.064	5.074	-0.010	92	27818	2.00	1.77	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	90	16774	2.00	1.77	
66 1,4-Dioxane	88	5.281	5.281	0.000	0	2220	40.0	29.5	M
65 Dibromomethane	93	5.281	5.281	0.000	94	12349	2.00	1.91	
67 Dichlorobromomethane	83	5.395	5.395	0.000	96	18752	2.00	1.69	
69 2-Chloroethyl vinyl ether	63	5.603	5.602	0.001	90	14420	2.00	1.94	
71 cis-1,3-Dichloropropene	75	5.706	5.716	-0.010	93	24920	2.00	1.68	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	108319	10.0	9.16	
73 Toluene	92	5.924	5.934	-0.010	97	41786	2.00	1.85	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	96	25185	2.00	1.78	
77 Ethyl methacrylate	69	6.172	6.172	0.000	93	24036	2.00	1.79	
78 1,1,2-Trichloroethane	83	6.286	6.286	0.000	92	13843	2.00	1.84	
79 Tetrachloroethene	166	6.328	6.328	0.000	95	17475	2.00	1.88	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	95	29112	2.00	1.89	
81 2-Hexanone	43	6.452	6.452	0.000	95	74351	10.0	8.95	
82 Chlorodibromomethane	129	6.587	6.587	0.000	92	11410	2.00	1.50	
83 Ethylene Dibromide	107	6.670	6.670	0.000	95	17576	2.00	1.95	
86 Chlorobenzene	112	7.022	7.022	0.000	94	46183	2.00	1.87	
88 Ethylbenzene	91	7.084	7.084	0.000	98	81607	2.00	1.89	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	88	13417	2.00	1.70	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	29121	2.00	1.80	
91 o-Xylene	106	7.489	7.488	0.001	97	28803	2.00	1.83	
92 Styrene	104	7.520	7.520	0.000	94	48444	2.00	1.79	
93 Bromoform	173	7.706	7.706	0.000	94	7708	2.00	1.77	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	74320	2.00	1.79	
97 Bromobenzene	156	8.048	8.048	0.000	96	20214	2.00	1.91	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.089	0.001	95	23614	2.00	1.84	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	92007	2.00	1.80	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	70	6155	2.00	1.60	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	88	7469	2.00	1.88	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	17498	2.00	1.77	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	96	64251	2.00	1.78	
102 4-Chlorotoluene	91	8.287	8.286	0.001	98	66469	2.00	1.81	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	14203	2.00	1.91	
107 1,2,4-Trimethylbenzene	105	8.546	8.556	-0.010	98	67256	2.00	1.83	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	81772	2.00	1.81	
111 4-Isopropyltoluene	119	8.805	8.794	0.011	97	72688	2.00	1.84	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	96	38171	2.00	1.86	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	41461	2.00	1.91	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	64850	2.00	1.75	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	38466	2.00	1.87	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	72	3244	2.00	1.51	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	27082	2.00	1.76	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	95	12661	2.00	1.74	
121 Naphthalene	128	10.722	10.711	0.011	97	80745	2.00	1.83	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	94	29147	2.00	1.87	
S 125 Total BTEX	1				0			9.23	
S 126 Xylenes, Total	1				0			3.63	
S 124 1,2-Dichloroethene, Total	1				0			3.69	
S 123 1,3-Dichloropropene, Total	1				0			3.47	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

GAS CORP mix_00418

Amount Added: 2.00

Units: uL

8260 CORP mix_00193

Amount Added: 2.00

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6847.D

Injection Date: 16-Sep-2020 14:30:30

Instrument ID: HP5975T

Lims ID: IC 2

Operator ID: RF

Client ID:

Worklist Smp#: 8

Purge Vol: 5.000 mL

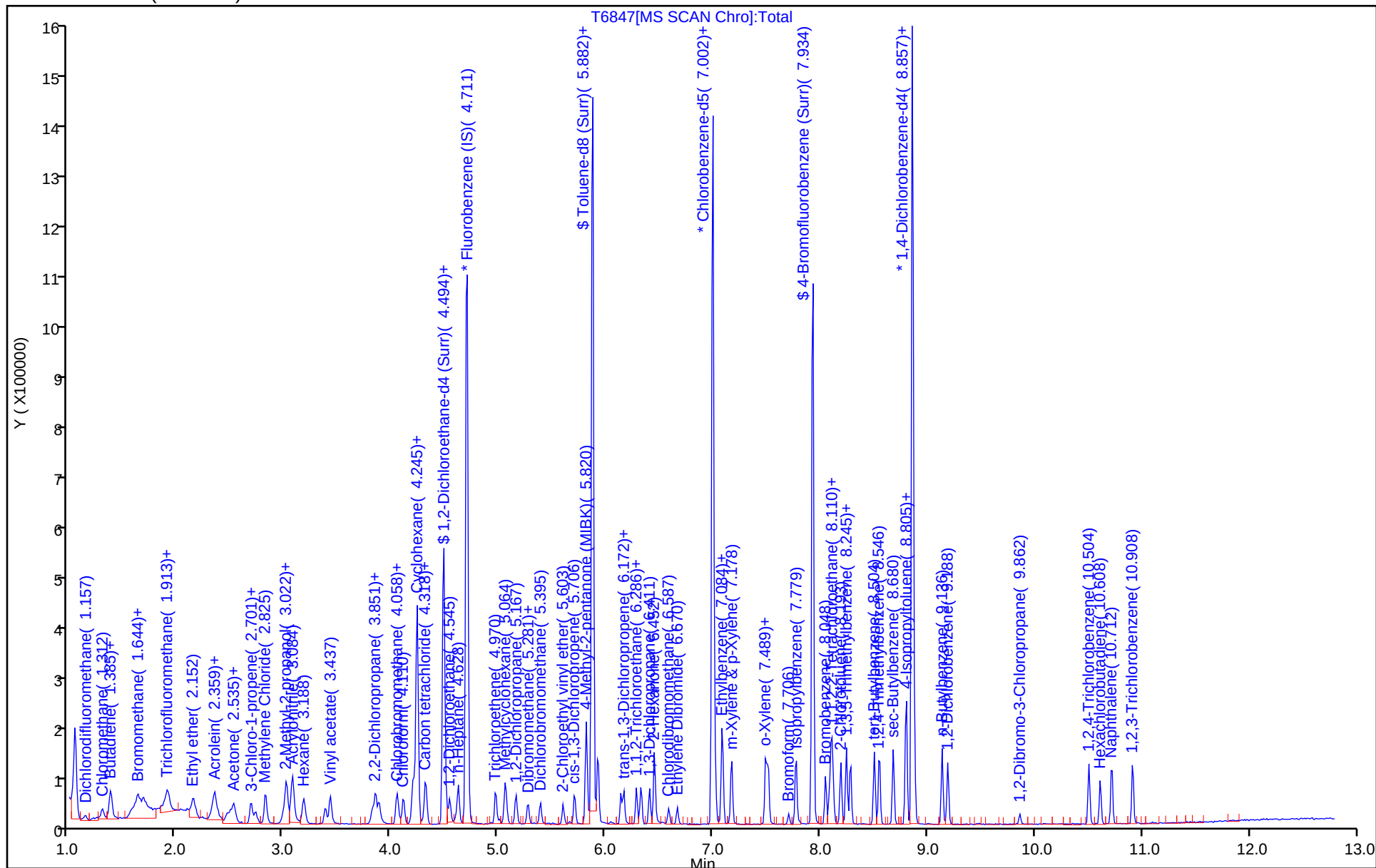
Dil. Factor: 1.0000

ALS Bottle#: 40

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

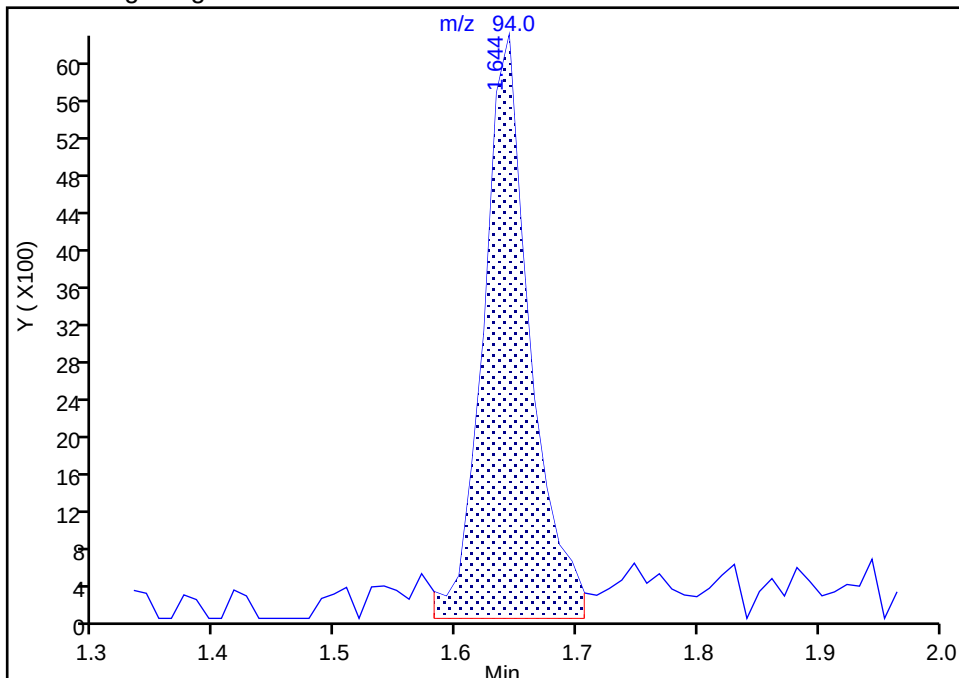
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6847.D
Injection Date: 16-Sep-2020 14:30:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 40 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

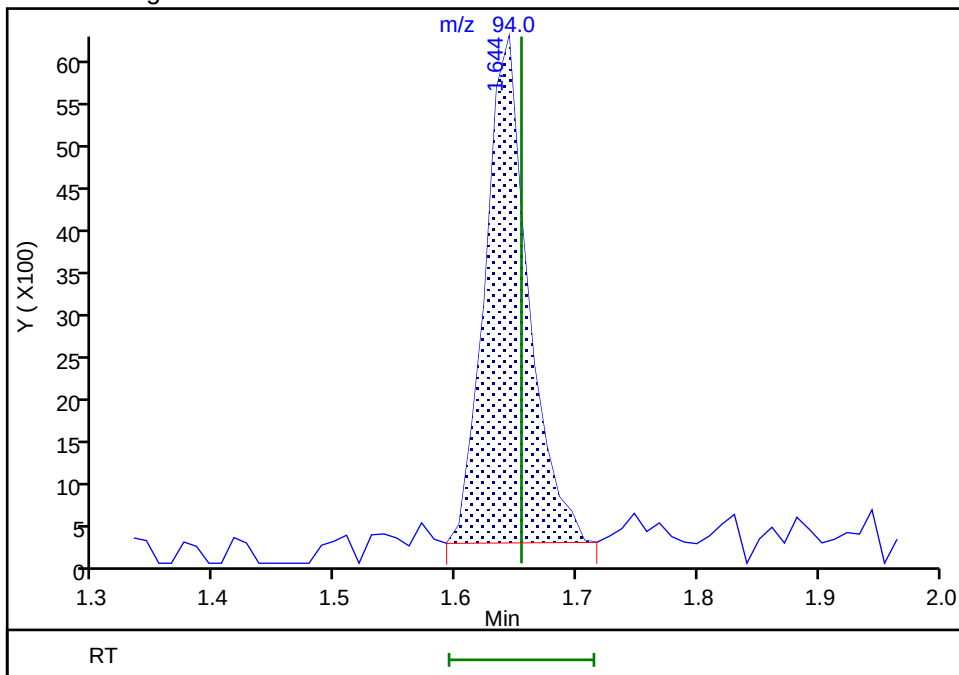
RT: 1.64
Area: 16731
Amount: 2.006434
Amount Units: ug/L

Processing Integration Results



RT: 1.64
Area: 14770
Amount: 1.809781
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:54:59

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

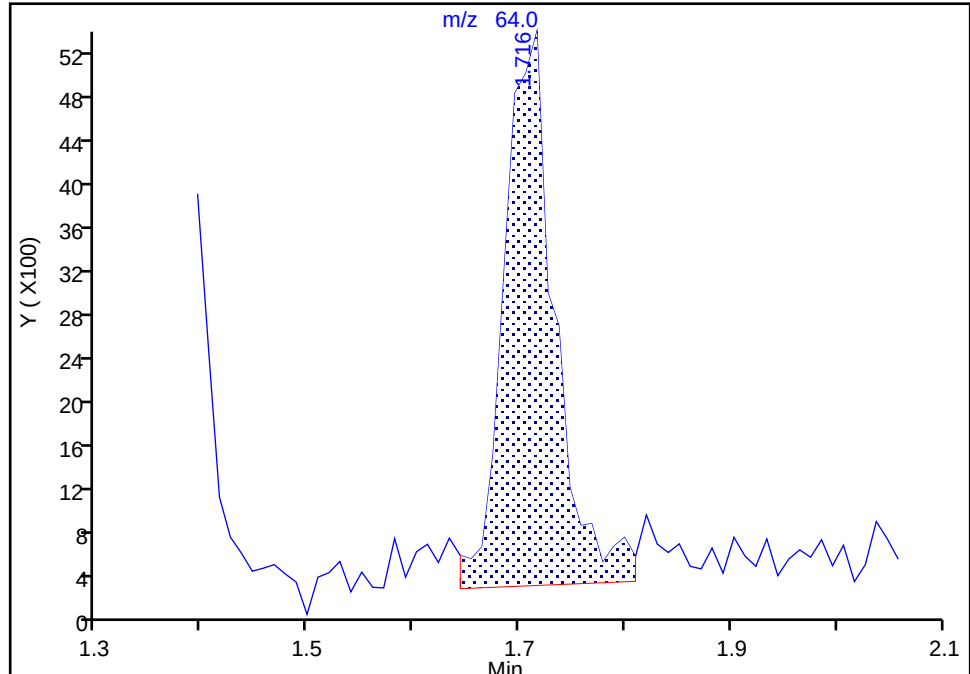
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6847.D
Injection Date: 16-Sep-2020 14:30:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 40 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

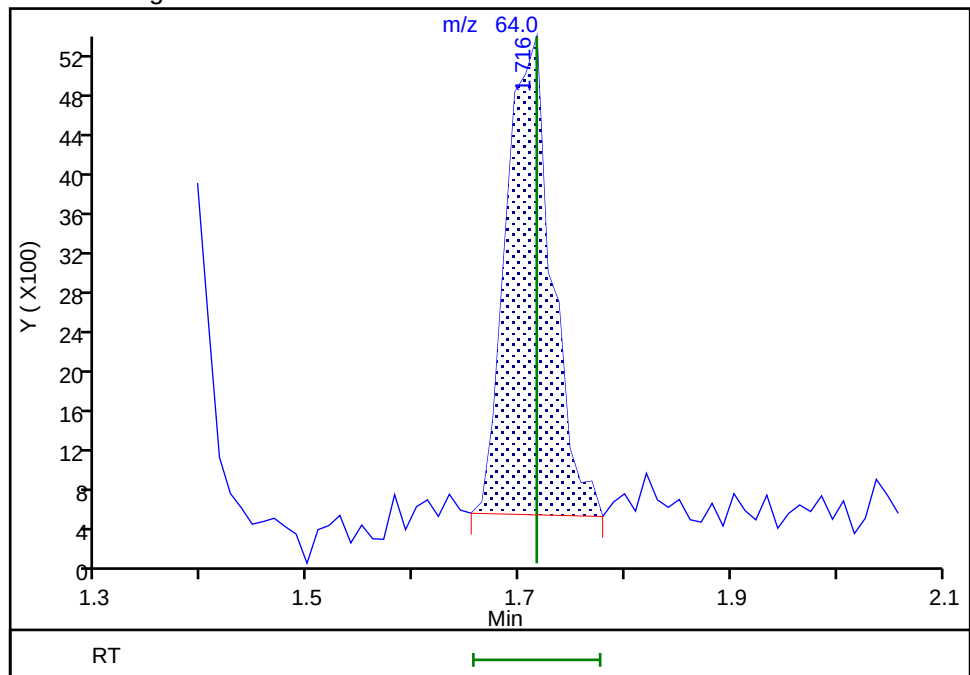
RT: 1.72
Area: 17063
Amount: 2.069987
Amount Units: ug/L

Processing Integration Results



RT: 1.72
Area: 14461
Amount: 1.892344
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:55:09

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6847.D

Injection Date: 16-Sep-2020 14:30:30

Instrument ID: HP5975T

Lims ID: IC 2

Client ID:

Operator ID: RF

ALS Bottle#:

40

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

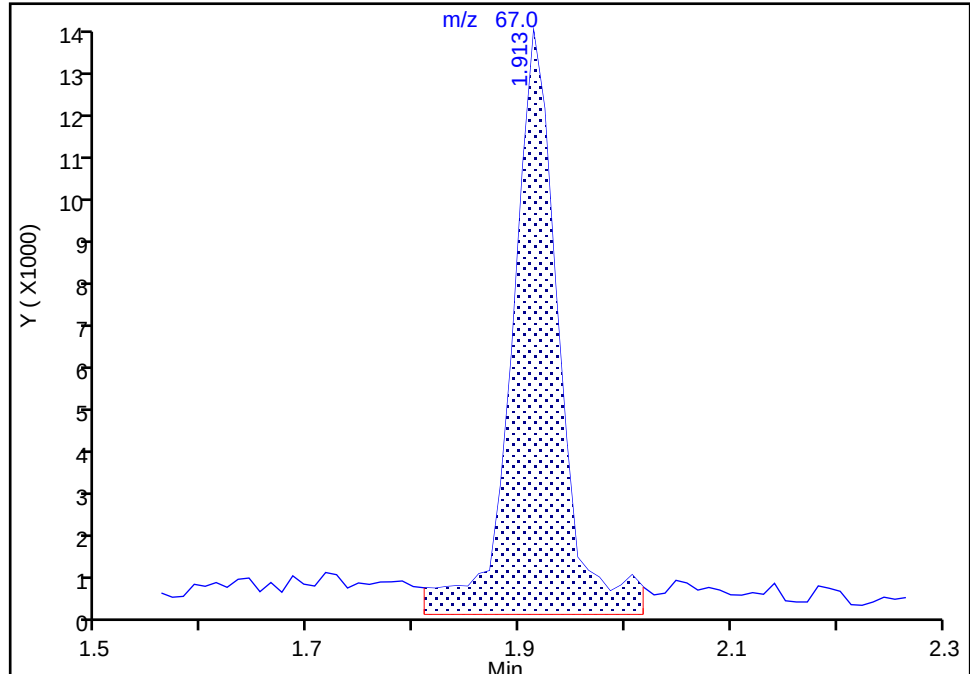
Detector: MS SCAN

18 Dichlorofluoromethane, CAS: 75-43-4

Signal: 1

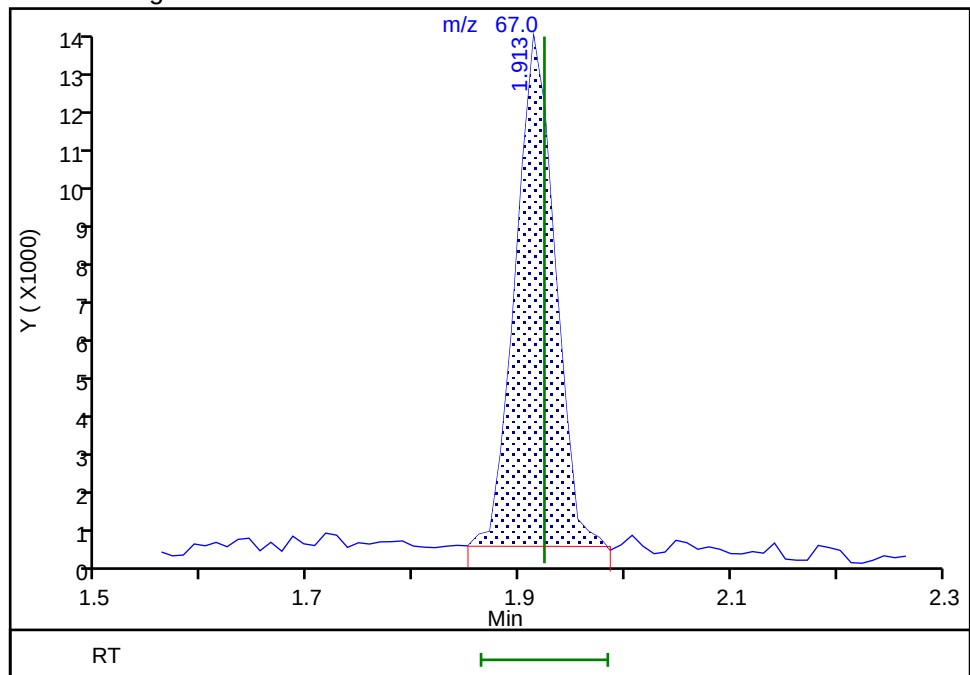
RT: 1.91
Area: 41902
Amount: 2.253786
Amount Units: ug/L

Processing Integration Results



RT: 1.91
Area: 33413
Amount: 1.849981
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:55:39

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

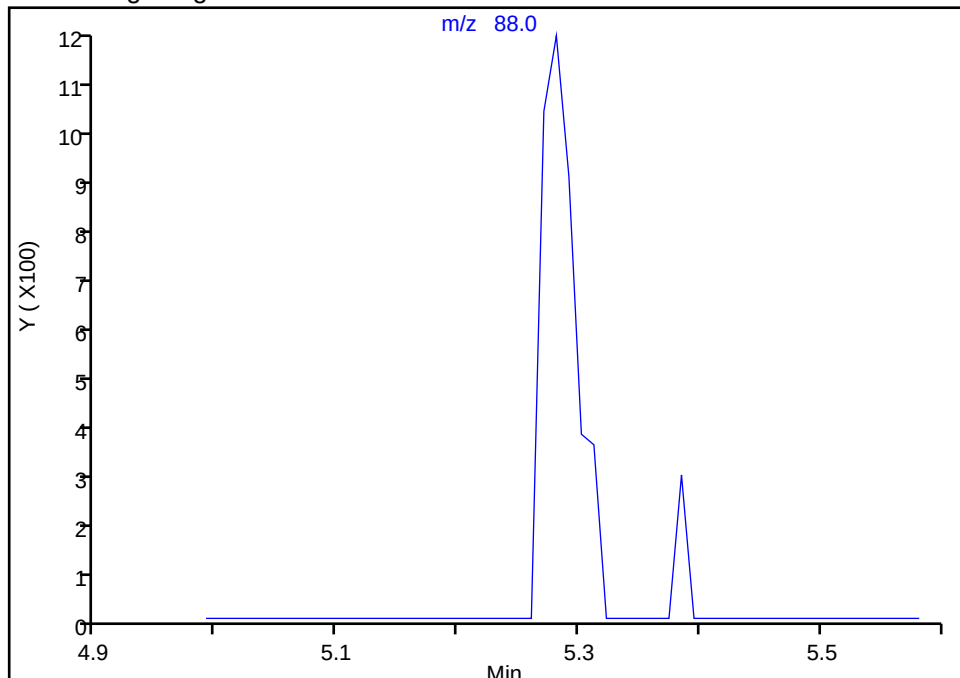
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6847.D
Injection Date: 16-Sep-2020 14:30:30 Instrument ID: HP5975T
Lims ID: IC 2
Client ID:
Operator ID: RF ALS Bottle#: 40 Worklist Smp#: 8
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

66 1,4-Dioxane, CAS: 123-91-1

Signal: 1

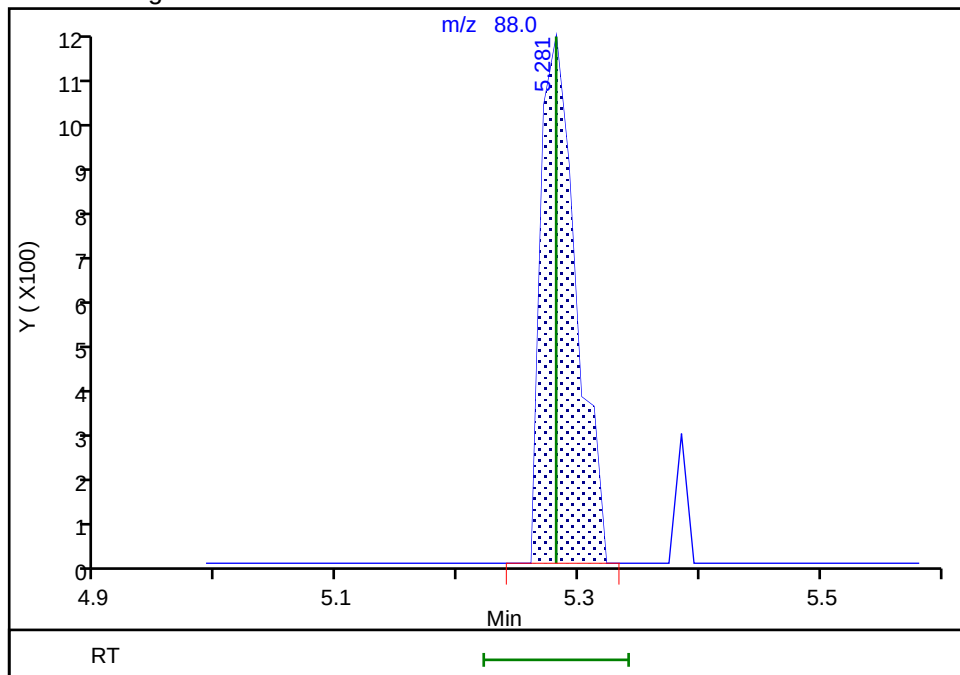
Not Detected
Expected RT: 5.28

Processing Integration Results



RT: 5.28
Area: 2220
Amount: 29.454561
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:56:13
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 182 of 897

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6848.D
 Lims ID: IC 3
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Sep-2020 14:54:30 ALS Bottle#: 41 Worklist Smp#: 9
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 3
 Misc. Info.: 480-0093466-009
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:25:43 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 11:58:50

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	172928	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.001	0.001	88	603859	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.857	8.856	0.001	96	334465	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	93	200501	25.0	24.7	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	280342	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	797085	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	239306	25.0	24.7	
11 Dichlorodifluoromethane	85	1.157	1.167	-0.010	99	63320	5.00	5.02	
13 Chloromethane	50	1.312	1.322	-0.010	98	64804	5.00	5.06	
151 Butadiene	54	1.385	1.395	-0.010	93	61431	5.00	5.27	
14 Vinyl chloride	62	1.385	1.405	-0.020	98	60789	5.00	4.93	
15 Bromomethane	94	1.644	1.654	-0.010	90	38401	5.00	4.76	M
16 Chloroethane	64	1.696	1.716	-0.020	98	36889	5.00	4.88	M
18 Dichlorofluoromethane	67	1.913	1.923	-0.010	96	89097	5.00	4.99	
17 Trichlorofluoromethane	101	1.913	1.934	-0.021	67	80323	5.00	5.19	
19 Ethyl ether	59	2.152	2.162	-0.010	96	44054	5.00	4.89	
21 Acrolein	56	2.328	2.338	-0.010	98	29785	25.0	23.9	
22 1,1-Dichloroethene	96	2.359	2.369	-0.010	96	35444	5.00	4.64	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.359	2.379	-0.020	57	37903	5.00	4.76	
23 Acetone	43	2.473	2.483	-0.010	98	90343	25.0	24.1	
24 Iodomethane	142	2.504	2.514	-0.010	99	68106	5.00	4.86	
25 Carbon disulfide	76	2.535	2.545	-0.010	100	123534	5.00	4.57	
27 3-Chloro-1-propene	41	2.691	2.701	-0.010	87	66089	5.00	4.67	
28 Methyl acetate	43	2.732	2.742	-0.010	98	94601	10.0	10.4	
30 Methylene Chloride	84	2.825	2.835	-0.010	97	54260	5.00	4.75	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	98	65039	50.0	53.8	
33 Methyl tert-butyl ether	73	3.012	3.022	-0.010	98	149030	5.00	4.93	
32 trans-1,2-Dichloroethene	96	3.022	3.032	-0.010	97	43450	5.00	4.79	
34 Acrylonitrile	53	3.084	3.084	0.000	97	219458	50.0	49.9	
35 Hexane	57	3.188	3.198	-0.010	94	63573	5.00	4.52	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.385	3.395	-0.010	97	76835	5.00	4.72	
39 Vinyl acetate	43	3.437	3.436	0.001	98	211631	10.0	9.69	
42 2,2-Dichloropropane	77	3.830	3.841	-0.011	92	63156	5.00	4.72	
43 cis-1,2-Dichloroethene	96	3.862	3.861	0.001	84	47509	5.00	4.65	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	136499	25.0	24.4	
48 Tetrahydrofuran	42	4.058	4.058	0.000	86	42193	10.0	10.2	
47 Chlorobromomethane	128	4.058	4.058	0.000	97	24932	5.00	4.82	
50 Chloroform	83	4.110	4.120	-0.010	95	76869	5.00	4.56	
51 1,1,1-Trichloroethane	97	4.204	4.214	-0.010	97	61666	5.00	4.46	
52 Cyclohexane	56	4.214	4.214	0.000	93	73068	5.00	4.61	
53 Carbon tetrachloride	117	4.318	4.317	0.001	96	46675	5.00	4.40	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	93	56566	5.00	4.75	
55 Benzene	78	4.494	4.494	0.000	72	172589	5.00	4.86	
56 Isobutyl alcohol	43	4.514	4.514	0.000	95	55448	125.0	125.7	
57 1,2-Dichloroethane	62	4.546	4.545	0.001	97	73896	5.00	4.86	
59 n-Heptane	43	4.628	4.628	0.000	93	73899	5.00	4.57	
60 Trichloroethene	95	4.970	4.981	-0.011	95	42691	5.00	4.54	
62 Methylcyclohexane	83	5.064	5.074	-0.010	93	72514	5.00	4.66	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	92	46394	5.00	4.93	
65 Dibromomethane	93	5.271	5.281	-0.010	96	31056	5.00	4.86	
66 1,4-Dioxane	88	5.271	5.281	-0.010	35	7697	100.0	101.4	
67 Dichlorobromomethane	83	5.395	5.395	0.000	97	49887	5.00	4.55	
69 2-Chloroethyl vinyl ether	63	5.603	5.602	0.001	93	35506	5.00	4.82	
71 cis-1,3-Dichloropropene	75	5.706	5.716	-0.010	93	73143	5.00	4.99	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	303140	25.0	25.5	
73 Toluene	92	5.924	5.934	-0.010	98	109034	5.00	4.79	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	97	68789	5.00	4.84	
77 Ethyl methacrylate	69	6.173	6.172	0.000	90	64002	5.00	4.74	
78 1,1,2-Trichloroethane	83	6.287	6.286	0.000	94	36553	5.00	4.82	
79 Tetrachloroethene	166	6.328	6.328	0.000	97	43772	5.00	4.67	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	92	75743	5.00	4.87	
81 2-Hexanone	43	6.452	6.452	0.000	95	214625	25.0	25.7	
82 Chlorodibromomethane	129	6.587	6.587	0.000	88	33864	5.00	4.42	
83 Ethylene Dibromide	107	6.670	6.670	0.000	100	43336	5.00	4.78	
86 Chlorobenzene	112	7.022	7.022	0.000	93	121860	5.00	4.90	
88 Ethylbenzene	91	7.084	7.084	0.000	99	204709	5.00	4.72	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	90	36315	5.00	4.56	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	81119	5.00	4.98	
91 o-Xylene	106	7.489	7.488	0.001	99	76753	5.00	4.85	
92 Styrene	104	7.520	7.520	0.000	95	135866	5.00	4.99	
93 Bromoform	173	7.706	7.706	0.000	95	19706	5.00	4.49	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	203407	5.00	4.90	
97 Bromobenzene	156	8.048	8.048	0.000	97	53817	5.00	5.09	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.089	0.001	94	60284	5.00	4.71	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	245806	5.00	4.82	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	83	18187	5.00	4.74	
100 1,2,3-Trichloropropane	110	8.110	8.121	-0.011	89	20221	5.00	5.09	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	47367	5.00	4.81	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	95	176275	5.00	4.89	
102 4-Chlorotoluene	91	8.287	8.286	0.001	98	174222	5.00	4.76	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	36775	5.00	4.96	
107 1,2,4-Trimethylbenzene	105	8.546	8.556	-0.010	98	179494	5.00	4.89	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	222731	5.00	4.93	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	191183	5.00	4.84	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	97	102668	5.00	5.00	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	95	106797	5.00	4.94	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	181795	5.00	4.90	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	102731	5.00	5.01	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	77	9470	5.00	4.41	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	79705	5.00	5.19	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	96	35028	5.00	4.83	
121 Naphthalene	128	10.712	10.711	0.001	98	225401	5.00	5.12	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	94	80055	5.00	5.14	
S 125 Total BTEX	1				0			24.2	
S 126 Xylenes, Total	1				0			9.83	
S 124 1,2-Dichloroethene, Total	1				0			9.44	
S 123 1,3-Dichloropropene, Total	1				0			9.83	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00193

Amount Added: 5.00

Units: uL

GAS CORP mix_00418

Amount Added: 5.00

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6848.D

Injection Date: 16-Sep-2020 14:54:30

Instrument ID: HP5975T

Lims ID: IC 3

Operator ID: RF

Client ID:

Worklist Smp#: 9

Purge Vol: 5.000 mL

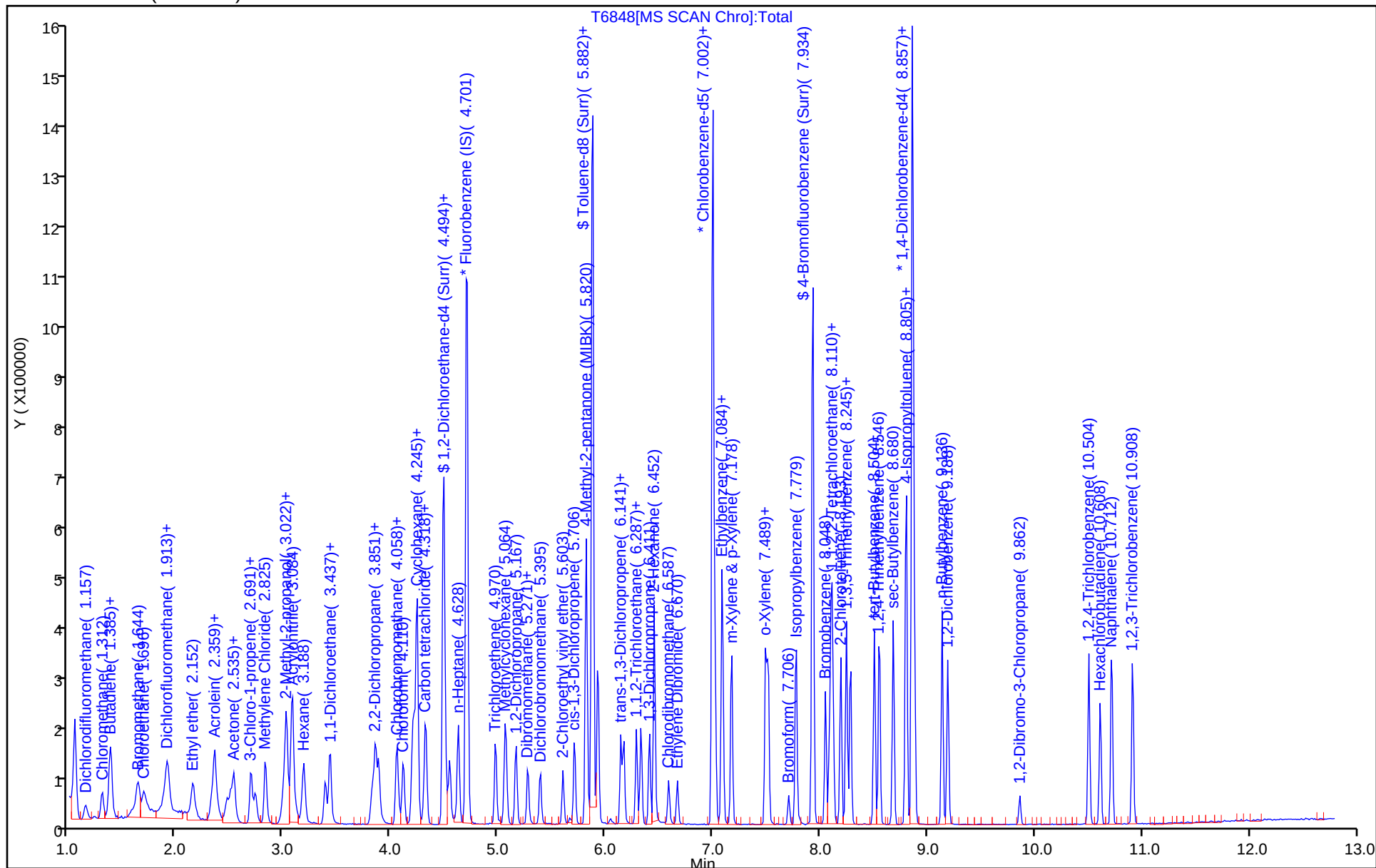
Dil. Factor: 1.0000

ALS Bottle#: 41

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

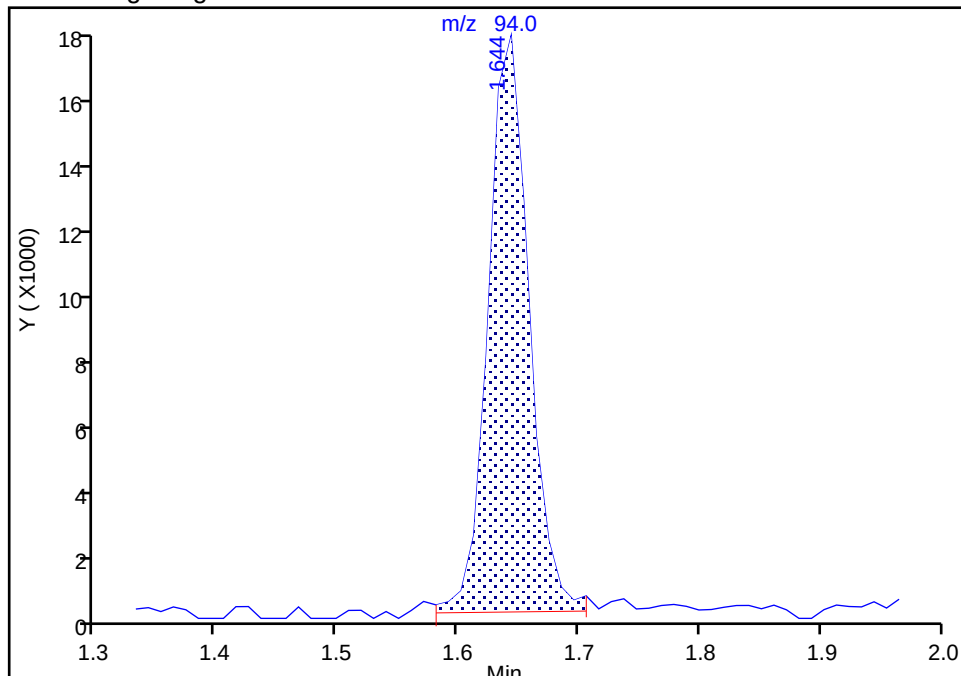
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6848.D
Injection Date: 16-Sep-2020 14:54:30 Instrument ID: HP5975T
Lims ID: IC 3
Client ID:
Operator ID: RF ALS Bottle#: 41 Worklist Smp#: 9
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

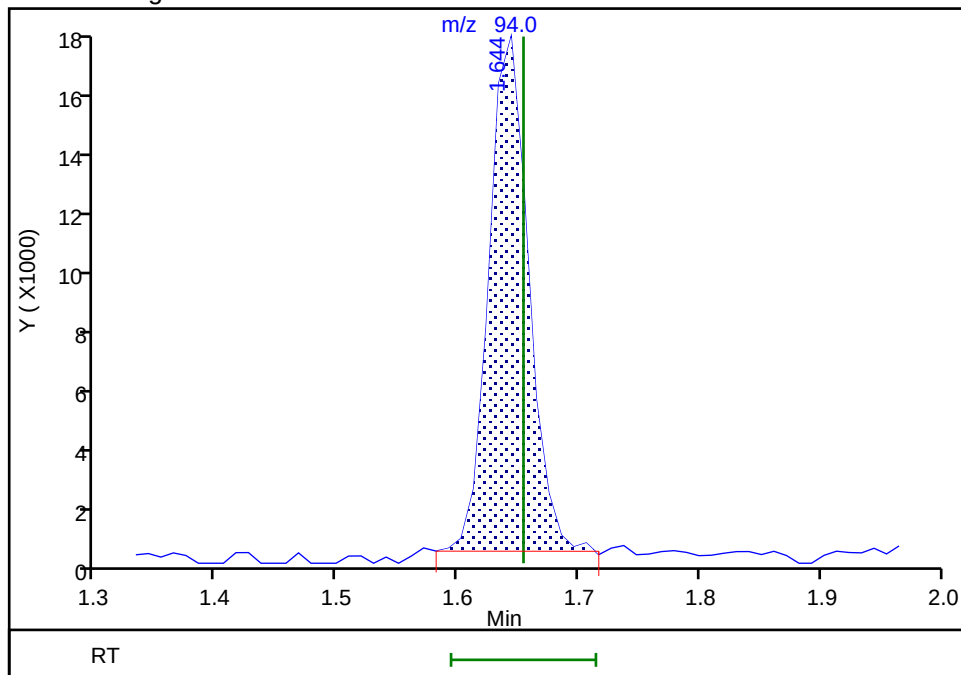
RT: 1.64
Area: 40123
Amount: 4.936319
Amount Units: ug/L

Processing Integration Results



RT: 1.64
Area: 38401
Amount: 4.756244
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 11:57:40
Audit Action: Manually Integrated

Audit Reason: Poor chromatography
Page 187 of 897

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6848.D

Injection Date: 16-Sep-2020 14:54:30

Instrument ID: HP5975T

Lims ID: IC 3

Client ID:

Operator ID: RF

ALS Bottle#:

41

Worklist Smp#: 9

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

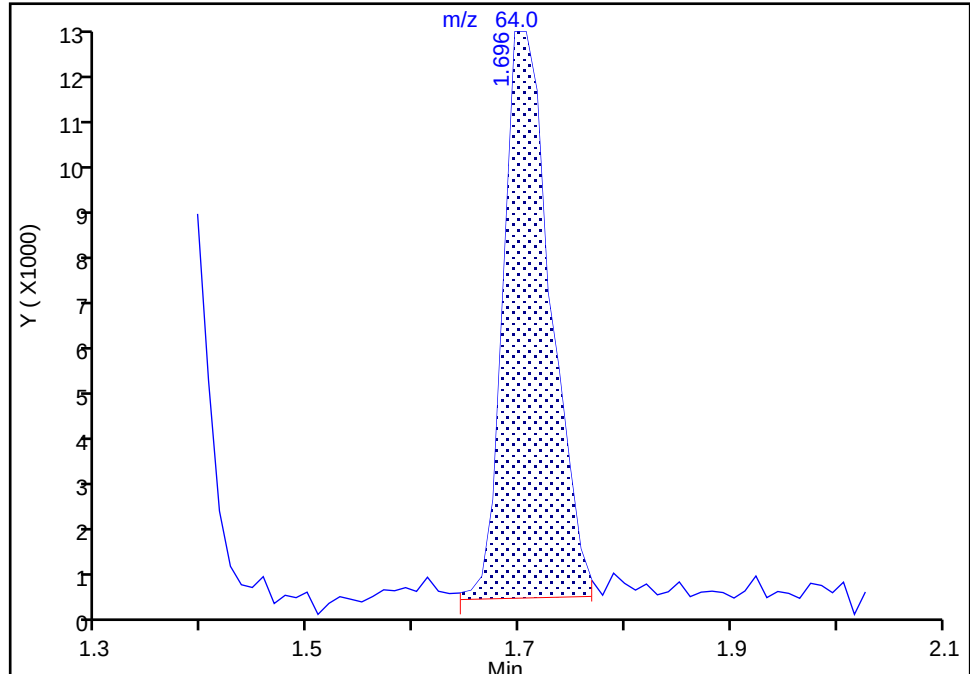
Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

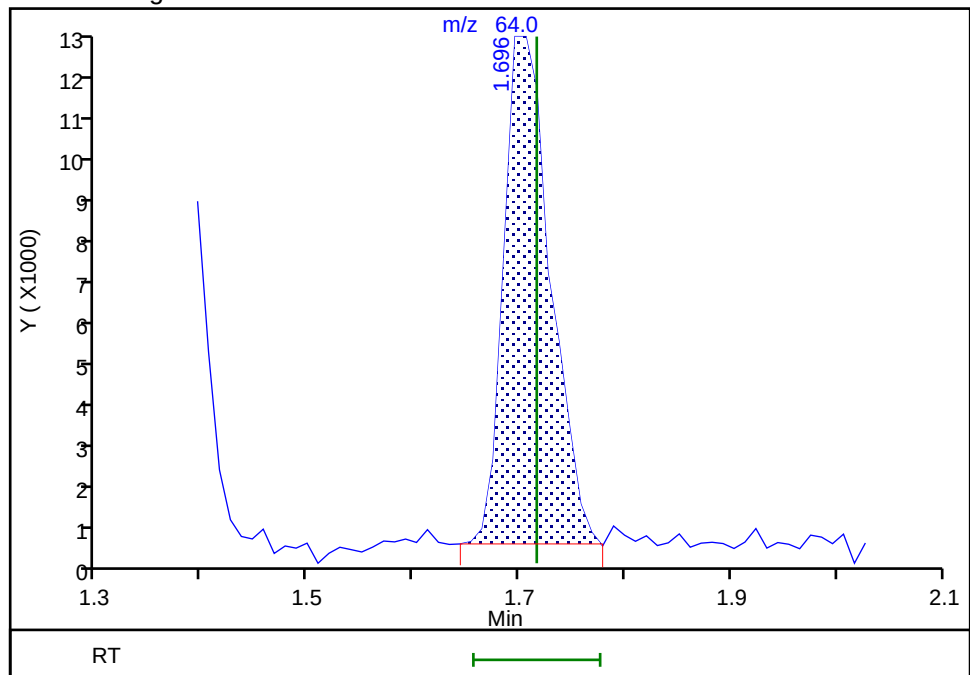
RT: 1.70
Area: 37782
Amount: 4.961338
Amount Units: ug/L

Processing Integration Results



RT: 1.70
Area: 36889
Amount: 4.879495
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 12:01:37

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6849.D
 Lims ID: IC 4
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Sep-2020 15:18:30 ALS Bottle#: 42 Worklist Smp#: 10
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 4
 Misc. Info.: 480-0093466-010
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:25:51 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 12:01:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	175017	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.001	0.001	89	608725	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.857	8.856	0.001	96	332739	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	92	201884	25.0	24.6	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	280647	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	796322	25.0	24.8	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	241518	25.0	24.8	
11 Dichlorodifluoromethane	85	1.167	1.167	0.000	98	132729	10.0	10.4	
13 Chloromethane	50	1.312	1.322	-0.010	99	133664	10.0	10.3	
151 Butadiene	54	1.395	1.395	0.000	95	109259	10.0	9.26	
14 Vinyl chloride	62	1.395	1.405	-0.010	98	120271	10.0	9.64	
15 Bromomethane	94	1.644	1.654	-0.010	91	80771	10.0	9.88	M
16 Chloroethane	64	1.716	1.716	0.000	100	74689	10.0	9.76	M
18 Dichlorofluoromethane	67	1.924	1.923	0.001	96	171082	10.0	9.46	
17 Trichlorofluoromethane	101	1.924	1.934	-0.010	69	154584	10.0	9.87	
19 Ethyl ether	59	2.162	2.162	0.000	91	90967	10.0	9.99	
21 Acrolein	56	2.338	2.338	0.000	98	64907	50.0	51.5	
22 1,1-Dichloroethene	96	2.369	2.369	0.000	95	78045	10.0	10.1	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.379	-0.010	56	83434	10.0	10.4	
23 Acetone	43	2.473	2.483	-0.010	100	177991	50.0	47.0	
24 Iodomethane	142	2.514	2.514	0.000	99	147601	10.0	10.4	
25 Carbon disulfide	76	2.545	2.545	0.000	100	284501	10.0	10.4	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	88	139684	10.0	9.75	
28 Methyl acetate	43	2.742	2.742	0.000	98	181002	20.0	19.6	
30 Methylene Chloride	84	2.836	2.835	0.001	95	103640	10.0	9.64	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	98	122999	100.0	100.6	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	99	307712	10.0	10.0	
32 trans-1,2-Dichloroethene	96	3.033	3.032	0.001	96	93160	10.0	10.1	
34 Acrylonitrile	53	3.084	3.084	0.000	99	454252	100.0	102.0	
35 Hexane	57	3.188	3.198	-0.010	93	143962	10.0	10.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.395	3.395	0.000	96	165941	10.0	10.1	
39 Vinyl acetate	43	3.437	3.436	0.001	97	433046	20.0	19.6	
42 2,2-Dichloropropane	77	3.831	3.841	-0.011	91	139248	10.0	10.3	
43 cis-1,2-Dichloroethene	96	3.862	3.861	0.001	83	105100	10.0	10.2	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	99	282605	50.0	49.8	
47 Chlorobromomethane	128	4.048	4.058	-0.010	97	54384	10.0	10.4	
48 Tetrahydrofuran	42	4.069	4.058	0.011	89	78113	20.0	19.4	
50 Chloroform	83	4.121	4.120	0.001	95	168500	10.0	9.87	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	92	139827	10.0	9.98	
52 Cyclohexane	56	4.214	4.214	0.000	91	163836	10.0	10.2	
53 Carbon tetrachloride	117	4.318	4.317	0.001	94	108477	10.0	10.1	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	93	125892	10.0	10.5	
55 Benzene	78	4.494	4.494	0.000	93	365636	10.0	10.2	
56 Isobutyl alcohol	43	4.514	4.514	0.000	94	105935	250.0	237.2	
57 1,2-Dichloroethane	62	4.546	4.545	0.001	97	151657	10.0	9.87	
59 n-Heptane	43	4.628	4.628	0.000	90	154822	10.0	9.45	
60 Trichloroethene	95	4.981	4.981	0.000	96	97097	10.0	10.2	
62 Methylcyclohexane	83	5.064	5.074	-0.010	92	167697	10.0	10.7	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	92	96218	10.0	10.1	
66 1,4-Dioxane	88	5.281	5.281	0.000	35	16583	200.0	216.8	
65 Dibromomethane	93	5.281	5.281	0.000	94	63869	10.0	9.88	
67 Dichlorobromomethane	83	5.395	5.395	0.000	97	107396	10.0	9.68	
69 2-Chloroethyl vinyl ether	63	5.603	5.602	0.001	93	73973	10.0	9.92	
71 cis-1,3-Dichloropropene	75	5.706	5.716	-0.010	92	147139	10.0	9.92	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	620878	50.0	51.7	
73 Toluene	92	5.934	5.934	0.000	98	235308	10.0	10.3	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	97	140003	10.0	9.78	
77 Ethyl methacrylate	69	6.173	6.172	0.001	89	139678	10.0	10.3	
78 1,1,2-Trichloroethane	83	6.287	6.286	0.001	93	74435	10.0	9.73	
79 Tetrachloroethene	166	6.328	6.328	0.000	95	97640	10.0	10.3	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	93	154734	10.0	9.88	
81 2-Hexanone	43	6.452	6.452	0.000	95	440232	50.0	52.2	
82 Chlorodibromomethane	129	6.587	6.587	0.000	90	75333	10.0	9.75	
83 Ethylene Dibromide	107	6.670	6.670	0.000	97	94801	10.0	10.4	
86 Chlorobenzene	112	7.022	7.022	0.000	93	254079	10.0	10.1	
88 Ethylbenzene	91	7.085	7.084	0.000	99	454137	10.0	10.4	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	90	78927	10.0	9.84	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	172739	10.0	10.5	
91 o-Xylene	106	7.489	7.488	0.001	99	164658	10.0	10.3	
92 Styrene	104	7.520	7.520	0.000	95	279168	10.0	10.2	
93 Bromoform	173	7.706	7.706	0.000	94	44242	10.0	10.0	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	434512	10.0	10.5	
97 Bromobenzene	156	8.048	8.048	0.000	98	107129	10.0	10.2	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.089	0.001	96	131294	10.0	10.3	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	534510	10.0	10.5	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	81	38421	10.0	10.1	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	89	42456	10.0	10.7	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	101336	10.0	10.3	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	95	377233	10.0	10.5	
102 4-Chlorotoluene	91	8.287	8.286	0.001	98	380927	10.0	10.5	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	75716	10.0	10.3	
107 1,2,4-Trimethylbenzene	105	8.556	8.556	0.000	98	388314	10.0	10.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	475347	10.0	10.6	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	408392	10.0	10.4	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	97	214115	10.0	10.5	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	219820	10.0	10.2	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	401924	10.0	10.9	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	209351	10.0	10.3	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	80	20856	10.0	9.77	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	161125	10.0	10.6	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	97	75064	10.0	10.4	
121 Naphthalene	128	10.712	10.711	0.001	98	457834	10.0	10.4	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	95	158656	10.0	10.2	
S 125 Total BTEX	1				0			51.7	
S 126 Xylenes, Total	1				0			20.8	
S 124 1,2-Dichloroethene, Total	1				0			20.3	
S 123 1,3-Dichloropropene, Total	1				0			19.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00193

Amount Added: 5.00

Units: uL

GAS CORP mix_00418

Amount Added: 5.00

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6849.D

Injection Date: 16-Sep-2020 15:18:30

Instrument ID: HP5975T

Lims ID: IC 4

Operator ID: RF

Client ID:

Worklist Smp#: 10

Purge Vol: 5.000 mL

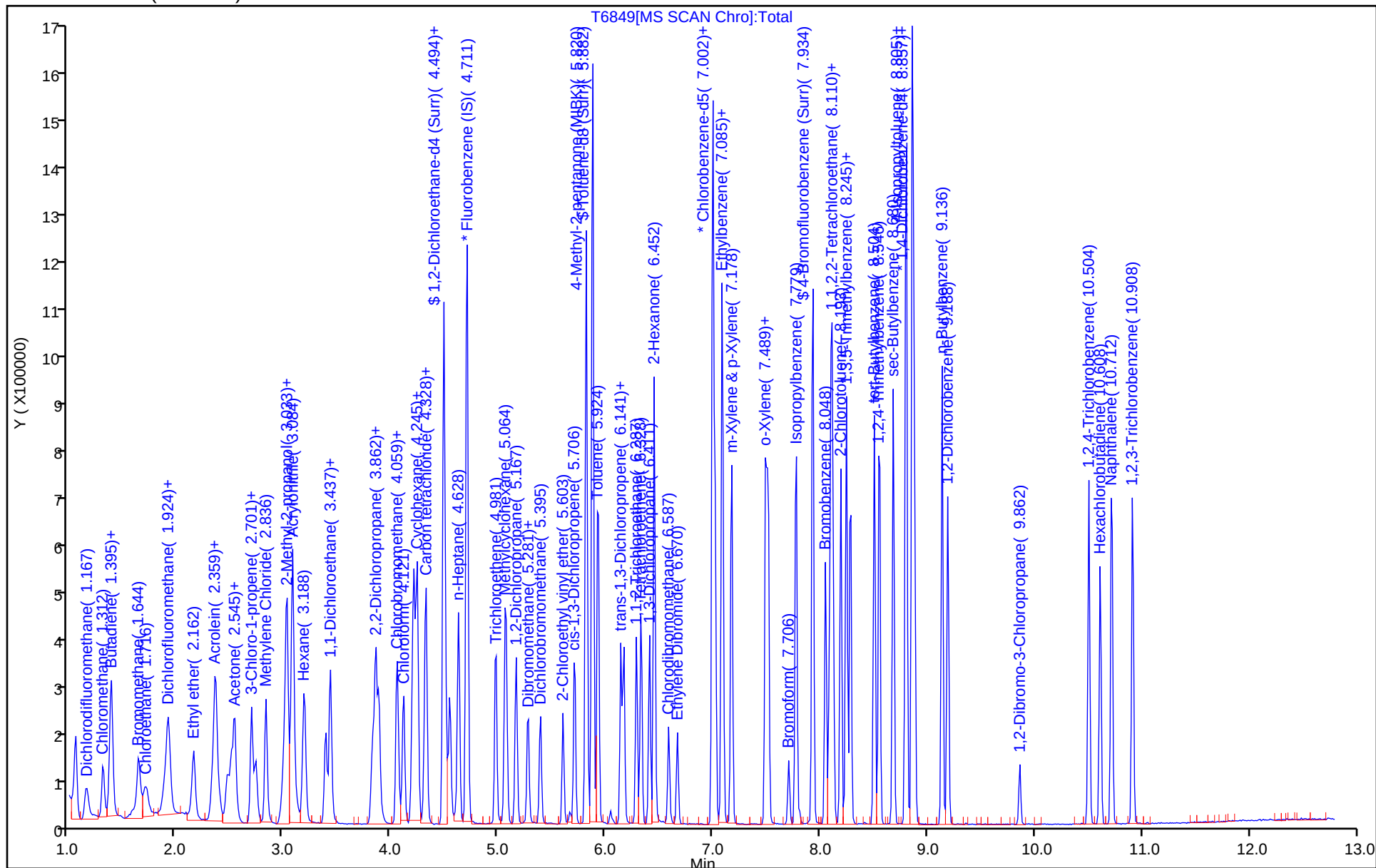
Dil. Factor: 1.0000

ALS Bottle#: 42

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6849.D

Injection Date: 16-Sep-2020 15:18:30

Instrument ID: HP5975T

Lims ID: IC 4

Client ID:

Operator ID: RF

ALS Bottle#:

42

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

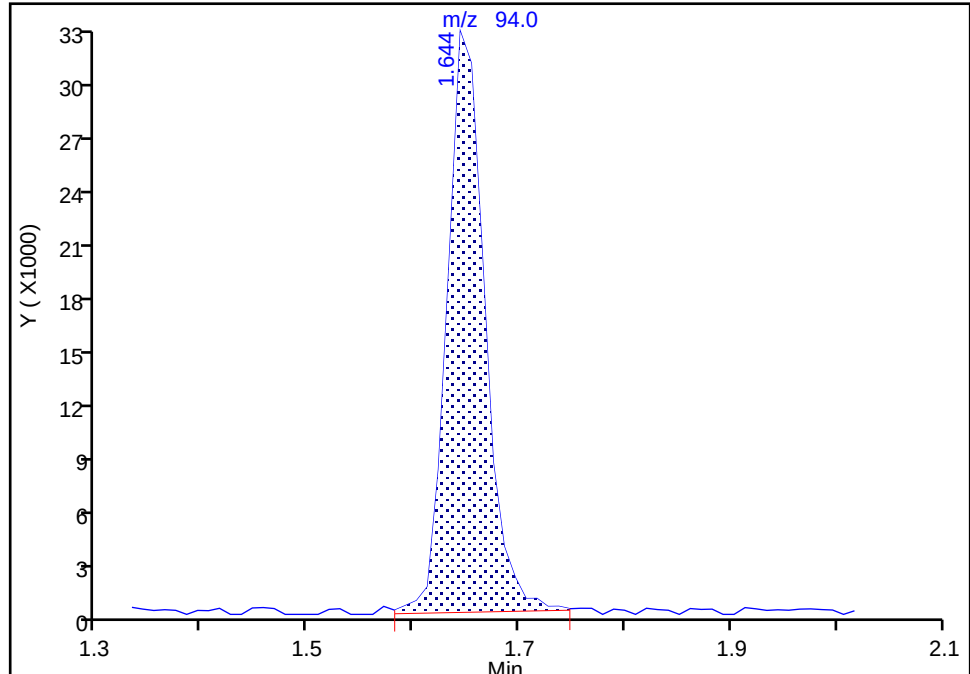
Detector: MS SCAN

15 Bromomethane, CAS: 74-83-9

Signal: 1

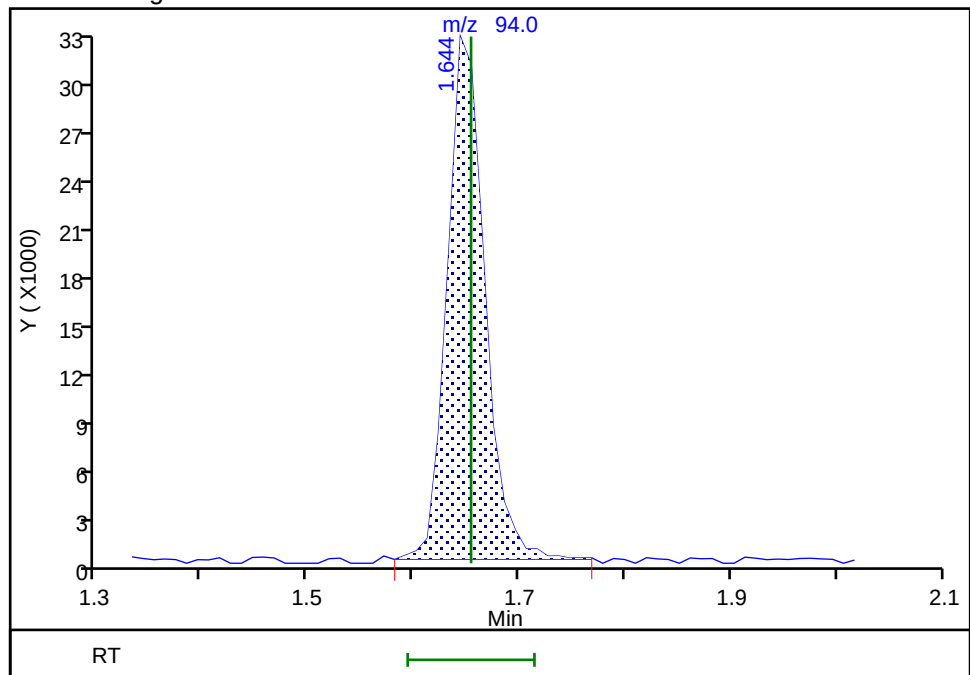
RT: 1.64
Area: 81683
Amount: 9.982352
Amount Units: ug/L

Processing Integration Results



RT: 1.64
Area: 80771
Amount: 9.884669
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 12:00:33

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6849.D

Injection Date: 16-Sep-2020 15:18:30

Instrument ID: HP5975T

Lims ID: IC 4

Client ID:

Operator ID: RF

ALS Bottle#:

42

Worklist Smp#: 10

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

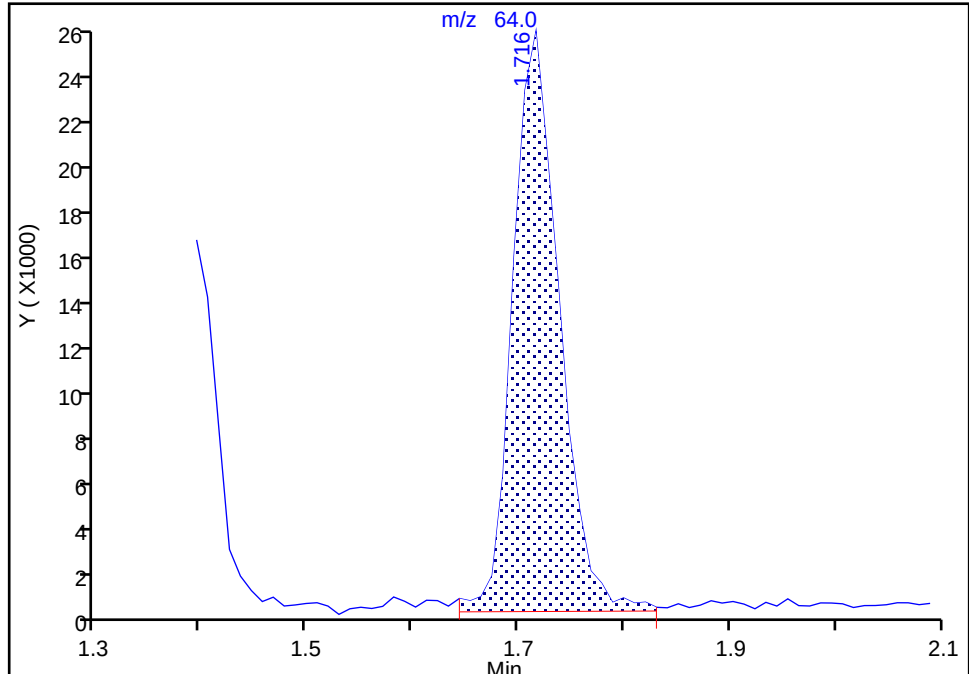
Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

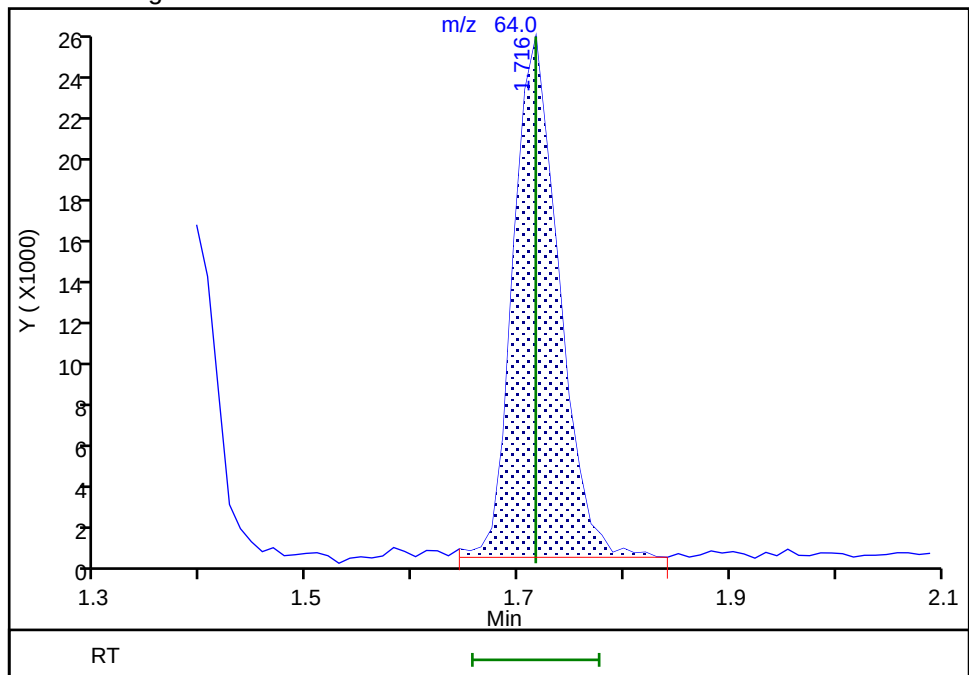
RT: 1.72
Area: 76542
Amount: 10.098049
Amount Units: ug/L

Processing Integration Results



RT: 1.72
Area: 74689
Amount: 9.761571
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 12:00:55

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6850.D
 Lims ID: ICIS 5
 Client ID:
 Sample Type: ICIS Calib Level: 6
 Inject. Date: 16-Sep-2020 15:43:30 ALS Bottle#: 43 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ics 5
 Misc. Info.: 480-0093466-011
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:25:58 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 11:39:02

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	99	172184	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	87	602286	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	50	338497	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	66	208754	25.0	25.8	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	276409	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	81	806510	25.0	25.4	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	241570	25.0	25.0	
11 Dichlorodifluoromethane	85	1.167	1.167	0.000	87	312012	25.0	24.8	
13 Chloromethane	50	1.322	1.322	0.000	89	313997	25.0	24.6	
151 Butadiene	54	1.395	1.395	0.000	66	274979	25.0	23.7	
14 Vinyl chloride	62	1.405	1.405	0.000	67	306278	25.0	25.0	
15 Bromomethane	94	1.654	1.654	0.000	91	195069	25.0	24.3	
16 Chloroethane	64	1.716	1.716	0.000	95	182916	25.0	24.3	
18 Dichlorofluoromethane	67	1.923	1.923	0.000	82	433207	25.0	24.3	
17 Trichlorofluoromethane	101	1.934	1.934	0.000	61	379963	25.0	24.7	
19 Ethyl ether	59	2.162	2.162	0.000	91	219018	25.0	24.4	
21 Acrolein	56	2.338	2.338	0.000	99	153289	125.0	123.5	
22 1,1-Dichloroethene	96	2.369	2.369	0.000	88	193846	25.0	25.5	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.379	2.379	0.000	56	211931	25.0	26.7	
23 Acetone	43	2.483	2.483	0.000	99	436065	125.0	117.1	
24 Iodomethane	142	2.514	2.514	0.000	98	358953	25.0	25.7	
25 Carbon disulfide	76	2.545	2.545	0.000	99	703833	25.0	26.2	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	86	352561	25.0	25.0	
28 Methyl acetate	43	2.742	2.742	0.000	98	450994	50.0	49.6	
30 Methylene Chloride	84	2.835	2.835	0.000	92	247878	25.0	24.5	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	84	305835	250.0	254.2	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	99	766235	25.0	25.4	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	91	232042	25.0	25.7	
34 Acrylonitrile	53	3.084	3.084	0.000	96	1092141	250.0	249.2	
35 Hexane	57	3.198	3.198	0.000	88	352323	25.0	25.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.395	3.395	0.000	84	421191	25.0	26.0	
39 Vinyl acetate	43	3.436	3.436	0.000	97	1144412	50.0	52.6	
42 2,2-Dichloropropane	77	3.841	3.841	0.000	90	346852	25.0	26.0	
43 cis-1,2-Dichloroethene	96	3.861	3.861	0.000	71	258324	25.0	25.4	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	95	704074	125.0	126.2	
48 Tetrahydrofuran	42	4.058	4.058	0.000	87	193239	50.0	50.0	
47 Chlorobromomethane	128	4.058	4.058	0.000	92	130876	25.0	25.4	
50 Chloroform	83	4.120	4.120	0.000	69	412683	25.0	24.6	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	86	360385	25.0	26.2	
52 Cyclohexane	56	4.214	4.214	0.000	85	419820	25.0	26.6	
53 Carbon tetrachloride	117	4.317	4.317	0.000	77	279641	25.0	26.5	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	90	316671	25.0	26.7	
55 Benzene	78	4.494	4.494	0.000	97	898778	25.0	25.4	
56 Isobutyl alcohol	43	4.514	4.514	0.000	91	281788	625.0	641.4	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	58	379569	25.0	25.1	
59 n-Heptane	43	4.628	4.628	0.000	92	381763	25.0	23.7	
60 Trichloroethene	95	4.981	4.981	0.000	93	240331	25.0	25.7	
62 Methylcyclohexane	83	5.074	5.074	0.000	91	420754	25.0	27.2	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	91	242147	25.0	25.9	
65 Dibromomethane	93	5.281	5.281	0.000	90	163625	25.0	25.7	
66 1,4-Dioxane	88	5.281	5.281	0.000	35	38936	500.0	514.5	
67 Dichlorobromomethane	83	5.395	5.395	0.000	92	288805	25.0	26.5	
69 2-Chloroethyl vinyl ether	63	5.602	5.602	0.000	92	187151	25.0	25.5	
71 cis-1,3-Dichloropropene	75	5.716	5.716	0.000	88	385770	25.0	26.4	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	96	1541772	125.0	129.9	
73 Toluene	92	5.934	5.934	0.000	92	593026	25.0	26.1	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	94	368943	25.0	26.0	
77 Ethyl methacrylate	69	6.172	6.172	0.000	89	356889	25.0	26.5	
78 1,1,2-Trichloroethane	83	6.286	6.286	0.000	88	190631	25.0	25.2	
79 Tetrachloroethene	166	6.328	6.328	0.000	81	247660	25.0	26.5	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	93	396948	25.0	25.6	
81 2-Hexanone	43	6.452	6.452	0.000	95	1120361	125.0	134.3	
82 Chlorodibromomethane	129	6.587	6.587	0.000	89	203606	25.0	26.6	
83 Ethylene Dibromide	107	6.670	6.670	0.000	98	233956	25.0	25.9	
86 Chlorobenzene	112	7.022	7.022	0.000	93	635905	25.0	25.7	
88 Ethylbenzene	91	7.084	7.084	0.000	80	1119402	25.0	25.9	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	50	207354	25.0	26.1	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	426999	25.0	26.3	
91 o-Xylene	106	7.488	7.488	0.000	99	417327	25.0	26.5	
92 Styrene	104	7.520	7.520	0.000	95	713136	25.0	26.3	
93 Bromoform	173	7.706	7.706	0.000	94	127523	25.0	29.1	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	1092399	25.0	26.0	
97 Bromobenzene	156	8.048	8.048	0.000	98	272283	25.0	25.4	
98 1,1,2,2-Tetrachloroethane	83	8.089	8.089	0.000	90	338844	25.0	26.2	
99 N-Propylbenzene	91	8.100	8.100	0.000	77	1369990	25.0	26.6	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	68	109547	25.0	28.2	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	80	106449	25.0	26.5	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	260957	25.0	26.2	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	63	946028	25.0	25.9	
102 4-Chlorotoluene	91	8.286	8.286	0.000	98	948923	25.0	25.6	
106 tert-Butylbenzene	134	8.504	8.504	0.000	92	200485	25.0	26.7	
107 1,2,4-Trimethylbenzene	105	8.556	8.556	0.000	97	975251	25.0	26.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	1219956	25.0	26.7	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	96	1052370	25.0	26.3	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	79	540303	25.0	26.0	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	89	547540	25.0	25.0	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	1000210	25.0	26.6	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	90	540351	25.0	26.0	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	75	60624	25.0	27.9	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	92	417265	25.0	26.9	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	94	193425	25.0	26.3	
121 Naphthalene	128	10.711	10.711	0.000	98	1181472	25.0	26.5	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	92	406711	25.0	25.8	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00193	Amount Added: 12.50	Units: uL	
GAS CORP mix_00418	Amount Added: 12.50	Units: uL	
T_8260_Surr_00210	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00249	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6850.D

Injection Date: 16-Sep-2020 15:43:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: ICIS 5

Worklist Smp#: 11

Client ID:

Purge Vol: 5.000 mL

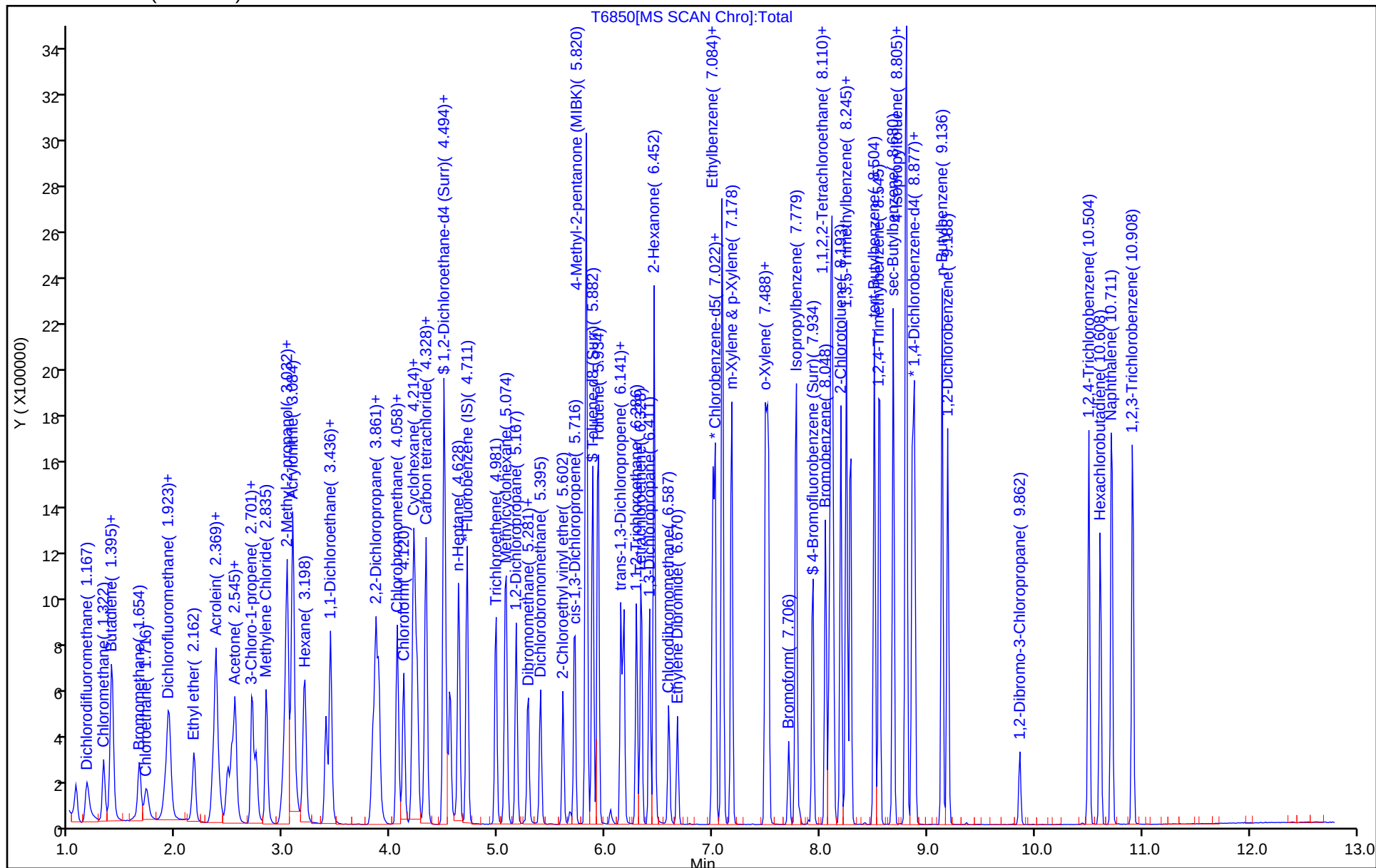
Dil. Factor: 1.0000

ALS Bottle#: 43

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6851.D
 Lims ID: IC 6
 Client ID:
 Sample Type: IC Calib Level: 7
 Inject. Date: 16-Sep-2020 16:07:30 ALS Bottle#: 44 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 6
 Misc. Info.: 480-0093466-012
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:26:07 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 12:04:43

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	169610	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	88	595921	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	337613	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	93	205155	25.0	25.8	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	270765	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	791573	25.0	25.2	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	240876	25.0	25.2	
11 Dichlorodifluoromethane	85	1.167	1.167	0.000	99	638530	50.0	51.6	
13 Chloromethane	50	1.323	1.322	0.001	99	639565	50.0	50.9	
151 Butadiene	54	1.395	1.395	0.000	91	563490	50.0	49.3	
14 Vinyl chloride	62	1.395	1.405	-0.010	98	621815	50.0	51.4	
15 Bromomethane	94	1.654	1.654	0.000	92	395561	50.0	50.0	
16 Chloroethane	64	1.716	1.716	0.000	100	366411	50.0	49.4	M
18 Dichlorofluoromethane	67	1.924	1.923	0.001	97	858353	50.0	49.0	
17 Trichlorofluoromethane	101	1.934	1.934	0.000	98	800884	50.0	52.7	
19 Ethyl ether	59	2.162	2.162	0.000	93	445135	50.0	50.4	
21 Acrolein	56	2.338	2.338	0.000	100	323196	250.0	264.4	
22 1,1-Dichloroethene	96	2.369	2.369	0.000	96	426287	50.0	56.9	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.379	-0.010	96	464018	50.0	59.4	
23 Acetone	43	2.483	2.483	0.000	99	898045	250.0	244.7	
24 Iodomethane	142	2.514	2.514	0.000	98	764967	50.0	55.6	
25 Carbon disulfide	76	2.545	2.545	0.000	100	1528975	50.0	57.7	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	88	770499	50.0	55.5	
28 Methyl acetate	43	2.742	2.742	0.000	98	896845	100.0	100.2	
30 Methylene Chloride	84	2.836	2.835	0.001	95	498552	50.0	50.8	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	98	669299	500.0	564.7	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	99	1574434	50.0	53.1	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	96	482694	50.0	54.2	
34 Acrylonitrile	53	3.084	3.084	0.000	98	2283417	500.0	529.0	
35 Hexane	57	3.198	3.198	0.000	93	767653	50.0	55.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.395	3.395	0.000	97	870462	50.0	54.5	
39 Vinyl acetate	43	3.437	3.436	0.001	97	2378849	100.0	111.0	
42 2,2-Dichloropropane	77	3.830	3.841	-0.011	91	743851	50.0	56.7	
43 cis-1,2-Dichloroethene	96	3.861	3.861	0.000	81	537880	50.0	53.7	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	1433844	250.0	261.0	
47 Chlorobromomethane	128	4.058	4.058	0.000	97	267387	50.0	52.7	
48 Tetrahydrofuran	42	4.058	4.058	0.000	87	382876	100.0	101.5	
50 Chloroform	83	4.121	4.120	0.001	95	873557	50.0	52.8	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	98	787168	50.0	58.0	
52 Cyclohexane	56	4.214	4.214	0.000	92	918197	50.0	59.0	
53 Carbon tetrachloride	117	4.317	4.317	0.000	97	636737	50.0	61.2	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	94	684736	50.0	58.7	
55 Benzene	78	4.494	4.494	0.000	98	1901275	50.0	54.6	
56 Isobutyl alcohol	43	4.504	4.514	-0.010	92	623242	1250.0	1440.1	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	98	764302	50.0	51.3	
59 n-Heptane	43	4.628	4.628	0.000	91	816805	50.0	51.5	
60 Trichloroethene	95	4.981	4.981	0.000	97	512860	50.0	55.6	
62 Methylcyclohexane	83	5.074	5.074	0.000	93	905203	50.0	59.3	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	92	502117	50.0	54.5	
66 1,4-Dioxane	88	5.281	5.281	0.000	36	88733	1000.0	1185.1	
65 Dibromomethane	93	5.271	5.281	-0.010	96	337332	50.0	53.8	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	619549	50.0	57.6	
69 2-Chloroethyl vinyl ether	63	5.602	5.602	0.000	94	385477	50.0	53.4	
71 cis-1,3-Dichloropropene	75	5.716	5.716	0.000	93	810066	50.0	56.3	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	96	3176877	250.0	270.4	
73 Toluene	92	5.934	5.934	0.000	98	1236747	50.0	55.0	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	96	780943	50.0	55.7	
77 Ethyl methacrylate	69	6.172	6.172	0.000	90	735491	50.0	55.2	
78 1,1,2-Trichloroethane	83	6.286	6.286	0.000	92	388218	50.0	51.8	
79 Tetrachloroethene	166	6.328	6.328	0.000	96	527089	50.0	56.9	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	92	806999	50.0	52.6	
81 2-Hexanone	43	6.452	6.452	0.000	96	2294293	250.0	278.0	
82 Chlorodibromomethane	129	6.587	6.587	0.000	90	449710	50.0	59.4	
83 Ethylene Dibromide	107	6.670	6.670	0.000	98	486528	50.0	54.3	
86 Chlorobenzene	112	7.022	7.022	0.000	93	1334921	50.0	54.4	
88 Ethylbenzene	91	7.084	7.084	0.000	99	2366179	50.0	55.3	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	92	449004	50.0	57.2	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	891351	50.0	55.4	
91 o-Xylene	106	7.489	7.488	0.001	99	862011	50.0	55.2	
92 Styrene	104	7.520	7.520	0.000	95	1497630	50.0	55.7	
93 Bromoform	173	7.706	7.706	0.000	94	288254	50.0	66.6	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	2328945	50.0	55.6	
97 Bromobenzene	156	8.048	8.048	0.000	97	563899	50.0	52.8	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.089	0.001	93	680007	50.0	52.6	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	2872239	50.0	55.8	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	83	232264	50.0	60.0	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	87	219064	50.0	54.7	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	525211	50.0	52.8	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	95	2002499	50.0	55.1	
102 4-Chlorotoluene	91	8.287	8.286	0.000	98	2006305	50.0	54.3	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	423164	50.0	56.5	
107 1,2,4-Trimethylbenzene	105	8.556	8.556	0.000	98	2050224	50.0	55.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	2581983	50.0	56.6	
111 4-Isopropyltoluene	119	8.805	8.794	0.011	97	2255748	50.0	56.6	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	97	1102028	50.0	53.2	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	1128147	50.0	51.7	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	2123876	50.0	56.7	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	1119775	50.0	54.1	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	80	133735	50.0	61.7	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	846132	50.0	54.6	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	97	413067	50.0	56.4	
121 Naphthalene	128	10.711	10.711	0.000	98	2394740	50.0	53.9	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	94	828140	50.0	52.7	
S 125 Total BTEX	1				0			275.6	
S 126 Xylenes, Total	1				0			110.6	
S 124 1,2-Dichloroethene, Total	1				0			107.9	
S 123 1,3-Dichloropropene, Total	1				0			112.0	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00193

Amount Added: 25.00

Units: uL

GAS CORP mix_00418

Amount Added: 25.00

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6851.D

Injection Date: 16-Sep-2020 16:07:30

Instrument ID: HP5975T

Lims ID: IC 6

Operator ID: RF

Client ID:

Worklist Smp#: 12

Purge Vol: 5.000 mL

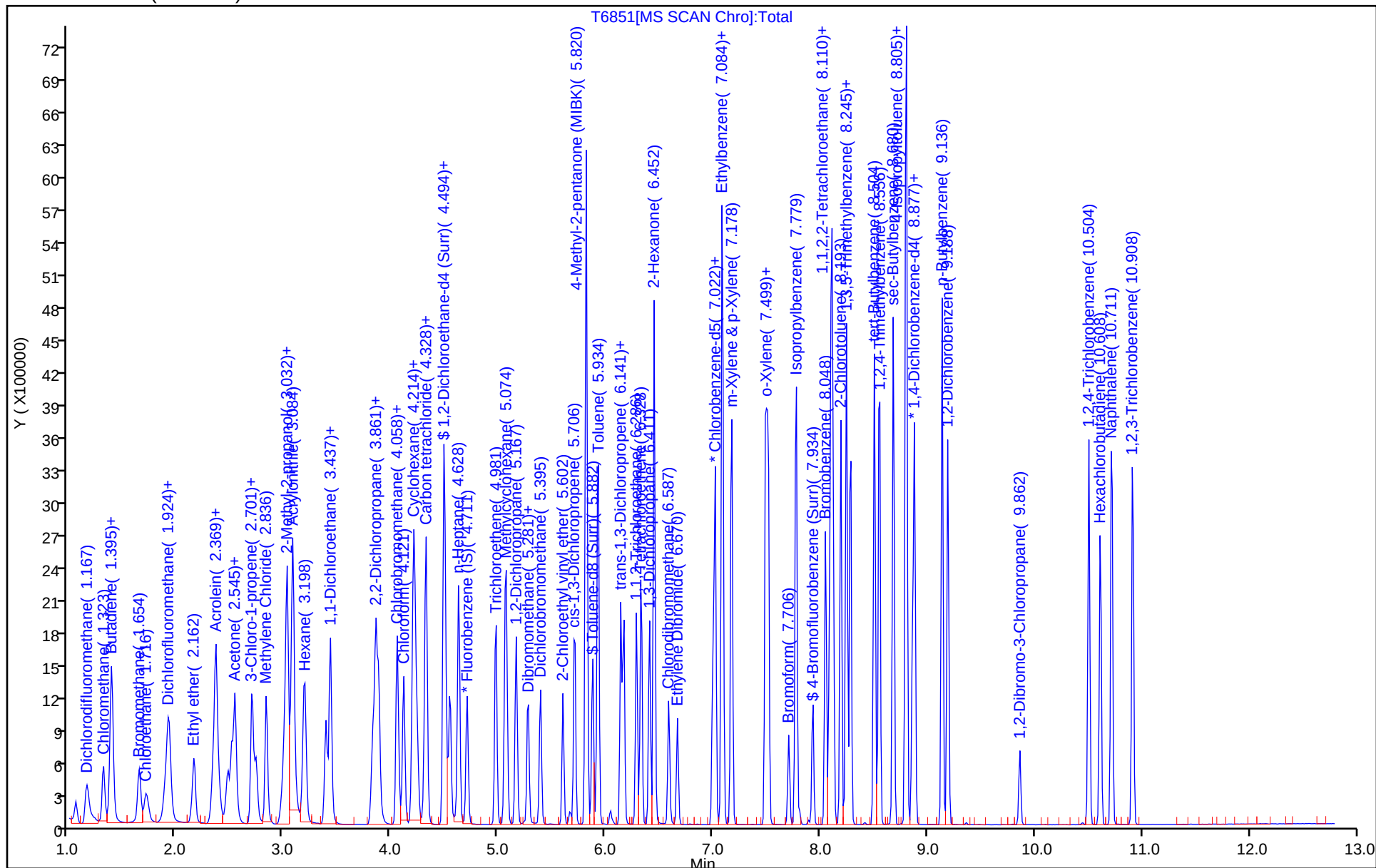
Dil. Factor: 1.0000

ALS Bottle#: 44

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6851.D

Injection Date: 16-Sep-2020 16:07:30

Instrument ID: HP5975T

Lims ID: IC 6

Client ID:

Operator ID: RF

ALS Bottle#:

44

Worklist Smp#: 12

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

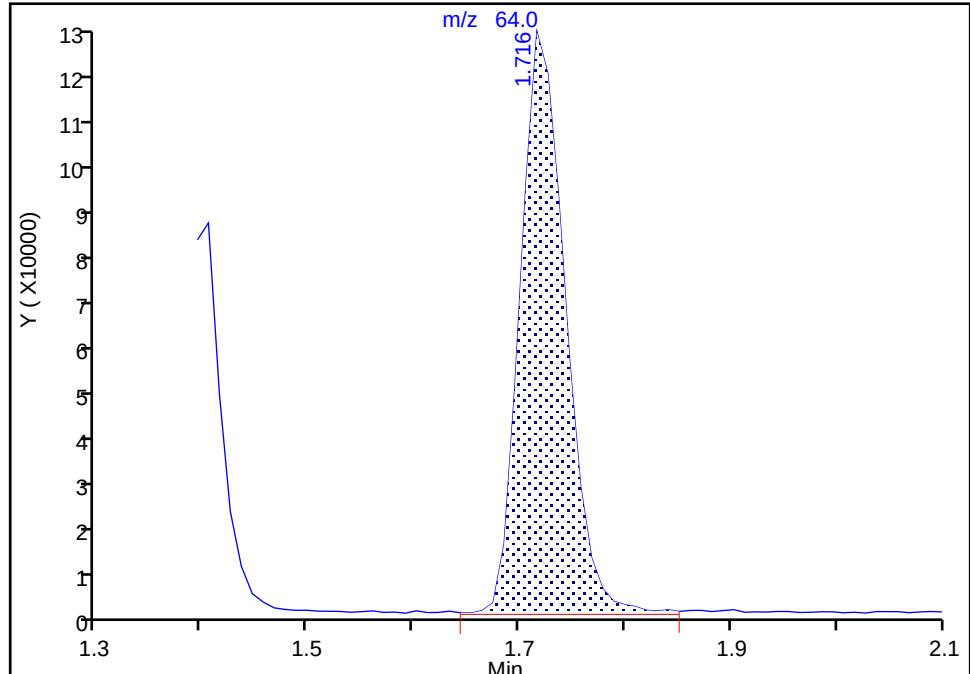
Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

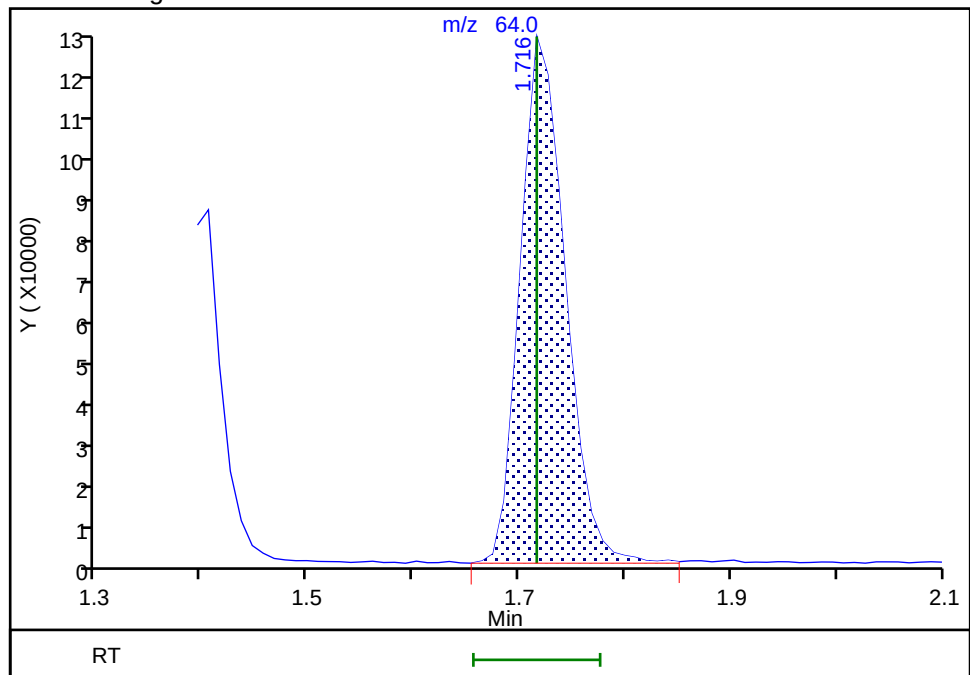
RT: 1.72
Area: 370092
Amount: 51.209335
Amount Units: ug/L

Processing Integration Results



RT: 1.72
Area: 366411
Amount: 49.415175
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 12:03:53

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6852.D
 Lims ID: IC 7
 Client ID:
 Sample Type: IC Calib Level: 8
 Inject. Date: 16-Sep-2020 16:31:30 ALS Bottle#: 45 Worklist Smp#: 13
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ic 7
 Misc. Info.: 480-0093466-013
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:26:14 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 12:06:05

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	171632	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	87	604432	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	96	339604	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	93	203256	25.0	25.2	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	276584	25.0	25.1	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	94	785595	25.0	24.6	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	242241	25.0	25.0	
11 Dichlorodifluoromethane	85	1.167	1.167	0.000	99	1260368	100.0	100.7	
13 Chloromethane	50	1.322	1.322	0.000	99	1237843	100.0	97.4	
151 Butadiene	54	1.395	1.395	0.000	92	1122983	100.0	97.1	
14 Vinyl chloride	62	1.405	1.405	0.000	98	1219181	100.0	99.6	
15 Bromomethane	94	1.654	1.654	0.000	92	785477	100.0	98.0	
16 Chloroethane	64	1.716	1.716	0.000	100	717301	100.0	95.6	M
18 Dichlorofluoromethane	67	1.924	1.923	0.001	98	1699042	100.0	95.8	
17 Trichlorofluoromethane	101	1.934	1.934	0.000	99	1550741	100.0	100.9	
19 Ethyl ether	59	2.162	2.162	0.000	92	872586	100.0	97.7	
21 Acrolein	56	2.338	2.338	0.000	100	634496	500.0	513.0	
22 1,1-Dichloroethene	96	2.369	2.369	0.000	97	836090	100.0	110.3	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.379	-0.010	94	911724	100.0	115.4	
23 Acetone	43	2.483	2.483	0.000	99	1747569	500.0	470.6	
24 Iodomethane	142	2.514	2.514	0.000	99	1499613	100.0	107.8	
25 Carbon disulfide	76	2.545	2.545	0.000	100	2992677	100.0	111.6	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	88	1490560	100.0	106.1	
28 Methyl acetate	43	2.742	2.742	0.000	98	1790173	200.0	197.7	
30 Methylene Chloride	84	2.835	2.835	0.000	95	988281	100.0	100.3	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	98	1420674	1000.0	1184.6	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	98	3067957	100.0	102.2	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	97	961214	100.0	106.7	
34 Acrylonitrile	53	3.084	3.084	0.000	98	4272499	1000.0	978.2	
35 Hexane	57	3.198	3.198	0.000	93	1493944	100.0	107.0	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.395	3.395	0.000	96	1721071	100.0	106.6	
39 Vinyl acetate	43	3.437	3.436	0.001	97	4776358	200.0	220.3	
42 2,2-Dichloropropane	77	3.841	3.841	0.000	91	1483484	100.0	111.7	
43 cis-1,2-Dichloroethene	96	3.861	3.861	0.000	81	1054444	100.0	104.0	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	2827170	500.0	508.5	
48 Tetrahydrofuran	42	4.058	4.058	0.000	87	755803	200.0	198.8	
47 Chlorobromomethane	128	4.058	4.058	0.000	97	540510	100.0	105.3	
50 Chloroform	83	4.120	4.120	0.000	95	1720505	100.0	102.7	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	98	1556360	100.0	113.3	
52 Cyclohexane	56	4.214	4.214	0.000	92	1774600	100.0	112.8	
53 Carbon tetrachloride	117	4.317	4.317	0.000	97	1279553	100.0	121.6	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	95	1348398	100.0	114.2	
55 Benzene	78	4.494	4.494	0.000	98	3692828	100.0	104.8	
56 Isobutyl alcohol	43	4.504	4.514	-0.010	91	1226926	2500.0	2801.5	
57 1,2-Dichloroethane	62	4.556	4.545	0.011	98	1487924	100.0	98.7	
59 n-Heptane	43	4.628	4.628	0.000	91	1561224	100.0	97.2	
60 Trichloroethene	95	4.981	4.981	0.000	98	999968	100.0	107.2	
62 Methylcyclohexane	83	5.074	5.074	0.000	92	1780665	100.0	115.3	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	92	982958	100.0	105.3	
65 Dibromomethane	93	5.281	5.281	0.000	96	651788	100.0	102.8	
66 1,4-Dioxane	88	5.271	5.281	-0.010	57	181422	2000.0	2388.9	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	1287582	100.0	118.3	
69 2-Chloroethyl vinyl ether	63	5.602	5.602	0.000	93	787878	100.0	107.8	
71 cis-1,3-Dichloropropene	75	5.716	5.716	0.000	93	1638534	100.0	112.6	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	96	6144719	500.0	515.7	
73 Toluene	92	5.934	5.934	0.000	98	2425056	100.0	106.4	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	96	1605757	100.0	112.9	
77 Ethyl methacrylate	69	6.172	6.172	0.000	90	1486353	100.0	109.9	
78 1,1,2-Trichloroethane	83	6.286	6.286	0.000	92	778248	100.0	102.4	
79 Tetrachloroethene	166	6.328	6.328	0.000	97	1037678	100.0	110.5	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	93	1583146	100.0	101.8	
81 2-Hexanone	43	6.452	6.452	0.000	95	4501688	500.0	537.9	
82 Chlorodibromomethane	129	6.587	6.587	0.000	90	961045	100.0	125.2	
83 Ethylene Dibromide	107	6.670	6.670	0.000	99	968860	100.0	106.7	
86 Chlorobenzene	112	7.022	7.022	0.000	93	2613535	100.0	105.1	
88 Ethylbenzene	91	7.084	7.084	0.000	99	4615188	100.0	106.3	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	92	930042	100.0	116.7	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	1770416	100.0	108.5	
91 o-Xylene	106	7.499	7.488	0.011	98	1730332	100.0	109.3	
92 Styrene	104	7.520	7.520	0.000	95	2986660	100.0	109.6	
93 Bromoform	173	7.706	7.706	0.000	95	648248	100.0	147.6	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	4545369	100.0	107.8	
97 Bromobenzene	156	8.048	8.048	0.000	98	1106956	100.0	103.0	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.089	0.001	96	1371275	100.0	105.5	
99 N-Propylbenzene	91	8.110	8.100	0.010	99	5625424	100.0	108.7	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	85	475397	100.0	122.1	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	88	434252	100.0	107.7	
105 2-Chlorotoluene	126	8.193	8.193	0.000	96	1063101	100.0	106.3	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	94	3911907	100.0	106.9	
102 4-Chlorotoluene	91	8.286	8.286	0.000	98	3903875	100.0	105.0	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	840468	100.0	111.6	
107 1,2,4-Trimethylbenzene	105	8.556	8.556	0.000	98	4018229	100.0	107.7	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	5041403	100.0	109.8	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	4356417	100.0	108.7	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	97	2171651	100.0	104.1	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	2219778	100.0	101.1	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	4187469	100.0	111.2	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	2172549	100.0	104.4	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	82	283399	100.0	130.0	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	95	1660771	100.0	106.6	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	98	825187	100.0	112.0	
121 Naphthalene	128	10.722	10.711	0.011	97	4754033	100.0	106.3	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	95	1645244	100.0	104.1	
S 125 Total BTEX	1				0			535.4	
S 126 Xylenes, Total	1				0			217.8	
S 124 1,2-Dichloroethene, Total	1				0			210.7	
S 123 1,3-Dichloropropene, Total	1				0			225.5	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

8260 CORP mix_00193

Amount Added: 50.00

Units: uL

GAS CORP mix_00418

Amount Added: 50.00

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Report Date: 17-Sep-2020 16:26:16

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6852.D

Injection Date: 16-Sep-2020 16:31:30

Instrument ID: HP5975T

Lims ID: IC 7

Operator ID: RF

Client ID:

Worklist Smp#: 13

Purge Vol: 5.000 mL

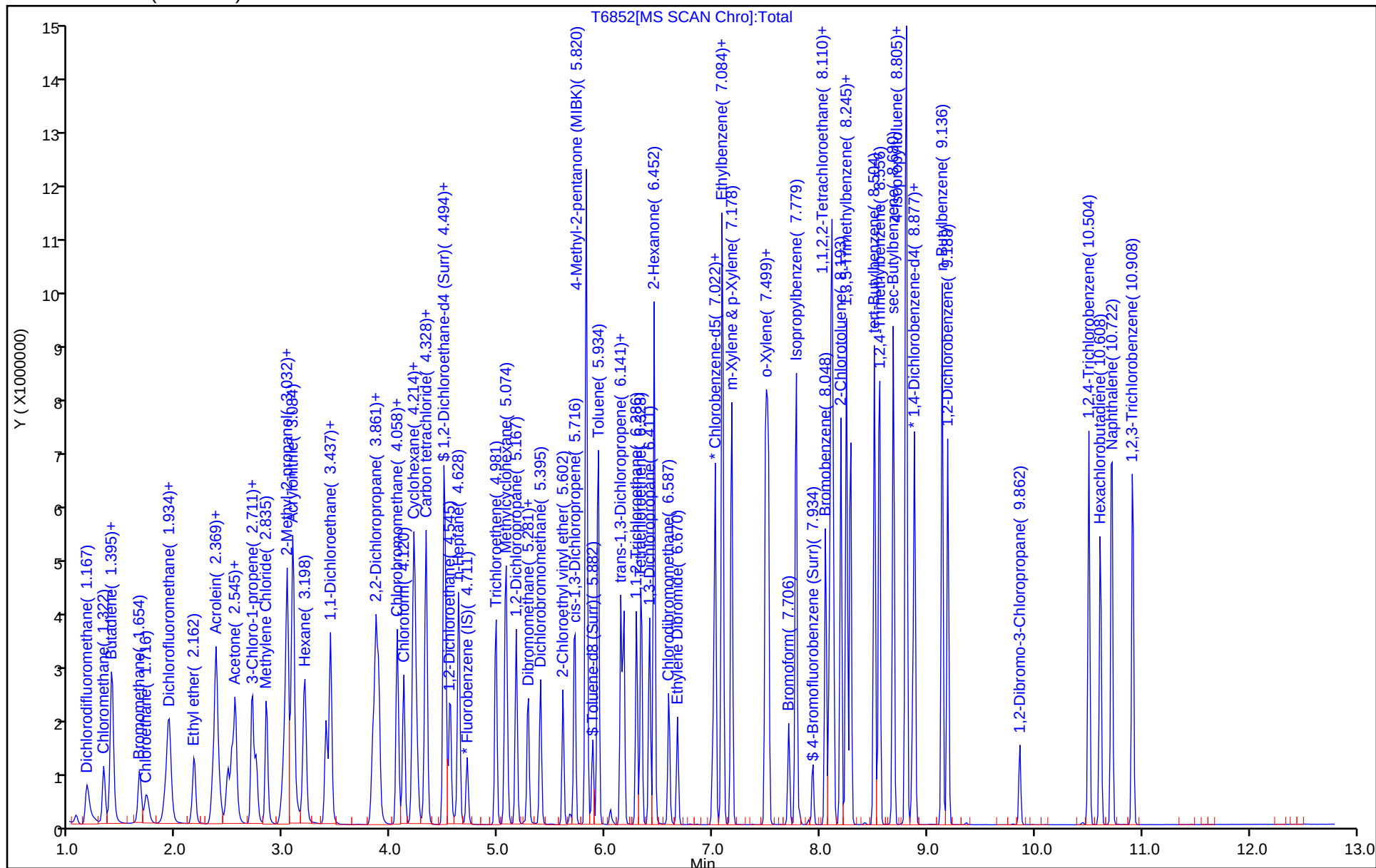
Dil. Factor: 1.0000

ALS Bottle#: 45

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6852.D

Injection Date: 16-Sep-2020 16:31:30

Instrument ID: HP5975T

Lims ID: IC 7

Client ID:

Operator ID: RF

ALS Bottle#:

45

Worklist Smp#: 13

Purge Vol: 5.000 mL

Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

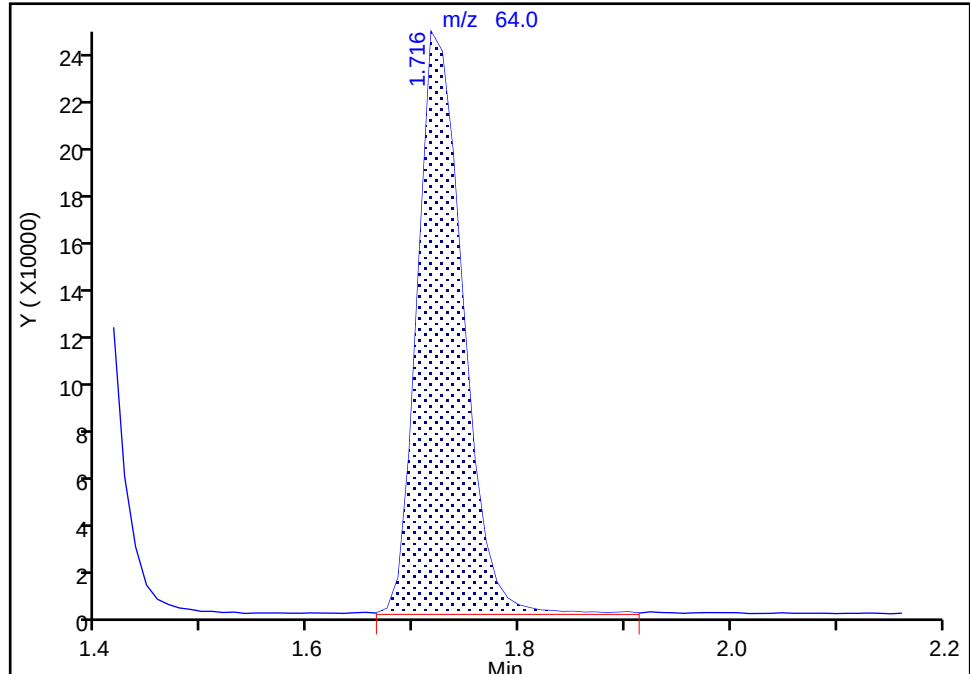
Detector: MS SCAN

16 Chloroethane, CAS: 75-00-3

Signal: 1

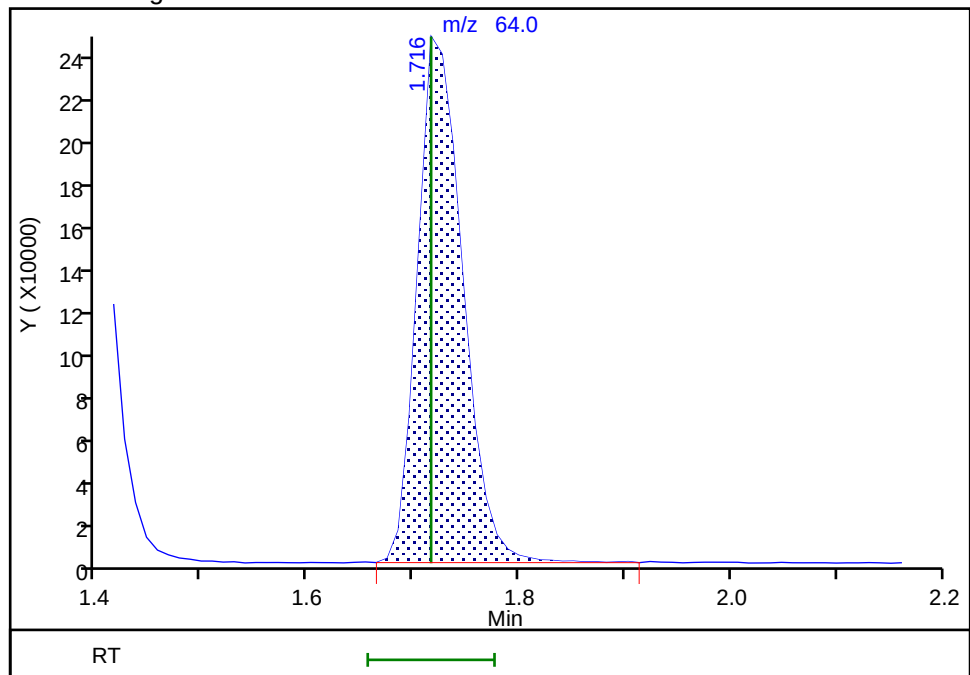
RT: 1.72
Area: 725532
Amount: 99.646280
Amount Units: ug/L

Processing Integration Results



RT: 1.72
Area: 717301
Amount: 95.597484
Amount Units: ug/L

Manual Integration Results



Reviewer: farrellr, 17-Sep-2020 12:05:22

Audit Action: Manually Integrated

Audit Reason: Poor chromatography

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: ICV 480-549730/27 Calibration Date: 09/16/2020 22:09

Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31

Lab File ID: T6866.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.823	1.906	0.1000	26.1	25.0	4.5	50.0
Chloromethane	Ave	1.850	1.883	0.1000	25.4	25.0	1.8	30.0
Butadiene	Ave	1.685	1.649		24.5	25.0	-2.1	30.0
Vinyl chloride	Ave	1.782	1.856	0.1000	26.0	25.0	4.1	30.0
Bromomethane	Ave	1.167	1.177	0.1000	25.2	25.0	0.9	50.0
Chloroethane	Ave	1.093	1.059	0.1000	24.2	25.0	-3.1	50.0
Dichlorofluoromethane	Ave	2.583	2.545		24.6	25.0	-1.5	30.0
Trichlorofluoromethane	Ave	2.238	2.307	0.1000	25.8	25.0	3.1	30.0
Ethyl ether	Ave	1.301	1.370		26.3	25.0	5.3	30.0
Acrolein	Ave	0.1802	0.1072		74.3	125	-40.5	50.0
1,1-Dichloroethene	Ave	1.104	1.267	0.1000	28.7	25.0	14.7	30.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.151	1.309	0.1000	28.4	25.0	13.8	30.0
Acetone	Ave	0.5409	0.5623	0.1000	130	125	4.0	50.0
Iodomethane	Ave	2.027	2.249		27.7	25.0	10.9	30.0
Carbon disulfide	Ave	3.907	4.390	0.1000	28.1	25.0	12.4	30.0
Allyl chloride	Ave	2.046	2.142		26.2	25.0	4.7	30.0
Methyl acetate	Ave	1.319	1.380	0.1000	52.3	50.0	4.6	50.0
Methylene Chloride	Lin1		1.557	0.1000	26.6	25.0	6.3	30.0
2-Methyl-2-propanol	Ave	0.1747	0.2181		312	250	24.9	50.0
Methyl tert-butyl ether	Ave	4.374	4.610	0.1000	26.4	25.0	5.4	30.0
trans-1,2-Dichloroethene	Ave	1.312	1.450	0.1000	27.6	25.0	10.5	30.0
Acrylonitrile	Ave	0.6362	0.6739		265	250	5.9	30.0
Hexane	Ave	2.034	2.151		26.4	25.0	5.7	30.0
1,1-Dichloroethane	Ave	2.353	2.547	0.2000	27.1	25.0	8.3	30.0
Vinyl acetate	Ave	3.159	3.067		48.6	50.0	-2.9	30.0
2,2-Dichloropropane	Ave	1.935	1.934		25.0	25.0	-0.0	30.0
cis-1,2-Dichloroethene	Ave	1.476	1.559	0.1000	26.4	25.0	5.6	30.0
2-Butanone (MEK)	Ave	0.8098	0.8385	0.1000	129	125	3.5	30.0
Chlorobromomethane	Ave	0.7479	0.7721		25.8	25.0	3.2	30.0
Tetrahydrofuran	Lin1		0.5808		51.8	50.0	3.6	30.0
Chloroform	Ave	2.440	2.507	0.2000	25.7	25.0	2.8	30.0
1,1,1-Trichloroethane	Ave	2.001	2.235	0.1000	27.9	25.0	11.7	30.0
Cyclohexane	Ave	2.292	2.622	0.1000	28.6	25.0	14.4	30.0
Carbon tetrachloride	Ave	1.533	1.778	0.1000	29.0	25.0	15.9	30.0
1,1-Dichloropropene	Ave	1.720	1.939		28.2	25.0	12.8	30.0
Benzene	Ave	5.132	5.426	0.5000	26.4	25.0	5.7	30.0
Isobutyl alcohol	Ave	0.0638	0.0718		704	625	12.6	50.0
1,2-Dichloroethane	Ave	2.196	2.214	0.1000	25.2	25.0	0.8	30.0
n-Heptane	Ave	2.340	2.295		24.5	25.0	-1.9	30.0
Trichloroethene	Ave	1.359	1.466	0.2000	27.0	25.0	7.9	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: ICV 480-549730/27 Calibration Date: 09/16/2020 22:09
 Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31
 Lab File ID: T6866.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.249	2.539	0.1000	28.2	25.0	12.9	30.0
1,2-Dichloropropane	Ave	1.359	1.468	0.1000	27.0	25.0	8.0	30.0
1,4-Dioxane	Ave	0.0031	0.0030		474	500	-5.3	50.0
Dibromomethane	Ave	0.9238	0.9929	0.1000	26.9	25.0	7.5	30.0
Bromodichloromethane	Ave	1.585	1.808	0.2000	28.5	25.0	14.1	30.0
2-Chloroethyl vinyl ether	Ave	1.065	1.147		26.9	25.0	7.7	30.0
cis-1,3-Dichloropropene	Ave	2.120	2.263	0.2000	26.7	25.0	6.8	30.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4928	0.5477	0.1000	139	125	11.1	30.0
Toluene	Ave	0.9428	1.011	0.4000	26.8	25.0	7.3	30.0
trans-1,3-Dichloropropene	Ave	0.5882	0.5966	0.1000	25.4	25.0	1.4	30.0
Ethyl methacrylate	Ave	0.5592	0.6126		27.4	25.0	9.5	30.0
1,1,2-Trichloroethane	Ave	0.3143	0.3302	0.1000	26.3	25.0	5.1	30.0
Tetrachloroethene	Ave	0.3883	0.4264	0.2000	27.5	25.0	9.8	30.0
1,3-Dichloropropane	Ave	0.6435	0.6649		25.8	25.0	3.3	30.0
2-Hexanone	Ave	0.3462	0.4078	0.1000	147	125	17.8	30.0
Dibromochloromethane	Ave	0.3174	0.3560	0.1000	28.0	25.0	12.2	30.0
1,2-Dibromoethane	Ave	0.3756	0.4012		26.7	25.0	6.8	30.0
Chlorobenzene	Ave	1.029	1.103	0.5000	26.8	25.0	7.2	30.0
Ethylbenzene	Ave	1.795	1.962	0.1000	27.3	25.0	9.3	30.0
1,1,1,2-Tetrachloroethane	Ave	0.3296	0.3641		27.6	25.0	10.5	30.0
m,p-Xylene	Ave	0.6746	0.7463	0.1000	27.7	25.0	10.6	30.0
o-Xylene	Ave	0.6549	0.7150	0.3000	27.3	25.0	9.2	30.0
Styrene	Ave	1.127	1.241	0.3000	27.5	25.0	10.1	30.0
Bromoform	Ave	0.1816	0.2216	0.1000	30.5	25.0	22.0	50.0
Isopropylbenzene	Ave	3.104	3.462	0.1000	27.9	25.0	11.5	30.0
Bromobenzene	Ave	0.7910	0.8329		26.3	25.0	5.3	30.0
1,1,2,2-Tetrachloroethane	Ave	0.9570	1.032	0.3000	27.0	25.0	7.8	30.0
N-Propylbenzene	Ave	3.810	4.248		27.9	25.0	11.5	30.0
1,2,3-Trichloropropane	Ave	0.2968	0.3367		28.4	25.0	13.4	30.0
trans-1,4-Dichloro-2-butene	Ave	0.2865	0.3419		29.8	25.0	19.3	50.0
2-Chlorotoluene	Ave	0.7363	0.7929		26.9	25.0	7.7	30.0
1,3,5-Trimethylbenzene	Ave	2.693	2.956		27.4	25.0	9.8	30.0
4-Chlorotoluene	Ave	2.736	3.019		27.6	25.0	10.3	30.0
tert-Butylbenzene	Ave	0.5542	0.6249		28.2	25.0	12.8	30.0
1,2,4-Trimethylbenzene	Ave	2.745	2.999		27.3	25.0	9.2	30.0
sec-Butylbenzene	Ave	3.380	3.766		27.9	25.0	11.4	30.0
4-Isopropyltoluene	Ave	2.950	3.238		27.4	25.0	9.8	30.0
1,3-Dichlorobenzene	Ave	1.535	1.615	0.6000	26.3	25.0	5.2	30.0
1,4-Dichlorobenzene	Ave	1.616	1.683	0.5000	26.0	25.0	4.1	30.0
n-Butylbenzene	Ave	2.773	3.046		27.5	25.0	9.9	30.0
1,2-Dichlorobenzene	Ave	1.532	1.633	0.4000	26.7	25.0	6.6	30.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: ICV 480-549730/27 Calibration Date: 09/16/2020 22:09
 Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31
 Lab File ID: T6866.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1605	0.1931	0.0500	30.1	25.0	20.3	50.0
1,2,4-Trichlorobenzene	Ave	1.147	1.277	0.2000	27.8	25.0	11.3	30.0
Hexachlorobutadiene	Ave	0.5422	0.6071		28.0	25.0	12.0	30.0
Naphthalene	Ave	3.293	3.558		27.0	25.0	8.1	30.0
1,2,3-Trichlorobenzene	Ave	1.164	1.238		26.6	25.0	6.3	30.0
Dibromofluoromethane (Surr)	Ave	1.173	1.194		25.4	25.0	1.8	30.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.604	1.583		24.7	25.0	-1.4	30.0
Toluene-d8 (Surr)	Ave	1.319	1.313		24.9	25.0	-0.5	30.0
4-Bromofluorobenzene (Surr)	Ave	0.4004	0.4042		25.2	25.0	1.0	30.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6866.D
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Sep-2020 22:09:30 ALS Bottle#: 59 Worklist Smp#: 27
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: icv
 Misc. Info.: 480-0093466-027
 Operator ID: RF Instrument ID: HP5975T
 Sublist:
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:24:25 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 17-Sep-2020 14:18:34

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.701	4.711	-0.010	98	169436	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.001	0.001	88	586740	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.857	8.856	0.001	96	327086	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	94	202358	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	268166	25.0	24.7	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	770561	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	237160	25.0	25.2	
11 Dichlorodifluoromethane	85	1.157	1.167	-0.010	99	322887	25.0	26.1	
13 Chloromethane	50	1.312	1.322	-0.010	99	319080	25.0	25.4	
151 Butadiene	54	1.385	1.395	-0.010	94	279358	25.0	24.5	
14 Vinyl chloride	62	1.385	1.405	-0.020	98	314495	25.0	26.0	
15 Bromomethane	94	1.644	1.654	-0.010	92	199506	25.0	25.2	
16 Chloroethane	64	1.716	1.716	0.000	100	179411	25.0	24.2	
18 Dichlorofluoromethane	67	1.913	1.923	-0.010	97	431235	25.0	24.6	
17 Trichlorofluoromethane	101	1.924	1.934	-0.010	98	390853	25.0	25.8	
19 Ethyl ether	59	2.162	2.162	0.000	93	232105	25.0	26.3	
21 Acrolein	56	2.338	2.338	0.000	97	90780	125.0	74.3	
22 1,1-Dichloroethene	96	2.359	2.369	-0.010	96	214621	25.0	28.7	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.379	-0.010	94	221848	25.0	28.4	
23 Acetone	43	2.473	2.483	-0.010	99	476330	125.0	129.9	
24 Iodomethane	142	2.514	2.514	0.000	98	381000	25.0	27.7	
25 Carbon disulfide	76	2.535	2.545	-0.010	100	743788	25.0	28.1	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	88	362981	25.0	26.2	
28 Methyl acetate	43	2.732	2.742	-0.010	98	467609	50.0	52.3	
30 Methylene Chloride	84	2.836	2.835	0.001	96	263817	25.0	26.6	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	99	369585	250.0	312.2	
33 Methyl tert-butyl ether	73	3.012	3.022	-0.010	99	781155	25.0	26.4	
32 trans-1,2-Dichloroethene	96	3.033	3.032	0.001	97	245640	25.0	27.6	
34 Acrylonitrile	53	3.084	3.084	0.000	98	1141905	250.0	264.8	
35 Hexane	57	3.188	3.198	-0.010	93	364396	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.385	3.395	-0.010	96	431559	25.0	27.1	
39 Vinyl acetate	43	3.426	3.436	-0.010	98	1039408	50.0	48.6	
42 2,2-Dichloropropane	77	3.830	3.841	-0.011	92	327620	25.0	25.0	
43 cis-1,2-Dichloroethene	96	3.862	3.861	0.001	81	264181	25.0	26.4	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	710333	125.0	129.4	
47 Chlorobromomethane	128	4.048	4.058	-0.010	96	130820	25.0	25.8	
48 Tetrahydrofuran	42	4.058	4.058	0.000	87	196828	50.0	51.8	
50 Chloroform	83	4.110	4.120	-0.010	95	424788	25.0	25.7	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	98	378769	25.0	27.9	
52 Cyclohexane	56	4.214	4.214	0.000	93	444287	25.0	28.6	
53 Carbon tetrachloride	117	4.318	4.317	0.001	97	301197	25.0	29.0	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	94	328601	25.0	28.2	
55 Benzene	78	4.494	4.494	0.000	97	919288	25.0	26.4	
56 Isobutyl alcohol	43	4.504	4.514	-0.010	91	304239	625.0	703.7	
57 1,2-Dichloroethane	62	4.546	4.545	0.001	98	375138	25.0	25.2	
59 n-Heptane	43	4.628	4.628	0.000	91	388843	25.0	24.5	
60 Trichloroethene	95	4.970	4.981	-0.011	97	248439	25.0	27.0	
62 Methylcyclohexane	83	5.064	5.074	-0.010	93	430150	25.0	28.2	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	93	248678	25.0	27.0	
65 Dibromomethane	93	5.271	5.281	-0.010	96	168228	25.0	26.9	
66 1,4-Dioxane	88	5.271	5.281	-0.010	34	34908	500.0	473.5	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	306317	25.0	28.5	
69 2-Chloroethyl vinyl ether	63	5.603	5.602	0.001	93	194372	25.0	26.9	
71 cis-1,3-Dichloropropene	75	5.706	5.716	-0.010	93	383387	25.0	26.7	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	1606872	125.0	138.9	
73 Toluene	92	5.924	5.934	-0.010	97	593389	25.0	26.8	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	96	350022	25.0	25.4	
77 Ethyl methacrylate	69	6.173	6.172	0.001	90	359435	25.0	27.4	
78 1,1,2-Trichloroethane	83	6.287	6.286	0.001	91	193750	25.0	26.3	
79 Tetrachloroethene	166	6.328	6.328	0.000	96	250177	25.0	27.5	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	94	390097	25.0	25.8	
81 2-Hexanone	43	6.452	6.452	0.000	97	1196235	125.0	147.2	
82 Chlorodibromomethane	129	6.587	6.587	0.000	90	208907	25.0	28.0	
83 Ethylene Dibromide	107	6.670	6.670	0.000	98	235420	25.0	26.7	
86 Chlorobenzene	112	7.022	7.022	0.000	93	647329	25.0	26.8	
88 Ethylbenzene	91	7.084	7.084	0.000	99	1151387	25.0	27.3	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	92	213638	25.0	27.6	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	437870	25.0	27.7	
91 o-Xylene	106	7.489	7.488	0.001	99	419490	25.0	27.3	
92 Styrene	104	7.520	7.520	0.000	95	728202	25.0	27.5	
93 Bromoform	173	7.706	7.706	0.000	94	130012	25.0	30.5	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	1132457	25.0	27.9	
97 Bromobenzene	156	8.048	8.048	0.000	98	272445	25.0	26.3	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.089	0.001	97	337521	25.0	27.0	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	1389353	25.0	27.9	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	83	111816	25.0	29.8	
100 1,2,3-Trichloropropane	110	8.110	8.121	-0.011	88	110131	25.0	28.4	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	259359	25.0	26.9	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	95	966995	25.0	27.4	
102 4-Chlorotoluene	91	8.276	8.286	-0.010	98	987528	25.0	27.6	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	204405	25.0	28.2	
107 1,2,4-Trimethylbenzene	105	8.546	8.556	-0.010	98	980871	25.0	27.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	1231847	25.0	27.9	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	1059205	25.0	27.4	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	98	528183	25.0	26.3	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	92	550626	25.0	26.0	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	996442	25.0	27.5	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	534222	25.0	26.7	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	79	63145	25.0	30.1	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	417819	25.0	27.8	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	98	198563	25.0	28.0	
121 Naphthalene	128	10.712	10.711	0.001	98	1163714	25.0	27.0	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	94	404830	25.0	26.6	

QC Flag Legend

Processing Flags

Reagents:

SS GAS CORP_00368	Amount Added: 12.50	Units: uL	
SS 8260 CORP_00086	Amount Added: 12.50	Units: uL	
T_8260_Surr_00210	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00249	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6866.D

Injection Date: 16-Sep-2020 22:09:30

Instrument ID: HP5975T

Lims ID: ICV

Operator ID: RF

Client ID:

Worklist Smp#: 27

Purge Vol: 5.000 mL

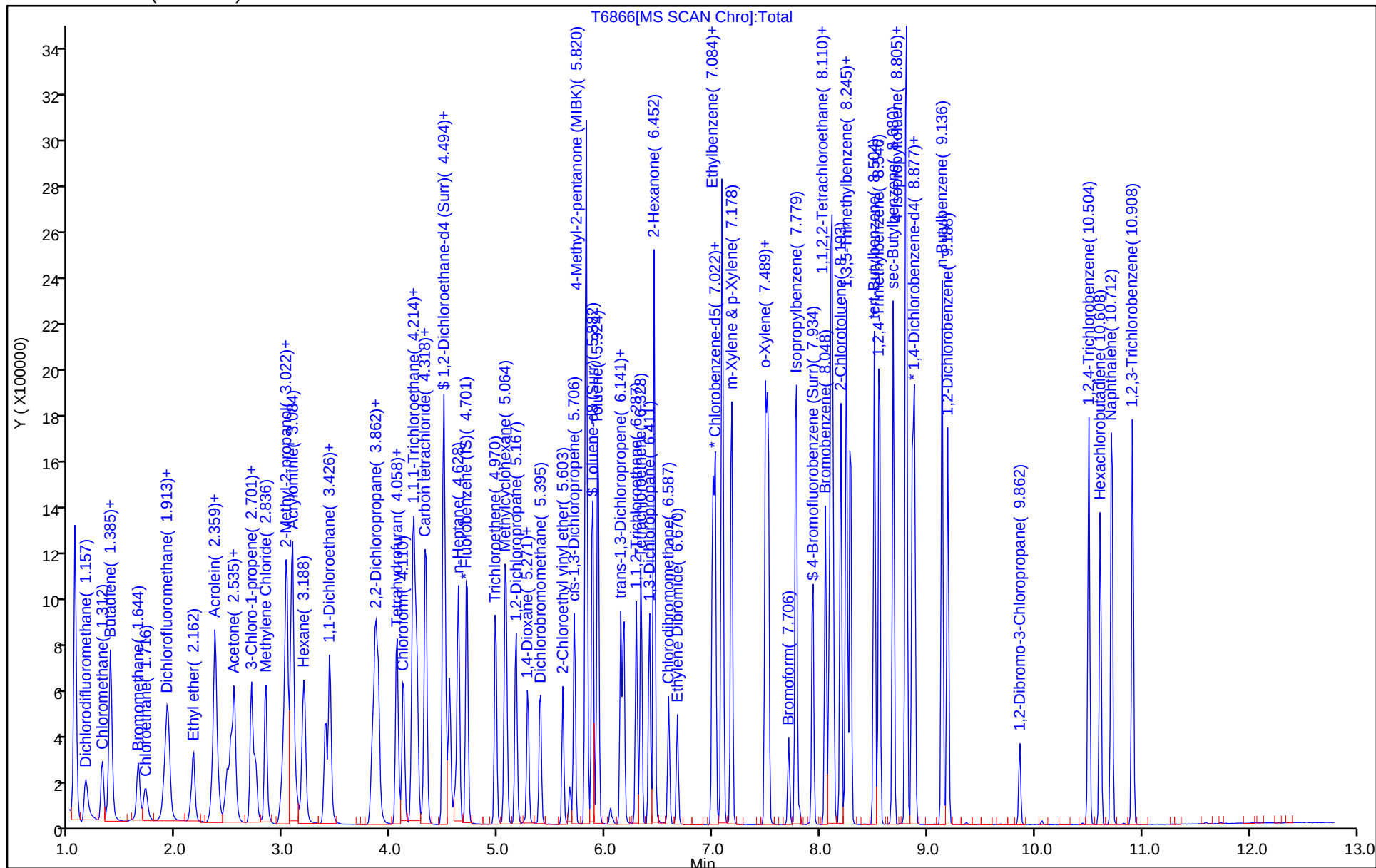
Dil. Factor: 1.0000

ALS Bottle#: 59

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: CCVIS 480-550111/3 Calibration Date: 09/18/2020 10:00

Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31

Lab File ID: T6879.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.823	1.795	0.1000	24.6	25.0	-1.6	50.0
Chloromethane	Ave	1.850	1.890	0.1000	25.5	25.0	2.1	20.0
Butadiene	Ave	1.685	1.682		25.0	25.0	-0.2	20.0
Vinyl chloride	Ave	1.782	1.845	0.1000	25.9	25.0	3.5	20.0
Bromomethane	Ave	1.167	1.183	0.1000	25.3	25.0	1.4	50.0
Chloroethane	Ave	1.093	1.033	0.1000	23.6	25.0	-5.5	50.0
Dichlorofluoromethane	Ave	2.583	2.617		25.3	25.0	1.3	20.0
Trichlorofluoromethane	Ave	2.238	2.371	0.1000	26.5	25.0	5.9	20.0
Ethyl ether	Ave	1.301	1.280		24.6	25.0	-1.7	20.0
Acrolein	Ave	0.1802	0.1745		121	125	-3.1	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.151	1.374	0.1000	29.9	25.0	19.4	20.0
1,1-Dichloroethene	Ave	1.104	1.248	0.1000	28.3	25.0	13.1	20.0
Acetone	Ave	0.5409	0.4865	0.1000	112	125	-10.1	50.0
Iodomethane	Ave	2.027	2.236		27.6	25.0	10.3	20.0
Carbon disulfide	Ave	3.907	4.483	0.1000	28.7	25.0	14.7	20.0
Allyl chloride	Ave	2.046	2.262		27.6	25.0	10.5	20.0
Methyl acetate	Ave	1.319	1.250	0.1000	47.4	50.0	-5.3	50.0
Methylene Chloride	Lin1		1.479	0.1000	25.2	25.0	0.8	20.0
2-Methyl-2-propanol	Ave	0.1747	0.2003		287	250	14.7	50.0
Methyl tert-butyl ether	Ave	4.374	4.550	0.1000	26.0	25.0	4.0	20.0
trans-1,2-Dichloroethene	Ave	1.312	1.413	0.1000	26.9	25.0	7.7	20.0
Acrylonitrile	Ave	0.6362	0.6427		253	250	1.0	20.0
Hexane	Ave	2.034	2.331		28.6	25.0	14.6	20.0
1,1-Dichloroethane	Ave	2.353	2.628	0.2000	27.9	25.0	11.7	20.0
Vinyl acetate	Ave	3.159	3.244		51.3	50.0	2.7	20.0
2,2-Dichloropropane	Ave	1.935	2.193		28.3	25.0	13.3	20.0
cis-1,2-Dichloroethene	Ave	1.476	1.544	0.1000	26.1	25.0	4.6	20.0
2-Butanone (MEK)	Ave	0.8098	0.7831	0.1000	121	125	-3.3	20.0
Chlorobromomethane	Ave	0.7479	0.7850		26.2	25.0	5.0	20.0
Tetrahydrofuran	Lin1		0.5360		47.7	50.0	-4.5	20.0
Chloroform	Ave	2.440	2.533	0.2000	26.0	25.0	3.8	20.0
1,1,1-Trichloroethane	Ave	2.001	2.307	0.1000	28.8	25.0	15.3	20.0
Cyclohexane	Ave	2.292	2.692	0.1000	29.4	25.0	17.4	20.0
1,1-Dichloropropene	Ave	1.720	2.019		29.3	25.0	17.4	20.0
Carbon tetrachloride	Ave	1.533	1.863	0.1000	30.4	25.0	21.5*	20.0
Benzene	Ave	5.132	5.594	0.5000	27.3	25.0	9.0	20.0
Isobutyl alcohol	Ave	0.0638	0.0727		712	625	14.0	50.0
1,2-Dichloroethane	Ave	2.196	2.205	0.1000	25.1	25.0	0.4	20.0
n-Heptane	Ave	2.340	2.481		26.5	25.0	6.0	20.0
Trichloroethene	Ave	1.359	1.478	0.2000	27.2	25.0	8.7	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: CCVIS 480-550111/3 Calibration Date: 09/18/2020 10:00

Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31

Lab File ID: T6879.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.249	2.695	0.1000	30.0	25.0	19.8	20.0
1,2-Dichloropropane	Ave	1.359	1.481	0.1000	27.2	25.0	8.9	20.0
Dibromomethane	Ave	0.9238	0.9694	0.1000	26.2	25.0	4.9	20.0
1,4-Dioxane	Ave	0.0031	0.0037		592	500	18.3	50.0
Bromodichloromethane	Ave	1.585	1.772	0.2000	27.9	25.0	11.8	20.0
2-Chloroethyl vinyl ether	Ave	1.065	1.073		25.2	25.0	0.8	20.0
cis-1,3-Dichloropropene	Ave	2.120	2.315	0.2000	27.3	25.0	9.2	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4928	0.4983	0.1000	126	125	1.1	20.0
Toluene	Ave	0.9428	1.019	0.4000	27.0	25.0	8.1	20.0
trans-1,3-Dichloropropene	Ave	0.5882	0.6268	0.1000	26.6	25.0	6.6	20.0
Ethyl methacrylate	Ave	0.5592	0.5893		26.3	25.0	5.4	20.0
1,1,2-Trichloroethane	Ave	0.3143	0.3240	0.1000	25.8	25.0	3.1	20.0
Tetrachloroethene	Ave	0.3883	0.4402	0.2000	28.3	25.0	13.4	20.0
1,3-Dichloropropane	Ave	0.6435	0.6601		25.6	25.0	2.6	20.0
2-Hexanone	Ave	0.3462	0.3593	0.1000	130	125	3.8	20.0
Dibromochloromethane	Ave	0.3174	0.3668	0.1000	28.9	25.0	15.6	20.0
1,2-Dibromoethane	Ave	0.3756	0.3927		26.1	25.0	4.6	20.0
Chlorobenzene	Ave	1.029	1.104	0.5000	26.8	25.0	7.3	20.0
Ethylbenzene	Ave	1.795	1.962	0.1000	27.3	25.0	9.3	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3296	0.3644		27.6	25.0	10.6	20.0
m,p-Xylene	Ave	0.6746	0.7432	0.1000	27.5	25.0	10.2	20.0
o-Xylene	Ave	0.6549	0.7364	0.3000	28.1	25.0	12.4	20.0
Styrene	Ave	1.127	1.242	0.3000	27.6	25.0	10.2	20.0
Bromoform	Ave	0.1816	0.2174	0.1000	29.9	25.0	19.7	50.0
Isopropylbenzene	Ave	3.104	3.494	0.1000	28.1	25.0	12.6	20.0
Bromobenzene	Ave	0.7910	0.8472		26.8	25.0	7.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9570	0.9933	0.3000	25.9	25.0	3.8	20.0
N-Propylbenzene	Ave	3.810	4.354		28.6	25.0	14.3	20.0
1,2,3-Trichloropropane	Ave	0.2968	0.3155		26.6	25.0	6.3	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2865	0.3312		28.9	25.0	15.6	50.0
2-Chlorotoluene	Ave	0.7363	0.8217		27.9	25.0	11.6	20.0
1,3,5-Trimethylbenzene	Ave	2.693	2.999		27.8	25.0	11.4	20.0
4-Chlorotoluene	Ave	2.736	2.996		27.4	25.0	9.5	20.0
tert-Butylbenzene	Ave	0.5542	0.6229		28.1	25.0	12.4	20.0
1,2,4-Trimethylbenzene	Ave	2.745	3.048		27.8	25.0	11.0	20.0
sec-Butylbenzene	Ave	3.380	3.888		28.8	25.0	15.0	20.0
4-Isopropyltoluene	Ave	2.950	3.383		28.7	25.0	14.7	20.0
1,3-Dichlorobenzene	Ave	1.535	1.667	0.6000	27.2	25.0	8.6	20.0
1,4-Dichlorobenzene	Ave	1.616	1.690	0.5000	26.1	25.0	4.6	20.0
n-Butylbenzene	Ave	2.773	3.243		29.2	25.0	17.0	20.0
1,2-Dichlorobenzene	Ave	1.532	1.662	0.4000	27.1	25.0	8.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-550111/3 Calibration Date: 09/18/2020 10:00
 Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31
 Lab File ID: T6879.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1605	0.1875	0.0500	29.2	25.0	16.8	50.0
1,2,4-Trichlorobenzene	Ave	1.147	1.269	0.2000	27.7	25.0	10.6	20.0
Hexachlorobutadiene	Ave	0.5422	0.6074		28.0	25.0	12.0	20.0
Naphthalene	Ave	3.293	3.465		26.3	25.0	5.2	20.0
1,2,3-Trichlorobenzene	Ave	1.164	1.243		26.7	25.0	6.8	20.0
Dibromofluoromethane (Surr)	Ave	1.173	1.200		25.6	25.0	2.3	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.604	1.602		25.0	25.0	-0.1	20.0
Toluene-d8 (Surr)	Ave	1.319	1.313		24.9	25.0	-0.5	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4004	0.3983		24.9	25.0	-0.5	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6879.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 18-Sep-2020 10:00:30 ALS Bottle#: 5 Worklist Smp#: 3
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0093526-003
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 18-Sep-2020 10:31:46 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1010

First Level Reviewer: farrellr

Date: 18-Sep-2020 10:31:46

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	163361	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.002	0.000	88	571003	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.857	8.857	0.000	96	316911	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	94	196072	25.0	25.6	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	261708	25.0	25.0	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	94	749961	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	227424	25.0	24.9	
11 Dichlorodifluoromethane	85	1.167	1.167	0.000	99	293176	25.0	24.6	
13 Chloromethane	50	1.323	1.323	0.000	99	308711	25.0	25.5	
151 Butadiene	54	1.395	1.395	0.000	92	274799	25.0	25.0	
14 Vinyl chloride	62	1.405	1.405	0.000	98	301460	25.0	25.9	
15 Bromomethane	94	1.654	1.654	0.000	91	193320	25.0	25.3	
16 Chloroethane	64	1.727	1.727	0.000	99	168710	25.0	23.6	
18 Dichlorofluoromethane	67	1.924	1.924	0.000	96	427525	25.0	25.3	
17 Trichlorofluoromethane	101	1.934	1.934	0.000	66	387288	25.0	26.5	
19 Ethyl ether	59	2.172	2.172	0.000	93	209047	25.0	24.6	
21 Acrolein	56	2.338	2.338	0.000	99	142534	125.0	121.1	
22 1,1-Dichloroethene	96	2.369	2.369	0.000	96	203933	25.0	28.3	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.369	0.000	57	224532	25.0	29.9	
23 Acetone	43	2.483	2.483	0.000	99	397336	125.0	112.4	
24 Iodomethane	142	2.525	2.525	0.000	98	365240	25.0	27.6	
25 Carbon disulfide	76	2.545	2.545	0.000	100	732340	25.0	28.7	
27 3-Chloro-1-propene	41	2.711	2.711	0.000	88	369549	25.0	27.6	
28 Methyl acetate	43	2.742	2.742	0.000	98	408344	50.0	47.4	
30 Methylene Chloride	84	2.836	2.836	0.000	95	241545	25.0	25.2	
31 2-Methyl-2-propanol	59	3.001	3.001	0.000	98	327253	250.0	286.7	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	99	743297	25.0	26.0	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	96	230828	25.0	26.9	
34 Acrylonitrile	53	3.084	3.084	0.000	97	1049932	250.0	252.5	
35 Hexane	57	3.198	3.198	0.000	93	380721	25.0	28.6	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.395	3.395	0.000	97	429315	25.0	27.9	
39 Vinyl acetate	43	3.437	3.437	0.000	98	1059824	50.0	51.3	
42 2,2-Dichloropropane	77	3.841	3.841	0.000	90	358209	25.0	28.3	
43 cis-1,2-Dichloroethene	96	3.862	3.862	0.000	82	252249	25.0	26.1	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	639605	125.0	120.9	
47 Chlorobromomethane	128	4.058	4.058	0.000	98	128243	25.0	26.2	
48 Tetrahydrofuran	42	4.058	4.058	0.000	87	175135	50.0	47.7	
50 Chloroform	83	4.121	4.121	0.000	94	413822	25.0	26.0	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	97	376925	25.0	28.8	
52 Cyclohexane	56	4.214	4.214	0.000	96	439714	25.0	29.4	
53 Carbon tetrachloride	117	4.328	4.328	0.000	75	304309	25.0	30.4	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	92	329832	25.0	29.3	
55 Benzene	78	4.494	4.494	0.000	97	913917	25.0	27.3	
56 Isobutyl alcohol	43	4.514	4.514	0.000	93	296877	625.0	712.2	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	98	360163	25.0	25.1	
59 n-Heptane	43	4.628	4.628	0.000	91	405366	25.0	26.5	
60 Trichloroethene	95	4.981	4.981	0.000	97	241427	25.0	27.2	
62 Methylcyclohexane	83	5.074	5.074	0.000	93	440197	25.0	30.0	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	93	241897	25.0	27.2	
65 Dibromomethane	93	5.271	5.271	0.000	95	158356	25.0	26.2	
66 1,4-Dioxane	88	5.281	5.281	0.000	36	42438	500.0	591.5	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	289418	25.0	27.9	
69 2-Chloroethyl vinyl ether	63	5.603	5.603	0.000	93	175301	25.0	25.2	
71 cis-1,3-Dichloropropene	75	5.706	5.706	0.000	93	378168	25.0	27.3	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	1422530	125.0	126.4	
73 Toluene	92	5.934	5.934	0.000	98	581960	25.0	27.0	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	97	357926	25.0	26.6	
77 Ethyl methacrylate	69	6.172	6.172	0.000	90	336487	25.0	26.3	
78 1,1,2-Trichloroethane	83	6.286	6.286	0.000	92	185012	25.0	25.8	
79 Tetrachloroethene	166	6.328	6.328	0.000	96	251369	25.0	28.3	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	93	376931	25.0	25.6	
81 2-Hexanone	43	6.452	6.452	0.000	96	1025897	125.0	129.8	
82 Chlorodibromomethane	129	6.587	6.587	0.000	90	209461	25.0	28.9	
83 Ethylene Dibromide	107	6.670	6.670	0.000	99	224215	25.0	26.1	
86 Chlorobenzene	112	7.022	7.022	0.000	93	630493	25.0	26.8	
88 Ethylbenzene	91	7.084	7.084	0.000	99	1120154	25.0	27.3	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	92	208053	25.0	27.6	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	424397	25.0	27.5	
91 o-Xylene	106	7.489	7.489	0.000	99	420479	25.0	28.1	
92 Styrene	104	7.520	7.520	0.000	95	709208	25.0	27.6	
93 Bromoform	173	7.706	7.706	0.000	94	124161	25.0	29.9	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	1107298	25.0	28.1	
97 Bromobenzene	156	8.048	8.048	0.000	98	268481	25.0	26.8	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.090	0.000	95	314779	25.0	25.9	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	1379698	25.0	28.6	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	84	104967	25.0	28.9	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	88	99993	25.0	26.6	
105 2-Chlorotoluene	126	8.193	8.193	0.000	96	260418	25.0	27.9	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	95	950523	25.0	27.8	
102 4-Chlorotoluene	91	8.287	8.287	0.000	98	949406	25.0	27.4	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	197419	25.0	28.1	
107 1,2,4-Trimethylbenzene	105	8.556	8.556	0.000	98	966004	25.0	27.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	1232167	25.0	28.8	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	1072109	25.0	28.7	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	97	528331	25.0	27.2	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	92	535567	25.0	26.1	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	1027872	25.0	29.2	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	526808	25.0	27.1	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	80	59421	25.0	29.2	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	402236	25.0	27.7	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	97	192482	25.0	28.0	
121 Naphthalene	128	10.712	10.712	0.000	98	1097955	25.0	26.3	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	94	394049	25.0	26.7	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00193	Amount Added: 12.50	Units: uL	
GAS CORP mix_00418	Amount Added: 12.50	Units: uL	
T_8260_Surr_00210	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00249	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6879.D

Injection Date: 18-Sep-2020 10:00:30

Instrument ID: HP5975T

Lims ID: CCVIS

Operator ID: RF

Client ID:

Worklist Smp#: 3

Purge Vol: 5.000 mL

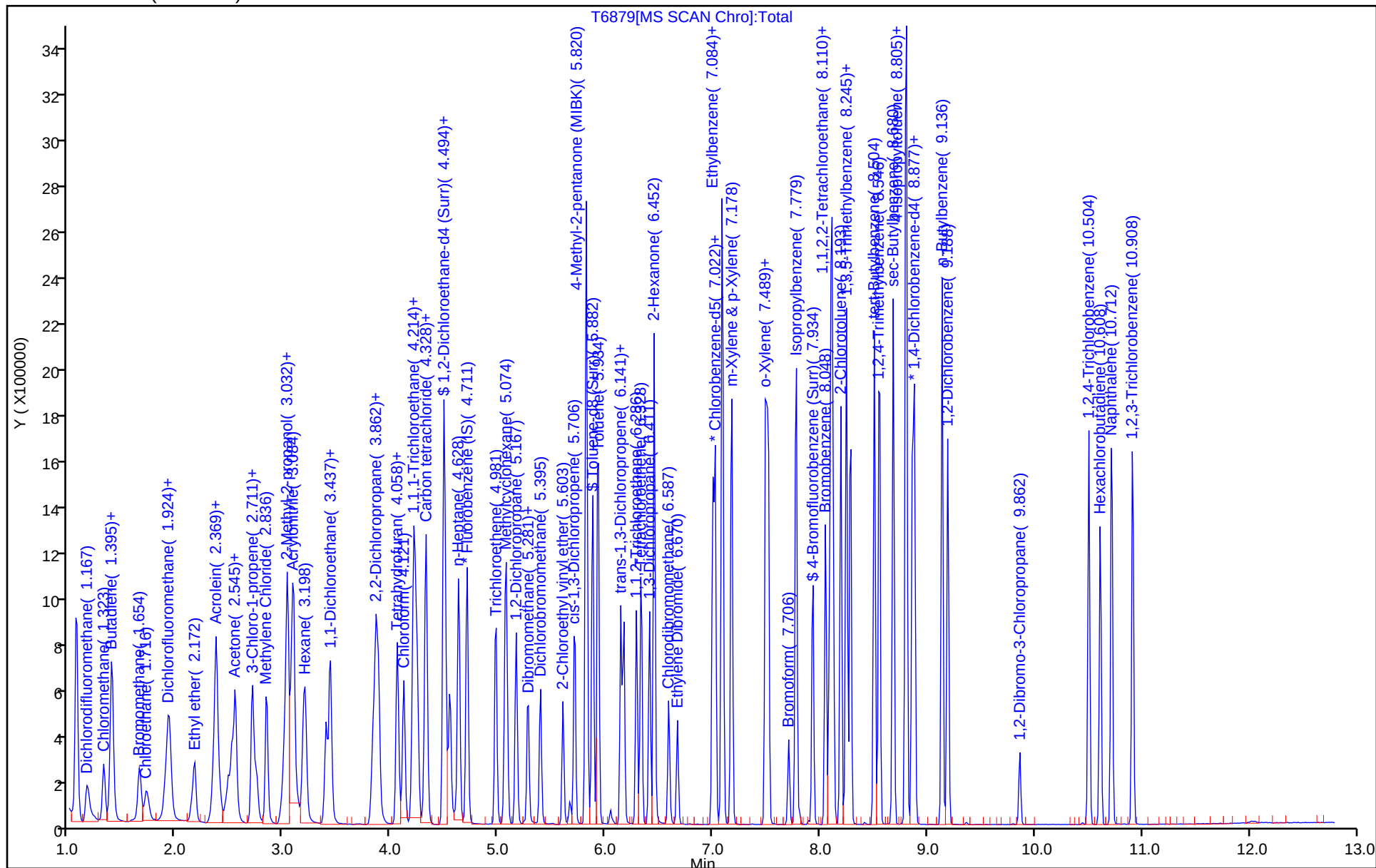
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: CCVIS 480-550367/4 Calibration Date: 09/21/2020 09:33

Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31

Lab File ID: T6934.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Dichlorodifluoromethane	Ave	1.823	1.664	0.1000	22.8	25.0	-8.7	50.0
Chloromethane	Ave	1.850	1.786	0.1000	24.1	25.0	-3.5	20.0
Butadiene	Ave	1.685	1.729		25.7	25.0	2.6	20.0
Vinyl chloride	Ave	1.782	1.759	0.1000	24.7	25.0	-1.3	20.0
Bromomethane	Ave	1.167	1.159	0.1000	24.8	25.0	-0.7	50.0
Chloroethane	Ave	1.093	1.108	0.1000	25.4	25.0	1.4	50.0
Dichlorofluoromethane	Ave	2.583	2.538		24.6	25.0	-1.7	20.0
Trichlorofluoromethane	Ave	2.238	2.251	0.1000	25.1	25.0	0.6	20.0
Ethyl ether	Ave	1.301	1.338		25.7	25.0	2.8	20.0
Acrolein	Ave	0.1802	0.1890		131	125	4.9	50.0
1,1,2-Trichloro-1,2,2-trifluoroethane	Ave	1.151	1.295	0.1000	28.1	25.0	12.5	20.0
1,1-Dichloroethene	Ave	1.104	1.197	0.1000	27.1	25.0	8.4	20.0
Acetone	Ave	0.5409	0.6193	0.1000	143	125	14.5	50.0
Iodomethane	Ave	2.027	2.075		25.6	25.0	2.4	20.0
Carbon disulfide	Ave	3.907	4.234	0.1000	27.1	25.0	8.4	20.0
Allyl chloride	Ave	2.046	2.231		27.3	25.0	9.0	20.0
Methyl acetate	Ave	1.319	1.329	0.1000	50.4	50.0	0.8	50.0
Methylene Chloride	Lin1		1.416	0.1000	24.1	25.0	-3.6	20.0
2-Methyl-2-propanol	Ave	0.1747	0.2000		286	250	14.5	50.0
Methyl tert-butyl ether	Ave	4.374	4.350	0.1000	24.9	25.0	-0.5	20.0
trans-1,2-Dichloroethene	Ave	1.312	1.383	0.1000	26.4	25.0	5.4	20.0
Acrylonitrile	Ave	0.6362	0.6483		255	250	1.9	20.0
Hexane	Ave	2.034	2.376		29.2	25.0	16.8	20.0
1,1-Dichloroethane	Ave	2.353	2.473	0.2000	26.3	25.0	5.1	20.0
Vinyl acetate	Ave	3.159	3.308		52.4	50.0	4.7	20.0
2,2-Dichloropropane	Ave	1.935	2.119		27.4	25.0	9.5	20.0
cis-1,2-Dichloroethene	Ave	1.476	1.481	0.1000	25.1	25.0	0.3	20.0
2-Butanone (MEK)	Ave	0.8098	0.8843	0.1000	137	125	9.2	20.0
Chlorobromomethane	Ave	0.7479	0.7433		24.8	25.0	-0.6	20.0
Tetrahydrofuran	Lin1		0.5766		51.4	50.0	2.8	20.0
Chloroform	Ave	2.440	2.430	0.2000	24.9	25.0	-0.4	20.0
1,1,1-Trichloroethane	Ave	2.001	2.111	0.1000	26.4	25.0	5.5	20.0
Cyclohexane	Ave	2.292	2.671	0.1000	29.1	25.0	16.5	20.0
Carbon tetrachloride	Ave	1.533	1.594	0.1000	26.0	25.0	3.9	20.0
1,1-Dichloropropene	Ave	1.720	1.949		28.3	25.0	13.3	20.0
Benzene	Ave	5.132	5.395	0.5000	26.3	25.0	5.1	20.0
Isobutyl alcohol	Ave	0.0638	0.0753		737	625	18.0	50.0
1,2-Dichloroethane	Ave	2.196	2.217	0.1000	25.2	25.0	0.9	20.0
n-Heptane	Ave	2.340	2.630		28.1	25.0	12.4	20.0
Trichloroethene	Ave	1.359	1.434	0.2000	26.4	25.0	5.5	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: CCVIS 480-550367/4 Calibration Date: 09/21/2020 09:33

Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41

GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31

Lab File ID: T6934.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Methylcyclohexane	Ave	2.249	2.576	0.1000	28.6	25.0	14.6	20.0
1,2-Dichloropropane	Ave	1.359	1.444	0.1000	26.6	25.0	6.2	20.0
1,4-Dioxane	Ave	0.0031	0.0048		761	500	52.2*	50.0
Dibromomethane	Ave	0.9238	0.9179	0.1000	24.8	25.0	-0.6	20.0
Bromodichloromethane	Ave	1.585	1.679	0.2000	26.5	25.0	6.0	20.0
2-Chloroethyl vinyl ether	Ave	1.065	1.055		24.8	25.0	-1.0	20.0
cis-1,3-Dichloropropene	Ave	2.120	2.212	0.2000	26.1	25.0	4.3	20.0
4-Methyl-2-pentanone (MIBK)	Ave	0.4928	0.5346	0.1000	136	125	8.5	20.0
Toluene	Ave	0.9428	1.013	0.4000	26.9	25.0	7.4	20.0
trans-1,3-Dichloropropene	Ave	0.5882	0.6331	0.1000	26.9	25.0	7.6	20.0
Ethyl methacrylate	Ave	0.5592	0.5627		25.2	25.0	0.6	20.0
1,1,2-Trichloroethane	Ave	0.3143	0.3184	0.1000	25.3	25.0	1.3	20.0
Tetrachloroethene	Ave	0.3883	0.4295	0.2000	27.7	25.0	10.6	20.0
1,3-Dichloropropane	Ave	0.6435	0.6575		25.5	25.0	2.2	20.0
2-Hexanone	Ave	0.3462	0.3942	0.1000	142	125	13.9	20.0
Dibromochloromethane	Ave	0.3174	0.3301	0.1000	26.0	25.0	4.0	20.0
1,2-Dibromoethane	Ave	0.3756	0.3866		25.7	25.0	2.9	20.0
Chlorobenzene	Ave	1.029	1.064	0.5000	25.9	25.0	3.4	20.0
Ethylbenzene	Ave	1.795	1.941	0.1000	27.0	25.0	8.1	20.0
1,1,1,2-Tetrachloroethane	Ave	0.3296	0.3408		25.9	25.0	3.4	20.0
m,p-Xylene	Ave	0.6746	0.7357	0.1000	27.3	25.0	9.1	20.0
o-Xylene	Ave	0.6549	0.6971	0.3000	26.6	25.0	6.4	20.0
Styrene	Ave	1.127	1.199	0.3000	26.6	25.0	6.4	20.0
Bromoform	Ave	0.1816	0.1957	0.1000	26.9	25.0	7.7	50.0
Isopropylbenzene	Ave	3.104	3.346	0.1000	26.9	25.0	7.8	20.0
Bromobenzene	Ave	0.7910	0.7921		25.0	25.0	0.1	20.0
1,1,2,2-Tetrachloroethane	Ave	0.9570	0.997	0.3000	26.1	25.0	4.2	20.0
N-Propylbenzene	Ave	3.810	4.275		28.0	25.0	12.2	20.0
1,2,3-Trichloropropane	Ave	0.2968	0.3122		26.3	25.0	5.2	20.0
trans-1,4-Dichloro-2-butene	Ave	0.2865	0.3507		30.6	25.0	22.4	50.0
2-Chlorotoluene	Ave	0.7363	0.7859		26.7	25.0	6.7	20.0
1,3,5-Trimethylbenzene	Ave	2.693	2.943		27.3	25.0	9.3	20.0
4-Chlorotoluene	Ave	2.736	2.979		27.2	25.0	8.9	20.0
tert-Butylbenzene	Ave	0.5542	0.6058		27.3	25.0	9.3	20.0
1,2,4-Trimethylbenzene	Ave	2.745	2.977		27.1	25.0	8.4	20.0
sec-Butylbenzene	Ave	3.380	3.802		28.1	25.0	12.5	20.0
4-Isopropyltoluene	Ave	2.950	3.215		27.2	25.0	9.0	20.0
1,3-Dichlorobenzene	Ave	1.535	1.577	0.6000	25.7	25.0	2.8	20.0
1,4-Dichlorobenzene	Ave	1.616	1.659	0.5000	25.7	25.0	2.6	20.0
n-Butylbenzene	Ave	2.773	3.176		28.6	25.0	14.5	20.0
1,2-Dichlorobenzene	Ave	1.532	1.583	0.4000	25.8	25.0	3.3	20.0

FORM VII
GC/MS VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: CCVIS 480-550367/4 Calibration Date: 09/21/2020 09:33
 Instrument ID: HP5975T Calib Start Date: 09/16/2020 13:41
 GC Column: ZB-624 (20) ID: 0.18 (mm) Calib End Date: 09/16/2020 16:31
 Lab File ID: T6934.D Conc. Units: ug/L Heated Purge: (Y/N) N

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,2-Dibromo-3-Chloropropane	Ave	0.1605	0.1854	0.0500	28.9	25.0	15.6	50.0
1,2,4-Trichlorobenzene	Ave	1.147	1.184	0.2000	25.8	25.0	3.2	20.0
Hexachlorobutadiene	Ave	0.5422	0.5772		26.6	25.0	6.5	20.0
Naphthalene	Ave	3.293	3.377		25.6	25.0	2.6	20.0
1,2,3-Trichlorobenzene	Ave	1.164	1.167		25.1	25.0	0.3	20.0
Dibromofluoromethane (Surr)	Ave	1.173	1.186		25.3	25.0	1.1	20.0
1,2-Dichloroethane-d4 (Surr)	Ave	1.604	1.642		25.6	25.0	2.4	20.0
Toluene-d8 (Surr)	Ave	1.319	1.324		25.1	25.0	0.4	20.0
4-Bromofluorobenzene (Surr)	Ave	0.4004	0.4017		25.1	25.0	0.3	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6934.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 21-Sep-2020 09:33:30 ALS Bottle#: 3 Worklist Smp#: 4
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: ccvis
 Misc. Info.: 480-0093576-004
 Operator ID: RF Instrument ID: HP5975T
 Sublist: chrom-T-8260*sub48
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Sep-2020 11:50:11 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1052

First Level Reviewer: farrellr

Date: 21-Sep-2020 10:00:07

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	170452	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	581939	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	96	321190	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	93	202157	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	279956	25.0	25.6	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	770758	25.0	25.1	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	233780	25.0	25.1	
11 Dichlorodifluoromethane	85	1.157	1.157	0.000	99	283632	25.0	22.8	
13 Chloromethane	50	1.312	1.312	0.000	99	304497	25.0	24.1	
151 Butadiene	54	1.385	1.385	0.000	94	294703	25.0	25.7	
14 Vinyl chloride	62	1.395	1.395	0.000	98	299760	25.0	24.7	
15 Bromomethane	94	1.644	1.644	0.000	92	197561	25.0	24.8	
16 Chloroethane	64	1.716	1.716	0.000	99	188927	25.0	25.4	
18 Dichlorofluoromethane	67	1.924	1.924	0.000	98	432654	25.0	24.6	
17 Trichlorofluoromethane	101	1.924	1.924	0.000	98	383685	25.0	25.1	
19 Ethyl ether	59	2.162	2.162	0.000	93	228004	25.0	25.7	
21 Acrolein	56	2.338	2.338	0.000	99	161042	125.0	131.1	
22 1,1-Dichloroethene	96	2.359	2.359	0.000	95	204068	25.0	27.1	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.359	2.359	0.000	60	220786	25.0	28.1	
23 Acetone	43	2.473	2.473	0.000	98	527814	125.0	143.1	
24 Iodomethane	142	2.514	2.514	0.000	98	353725	25.0	25.6	
25 Carbon disulfide	76	2.545	2.545	0.000	100	721719	25.0	27.1	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	87	380346	25.0	27.3	
28 Methyl acetate	43	2.742	2.742	0.000	98	453109	50.0	50.4	
30 Methylene Chloride	84	2.836	2.836	0.000	97	241278	25.0	24.1	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	99	340901	250.0	286.2	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	99	741508	25.0	24.9	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	96	235755	25.0	26.4	
34 Acrylonitrile	53	3.084	3.084	0.000	97	1104982	250.0	254.7	
35 Hexane	57	3.188	3.188	0.000	94	405059	25.0	29.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
36 1,1-Dichloroethane	63	3.395	3.395	0.000	96	421527	25.0	26.3	
39 Vinyl acetate	43	3.437	3.437	0.000	98	1127540	50.0	52.4	
42 2,2-Dichloropropane	77	3.830	3.830	0.000	92	361210	25.0	27.4	
43 cis-1,2-Dichloroethene	96	3.861	3.861	0.000	84	252465	25.0	25.1	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	753683	125.0	136.5	
48 Tetrahydrofuran	42	4.058	4.058	0.000	88	196577	50.0	51.4	
47 Chlorobromomethane	128	4.058	4.058	0.000	97	126705	25.0	24.8	
50 Chloroform	83	4.121	4.121	0.000	95	414155	25.0	24.9	
51 1,1,1-Trichloroethane	97	4.203	4.203	0.000	97	359867	25.0	26.4	
52 Cyclohexane	56	4.214	4.214	0.000	94	455250	25.0	29.1	
53 Carbon tetrachloride	117	4.317	4.317	0.000	97	271635	25.0	26.0	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	93	332187	25.0	28.3	
55 Benzene	78	4.494	4.494	0.000	97	919511	25.0	26.3	
56 Isobutyl alcohol	43	4.514	4.514	0.000	93	320707	625.0	737.4	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	98	377810	25.0	25.2	
59 n-Heptane	43	4.628	4.628	0.000	92	448233	25.0	28.1	
60 Trichloroethene	95	4.970	4.970	0.000	97	244430	25.0	26.4	
62 Methylcyclohexane	83	5.074	5.074	0.000	94	439087	25.0	28.6	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	92	246113	25.0	26.6	
65 Dibromomethane	93	5.271	5.271	0.000	96	156463	25.0	24.8	
66 1,4-Dioxane	88	5.271	5.271	0.000	40	55637	500.0	760.9	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	286263	25.0	26.5	
69 2-Chloroethyl vinyl ether	63	5.602	5.602	0.000	94	179784	25.0	24.8	
71 cis-1,3-Dichloropropene	75	5.706	5.706	0.000	92	376981	25.0	26.1	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	1555434	125.0	135.6	
73 Toluene	92	5.924	5.924	0.000	98	589348	25.0	26.9	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	97	368449	25.0	26.9	
77 Ethyl methacrylate	69	6.172	6.172	0.000	91	327428	25.0	25.2	
78 1,1,2-Trichloroethane	83	6.286	6.286	0.000	91	185261	25.0	25.3	
79 Tetrachloroethene	166	6.328	6.328	0.000	95	249937	25.0	27.7	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	95	382640	25.0	25.5	
81 2-Hexanone	43	6.452	6.452	0.000	97	1146898	125.0	142.3	
82 Chlorodibromomethane	129	6.587	6.587	0.000	91	192070	25.0	26.0	
83 Ethylene Dibromide	107	6.670	6.670	0.000	97	224984	25.0	25.7	
86 Chlorobenzene	112	7.022	7.022	0.000	93	619281	25.0	25.9	
88 Ethylbenzene	91	7.084	7.084	0.000	99	1129390	25.0	27.0	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	91	198333	25.0	25.9	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	428140	25.0	27.3	
91 o-Xylene	106	7.489	7.489	0.000	99	405677	25.0	26.6	
92 Styrene	104	7.520	7.520	0.000	95	697814	25.0	26.6	
93 Bromoform	173	7.706	7.706	0.000	94	113867	25.0	26.9	
95 Isopropylbenzene	105	7.779	7.779	0.000	97	1074819	25.0	26.9	
97 Bromobenzene	156	8.048	8.048	0.000	99	254404	25.0	25.0	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.090	0.000	96	320325	25.0	26.1	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	1373017	25.0	28.0	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	87	112627	25.0	30.6	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	89	100269	25.0	26.3	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	252408	25.0	26.7	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	95	945281	25.0	27.3	
102 4-Chlorotoluene	91	8.276	8.276	0.000	98	956817	25.0	27.2	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	194584	25.0	27.3	
107 1,2,4-Trimethylbenzene	105	8.546	8.546	0.000	98	956093	25.0	27.1	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	1221309	25.0	28.1	
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	1032728	25.0	27.2	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	98	506614	25.0	25.7	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	532896	25.0	25.7	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	1020064	25.0	28.6	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	508414	25.0	25.8	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	78	59556	25.0	28.9	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	380293	25.0	25.8	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	96	185390	25.0	26.6	
121 Naphthalene	128	10.711	10.711	0.000	98	1084763	25.0	25.6	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	94	374942	25.0	25.1	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00193	Amount Added: 12.50	Units: uL	
GAS CORP mix_00418	Amount Added: 12.50	Units: uL	
T_8260_Surr_00210	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00249	Amount Added: 1.00	Units: uL	Run Reagent

Report Date: 21-Sep-2020 11:50:13

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6934.D

Injection Date: 21-Sep-2020 09:33:30

Instrument ID: HP5975T

Lims ID: CCVIS

Operator ID: RF

Client ID:

Worklist Smp#: 4

Purge Vol: 5.000 mL

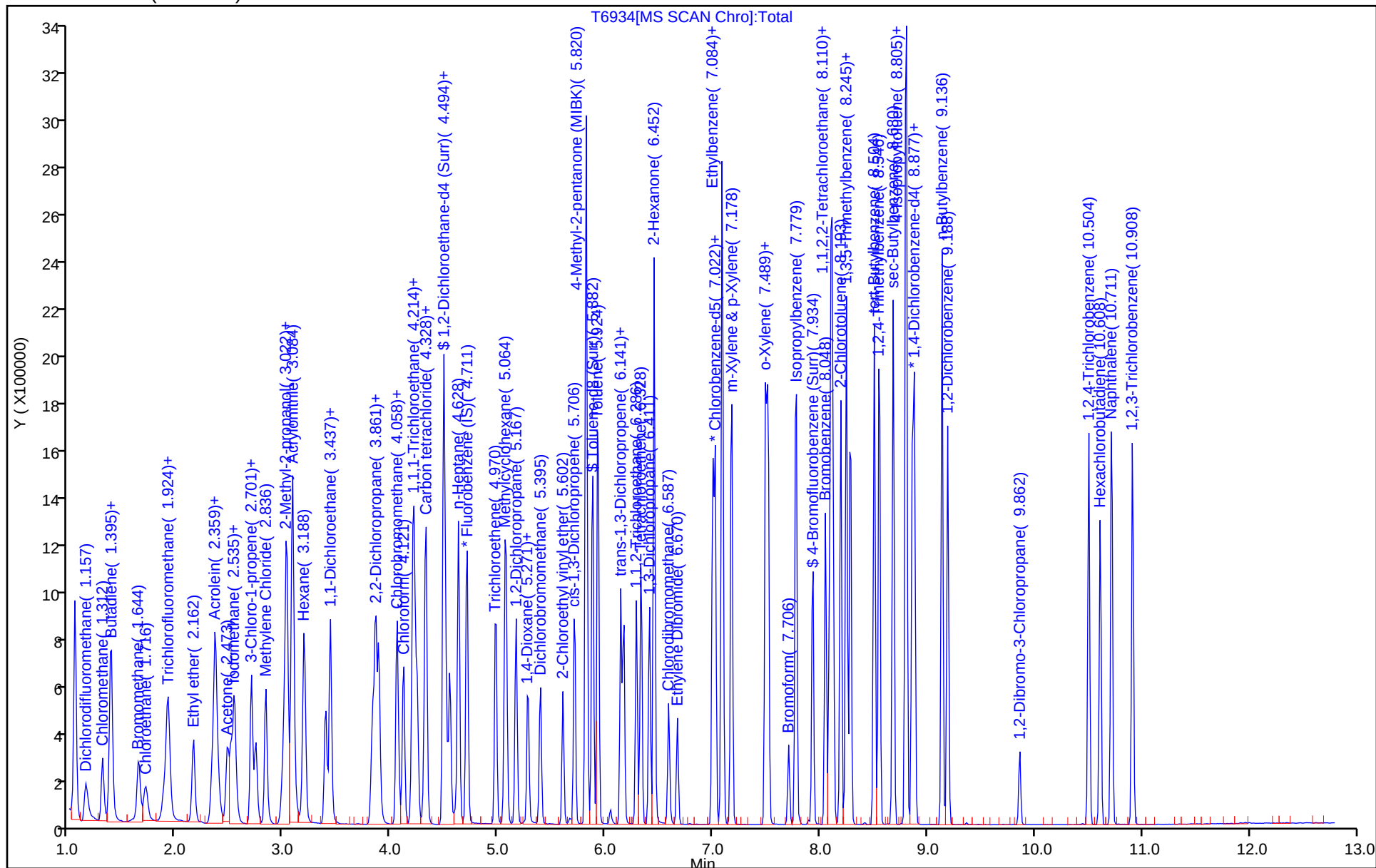
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6843.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 16-Sep-2020 12:54:30 ALS Bottle#: 36 Worklist Smp#: 4
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 480-0093466-004
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 17-Sep-2020 16:26:21 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1022

First Level Reviewer: farrellr

Date: 16-Sep-2020 13:02:02

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

\$ 5 BFB	95	5.334	5.334	0.000	85	193159	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MV_BFB_STK_00073

Amount Added: 1.00

Units: uL

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6843.D

Injection Date: 16-Sep-2020 12:54:30

Instrument ID: HP5975T

Lims ID: BFB

Client ID:

Operator ID: RF

ALS Bottle#: 36 Worklist Smp#: 4

Injection Vol: 1.0 uL

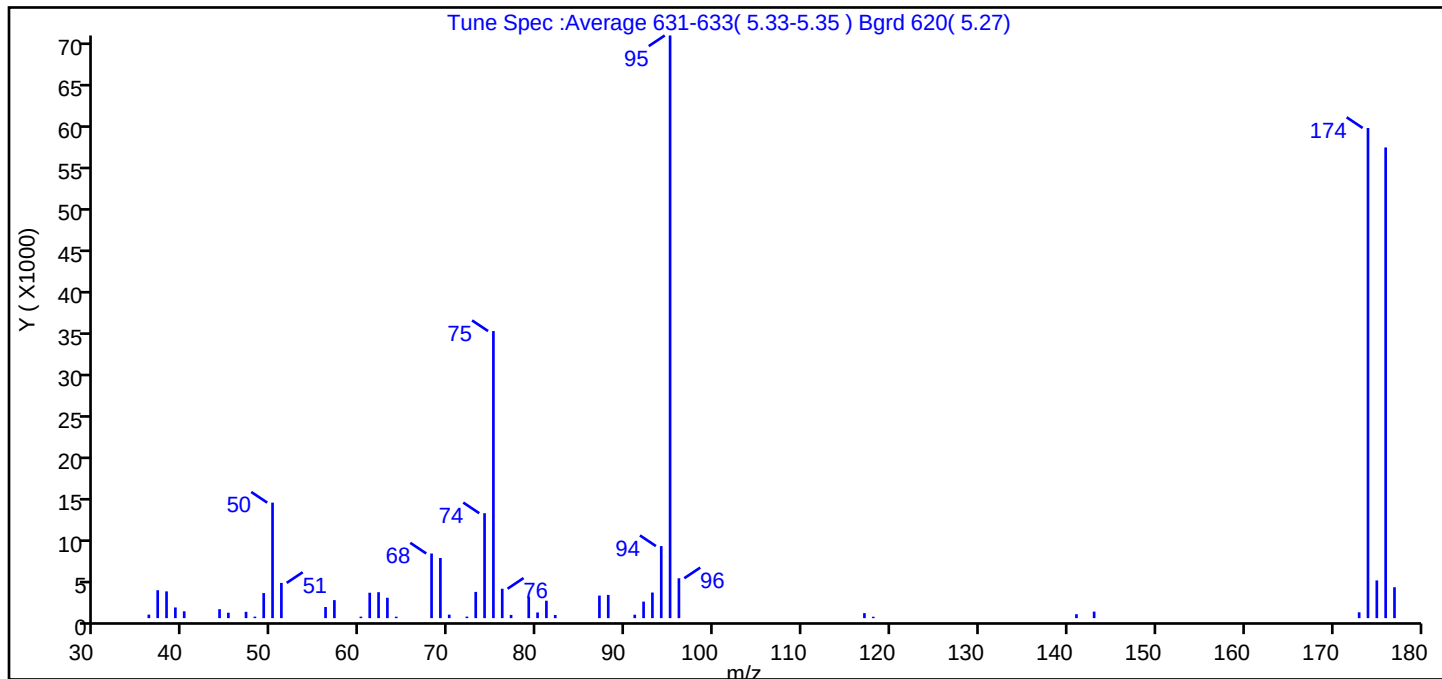
Dil. Factor: 1.0000

Method: T-8260

Limit Group: MV - 8260C ICAL

Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.8
75	30 to 60% of m/z 95	49.3
96	5 to 9% of m/z 95	6.8
173	Less than 2% of m/z 174	1.0 (1.2)
174	50 to 120% of m/z 95	84.1
175	5 to 9% of m/z 174	6.5 (7.7)
176	Greater than 95% but less than 101% of m/z 174	80.8 (96.0)
177	5 to 9% of m/z 176	5.3 (6.6)

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6843.D\T-8260.rslt\spectra.d
Injection Date: 16-Sep-2020 12:54:30
Spectrum: Tune Spec :Average 631-633(5.33-5.35) Bgrd 620(5.27)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 49

m/z	Y	m/z	Y	m/z	Y	m/z	Y
36.00	429	57.00	2182	76.00	3564	96.00	4834
37.00	3383	60.00	182	77.00	389	117.00	608
38.00	3243	61.00	3078	79.00	2583	118.00	169
39.00	1295	62.00	3143	80.00	690	141.00	480
40.00	830	63.00	2473	81.00	2111	143.00	791
44.00	1086	64.00	177	82.00	382	173.00	708
45.00	655	68.00	7835	87.00	2735	174.00	59392
47.00	769	69.00	7287	88.00	2813	175.00	4571
48.00	182	70.00	425	91.00	415	176.00	57032
49.00	3039	72.00	189	92.00	2005	177.00	3745
50.00	13997	73.00	3180	93.00	3105		
51.00	4271	74.00	12715	94.00	8732		
56.00	1347	75.00	34784	95.00	70600		

Report Date: 17-Sep-2020 16:26:22

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6843.D

Injection Date: 16-Sep-2020 12:54:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: BFB

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 uL

Dil. Factor: 1.0000

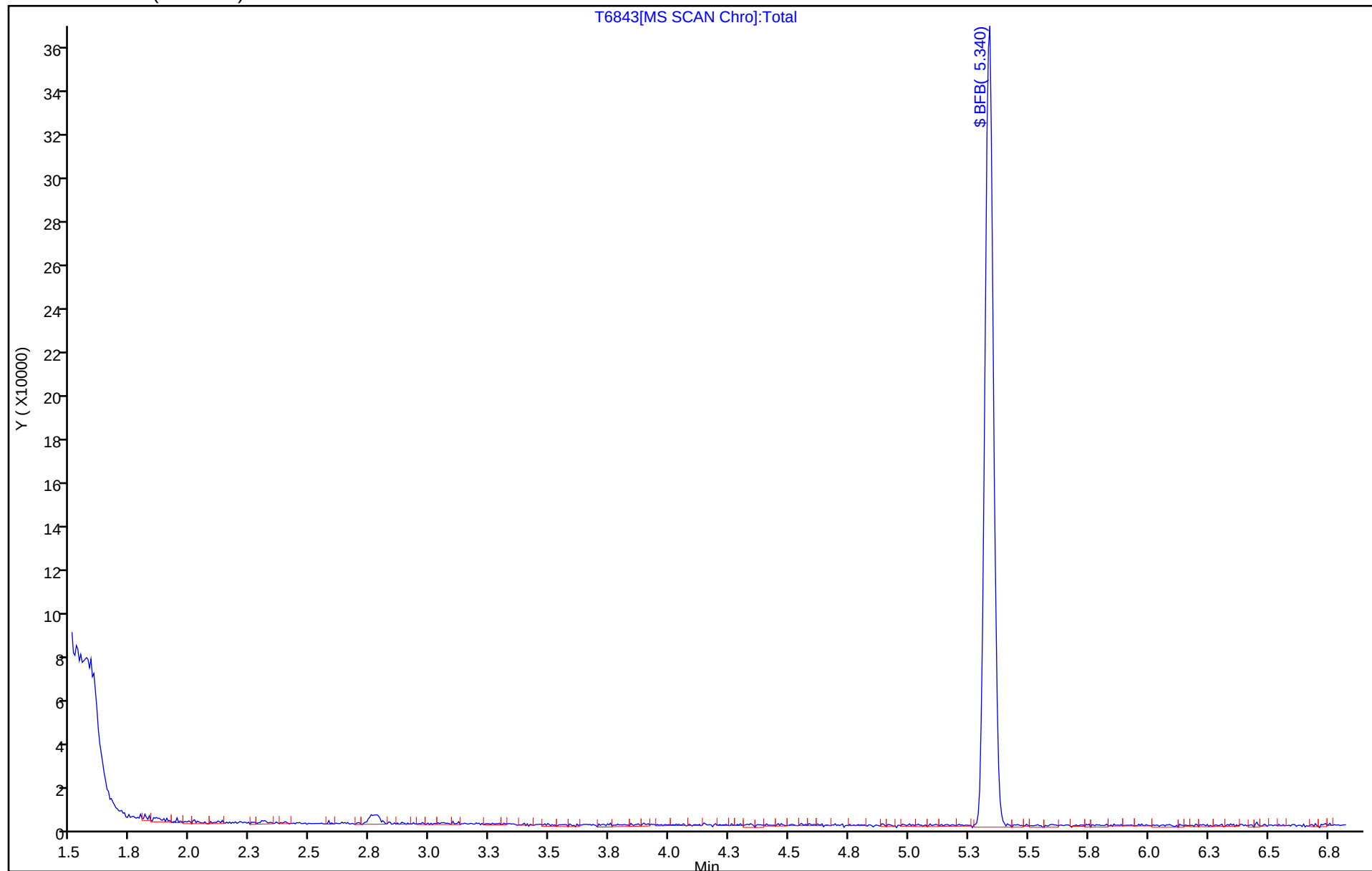
ALS Bottle#: 36

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)

T6843[MS SCAN Chro]:Total



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6876.D
Lims ID: BFB
Client ID:
Sample Type: BFB
Inject. Date: 18-Sep-2020 08:49:30 ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Sample Info: bfb
Misc. Info.: 480-0093526-002
Operator ID: RF Instrument ID: HP5975T
Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
Limit Group: MV - 8260C ICAL
Last Update: 18-Sep-2020 08:57:46 Calib Date: 16-Sep-2020 20:57:30
Integrator: RTE ID Type: Deconvolution ID
Quant Method: Internal Standard Quant By: Initial Calibration
Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
Process Host: CTX1010

First Level Reviewer: farrellr

Date: 18-Sep-2020 08:57:46

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

\$ 5 BFB 95 5.334 5.334 0.000 84 144356 NR NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00110

Amount Added: 1.00

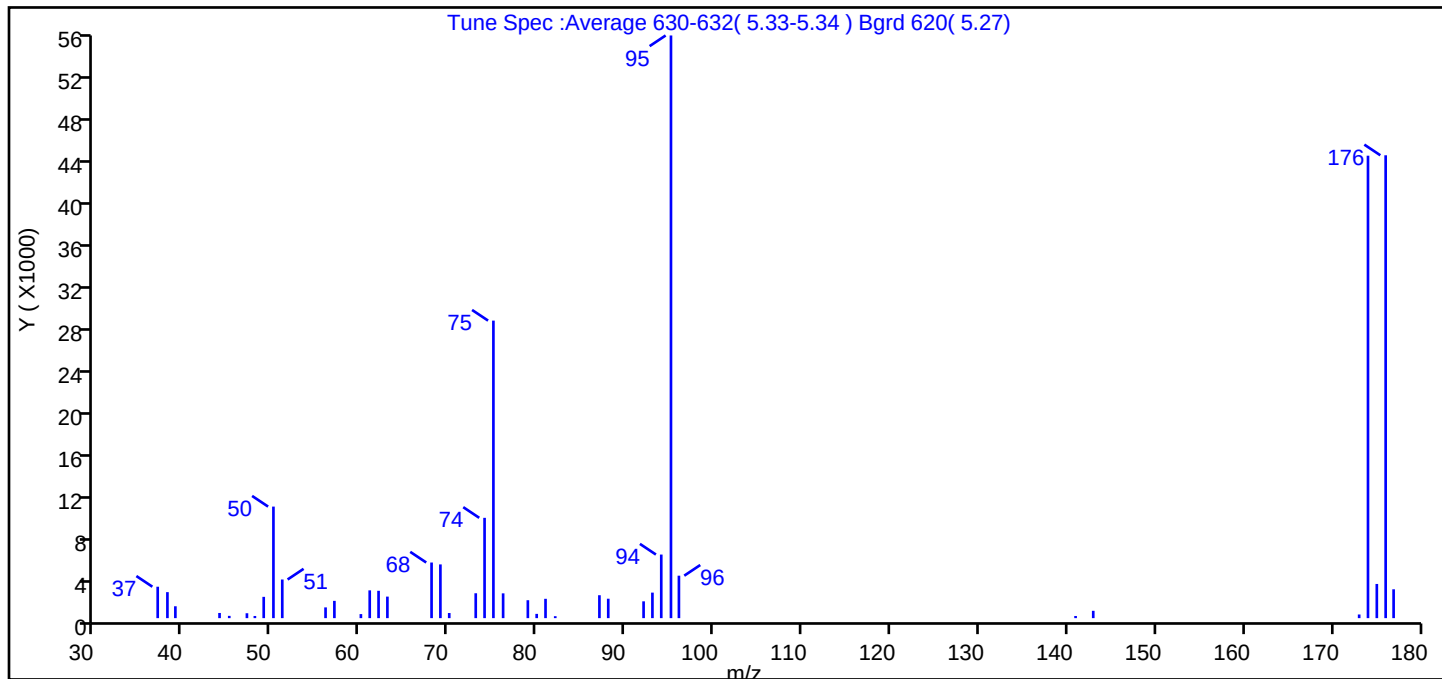
Units: uL

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6876.D
Injection Date: 18-Sep-2020 08:49:30 Instrument ID: HP5975T
Lims ID: BFB
Client ID:
Operator ID: RF
Injection Vol: 1.0 uL
Method: T-8260
Tune Method: BFB Method 8260

ALS Bottle#: 2 Worklist Smp#: 2
Dil. Factor: 1.0000
Limit Group: MV - 8260C ICAL

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	19.1
75	30 to 60% of m/z 95	51.1
96	5 to 9% of m/z 95	7.3
173	Less than 2% of m/z 174	0.6 (0.8)
174	50 to 120% of m/z 95	79.4
175	5 to 9% of m/z 174	5.9 (7.4)
176	Greater than 95% but less than 101% of m/z 174	79.4 (100.1)
177	5 to 9% of m/z 176	5.0 (6.2)

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6876.D\T-8260.rslt\spectra.d
Injection Date: 18-Sep-2020 08:49:30
Spectrum: Tune Spec :Average 630-632(5.33-5.34) Bgrd 620(5.27)
Base Peak: 95.10
Minimum % Base Peak: 0
Number of Points: 41

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	3003	57.00	1652	76.00	2369	96.00	4058
38.00	2485	60.00	387	79.00	1713	141.00	206
39.00	1135	61.00	2655	80.00	408	143.00	701
44.00	494	62.00	2614	81.00	1848	173.00	350
45.00	218	63.00	2058	82.00	186	174.00	44192
47.00	468	68.00	5316	87.00	2191	175.00	3267
48.00	207	69.00	5135	88.00	1857	176.00	44232
49.00	2035	70.00	489	92.00	1607	177.00	2758
50.00	10660	73.00	2378	93.00	2440		
51.00	3692	74.00	9586	94.00	6077		
56.00	1027	75.00	28432	95.00	55680		

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6876.D

Injection Date: 18-Sep-2020 08:49:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: BFB

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 uL

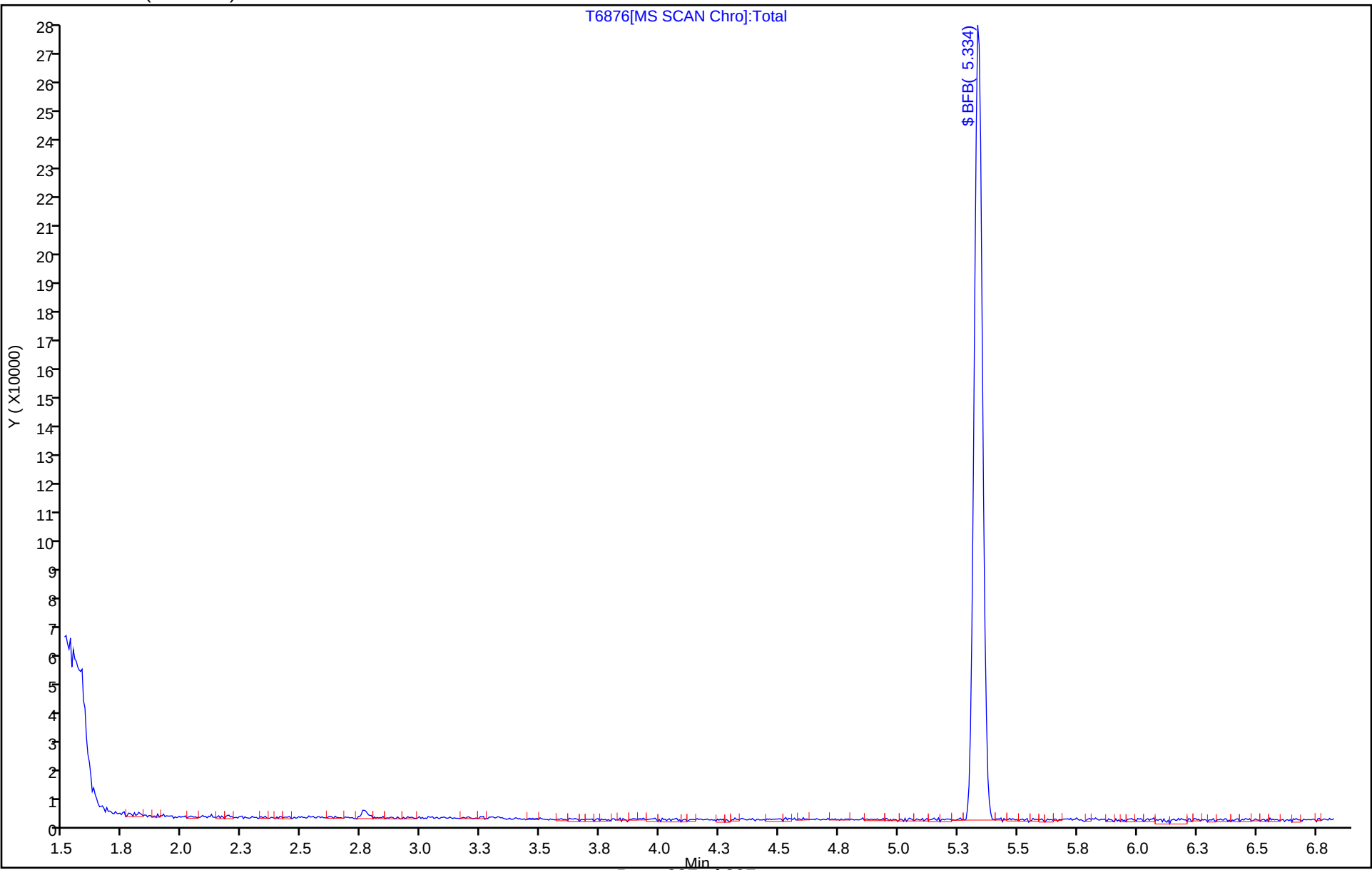
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6933.D
 Lims ID: BFB
 Client ID:
 Sample Type: BFB
 Inject. Date: 21-Sep-2020 09:09:30 ALS Bottle#: 2 Worklist Smp#: 3
 Injection Vol: 1.0 uL Dil. Factor: 1.0000
 Sample Info: bfb
 Misc. Info.: 480-0093576-003
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Sep-2020 09:18:21 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1052

First Level Reviewer: farrellr

Date: 21-Sep-2020 09:18:21

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

\$ 5 BFB	95	5.334	5.334	0.000	86	120565	NR	NR	

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

BFB_WRK_00110

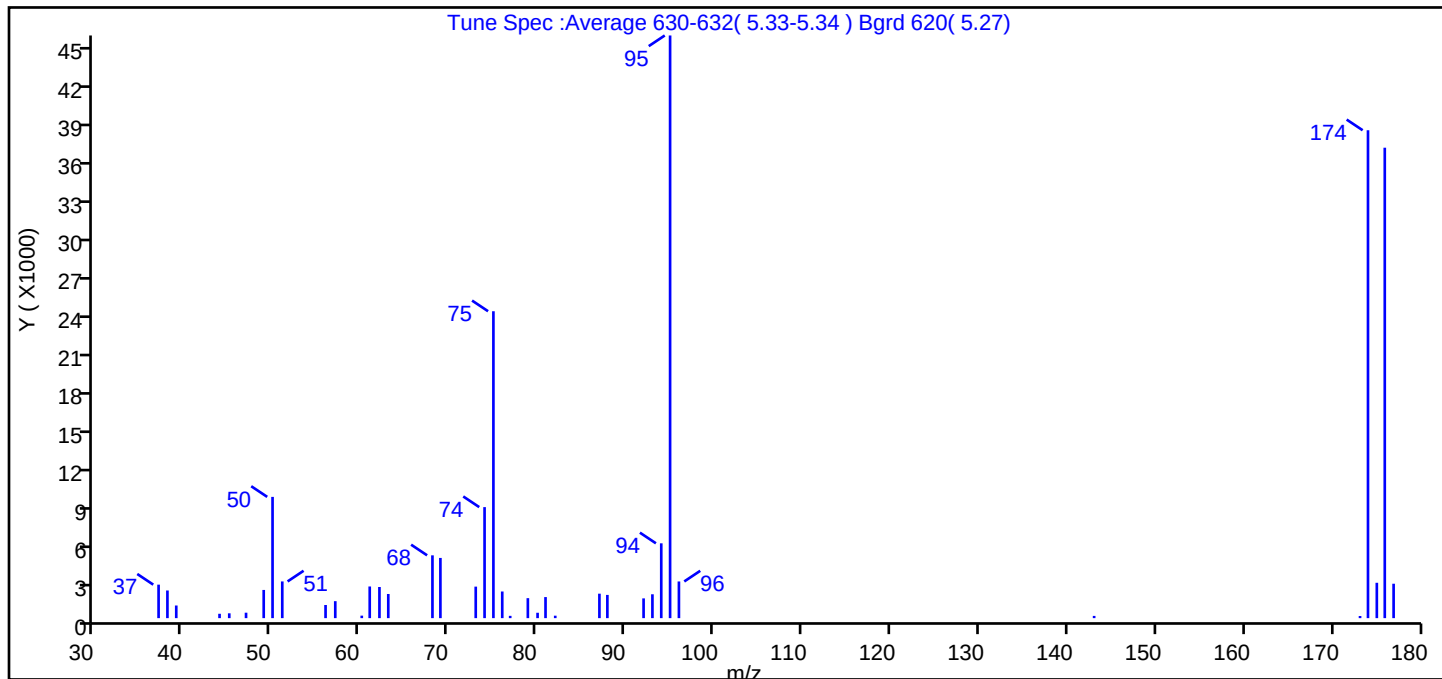
Amount Added: 1.00

Units: uL

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6933.D
Injection Date: 21-Sep-2020 09:09:30 Instrument ID: HP5975T
Lims ID: BFB
Client ID:
Operator ID: RF ALS Bottle#: 2 Worklist Smp#: 3
Injection Vol: 1.0 uL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Tune Method: BFB Method 8260

\$ 5 BFB



m/z	Ion Abundance Criteria	% Relative Abundance
95	Base peak, 100% relative abundance	100.0
50	15 to 40% of m/z 95	20.8
75	30 to 60% of m/z 95	52.7
96	5 to 9% of m/z 95	6.3
173	Less than 2% of m/z 174	0.4 (0.4)
174	50 to 120% of m/z 95	83.7
175	5 to 9% of m/z 174	6.1 (7.2)
176	Greater than 95% but less than 101% of m/z 174	80.7 (96.4)
177	5 to 9% of m/z 176	5.9 (7.3)

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6933.D\T-8260.rslt\spectra.d
Injection Date: 21-Sep-2020 09:09:30
Spectrum: Tune Spec :Average 630-632(5.33-5.34) Bgrd 620(5.27)
Base Peak: 95.00
Minimum % Base Peak: 0
Number of Points: 39

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	2607	57.00	1321	76.00	2074	94.00	5824
38.00	2153	60.00	195	77.00	179	95.00	45352
39.00	984	61.00	2464	79.00	1556	96.00	2855
44.00	340	62.00	2424	80.00	419	143.00	174
45.00	376	63.00	1880	81.00	1640	173.00	167
47.00	424	68.00	4889	82.00	191	174.00	37976
49.00	2195	69.00	4687	87.00	1904	175.00	2752
50.00	9438	73.00	2453	88.00	1808	176.00	36616
51.00	2857	74.00	8642	92.00	1538	177.00	2679
56.00	1023	75.00	23888	93.00	1858		

Report Date: 21-Sep-2020 09:18:22

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Euofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6933.D

Injection Date: 21-Sep-2020 09:09:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: BFB

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 uL

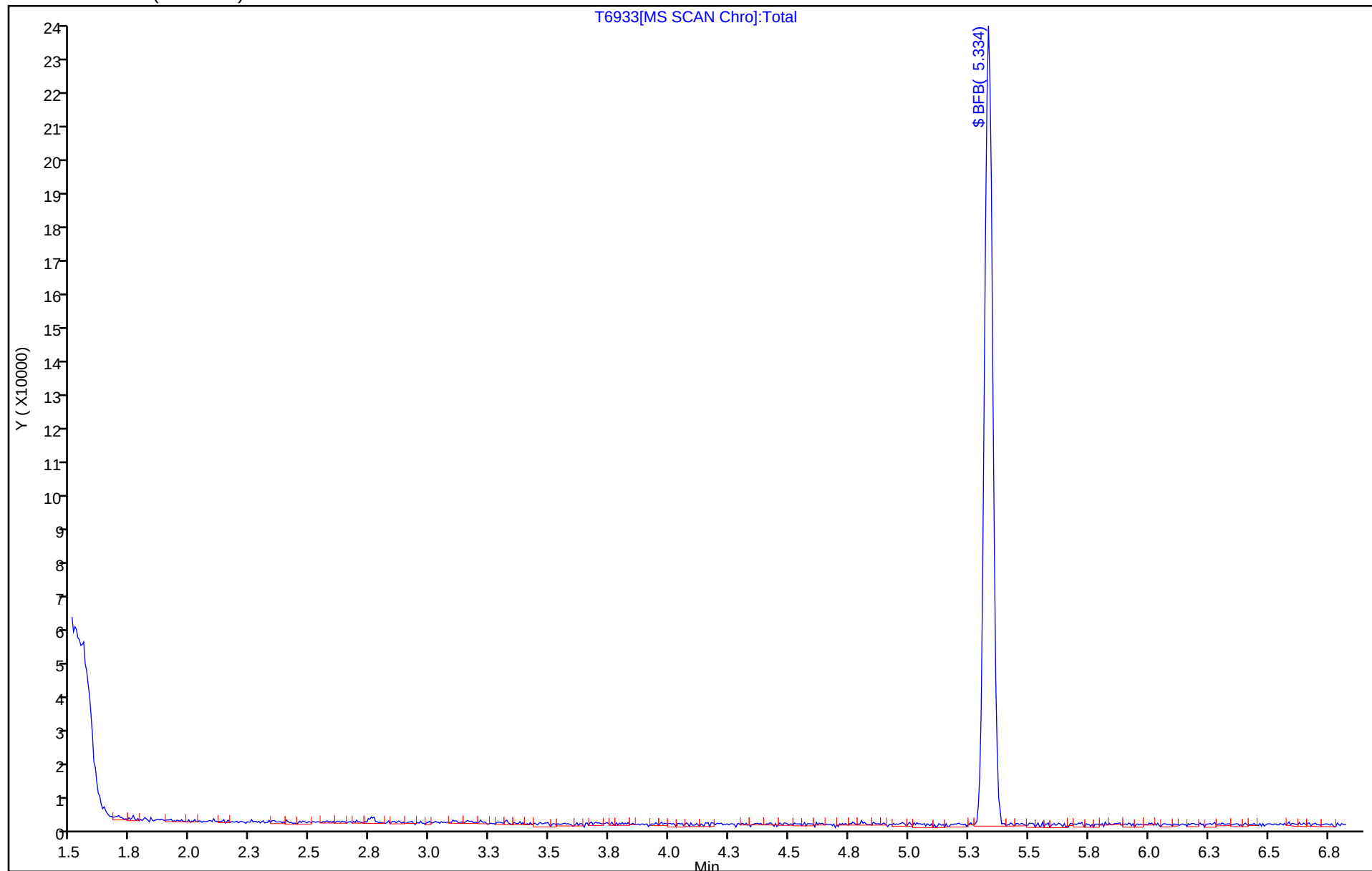
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-550111/8

Matrix: Water Lab File ID: T6883.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 11:35

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550111 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-550111/8
 Matrix: Water Lab File ID: T6883.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 11:35
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550111 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	97		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	101		77-120
460-00-4	4-Bromofluorobenzene (Surr)	96		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-550111/8
Matrix: Water Lab File ID: T6883.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 11:35
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550111 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6883.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 18-Sep-2020 11:35:30 ALS Bottle#: 9 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0093526-008
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 18-Sep-2020 11:54:18 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1010

First Level Reviewer: farrellr

Date: 18-Sep-2020 11:56:09

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	166303	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.002	7.001	0.001	89	596913	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.857	8.856	0.001	97	318527	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	93	198121	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.493	0.001	0	270302	25.0	25.3	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	765607	25.0	24.3	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	229579	25.0	24.0	
11 Dichlorodifluoromethane	85		1.167					ND	
12 Chlorodifluoromethane	51		1.188					ND	
13 Chloromethane	50		1.323					ND	
151 Butadiene	54		1.395					ND	
14 Vinyl chloride	62		1.405					ND	
15 Bromomethane	94		1.654					ND	
16 Chloroethane	64		1.727					ND	
18 Dichlorofluoromethane	67		1.924					ND	
17 Trichlorofluoromethane	101		1.934					ND	
19 Ethyl ether	59		2.172					ND	
148 Ethanol	45		2.193					ND	
84 Propene oxide	58		2.245					ND	
21 Acrolein	56		2.338					ND	
22 1,1-Dichloroethene	96		2.369					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.369					ND	
23 Acetone	43		2.483					ND	U
24 Iodomethane	142		2.525					ND	
25 Carbon disulfide	76		2.545					ND	
26 Isopropyl alcohol	45		2.649					ND	U
27 3-Chloro-1-propene	41		2.711					ND	
28 Methyl acetate	43		2.742					ND	
29 Acetonitrile	40		2.763					ND	
30 Methylene Chloride	84		2.836					ND	7
31 2-Methyl-2-propanol	59		3.001					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Methyl tert-butyl ether	73		3.022					ND	
32 trans-1,2-Dichloroethene	96		3.032					ND	
34 Acrylonitrile	53		3.084					ND	
35 Hexane	57		3.198					ND	
36 1,1-Dichloroethane	63		3.395					ND	
37 Isopropyl ether	45		3.405					ND	
139 Halothane	117		3.436					ND	
38 2-Chloro-1,3-butadiene	53		3.436					ND	
39 Vinyl acetate	43		3.437					ND	
40 1,1-Dimethoxyethane	75		3.468					ND	
41 Tert-butyl ethyl ether	59		3.696					ND	
42 2,2-Dichloropropane	77		3.841					ND	
43 cis-1,2-Dichloroethene	96		3.862					ND	
44 2-Butanone (MEK)	43		3.882					ND	
45 Ethyl acetate	43		3.913					ND	
46 Propionitrile	54		3.975					ND	
48 Tetrahydrofuran	42		4.058					ND	
47 Chlorobromomethane	128		4.058					ND	
49 Methacrylonitrile	41		4.069					ND	
50 Chloroform	83	4.110	4.121	-0.011	89	1964		0.1210	
52 Cyclohexane	56		4.214					ND	
51 1,1,1-Trichloroethane	97		4.214					ND	
53 Carbon tetrachloride	117		4.328					ND	
54 1,1-Dichloropropene	75		4.328					ND	
152 Isooctane	57		4.483					ND	
55 Benzene	78		4.494					ND	
56 Isobutyl alcohol	43		4.514					ND	U
57 1,2-Dichloroethane	62		4.545					ND	U
147 t-Amyl alcohol	59		4.556					ND	
58 Tert-amyl methyl ether	73		4.556					ND	
59 n-Heptane	43		4.628					ND	
1 1,4-Difluorobenzene	114		4.794					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.887					ND	
60 Trichloroethene	95		4.981					ND	
61 n-Butanol	56		5.001					ND	
142 Ethyl acrylate	55		5.074					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.074					ND	
62 Methylcyclohexane	83		5.074					ND	
63 1,2-Dichloropropane	63		5.167					ND	
64 Methyl methacrylate	41		5.240					ND	
65 Dibromomethane	93		5.271					ND	
66 1,4-Dioxane	88		5.281					ND	
67 Dichlorobromomethane	83		5.395					ND	
68 2-Nitropropane	43		5.592					ND	
69 2-Chloroethyl vinyl ether	63		5.603					ND	
70 Epichlorohydrin	57		5.675					ND	
71 cis-1,3-Dichloropropene	75		5.706					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820					ND	
73 Toluene	92		5.934					ND	
74 2-Methylthiophene	97		6.038					ND	
75 trans-1,3-Dichloropropene	75		6.141					ND	
76 3-Methylthiophene	97		6.162					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
77 Ethyl methacrylate	69		6.172					ND	
78 1,1,2-Trichloroethane	83		6.286					ND	
79 Tetrachloroethene	166		6.328					ND	
80 1,3-Dichloropropane	76		6.411					ND	
81 2-Hexanone	43		6.452					ND	
155 n-Butyl acetate	43		6.525					ND	
82 Chlorodibromomethane	129		6.587					ND	
83 Ethylene Dibromide	107		6.670					ND	
146 1-Chlorohexane	55		6.970					ND	U
85 3-Chlorobenzotrifluoride	180		6.991					ND	
86 Chlorobenzene	112		7.022					ND	
87 4-Chlorobenzotrifluoride	180		7.032					ND	
88 Ethylbenzene	91		7.084					ND	
89 1,1,1,2-Tetrachloroethane	131		7.095					ND	
90 m-Xylene & p-Xylene	106		7.178					ND	
91 o-Xylene	106		7.489					ND	
92 Styrene	104		7.520					ND	
93 Bromoform	173		7.706					ND	
94 2-Chlorobenzotrifluoride	180		7.716					ND	
95 Isopropylbenzene	105		7.779					ND	
96 Cyclohexanone	55		7.913					ND	U
97 Bromobenzene	156		8.048					ND	
98 1,1,2,2-Tetrachloroethane	83		8.090					ND	
99 N-Propylbenzene	91		8.100					ND	
101 trans-1,4-Dichloro-2-butene	53		8.121					ND	
100 1,2,3-Trichloropropane	110		8.121					ND	
105 2-Chlorotoluene	126		8.193					ND	
103 3-Chlorotoluene	126		8.245					ND	
104 1,3,5-Trimethylbenzene	105		8.245					ND	
102 4-Chlorotoluene	91		8.287					ND	
106 tert-Butylbenzene	134		8.504					ND	
107 1,2,4-Trimethylbenzene	105		8.556					ND	
108 Pentachloroethane	167		8.566					ND	
109 sec-Butylbenzene	105		8.680					ND	
111 4-Isopropyltoluene	119		8.794					ND	
110 1,3-Dichlorobenzene	146		8.805					ND	
112 Dicyclopentadiene	66		8.856					ND	
113 1,4-Dichlorobenzene	146		8.877					ND	
114 1,2,3-Trimethylbenzene	105		8.898					ND	
150 Benzyl chloride	126		9.001					ND	
115 n-Butylbenzene	91		9.136					ND	
116 1,2-Dichlorobenzene	146		9.188					ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862					ND	
118 1,3,5-Trichlorobenzene	180		9.976					ND	
119 1,2,4-Trichlorobenzene	180		10.504					ND	
120 Hexachlorobutadiene	225		10.608					ND	
121 Naphthalene	128		10.712					ND	
122 1,2,3-Trichlorobenzene	180		10.908					ND	
149 2-Methylnaphthalene	142		11.592					ND	
145 Ethylene oxide TIC	1		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
135 Hexachloroethane	117		0.000					ND	

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6883.D

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
137 Methyl acrylate	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
S 125 Total BTEX	1		30.000					ND	7
S 126 Xylenes, Total	1		30.000					ND	7
S 124 1,2-Dichloroethene, Total	1		30.000					ND	7
S 123 1,3-Dichloropropene, Total	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

U - Marked Undetected

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6883.D

Injection Date: 18-Sep-2020 11:35:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

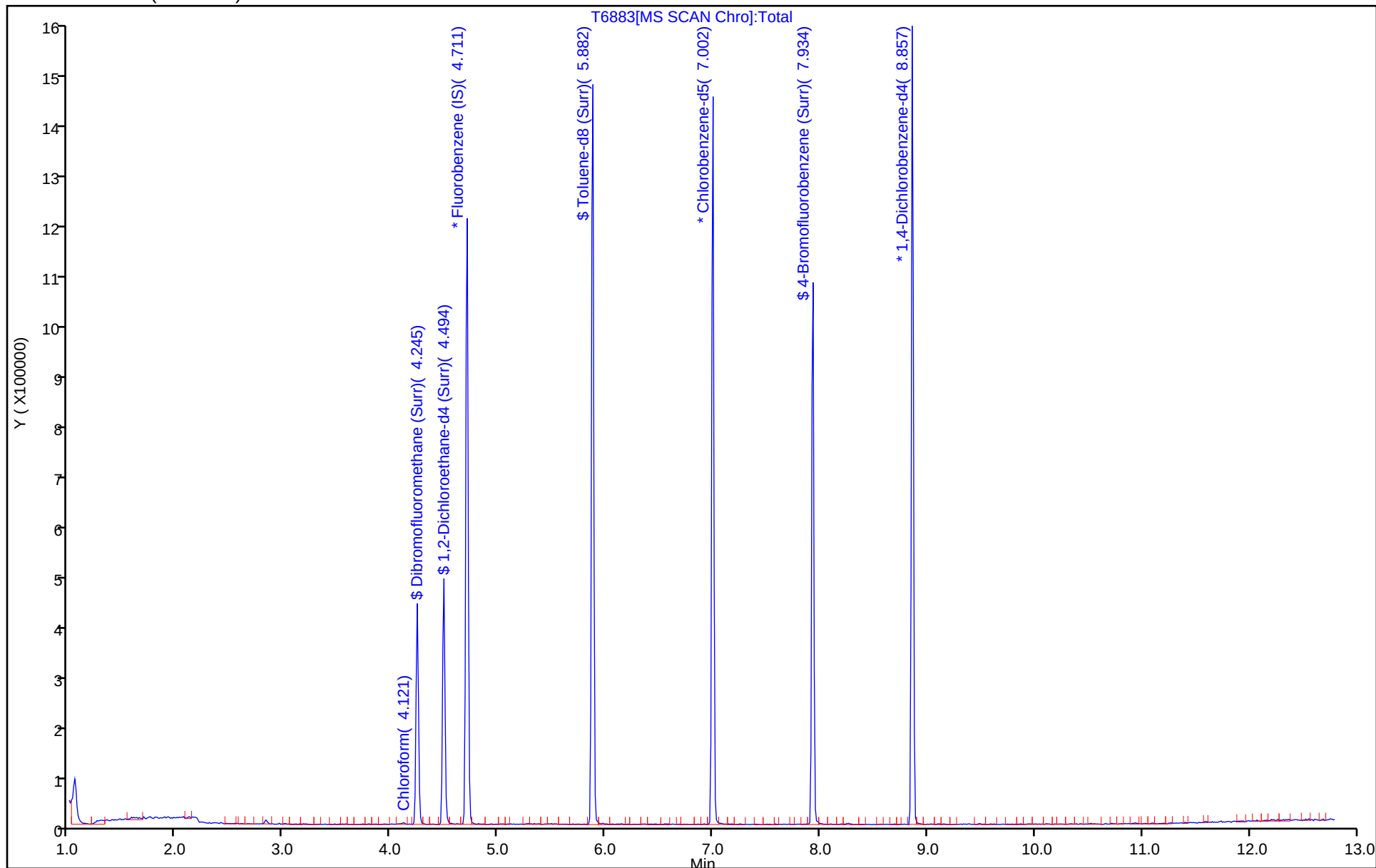
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6883.D

Injection Date: 18-Sep-2020 11:35:30

Instrument ID: HP5975T

Lims ID: MB

Client ID:

Operator ID: RF

ALS Bottle#:

9

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

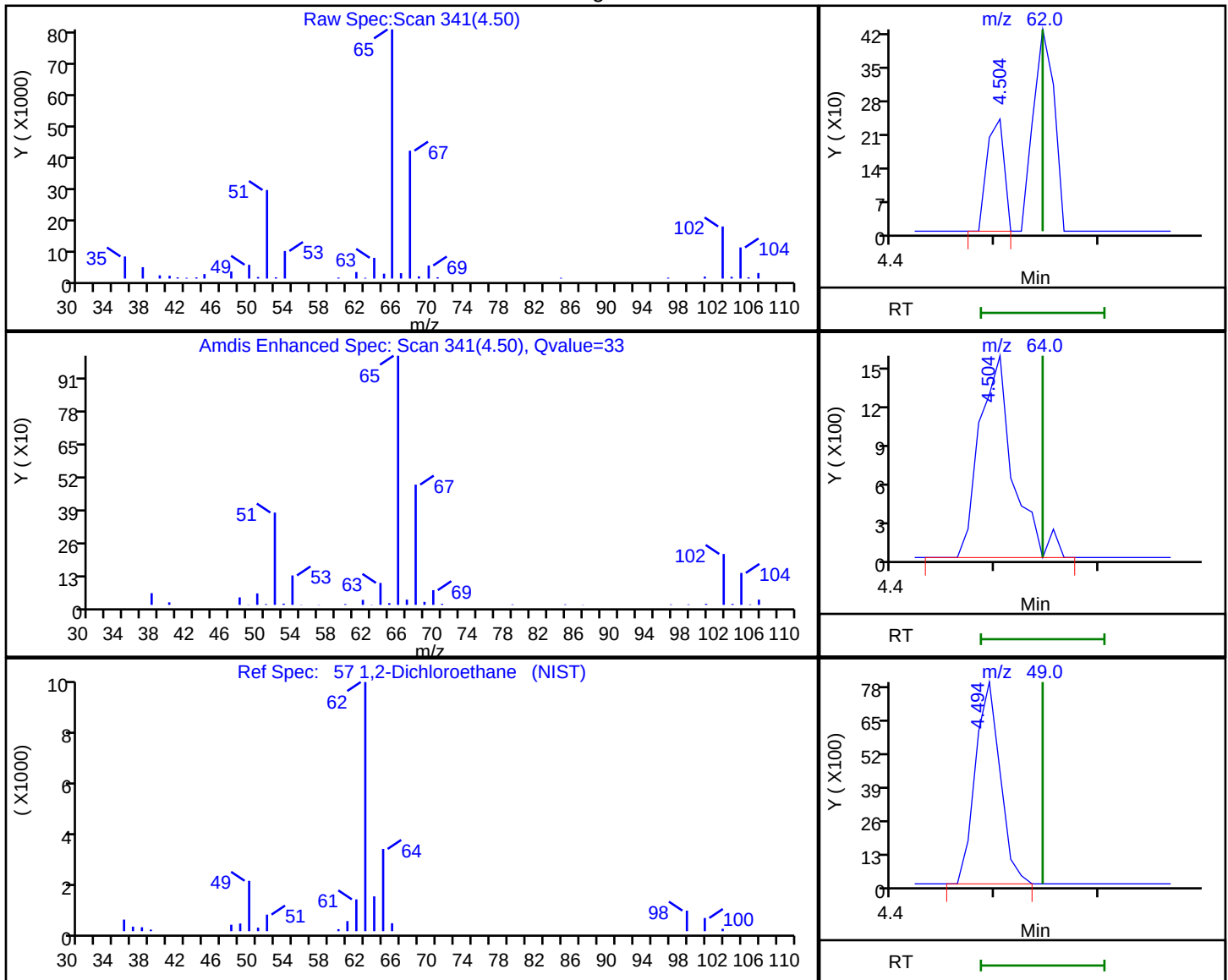
Column: ZB-624 (0.18 mm)

Detector

MS SCAN

57 1,2-Dichloroethane, CAS: 107-06-2

Processing Results



RT	Mass	Response	Amount
4.50	62.00	273	0.018689
4.50	64.00	3553	
4.49	49.00	13352	

Reviewer: farrellr, 18-Sep-2020 11:53:00

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6883.D

Injection Date: 18-Sep-2020 11:35:30

Instrument ID: HP5975T

Lims ID: MB

Client ID:

Operator ID: RF

ALS Bottle#:

9

Worklist Smp#: 8

Purge Vol: 5.000 mL

Dil. Factor:

1.0000

Method: T-8260

Limit Group:

MV - 8260C ICAL

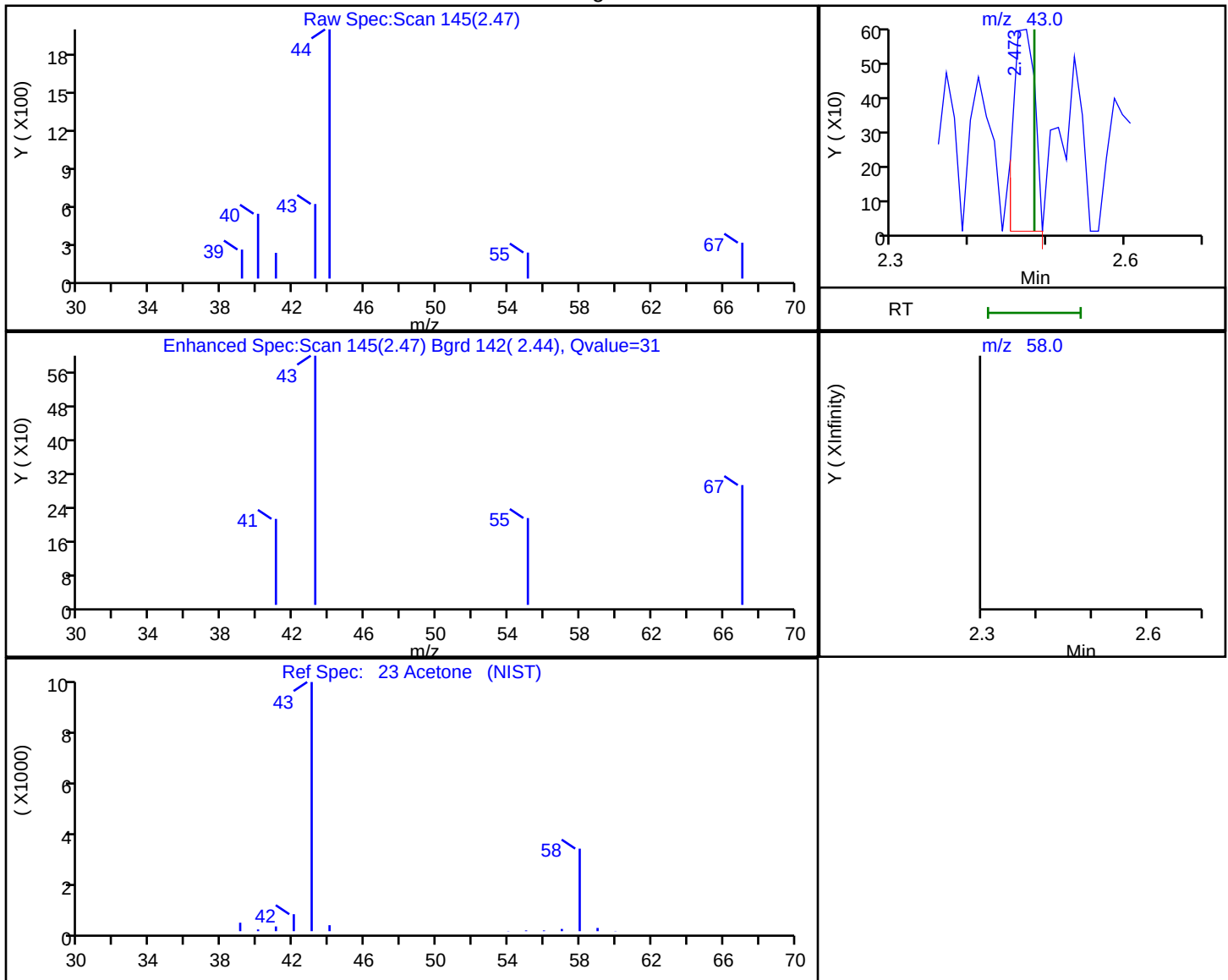
Column: ZB-624 (0.18 mm)

Detector

MS SCAN

23 Acetone, CAS: 67-64-1

Processing Results



RT	Mass	Response	Amount
2.47	43.00	1153	0.320456
2.48	58.00	0	

Reviewer: farrellr, 18-Sep-2020 11:52:43

Audit Action: Marked Compound Undetected

Audit Reason: Invalid Compound ID

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 480-550367/8

Matrix: Water Lab File ID: T6938.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2020 11:08

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550367 Units: ug/L

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

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-550367/8
 Matrix: Water Lab File ID: T6938.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2020 11:08
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550367 Units: ug/L

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

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	100		77-120
460-00-4	4-Bromofluorobenzene (Surr)	98		73-120
1868-53-7	Dibromofluoromethane (Surr)	101		75-123

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET
TENTATIVELY IDENTIFIED COMPOUNDS

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: _____ Lab Sample ID: MB 480-550367/8
Matrix: Water Lab File ID: T6938.D
Analysis Method: 8260C Date Collected: _____
Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2020 11:08
Soil Aliquot Vol: _____ Dilution Factor: 1
Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
% Moisture: _____ Level: (low/med) Low
Analysis Batch No.: 550367 Units: ug/L
Number TICs Found: 0 TIC Result Total: 0

CAS NO.	COMPOUND NAME	RT	RESULT	Q	MATCH QUALITY
	Tentatively Identified Compound		None		

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6938.D
 Lims ID: MB
 Client ID:
 Sample Type: MB
 Inject. Date: 21-Sep-2020 11:08:30 ALS Bottle#: 7 Worklist Smp#: 8
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: mb
 Misc. Info.: 480-0093576-008
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Sep-2020 11:31:54 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1052

First Level Reviewer: farrellr

Date: 21-Sep-2020 11:31:54

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	161524	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	90	555415	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	307138	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	92	191759	25.0	25.3	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	257913	25.0	24.9	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	731279	25.0	24.9	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	218640	25.0	24.6	
11 Dichlorodifluoromethane	85		1.157					ND	
12 Chlorodifluoromethane	51		1.177					ND	
13 Chloromethane	50		1.312					ND	
151 Butadiene	54		1.385					ND	
14 Vinyl chloride	62		1.395					ND	
15 Bromomethane	94		1.644					ND	
16 Chloroethane	64		1.716					ND	
18 Dichlorofluoromethane	67		1.924					ND	
17 Trichlorofluoromethane	101		1.924					ND	
19 Ethyl ether	59		2.162					ND	
148 Ethanol	45		2.193					ND	
84 Propene oxide	58		2.245					ND	
21 Acrolein	56		2.338					ND	
22 1,1-Dichloroethene	96		2.359					ND	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101		2.359					ND	
23 Acetone	43		2.473					ND	
24 Iodomethane	142		2.514					ND	
25 Carbon disulfide	76		2.545					ND	
26 Isopropyl alcohol	45		2.659					ND	
27 3-Chloro-1-propene	41		2.701					ND	
28 Methyl acetate	43		2.742					ND	
29 Acetonitrile	40		2.763					ND	
30 Methylene Chloride	84		2.836					ND	
31 2-Methyl-2-propanol	59		2.991					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
33 Methyl tert-butyl ether	73		3.022					ND	
32 trans-1,2-Dichloroethene	96		3.032					ND	
34 Acrylonitrile	53		3.084					ND	
35 Hexane	57		3.188					ND	
36 1,1-Dichloroethane	63		3.395					ND	
37 Isopropyl ether	45		3.405					ND	
139 Halothane	117		3.437					ND	
38 2-Chloro-1,3-butadiene	53		3.437					ND	
39 Vinyl acetate	43		3.437					ND	
40 1,1-Dimethoxyethane	75		3.468					ND	
41 Tert-butyl ethyl ether	59		3.696					ND	
42 2,2-Dichloropropane	77		3.830					ND	
43 cis-1,2-Dichloroethene	96		3.861					ND	
44 2-Butanone (MEK)	43		3.882					ND	
45 Ethyl acetate	43		3.913					ND	
46 Propionitrile	54		3.975					ND	
47 Chlorobromomethane	128		4.058					ND	
48 Tetrahydrofuran	42		4.058					ND	
49 Methacrylonitrile	41		4.069					ND	
50 Chloroform	83	4.110	4.121	-0.011	92	2130		0.1351	
51 1,1,1-Trichloroethane	97		4.203					ND	
52 Cyclohexane	56		4.214					ND	
53 Carbon tetrachloride	117		4.317					ND	
54 1,1-Dichloropropene	75		4.328					ND	
152 Isooctane	57		4.483					ND	
55 Benzene	78		4.494					ND	
56 Isobutyl alcohol	43		4.514					ND	
57 1,2-Dichloroethane	62		4.545					ND	
58 Tert-amyl methyl ether	73		4.556					ND	
147 t-Amyl alcohol	59		4.556					ND	
59 n-Heptane	43		4.628					ND	
1 1,4-Difluorobenzene	114		4.794					ND	
141 2,4,4-Trimethyl-1-pentene	55		4.887					ND	
60 Trichloroethene	95		4.970					ND	
61 n-Butanol	56		5.001					ND	
140 2,4,4-Trimethyl-2-pentene	97		5.074					ND	
142 Ethyl acrylate	55		5.074					ND	
62 Methylcyclohexane	83		5.074					ND	
63 1,2-Dichloropropane	63		5.167					ND	
64 Methyl methacrylate	41		5.240					ND	
65 Dibromomethane	93		5.271					ND	
66 1,4-Dioxane	88		5.271					ND	MU
67 Dichlorobromomethane	83		5.395					ND	
68 2-Nitropropane	43		5.582					ND	
69 2-Chloroethyl vinyl ether	63		5.602					ND	
70 Epichlorohydrin	57		5.675					ND	
71 cis-1,3-Dichloropropene	75		5.706					ND	
72 4-Methyl-2-pentanone (MIBK)	43		5.820					ND	
73 Toluene	92		5.924					ND	
74 2-Methylthiophene	97		6.038					ND	
75 trans-1,3-Dichloropropene	75		6.141					ND	
76 3-Methylthiophene	97		6.162					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
77 Ethyl methacrylate	69		6.172					ND	
78 1,1,2-Trichloroethane	83		6.286					ND	
79 Tetrachloroethene	166		6.328					ND	
80 1,3-Dichloropropane	76		6.411					ND	
81 2-Hexanone	43		6.452					ND	
155 n-Butyl acetate	43		6.525					ND	
82 Chlorodibromomethane	129		6.587					ND	
83 Ethylene Dibromide	107		6.670					ND	
146 1-Chlorohexane	55		6.970					ND	U
85 3-Chlorobenzotrifluoride	180		6.991					ND	
86 Chlorobenzene	112		7.022					ND	
87 4-Chlorobenzotrifluoride	180		7.032					ND	
88 Ethylbenzene	91		7.084					ND	
89 1,1,1,2-Tetrachloroethane	131		7.095					ND	
90 m-Xylene & p-Xylene	106		7.178					ND	
91 o-Xylene	106		7.489					ND	
92 Styrene	104		7.520					ND	
93 Bromoform	173		7.706					ND	
94 2-Chlorobenzotrifluoride	180		7.716					ND	
95 Isopropylbenzene	105		7.779					ND	
96 Cyclohexanone	55		7.913					ND	U
97 Bromobenzene	156		8.048					ND	
98 1,1,2,2-Tetrachloroethane	83		8.090					ND	
99 N-Propylbenzene	91		8.100					ND	
101 trans-1,4-Dichloro-2-butene	53		8.121					ND	
100 1,2,3-Trichloropropane	110		8.121					ND	
105 2-Chlorotoluene	126		8.193					ND	
103 3-Chlorotoluene	126		8.245					ND	
104 1,3,5-Trimethylbenzene	105		8.245					ND	
102 4-Chlorotoluene	91		8.276					ND	
106 tert-Butylbenzene	134		8.504					ND	
107 1,2,4-Trimethylbenzene	105		8.546					ND	
108 Pentachloroethane	167		8.556					ND	
109 sec-Butylbenzene	105		8.680					ND	
111 4-Isopropyltoluene	119		8.794					ND	
110 1,3-Dichlorobenzene	146		8.805					ND	
112 Dicyclopentadiene	66		8.856					ND	
113 1,4-Dichlorobenzene	146		8.877					ND	
114 1,2,3-Trimethylbenzene	105		8.898					ND	
150 Benzyl chloride	126		9.001					ND	
115 n-Butylbenzene	91		9.136					ND	
116 1,2-Dichlorobenzene	146		9.188					ND	
117 1,2-Dibromo-3-Chloropropane	75		9.862					ND	
118 1,3,5-Trichlorobenzene	180		9.976					ND	
119 1,2,4-Trichlorobenzene	180		10.504					ND	
120 Hexachlorobutadiene	225		10.608					ND	
121 Naphthalene	128		10.711					ND	
122 1,2,3-Trichlorobenzene	180		10.908					ND	
149 2-Methylnaphthalene	142		11.592					ND	
137 Methyl acrylate	1		0.000					ND	
144 1-Bromopropane TIC	1		0.000					ND	
138 cis-1,4-Dichloro-2-butene	88		0.000					ND	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
135 Hexachloroethane	117		0.000					ND	
136 Nitrobenzene	77		0.000					ND	
145 Ethylene oxide TIC	1		0.000					ND	
143 Propene oxide TIC	1		0.000					ND	
S 125 Total BTEX	1		30.000					ND	7
S 126 Xylenes, Total	1		30.000					ND	7
S 124 1,2-Dichloroethene, Total	1		30.000					ND	7
S 123 1,3-Dichloropropene, Total	1		30.000					ND	7
S 157 Trihalomethanes, Total	1		0.000					ND	

QC Flag Legend

Processing Flags

7 - Failed Limit of Detection

Review Flags

M - Manually Integrated

U - Marked Undetected

Reagents:

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6938.D

Injection Date: 21-Sep-2020 11:08:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: MB

Worklist Smp#: 8

Client ID:

Purge Vol: 5.000 mL

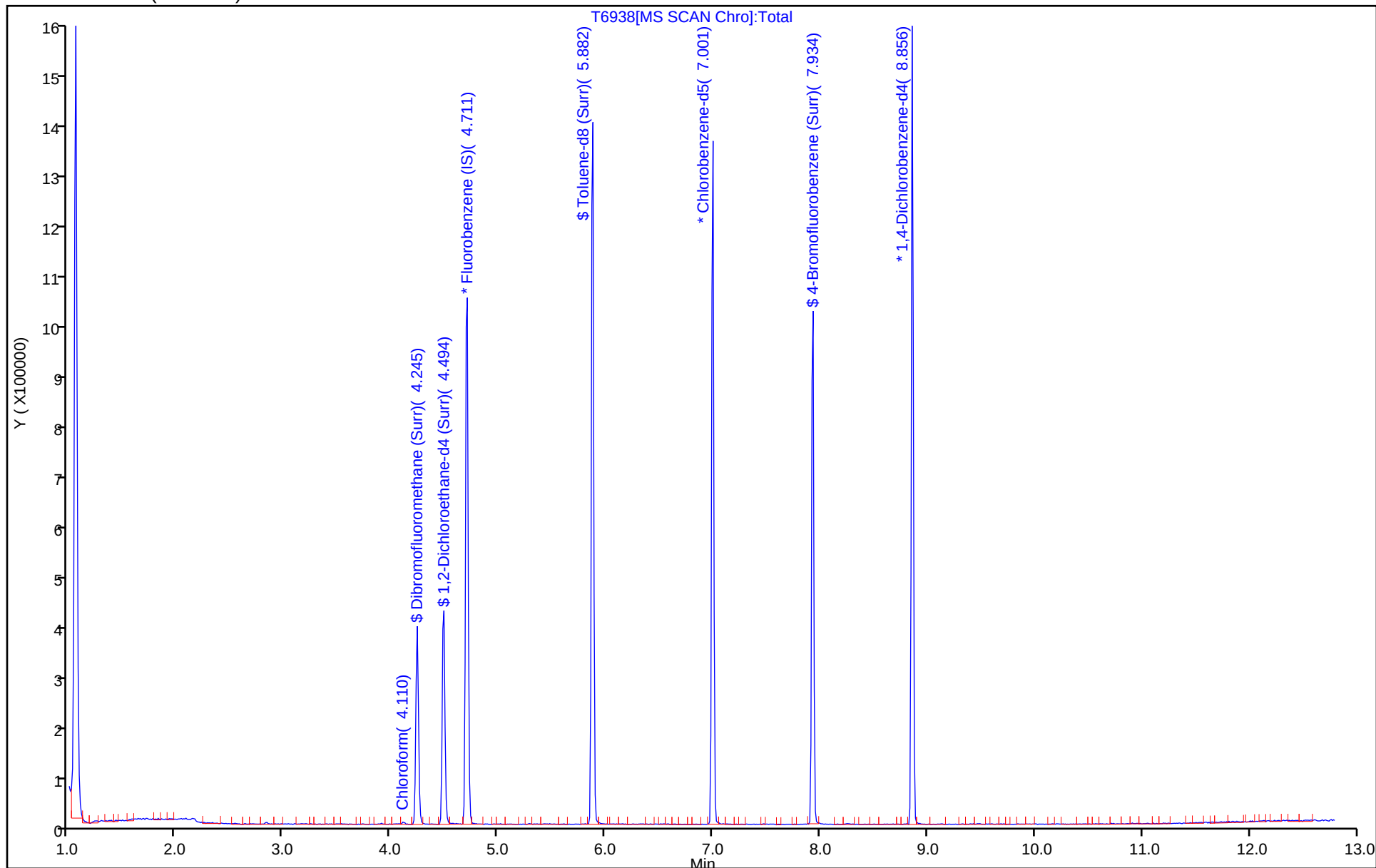
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-550111/5

Matrix: Water Lab File ID: T6881.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 10:48

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550111 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	28.0		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	25.4		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.9		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29.3		1.0	0.31
75-34-3	1,1-Dichloroethane	27.5		1.0	0.38
75-35-4	1,1-Dichloroethene	27.5		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.5		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	28.8		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.1		1.0	0.79
107-06-2	1,2-Dichloroethane	25.5		1.0	0.21
78-87-5	1,2-Dichloropropane	26.6		1.0	0.72
541-73-1	1,3-Dichlorobenzene	26.1		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.1		1.0	0.84
78-93-3	2-Butanone (MEK)	125		10	1.3
591-78-6	2-Hexanone	133		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	127		5.0	2.1
67-64-1	Acetone	116		10	3.0
71-43-2	Benzene	26.9		1.0	0.41
75-27-4	Bromodichloromethane	28.6		1.0	0.39
75-25-2	Bromoform	31.0		1.0	0.26
74-83-9	Bromomethane	25.0		1.0	0.69
75-15-0	Carbon disulfide	28.4		1.0	0.19
56-23-5	Carbon tetrachloride	29.4		1.0	0.27
108-90-7	Chlorobenzene	27.0		1.0	0.75
124-48-1	Dibromochloromethane	28.3		1.0	0.32
75-00-3	Chloroethane	24.8		1.0	0.32
67-66-3	Chloroform	25.8		1.0	0.34
74-87-3	Chloromethane	24.6		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.5		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.7		1.0	0.36
110-82-7	Cyclohexane	29.3		1.0	0.18
75-71-8	Dichlorodifluoromethane	23.4		1.0	0.68
100-41-4	Ethylbenzene	27.1		1.0	0.74
106-93-4	1,2-Dibromoethane	26.2		1.0	0.73
98-82-8	Isopropylbenzene	26.6		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-550111/5
 Matrix: Water Lab File ID: T6881.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/18/2020 10:48
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550111 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	48.8		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.3		1.0	0.16
108-87-2	Methylcyclohexane	29.6		1.0	0.16
75-09-2	Methylene Chloride	25.8		1.0	0.44
100-42-5	Styrene	27.1		1.0	0.73
127-18-4	Tetrachloroethene	27.9		1.0	0.36
108-88-3	Toluene	26.9		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.2		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	27.1		1.0	0.37
79-01-6	Trichloroethene	26.7		1.0	0.46
75-69-4	Trichlorofluoromethane	25.8		1.0	0.88
75-01-4	Vinyl chloride	24.9		1.0	0.90
1330-20-7	Xylenes, Total	54.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	101		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	106		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6881.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 18-Sep-2020 10:48:30 ALS Bottle#: 7 Worklist Smp#: 5
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0093526-005
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 18-Sep-2020 11:07:33 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1010

First Level Reviewer: farrellr

Date: 18-Sep-2020 11:07:45

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	158166	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	88	559755	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	96	321374	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	93	197162	25.0	26.6	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.493	0.001	0	261223	25.0	25.7	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	743267	25.0	25.2	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	225268	25.0	25.1	
11 Dichlorodifluoromethane	85	1.167	1.167	0.000	99	269817	25.0	23.4	
13 Chloromethane	50	1.322	1.323	-0.001	99	287605	25.0	24.6	
151 Butadiene	54	1.395	1.395	0.000	93	260038	25.0	24.4	
14 Vinyl chloride	62	1.405	1.405	0.000	98	281254	25.0	24.9	
15 Bromomethane	94	1.654	1.654	0.000	92	184732	25.0	25.0	
16 Chloroethane	64	1.727	1.727	0.000	100	171473	25.0	24.8	
18 Dichlorofluoromethane	67	1.923	1.924	-0.001	97	403251	25.0	24.7	
17 Trichlorofluoromethane	101	1.934	1.934	0.000	98	364741	25.0	25.8	
19 Ethyl ether	59	2.172	2.172	0.000	92	208175	25.0	25.3	
21 Acrolein	56	2.348	2.338	0.010	99	141256	125.0	123.9	
22 1,1-Dichloroethene	96	2.369	2.369	0.000	96	192042	25.0	27.5	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.369	0.000	57	213409	25.0	29.3	
23 Acetone	43	2.483	2.483	0.000	99	397967	125.0	116.3	
24 Iodomethane	142	2.514	2.525	-0.011	98	356623	25.0	27.8	
25 Carbon disulfide	76	2.545	2.545	0.000	100	700938	25.0	28.4	
27 3-Chloro-1-propene	41	2.711	2.711	0.000	88	351611	25.0	27.2	
28 Methyl acetate	43	2.742	2.742	0.000	98	406894	50.0	48.8	
30 Methylene Chloride	84	2.835	2.836	-0.001	96	239179	25.0	25.8	
31 2-Methyl-2-propanol	59	2.991	3.001	-0.010	98	296328	250.0	268.1	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	99	728672	25.0	26.3	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	97	225477	25.0	27.2	
34 Acrylonitrile	53	3.084	3.084	0.000	98	1049363	250.0	260.7	
35 Hexane	57	3.198	3.198	0.000	93	358162	25.0	27.8	
36 1,1-Dichloroethane	63	3.395	3.395	0.000	97	408572	25.0	27.5	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.436	3.437	-0.001	98	1045289	50.0	52.3	
42 2,2-Dichloropropane	77	3.841	3.841	0.000	90	344150	25.0	28.1	
43 cis-1,2-Dichloroethene	96	3.861	3.862	-0.001	82	247683	25.0	26.5	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	640361	125.0	125.0	
47 Chlorobromomethane	128	4.058	4.058	0.000	97	125321	25.0	26.5	
48 Tetrahydrofuran	42	4.058	4.058	0.000	87	175674	50.0	49.5	
50 Chloroform	83	4.120	4.121	-0.001	95	398250	25.0	25.8	
51 1,1,1-Trichloroethane	97	4.214	4.214	0.000	98	354204	25.0	28.0	
52 Cyclohexane	56	4.214	4.214	0.000	93	424237	25.0	29.3	
53 Carbon tetrachloride	117	4.328	4.328	0.000	78	285503	25.0	29.4	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	91	314427	25.0	28.9	
55 Benzene	78	4.494	4.494	0.000	97	872096	25.0	26.9	
56 Isobutyl alcohol	43	4.514	4.514	0.000	93	289873	625.0	718.2	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	98	354039	25.0	25.5	
59 n-Heptane	43	4.628	4.628	0.000	92	391791	25.0	26.5	
60 Trichloroethene	95	4.970	4.981	-0.011	97	229158	25.0	26.7	
62 Methylcyclohexane	83	5.074	5.074	0.000	91	421344	25.0	29.6	a
63 1,2-Dichloropropane	63	5.167	5.167	0.000	91	228693	25.0	26.6	
65 Dibromomethane	93	5.271	5.271	0.000	95	156707	25.0	26.8	
66 1,4-Dioxane	88	5.271	5.281	-0.010	36	43998	500.0	625.6	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	286898	25.0	28.6	
69 2-Chloroethyl vinyl ether	63	5.602	5.603	-0.001	93	173015	25.0	25.7	
71 cis-1,3-Dichloropropene	75	5.706	5.706	0.000	93	370987	25.0	27.7	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	96	1403836	125.0	127.2	
73 Toluene	92	5.924	5.934	-0.010	98	567315	25.0	26.9	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	96	356268	25.0	27.1	
77 Ethyl methacrylate	69	6.172	6.173	0.000	90	326488	25.0	26.1	
78 1,1,2-Trichloroethane	83	6.286	6.287	0.000	91	182576	25.0	25.9	
79 Tetrachloroethene	166	6.328	6.328	0.000	96	242856	25.0	27.9	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	94	367960	25.0	25.5	
81 2-Hexanone	43	6.452	6.452	0.000	96	1032340	125.0	133.2	
82 Chlorodibromomethane	129	6.587	6.587	0.000	91	201366	25.0	28.3	
83 Ethylene Dibromide	107	6.670	6.670	0.000	98	220724	25.0	26.2	
86 Chlorobenzene	112	7.022	7.022	0.000	93	621995	25.0	27.0	
88 Ethylbenzene	91	7.084	7.084	0.000	99	1087644	25.0	27.1	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	92	200705	25.0	27.2	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	413118	25.0	27.3	
91 o-Xylene	106	7.488	7.489	-0.001	99	401123	25.0	27.4	
92 Styrene	104	7.520	7.520	0.000	95	682736	25.0	27.1	
93 Bromoform	173	7.706	7.706	0.000	95	125874	25.0	31.0	
95 Isopropylbenzene	105	7.779	7.779	0.000	96	1060330	25.0	26.6	
97 Bromobenzene	156	8.048	8.048	0.000	98	265325	25.0	26.1	
98 1,1,2,2-Tetrachloroethane	83	8.089	8.090	-0.001	93	312476	25.0	25.4	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	1337477	25.0	27.3	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	82	103170	25.0	28.0	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	88	102012	25.0	26.7	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	247312	25.0	26.1	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	95	923853	25.0	26.7	
102 4-Chlorotoluene	91	8.286	8.287	-0.001	99	929758	25.0	26.4	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	188945	25.0	26.5	
107 1,2,4-Trimethylbenzene	105	8.556	8.556	0.000	98	947202	25.0	26.8	
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	1185719	25.0	27.3	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	1023970	25.0	27.0	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	98	514549	25.0	26.1	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	520895	25.0	25.1	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	1001014	25.0	28.1	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	513159	25.0	26.1	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	78	59349	25.0	28.8	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	391026	25.0	26.5	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	97	188444	25.0	27.0	
121 Naphthalene	128	10.711	10.712	-0.001	98	1084664	25.0	25.6	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	95	384213	25.0	25.7	

QC Flag Legend

Processing Flags

Review Flags

a - User Assigned ID

Reagents:

8260 CORP mix_00193

Amount Added: 12.50

Units: uL

GAS CORP mix_00418

Amount Added: 12.50

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6881.D

Injection Date: 18-Sep-2020 10:48:30

Instrument ID: HP5975T

Lims ID: LCS

Operator ID: RF

Client ID:

Worklist Smp#: 5

Purge Vol: 5.000 mL

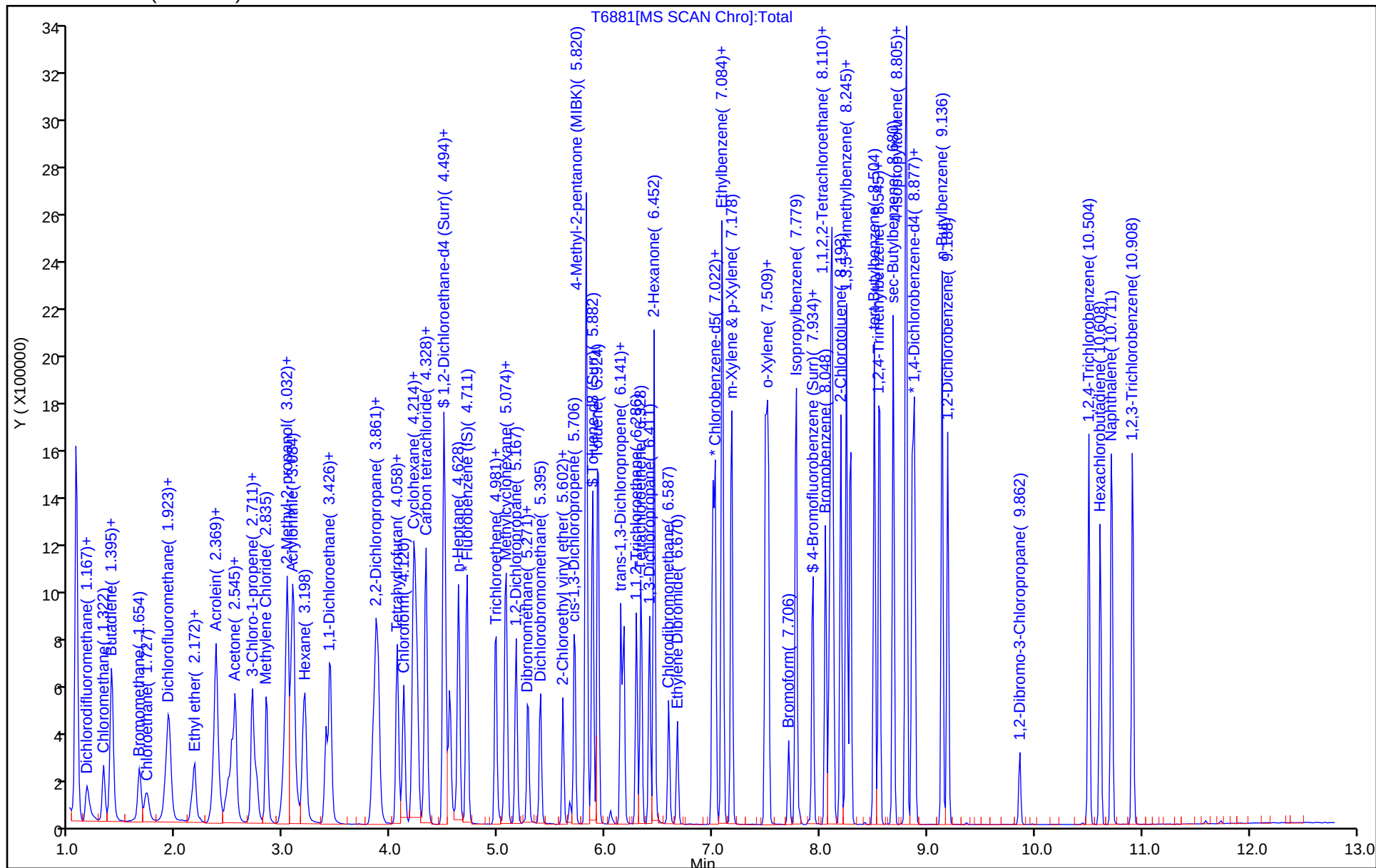
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



Eurofins TestAmerica, Buffalo

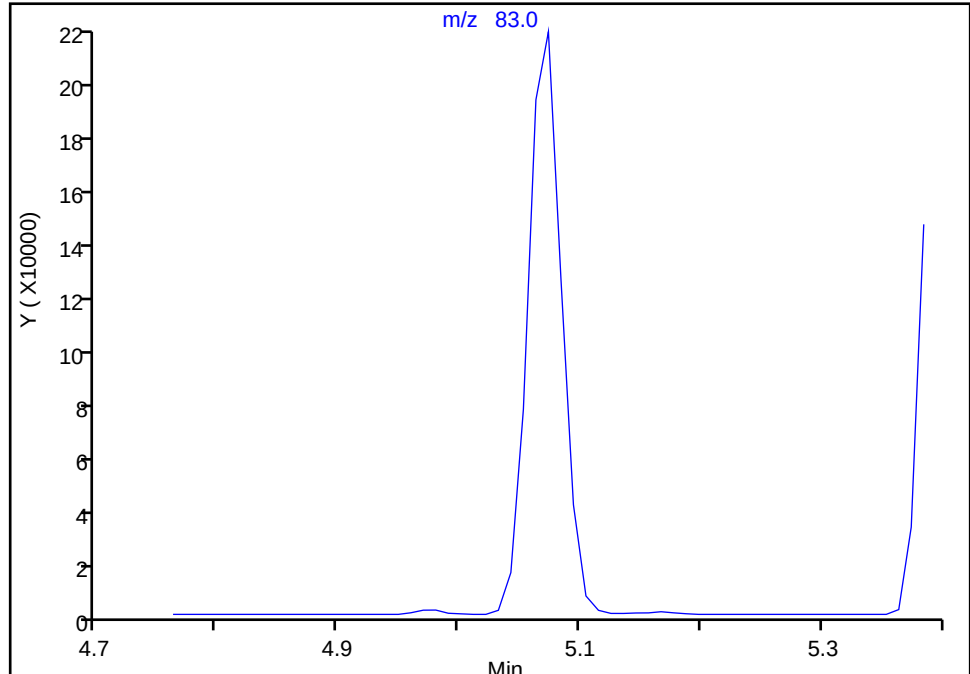
Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200918-93526.b\T6881.D
Injection Date: 18-Sep-2020 10:48:30 Instrument ID: HP5975T
Lims ID: LCS
Client ID:
Operator ID: RF ALS Bottle#: 7 Worklist Smp#: 5
Purge Vol: 5.000 mL Dil. Factor: 1.0000
Method: T-8260 Limit Group: MV - 8260C ICAL
Column: ZB-624 (0.18 mm) Detector MS SCAN

62 Methylcyclohexane, CAS: 108-87-2

Signal: 1

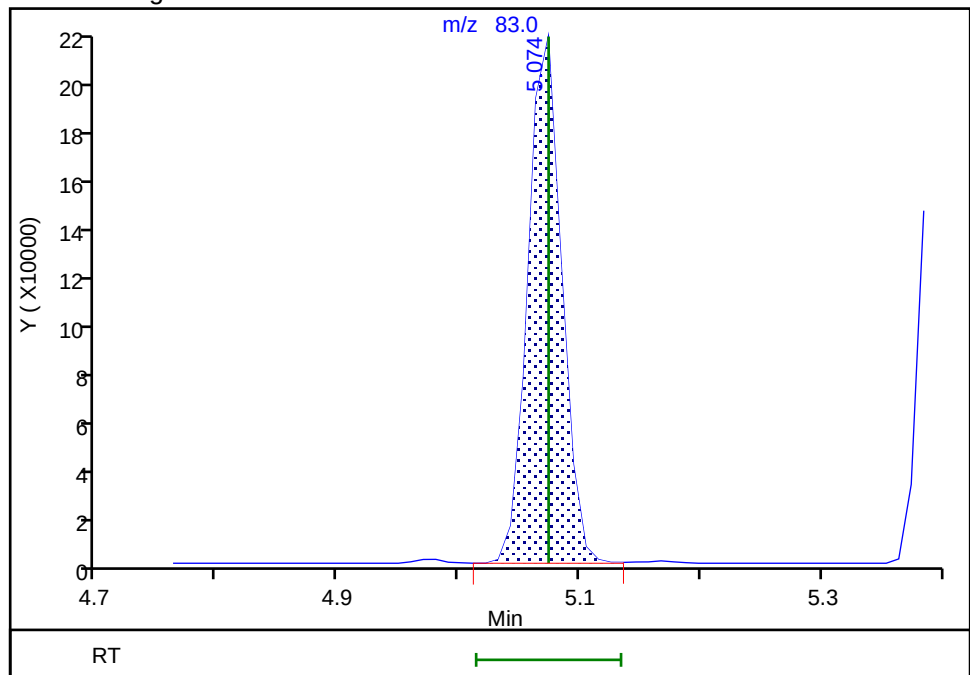
Not Detected
Expected RT: 5.07

Processing Integration Results



RT: 5.07
Area: 421344
Amount: 29.616143
Amount Units: ug/L

Manual Integration Results



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 480-550367/6

Matrix: Water Lab File ID: T6936.D

Analysis Method: 8260C Date Collected: _____

Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2020 10:20

Soil Aliquot Vol: _____ Dilution Factor: 1

Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)

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

Analysis Batch No.: 550367 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	26.3		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	26.2		1.0	0.21
79-00-5	1,1,2-Trichloroethane	25.6		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27.7		1.0	0.31
75-34-3	1,1-Dichloroethane	26.4		1.0	0.38
75-35-4	1,1-Dichloroethene	26.4		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	26.3		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	27.3		1.0	0.39
95-50-1	1,2-Dichlorobenzene	26.2		1.0	0.79
107-06-2	1,2-Dichloroethane	25.0		1.0	0.21
78-87-5	1,2-Dichloropropane	26.2		1.0	0.72
541-73-1	1,3-Dichlorobenzene	26.0		1.0	0.78
106-46-7	1,4-Dichlorobenzene	25.0		1.0	0.84
78-93-3	2-Butanone (MEK)	131		10	1.3
591-78-6	2-Hexanone	138		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	132		5.0	2.1
67-64-1	Acetone	131		10	3.0
71-43-2	Benzene	25.9		1.0	0.41
75-27-4	Bromodichloromethane	27.1		1.0	0.39
75-25-2	Bromoform	28.8		1.0	0.26
74-83-9	Bromomethane	24.2		1.0	0.69
75-15-0	Carbon disulfide	26.3		1.0	0.19
56-23-5	Carbon tetrachloride	26.4		1.0	0.27
108-90-7	Chlorobenzene	25.6		1.0	0.75
124-48-1	Dibromochloromethane	27.0		1.0	0.32
75-00-3	Chloroethane	24.1		1.0	0.32
67-66-3	Chloroform	25.1		1.0	0.34
74-87-3	Chloromethane	23.9		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	25.2		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	25.5		1.0	0.36
110-82-7	Cyclohexane	28.0		1.0	0.18
75-71-8	Dichlorodifluoromethane	21.4		1.0	0.68
100-41-4	Ethylbenzene	26.7		1.0	0.74
106-93-4	1,2-Dibromoethane	26.1		1.0	0.73
98-82-8	Isopropylbenzene	26.5		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-550367/6
 Matrix: Water Lab File ID: T6936.D
 Analysis Method: 8260C Date Collected: _____
 Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2020 10:20
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550367 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	48.9		2.5	1.3
1634-04-4	Methyl tert-butyl ether	24.8		1.0	0.16
108-87-2	Methylcyclohexane	27.8		1.0	0.16
75-09-2	Methylene Chloride	23.9		1.0	0.44
100-42-5	Styrene	26.4		1.0	0.73
127-18-4	Tetrachloroethene	27.0		1.0	0.36
108-88-3	Toluene	26.5		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	25.8		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.5		1.0	0.37
79-01-6	Trichloroethene	26.0		1.0	0.46
75-69-4	Trichlorofluoromethane	24.4		1.0	0.88
75-01-4	Vinyl chloride	24.0		1.0	0.90
1330-20-7	Xylenes, Total	52.7		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	103		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	101		73-120
1868-53-7	Dibromofluoromethane (Surr)	102		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6936.D
 Lims ID: LCS
 Client ID:
 Sample Type: LCS
 Inject. Date: 21-Sep-2020 10:20:30 ALS Bottle#: 5 Worklist Smp#: 6
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: lcs
 Misc. Info.: 480-0093576-006
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 21-Sep-2020 10:42:06 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1052

First Level Reviewer: farrellr

Date: 21-Sep-2020 10:42:06

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	166573	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	569137	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	319205	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	92	198457	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	276061	25.0	25.8	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	771817	25.0	25.7	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	229955	25.0	25.2	
11 Dichlorodifluoromethane	85	1.167	1.157	0.010	99	260102	25.0	21.4	
13 Chloromethane	50	1.312	1.312	0.000	99	295125	25.0	23.9	
151 Butadiene	54	1.395	1.385	0.010	93	276597	25.0	24.6	
14 Vinyl chloride	62	1.395	1.395	0.000	98	284655	25.0	24.0	
15 Bromomethane	94	1.654	1.644	0.010	92	187867	25.0	24.2	
16 Chloroethane	64	1.716	1.716	0.000	99	175688	25.0	24.1	
18 Dichlorofluoromethane	67	1.924	1.924	0.000	97	420633	25.0	24.4	
17 Trichlorofluoromethane	101	1.924	1.924	0.000	98	363844	25.0	24.4	
19 Ethyl ether	59	2.162	2.162	0.000	94	221605	25.0	25.6	
21 Acrolein	56	2.338	2.338	0.000	99	151725	125.0	126.4	
22 1,1-Dichloroethene	96	2.369	2.359	0.010	96	193841	25.0	26.4	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.359	0.010	94	212399	25.0	27.7	
23 Acetone	43	2.483	2.473	0.010	98	473841	125.0	131.5	
24 Iodomethane	142	2.514	2.514	0.000	98	343862	25.0	25.5	
25 Carbon disulfide	76	2.545	2.545	0.000	100	683409	25.0	26.3	
27 3-Chloro-1-propene	41	2.701	2.701	0.000	86	358112	25.0	26.3	
28 Methyl acetate	43	2.742	2.742	0.000	98	429903	50.0	48.9	
30 Methylene Chloride	84	2.836	2.836	0.000	96	234276	25.0	23.9	
31 2-Methyl-2-propanol	59	2.991	2.991	0.000	98	339219	250.0	291.4	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	99	722444	25.0	24.8	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	97	225281	25.0	25.8	
34 Acrylonitrile	53	3.084	3.084	0.000	98	1079476	250.0	254.6	
35 Hexane	57	3.188	3.188	0.000	94	370010	25.0	27.3	
36 1,1-Dichloroethane	63	3.395	3.395	0.000	97	413259	25.0	26.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
39 Vinyl acetate	43	3.437	3.437	0.000	98	1094251	50.0	52.0	
42 2,2-Dichloropropane	77	3.830	3.830	0.000	92	335931	25.0	26.1	
43 cis-1,2-Dichloroethene	96	3.861	3.861	0.000	82	248152	25.0	25.2	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	705626	125.0	130.8	
47 Chlorobromomethane	128	4.058	4.058	0.000	97	121520	25.0	24.4	
48 Tetrahydrofuran	42	4.058	4.058	0.000	87	185242	50.0	49.6	
50 Chloroform	83	4.121	4.121	0.000	95	408483	25.0	25.1	
51 1,1,1-Trichloroethane	97	4.214	4.203	0.011	88	350219	25.0	26.3	
52 Cyclohexane	56	4.214	4.214	0.000	93	428113	25.0	28.0	
53 Carbon tetrachloride	117	4.317	4.317	0.000	97	269852	25.0	26.4	
54 1,1-Dichloropropene	75	4.328	4.328	0.000	93	311426	25.0	27.2	
55 Benzene	78	4.494	4.494	0.000	97	884794	25.0	25.9	
56 Isobutyl alcohol	43	4.514	4.514	0.000	92	301690	625.0	709.8	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	98	366298	25.0	25.0	
59 n-Heptane	43	4.628	4.628	0.000	92	411499	25.0	26.4	
60 Trichloroethene	95	4.970	4.970	0.000	98	234981	25.0	26.0	
62 Methylcyclohexane	83	5.074	5.074	0.000	94	416940	25.0	27.8	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	93	237632	25.0	26.2	
65 Dibromomethane	93	5.271	5.271	0.000	95	155342	25.0	25.2	
66 1,4-Dioxane	88	5.281	5.271	0.010	38	47349	500.0	662.1	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	286280	25.0	27.1	
69 2-Chloroethyl vinyl ether	63	5.602	5.602	0.000	93	177480	25.0	25.0	
71 cis-1,3-Dichloropropene	75	5.706	5.706	0.000	92	360718	25.0	25.5	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	1486245	125.0	132.5	
73 Toluene	92	5.934	5.924	0.010	98	568749	25.0	26.5	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	97	354947	25.0	26.5	
77 Ethyl methacrylate	69	6.172	6.172	0.000	90	329833	25.0	25.9	
78 1,1,2-Trichloroethane	83	6.286	6.286	0.000	92	183209	25.0	25.6	
79 Tetrachloroethene	166	6.328	6.328	0.000	96	238460	25.0	27.0	
80 1,3-Dichloropropane	76	6.411	6.411	0.000	94	373055	25.0	25.5	
81 2-Hexanone	43	6.452	6.452	0.000	96	1083855	125.0	137.5	
82 Chlorodibromomethane	129	6.587	6.587	0.000	91	194771	25.0	27.0	
83 Ethylene Dibromide	107	6.670	6.670	0.000	98	222908	25.0	26.1	
86 Chlorobenzene	112	7.022	7.022	0.000	92	599776	25.0	25.6	
88 Ethylbenzene	91	7.084	7.084	0.000	99	1093171	25.0	26.7	
89 1,1,1,2-Tetrachloroethane	131	7.095	7.095	0.000	91	196579	25.0	26.2	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	404096	25.0	26.3	
91 o-Xylene	106	7.489	7.489	0.000	99	393257	25.0	26.4	
92 Styrene	104	7.520	7.520	0.000	96	677794	25.0	26.4	
93 Bromoform	173	7.706	7.706	0.000	95	119225	25.0	28.8	
95 Isopropylbenzene	105	7.779	7.779	0.000	97	1050141	25.0	26.5	
97 Bromobenzene	156	8.048	8.048	0.000	99	258786	25.0	25.6	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.090	0.000	95	320617	25.0	26.2	
99 N-Propylbenzene	91	8.100	8.100	0.000	99	1342042	25.0	27.6	
101 trans-1,4-Dichloro-2-butene	53	8.121	8.121	0.000	82	106291	25.0	29.1	
100 1,2,3-Trichloropropane	110	8.121	8.121	0.000	89	99080	25.0	26.1	
105 2-Chlorotoluene	126	8.193	8.193	0.000	95	246228	25.0	26.2	
104 1,3,5-Trimethylbenzene	105	8.245	8.245	0.000	95	906074	25.0	26.3	
102 4-Chlorotoluene	91	8.286	8.276	0.010	98	939314	25.0	26.9	
106 tert-Butylbenzene	134	8.504	8.504	0.000	93	190753	25.0	27.0	
107 1,2,4-Trimethylbenzene	105	8.546	8.546	0.000	98	919685	25.0	26.2	
109 sec-Butylbenzene	105	8.680	8.680	0.000	95	1182019	25.0	27.4	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
111 4-Isopropyltoluene	119	8.794	8.794	0.000	97	1019321	25.0	27.1	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	97	509202	25.0	26.0	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	516076	25.0	25.0	
115 n-Butylbenzene	91	9.136	9.136	0.000	98	999832	25.0	28.2	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	513078	25.0	26.2	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	77	55997	25.0	27.3	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	384826	25.0	26.3	
120 Hexachlorobutadiene	225	10.608	10.608	0.000	97	184173	25.0	26.6	
121 Naphthalene	128	10.711	10.711	0.000	98	1081439	25.0	25.7	
122 1,2,3-Trichlorobenzene	180	10.908	10.908	0.000	94	369970	25.0	24.9	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00193	Amount Added: 12.50	Units: uL	
GAS CORP mix_00418	Amount Added: 12.50	Units: uL	
T_8260_Surr_00210	Amount Added: 1.00	Units: uL	Run Reagent
T_8260_IS_00249	Amount Added: 1.00	Units: uL	Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6936.D

Injection Date: 21-Sep-2020 10:20:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: LCS

Worklist Smp#: 6

Client ID:

Purge Vol: 5.000 mL

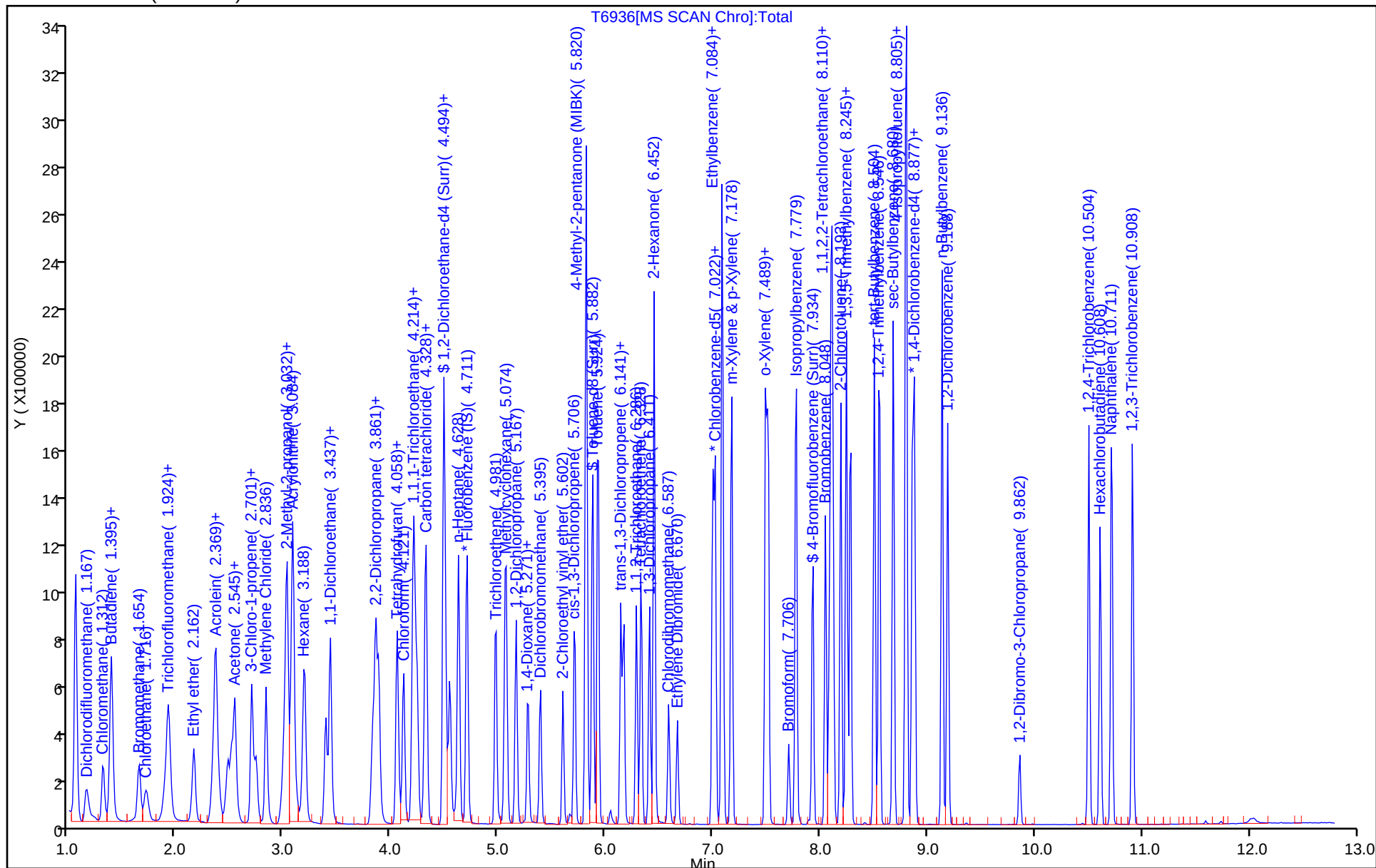
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Buffalo</u>	Job No.: <u>480-175175-1</u>
SDG No.: _____	
Client Sample ID: <u>CC-MW-1 MS</u>	Lab Sample ID: <u>480-175175-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>T6957.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>09/14/2020 14:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>09/21/2020 18:47</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>550367</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	29.9		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	28.4		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.8		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	29.2		1.0	0.31
75-34-3	1,1-Dichloroethane	30.0		1.0	0.38
75-35-4	1,1-Dichloroethene	31.0		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	28.9		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	28.4		1.0	0.39
95-50-1	1,2-Dichlorobenzene	28.8		1.0	0.79
107-06-2	1,2-Dichloroethane	27.3		1.0	0.21
78-87-5	1,2-Dichloropropane	29.3		1.0	0.72
541-73-1	1,3-Dichlorobenzene	29.1		1.0	0.78
106-46-7	1,4-Dichlorobenzene	27.9		1.0	0.84
78-93-3	2-Butanone (MEK)	131		10	1.3
591-78-6	2-Hexanone	141		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	139		5.0	2.1
67-64-1	Acetone	126		10	3.0
71-43-2	Benzene	29.4		1.0	0.41
75-27-4	Bromodichloromethane	28.6		1.0	0.39
75-25-2	Bromoform	25.4		1.0	0.26
74-83-9	Bromomethane	29.0		1.0	0.69
75-15-0	Carbon disulfide	28.3		1.0	0.19
56-23-5	Carbon tetrachloride	28.9		1.0	0.27
108-90-7	Chlorobenzene	28.1		1.0	0.75
124-48-1	Dibromochloromethane	26.7		1.0	0.32
75-00-3	Chloroethane	29.0		1.0	0.32
67-66-3	Chloroform	27.8		1.0	0.34
74-87-3	Chloromethane	29.4		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	28.7		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	27.9		1.0	0.36
110-82-7	Cyclohexane	30.2		1.0	0.18
75-71-8	Dichlorodifluoromethane	23.8		1.0	0.68
100-41-4	Ethylbenzene	29.5		1.0	0.74
106-93-4	1,2-Dibromoethane	26.7		1.0	0.73
98-82-8	Isopropylbenzene	30.2		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-1 MS Lab Sample ID: 480-175175-1 MS
 Matrix: Water Lab File ID: T6957.D
 Analysis Method: 8260C Date Collected: 09/14/2020 14:35
 Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2020 18:47
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550367 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	49.2		2.5	1.3
1634-04-4	Methyl tert-butyl ether	26.9		1.0	0.16
108-87-2	Methylcyclohexane	29.2		1.0	0.16
75-09-2	Methylene Chloride	27.3		1.0	0.44
100-42-5	Styrene	29.0		1.0	0.73
127-18-4	Tetrachloroethene	29.6		1.0	0.36
108-88-3	Toluene	29.4		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	30.3		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.5		1.0	0.37
79-01-6	Trichloroethene	29.2		1.0	0.46
75-69-4	Trichlorofluoromethane	28.1		1.0	0.88
75-01-4	Vinyl chloride	29.7		1.0	0.90
1330-20-7	Xylenes, Total	58.6		2.0	0.66

CAS NO.	SURROGATE	%REC	Q	LIMITS
2037-26-5	Toluene-d8 (Surr)	100		80-120
17060-07-0	1,2-Dichloroethane-d4 (Surr)	103		77-120
460-00-4	4-Bromofluorobenzene (Surr)	99		73-120
1868-53-7	Dibromofluoromethane (Surr)	103		75-123

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6957.D
 Lims ID: 480-175175-F-1 MS
 Client ID: CC-MW-1
 Sample Type: MS
 Inject. Date: 21-Sep-2020 18:47:30 ALS Bottle#: 26 Worklist Smp#: 11
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-175175-f-1 ms
 Misc. Info.: 480-0093576-011
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2020 09:19:39 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1059

First Level Reviewer: farrellr

Date: 22-Sep-2020 09:20:04

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.701	4.711	-0.010	98	154821	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	543820	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	97	295378	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	92	187121	25.0	25.7	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.483	4.494	-0.011	0	256159	25.0	25.8	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	716949	25.0	25.0	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	215612	25.0	24.8	
11 Dichlorodifluoromethane	85	1.157	1.157	0.000	99	269087	25.0	23.8	
13 Chloromethane	50	1.312	1.312	0.000	98	337445	25.0	29.4	
14 Vinyl chloride	62	1.385	1.395	-0.010	97	327773	25.0	29.7	
15 Bromomethane	94	1.644	1.644	0.000	92	209544	25.0	29.0	
16 Chloroethane	64	1.716	1.716	0.000	99	196290	25.0	29.0	
17 Trichlorofluoromethane	101	1.923	1.924	-0.001	97	389064	25.0	28.1	
22 1,1-Dichloroethene	96	2.359	2.359	0.000	97	211827	25.0	31.0	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.359	2.359	0.000	56	207866	25.0	29.2	
23 Acetone	43	2.473	2.473	0.000	99	420959	125.0	125.7	
25 Carbon disulfide	76	2.535	2.545	-0.010	100	685003	25.0	28.3	
28 Methyl acetate	43	2.732	2.742	-0.010	98	401702	50.0	49.2	
30 Methylene Chloride	84	2.835	2.836	-0.001	96	247383	25.0	27.3	
33 Methyl tert-butyl ether	73	3.012	3.022	-0.010	99	728965	25.0	26.9	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	96	245897	25.0	30.3	
36 1,1-Dichloroethane	63	3.395	3.395	0.000	97	437379	25.0	30.0	
43 cis-1,2-Dichloroethene	96	3.861	3.861	0.000	84	262474	25.0	28.7	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	657611	125.0	131.1	
50 Chloroform	83	4.110	4.121	-0.011	96	419953	25.0	27.8	
51 1,1,1-Trichloroethane	97	4.214	4.203	0.011	90	370499	25.0	29.9	
52 Cyclohexane	56	4.214	4.214	0.000	93	428294	25.0	30.2	
53 Carbon tetrachloride	117	4.317	4.317	0.000	96	274810	25.0	28.9	
55 Benzene	78	4.493	4.494	-0.001	97	934801	25.0	29.4	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	98	371402	25.0	27.3	
60 Trichloroethene	95	4.970	4.970	0.000	96	245601	25.0	29.2	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.063	5.074	-0.011	95	406159	25.0	29.2	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	91	246435	25.0	29.3	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	281078	25.0	28.6	
71 cis-1,3-Dichloropropene	75	5.706	5.706	0.000	92	366247	25.0	27.9	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	1488159	125.0	138.8	
73 Toluene	92	5.924	5.924	0.000	98	603949	25.0	29.4	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	97	338529	25.0	26.5	
78 1,1,2-Trichloroethane	83	6.286	6.287	0.000	93	183139	25.0	26.8	
79 Tetrachloroethene	166	6.328	6.328	0.000	95	249832	25.0	29.6	
81 2-Hexanone	43	6.452	6.452	0.000	97	1063943	125.0	141.3	
82 Chlorodibromomethane	129	6.587	6.587	0.000	90	184229	25.0	26.7	
83 Ethylene Dibromide	107	6.670	6.670	0.000	99	218094	25.0	26.7	
86 Chlorobenzene	112	7.022	7.022	0.000	92	628586	25.0	28.1	
88 Ethylbenzene	91	7.084	7.084	0.000	99	1153286	25.0	29.5	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	435304		29.7	
91 o-Xylene	106	7.488	7.489	0.000	99	411285		28.9	
92 Styrene	104	7.519	7.520	-0.001	95	710956	25.0	29.0	
93 Bromoform	173	7.706	7.706	0.000	93	100354	25.0	25.4	
95 Isopropylbenzene	105	7.779	7.779	0.000	97	1106985	25.0	30.2	
98 1,1,2,2-Tetrachloroethane	83	8.089	8.090	-0.001	93	321661	25.0	28.4	
110 1,3-Dichlorobenzene	146	8.805	8.805	-0.001	97	527247	25.0	29.1	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	93	532019	25.0	27.9	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	521370	25.0	28.8	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	78	53859	25.0	28.4	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	391712	25.0	28.9	
S 126 Xylenes, Total	1				0			58.5	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00193

Amount Added: 12.50

Units: uL

GAS CORP mix_00418

Amount Added: 12.50

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6957.D

Injection Date: 21-Sep-2020 18:47:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-F-1 MS

Worklist Smp#: 11

Client ID: CC-MW-1

Purge Vol: 5.000 mL

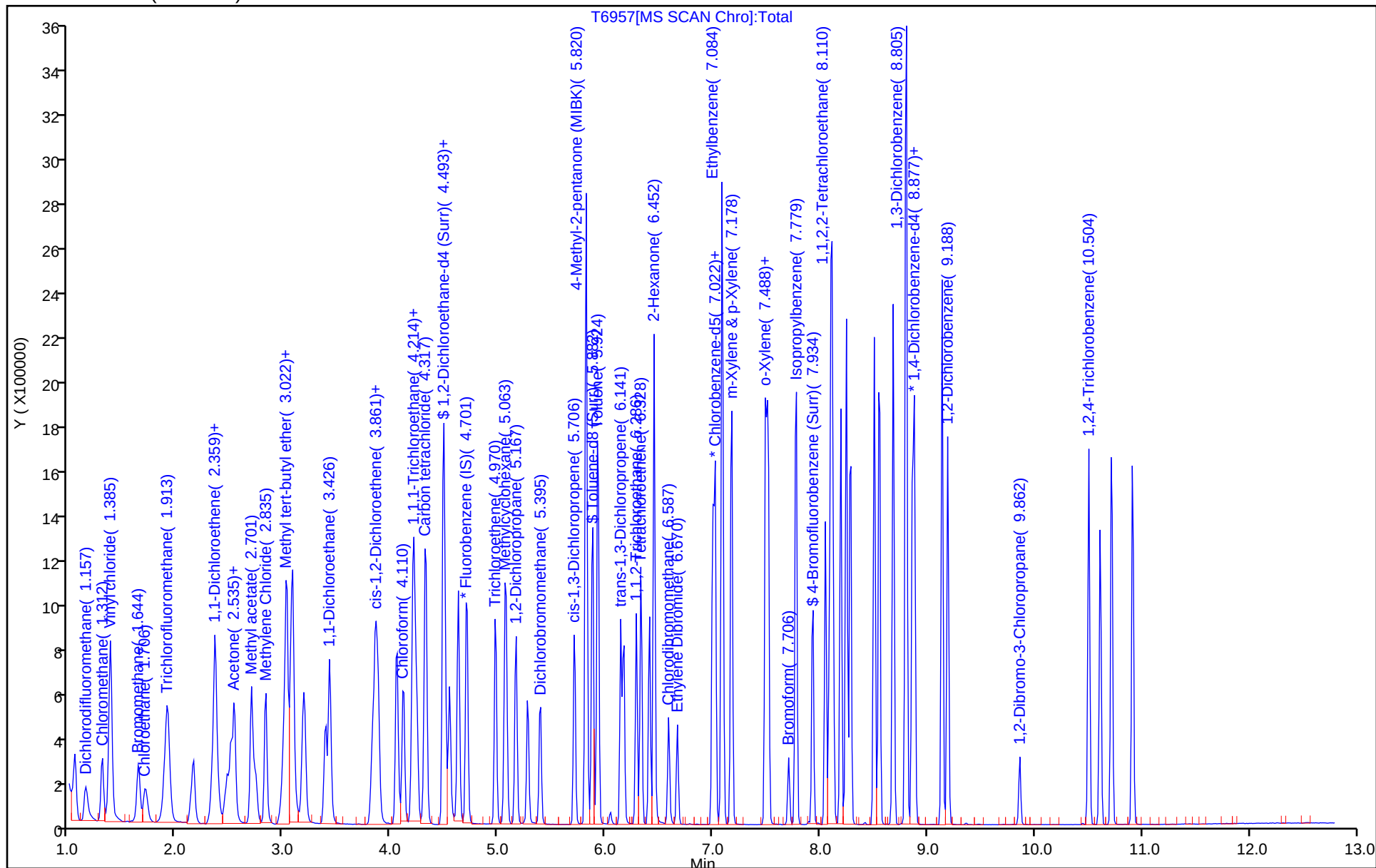
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Buffalo</u>	Job No.: <u>480-175175-1</u>
SDG No.: _____	
Client Sample ID: <u>CC-MW-1 MSD</u>	Lab Sample ID: <u>480-175175-1 MSD</u>
Matrix: <u>Water</u>	Lab File ID: <u>T6958.D</u>
Analysis Method: <u>8260C</u>	Date Collected: <u>09/14/2020 14:35</u>
Sample wt/vol: <u>5 (mL)</u>	Date Analyzed: <u>09/21/2020 19:11</u>
Soil Aliquot Vol: _____	Dilution Factor: <u>1</u>
Soil Extract Vol.: _____	GC Column: <u>ZB-624 (20)</u> ID: <u>0.18 (mm)</u>
% Moisture: _____	Level: (low/med) <u>Low</u>
Analysis Batch No.: <u>550367</u>	Units: <u>ug/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
71-55-6	1,1,1-Trichloroethane	28.4		1.0	0.82
79-34-5	1,1,2,2-Tetrachloroethane	27.3		1.0	0.21
79-00-5	1,1,2-Trichloroethane	26.6		1.0	0.23
76-13-1	1,1,2-Trichloro-1,2,2-trifluoroethane	27.2		1.0	0.31
75-34-3	1,1-Dichloroethane	29.1		1.0	0.38
75-35-4	1,1-Dichloroethene	29.2		1.0	0.29
120-82-1	1,2,4-Trichlorobenzene	27.1		1.0	0.41
96-12-8	1,2-Dibromo-3-Chloropropane	27.7		1.0	0.39
95-50-1	1,2-Dichlorobenzene	27.4		1.0	0.79
107-06-2	1,2-Dichloroethane	26.5		1.0	0.21
78-87-5	1,2-Dichloropropane	28.4		1.0	0.72
541-73-1	1,3-Dichlorobenzene	27.4		1.0	0.78
106-46-7	1,4-Dichlorobenzene	26.7		1.0	0.84
78-93-3	2-Butanone (MEK)	131		10	1.3
591-78-6	2-Hexanone	142		5.0	1.2
108-10-1	4-Methyl-2-pentanone (MIBK)	139		5.0	2.1
67-64-1	Acetone	127		10	3.0
71-43-2	Benzene	28.1		1.0	0.41
75-27-4	Bromodichloromethane	28.1		1.0	0.39
75-25-2	Bromoform	26.7		1.0	0.26
74-83-9	Bromomethane	27.3		1.0	0.69
75-15-0	Carbon disulfide	26.2		1.0	0.19
56-23-5	Carbon tetrachloride	27.7		1.0	0.27
108-90-7	Chlorobenzene	28.0		1.0	0.75
124-48-1	Dibromochloromethane	26.7		1.0	0.32
75-00-3	Chloroethane	28.4		1.0	0.32
67-66-3	Chloroform	26.9		1.0	0.34
74-87-3	Chloromethane	28.3		1.0	0.35
156-59-2	cis-1,2-Dichloroethene	26.7		1.0	0.81
10061-01-5	cis-1,3-Dichloropropene	26.2		1.0	0.36
110-82-7	Cyclohexane	28.4		1.0	0.18
75-71-8	Dichlorodifluoromethane	22.0		1.0	0.68
100-41-4	Ethylbenzene	29.0		1.0	0.74
106-93-4	1,2-Dibromoethane	26.6		1.0	0.73
98-82-8	Isopropylbenzene	28.6		1.0	0.79

FORM I
GC/MS VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-1 MSD Lab Sample ID: 480-175175-1 MSD
 Matrix: Water Lab File ID: T6958.D
 Analysis Method: 8260C Date Collected: 09/14/2020 14:35
 Sample wt/vol: 5 (mL) Date Analyzed: 09/21/2020 19:11
 Soil Aliquot Vol: _____ Dilution Factor: 1
 Soil Extract Vol.: _____ GC Column: ZB-624 (20) ID: 0.18 (mm)
 % Moisture: _____ Level: (low/med) Low
 Analysis Batch No.: 550367 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
79-20-9	Methyl acetate	46.4		2.5	1.3
1634-04-4	Methyl tert-butyl ether	25.9		1.0	0.16
108-87-2	Methylcyclohexane	27.8		1.0	0.16
75-09-2	Methylene Chloride	25.5		1.0	0.44
100-42-5	Styrene	28.4		1.0	0.73
127-18-4	Tetrachloroethene	29.1		1.0	0.36
108-88-3	Toluene	29.1		1.0	0.51
156-60-5	trans-1,2-Dichloroethene	27.9		1.0	0.90
10061-02-6	trans-1,3-Dichloropropene	26.5		1.0	0.37
79-01-6	Trichloroethene	27.8		1.0	0.46
75-69-4	Trichlorofluoromethane	26.7		1.0	0.88
75-01-4	Vinyl chloride	27.6		1.0	0.90
1330-20-7	Xylenes, Total	57.7		2.0	0.66

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

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6958.D
 Lims ID: 480-175175-F-1 MSD
 Client ID: CC-MW-1
 Sample Type: MSD
 Inject. Date: 21-Sep-2020 19:11:30 ALS Bottle#: 27 Worklist Smp#: 12
 Purge Vol: 5.000 mL Dil. Factor: 1.0000
 Sample Info: 480-175175-f-1 msd
 Misc. Info.: 480-0093576-012
 Operator ID: RF Instrument ID: HP5975T
 Method: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T-8260.m
 Limit Group: MV - 8260C ICAL
 Last Update: 22-Sep-2020 09:19:39 Calib Date: 16-Sep-2020 20:57:30
 Integrator: RTE ID Type: Deconvolution ID
 Quant Method: Internal Standard Quant By: Initial Calibration
 Last Ical File: \\chromfs\Buffalo\ChromData\HP5975T\20200916-93466.b\T6863.D
 Column 1 : ZB-624 (0.18 mm) Det: MS SCAN
 Process Host: CTX1059

First Level Reviewer: farrellr

Date: 22-Sep-2020 09:20:20

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
* 153 Fluorobenzene (IS)	70	4.711	4.711	0.000	98	160360	25.0	25.0	
* 2 Chlorobenzene-d5	117	7.001	7.001	0.000	89	547524	25.0	25.0	
* 3 1,4-Dichlorobenzene-d4	152	8.856	8.856	0.000	96	306542	25.0	25.0	
\$ 154 Dibromofluoromethane (Surr)	113	4.245	4.245	0.000	92	191513	25.0	25.4	
\$ 4 1,2-Dichloroethane-d4 (Surr)	65	4.494	4.494	0.000	0	264047	25.0	25.7	
\$ 6 Toluene-d8 (Surr)	98	5.882	5.882	0.000	95	738610	25.0	25.6	
\$ 7 4-Bromofluorobenzene (Surr)	174	7.934	7.934	0.000	0	223176	25.0	25.5	
11 Dichlorodifluoromethane	85	1.157	1.157	0.000	99	257889	25.0	22.0	
13 Chloromethane	50	1.312	1.312	0.000	99	335490	25.0	28.3	
14 Vinyl chloride	62	1.395	1.395	0.000	98	315275	25.0	27.6	
15 Bromomethane	94	1.654	1.644	0.010	92	204704	25.0	27.3	
16 Chloroethane	64	1.716	1.716	0.000	99	199310	25.0	28.4	
17 Trichlorofluoromethane	101	1.924	1.924	0.000	98	382757	25.0	26.7	
22 1,1-Dichloroethene	96	2.369	2.359	0.010	95	206746	25.0	29.2	
20 1,1,2-Trichloro-1,2,2-trifluoroethane	101	2.369	2.359	0.010	57	200818	25.0	27.2	
23 Acetone	43	2.473	2.473	0.000	98	439973	125.0	126.8	
25 Carbon disulfide	76	2.545	2.545	0.000	100	657587	25.0	26.2	
28 Methyl acetate	43	2.742	2.742	0.000	98	392236	50.0	46.4	
30 Methylene Chloride	84	2.836	2.836	0.000	96	239686	25.0	25.5	
33 Methyl tert-butyl ether	73	3.022	3.022	0.000	99	727065	25.0	25.9	
32 trans-1,2-Dichloroethene	96	3.032	3.032	0.000	96	234634	25.0	27.9	
36 1,1-Dichloroethane	63	3.395	3.395	0.000	97	439320	25.0	29.1	
43 cis-1,2-Dichloroethene	96	3.861	3.861	0.000	84	252462	25.0	26.7	
44 2-Butanone (MEK)	43	3.882	3.882	0.000	100	681546	125.0	131.2	
50 Chloroform	83	4.121	4.121	0.000	96	421352	25.0	26.9	
51 1,1,1-Trichloroethane	97	4.214	4.203	0.011	94	364150	25.0	28.4	
52 Cyclohexane	56	4.214	4.214	0.000	93	417835	25.0	28.4	
53 Carbon tetrachloride	117	4.317	4.317	0.000	96	272544	25.0	27.7	
55 Benzene	78	4.494	4.494	0.000	97	925000	25.0	28.1	
57 1,2-Dichloroethane	62	4.545	4.545	0.000	98	372756	25.0	26.5	
60 Trichloroethene	95	4.981	4.970	0.011	96	242332	25.0	27.8	

Compound	Sig	RT (min.)	Adj RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ug/L	OnCol Amt ug/L	Flags
62 Methylcyclohexane	83	5.064	5.074	-0.010	94	401650	25.0	27.8	
63 1,2-Dichloropropane	63	5.167	5.167	0.000	92	248008	25.0	28.4	
67 Dichlorobromomethane	83	5.395	5.395	0.000	98	285306	25.0	28.1	
71 cis-1,3-Dichloropropene	75	5.706	5.706	0.000	92	356471	25.0	26.2	
72 4-Methyl-2-pentanone (MIBK)	43	5.820	5.820	0.000	97	1496341	125.0	138.6	
73 Toluene	92	5.934	5.924	0.010	98	600575	25.0	29.1	
75 trans-1,3-Dichloropropene	75	6.141	6.141	0.000	97	341524	25.0	26.5	
78 1,1,2-Trichloroethane	83	6.286	6.287	0.000	93	182997	25.0	26.6	
79 Tetrachloroethene	166	6.328	6.328	0.000	95	247566	25.0	29.1	
81 2-Hexanone	43	6.452	6.452	0.000	96	1076923	125.0	142.0	
82 Chlorodibromomethane	129	6.587	6.587	0.000	90	185721	25.0	26.7	
83 Ethylene Dibromide	107	6.670	6.670	0.000	97	219168	25.0	26.6	
86 Chlorobenzene	112	7.022	7.022	0.000	94	630441	25.0	28.0	
88 Ethylbenzene	91	7.084	7.084	0.000	99	1139055	25.0	29.0	
90 m-Xylene & p-Xylene	106	7.178	7.178	0.000	0	425638		28.8	
91 o-Xylene	106	7.489	7.489	0.000	99	413946		28.9	
92 Styrene	104	7.509	7.520	-0.011	95	702015	25.0	28.4	
93 Bromoform	173	7.706	7.706	0.000	93	106066	25.0	26.7	
95 Isopropylbenzene	105	7.779	7.779	0.000	97	1089108	25.0	28.6	
98 1,1,2,2-Tetrachloroethane	83	8.090	8.090	0.000	95	320162	25.0	27.3	
110 1,3-Dichlorobenzene	146	8.805	8.805	0.000	97	515574	25.0	27.4	
113 1,4-Dichlorobenzene	146	8.877	8.877	0.000	92	529540	25.0	26.7	
116 1,2-Dichlorobenzene	146	9.188	9.188	0.000	96	514503	25.0	27.4	
117 1,2-Dibromo-3-Chloropropane	75	9.862	9.862	0.000	77	54419	25.0	27.7	
119 1,2,4-Trichlorobenzene	180	10.504	10.504	0.000	94	381612	25.0	27.1	
S 126 Xylenes, Total	1				0			57.7	

QC Flag Legend

Processing Flags

Reagents:

8260 CORP mix_00193

Amount Added: 12.50

Units: uL

GAS CORP mix_00418

Amount Added: 12.50

Units: uL

T_8260_Surr_00210

Amount Added: 1.00

Units: uL

Run Reagent

T_8260_IS_00249

Amount Added: 1.00

Units: uL

Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5975T\20200921-93576.b\T6958.D

Injection Date: 21-Sep-2020 19:11:30

Instrument ID: HP5975T

Operator ID: RF

Lims ID: 480-175175-F-1 MSD

Worklist Smp#: 12

Client ID: CC-MW-1

Purge Vol: 5.000 mL

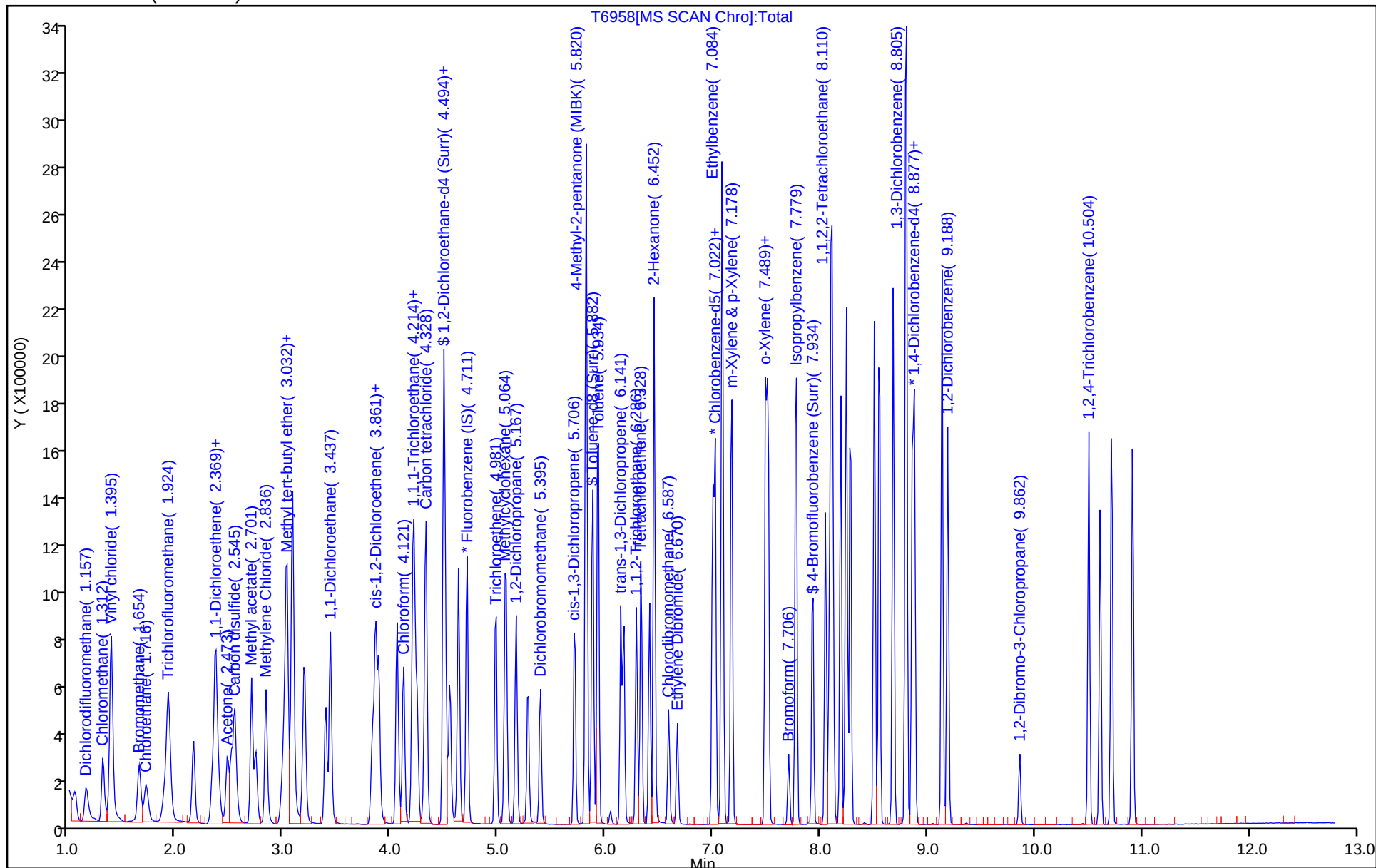
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: T-8260

Limit Group: MV - 8260C ICAL

Column: ZB-624 (0.18 mm)



GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-175175-1

SDG No.: _____

Instrument ID: HP5975TStart Date: 09/16/2020 12:54Analysis Batch Number: 549730End Date: 09/16/2020 22:33

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-549730/4		09/16/2020 12:54	1	T6843.D	ZB-624 (20) 0.18 (mm)
IC 480-549730/6		09/16/2020 13:41	1	T6845.D	ZB-624 (20) 0.18 (mm)
IC 480-549730/7		09/16/2020 14:05	1	T6846.D	ZB-624 (20) 0.18 (mm)
IC 480-549730/8		09/16/2020 14:30	1	T6847.D	ZB-624 (20) 0.18 (mm)
IC 480-549730/9		09/16/2020 14:54	1	T6848.D	ZB-624 (20) 0.18 (mm)
IC 480-549730/10		09/16/2020 15:18	1	T6849.D	ZB-624 (20) 0.18 (mm)
ICIS 480-549730/11		09/16/2020 15:43	1	T6850.D	ZB-624 (20) 0.18 (mm)
IC 480-549730/12		09/16/2020 16:07	1	T6851.D	ZB-624 (20) 0.18 (mm)
IC 480-549730/13		09/16/2020 16:31	1	T6852.D	ZB-624 (20) 0.18 (mm)
IC 480-549730/18		09/16/2020 18:32	1		ZB-624 (20) 0.18 (mm)
IC 480-549730/19		09/16/2020 18:56	1		ZB-624 (20) 0.18 (mm)
IC 480-549730/20		09/16/2020 19:21	1		ZB-624 (20) 0.18 (mm)
IC 480-549730/21		09/16/2020 19:45	1		ZB-624 (20) 0.18 (mm)
IC 480-549730/22		09/16/2020 20:09	1		ZB-624 (20) 0.18 (mm)
IC 480-549730/23		09/16/2020 20:33	1		ZB-624 (20) 0.18 (mm)
IC 480-549730/24		09/16/2020 20:57	1		ZB-624 (20) 0.18 (mm)
MDLV 480-549730/26		09/16/2020 21:45	1		ZB-624 (20) 0.18 (mm)
ICV 480-549730/27		09/16/2020 22:09	1	T6866.D	ZB-624 (20) 0.18 (mm)
ICV 480-549730/28		09/16/2020 22:33	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Buffalo

Job No.: 480-175175-1

SDG No.:

Instrument ID: HP5975T

Start Date: 09/18/2020 08:49

Analysis Batch Number: 550111

End Date: 09/18/2020 19:15

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-550111/2		09/18/2020 08:49	1	T6876.D	ZB-624 (20) 0.18 (mm)
MDLV 480-550111/9		09/18/2020 09:12	1		ZB-624 (20) 0.18 (mm)
MDLV 480-550111/10		09/18/2020 09:36	1		ZB-624 (20) 0.18 (mm)
CCVIS 480-550111/3		09/18/2020 10:00	1	T6879.D	ZB-624 (20) 0.18 (mm)
CCV 480-550111/4		09/18/2020 10:24	1		ZB-624 (20) 0.18 (mm)
LCS 480-550111/5		09/18/2020 10:48	1	T6881.D	ZB-624 (20) 0.18 (mm)
MB 480-550111/8		09/18/2020 11:35	1	T6883.D	ZB-624 (20) 0.18 (mm)
480-175175-1	CC-MW-1	09/18/2020 12:02	1	T6884.D	ZB-624 (20) 0.18 (mm)
480-175175-2	CC-MW-2	09/18/2020 12:26	2	T6885.D	ZB-624 (20) 0.18 (mm)
480-175175-3	CC-MW-3	09/18/2020 12:49	1	T6886.D	ZB-624 (20) 0.18 (mm)
480-175175-4	CC-MW-5	09/18/2020 13:14	1	T6887.D	ZB-624 (20) 0.18 (mm)
480-175175-5	CC-MW-4	09/18/2020 13:37	1	T6888.D	ZB-624 (20) 0.18 (mm)
480-175175-6	CC-MW-6	09/18/2020 14:02	1	T6889.D	ZB-624 (20) 0.18 (mm)
480-175175-8	TRIP BLANK	09/18/2020 14:26	1	T6890.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 14:50	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 15:14	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 15:38	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 16:03	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 16:27	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 16:51	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 17:15	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 17:39	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 18:03	5		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 18:27	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 18:51	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/18/2020 19:15	1		ZB-624 (20) 0.18 (mm)

GC/MS VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-175175-1

SDG No.: _____

Instrument ID: HP5975TStart Date: 09/21/2020 09:09Analysis Batch Number: 550367End Date: 09/21/2020 19:11

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
BFB 480-550367/3		09/21/2020 09:09	1	T6933.D	ZB-624 (20) 0.18 (mm)
CCVIS 480-550367/4		09/21/2020 09:33	1	T6934.D	ZB-624 (20) 0.18 (mm)
CCV 480-550367/5		09/21/2020 09:56	1		ZB-624 (20) 0.18 (mm)
LCS 480-550367/6		09/21/2020 10:20	1	T6936.D	ZB-624 (20) 0.18 (mm)
MB 480-550367/8		09/21/2020 11:08	1	T6938.D	ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 11:35	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 11:59	20		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 12:23	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 12:47	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 13:11	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 13:35	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 13:59	2		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 14:23	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 14:47	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 15:11	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 15:35	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 15:59	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 16:23	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 16:46	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 17:11	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 17:35	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 17:59	1		ZB-624 (20) 0.18 (mm)
ZZZZZ		09/21/2020 18:23	2		ZB-624 (20) 0.18 (mm)
480-175175-1 MS	CC-MW-1 MS	09/21/2020 18:47	1	T6957.D	ZB-624 (20) 0.18 (mm)
480-175175-1 MSD	CC-MW-1 MSD	09/21/2020 19:11	1	T6958.D	ZB-624 (20) 0.18 (mm)

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Batch Number: 549730 Batch Start Date: 09/16/20 12:54 Batch Analyst: Farrell, Ryan JBatch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	8260 CORP mix 00193	GAS CORP mix 00418	MV_BFB_STK 00073	SS 8260 CORP 00086
BFB 480-549730/4		8260C		1 uL	1 uL			1 uL	
IC 480-549730/6		8260C		5 mL	5 mL	0.4 uL	0.4 uL		
IC 480-549730/7		8260C		5 mL	5 mL	1 uL	1 uL		
IC 480-549730/8		8260C		5 mL	5 mL	2 uL	2 uL		
IC 480-549730/9		8260C		5 mL	5 mL	5 uL	5 uL		
IC 480-549730/10		8260C		5 mL	5 mL	5 uL	5 uL		
ICIS 480-549730/11		8260C		5 mL	5 mL	12.5 uL	12.5 uL		
IC 480-549730/12		8260C		5 mL	5 mL	25 uL	25 uL		
IC 480-549730/13		8260C		5 mL	5 mL	50 uL	50 uL		
ICV 480-549730/27		8260C		5 mL	5 mL				12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	SS GAS CORP 00368	T_8260_IS 00249	T_8260_Surr 00210			
BFB 480-549730/4		8260C							
IC 480-549730/6		8260C			1 uL	1 uL			
IC 480-549730/7		8260C			1 uL	1 uL			
IC 480-549730/8		8260C			1 uL	1 uL			
IC 480-549730/9		8260C			1 uL	1 uL			
IC 480-549730/10		8260C			1 uL	1 uL			
ICIS 480-549730/11		8260C			1 uL	1 uL			
IC 480-549730/12		8260C			1 uL	1 uL			
IC 480-549730/13		8260C			1 uL	1 uL			
ICV 480-549730/27		8260C		12.5 uL	1 uL	1 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.

8260C

Page 1 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Batch Number: 549730 Batch Start Date: 09/16/20 12:54 Batch Analyst: Farrell, Ryan JBatch Method: 8260C Batch End Date: _____

Batch Notes	

Basis	Basis Description

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.

8260C

Page 2 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Batch Number: 550111 Batch Start Date: 09/18/20 08:49 Batch Analyst: LaPointe, Cody RBatch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00193	BFB_WRK 00110	GAS CORP mix 00418
BFB 480-550111/2		8260C		1 uL	1 uL			1 uL	
CCVIS 480-550111/3		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-550111/5		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-550111/8		8260C		5 mL	5 mL				
480-175175-F-1	CC-MW-1	8260C	T	5 mL	5 mL	<2 SU			
480-175175-F-2	CC-MW-2	8260C	T	5 mL	5 mL	<2 SU			
480-175175-B-3	CC-MW-3	8260C	T	5 mL	5 mL	<2 SU			
480-175175-B-4	CC-MW-5	8260C	T	5 mL	5 mL	<2 SU			
480-175175-F-5	CC-MW-4	8260C	T	5 mL	5 mL	<2 SU			
480-175175-B-6	CC-MW-6	8260C	T	5 mL	5 mL	<2 SU			
480-175175-A-8	TRIP BLANK	8260C	T	5 mL	5 mL	<2 SU			

Lab Sample ID	Client Sample ID	Method Chain	Basis	T_8260_IS 00249	T_8260_Surr 00210				
BFB 480-550111/2		8260C							
CCVIS 480-550111/3		8260C		1 uL	1 uL				
LCS 480-550111/5		8260C		1 uL	1 uL				
MB 480-550111/8		8260C		1 uL	1 uL				
480-175175-F-1	CC-MW-1	8260C	T	1 uL	1 uL				
480-175175-F-2	CC-MW-2	8260C	T	1 uL	1 uL				
480-175175-B-3	CC-MW-3	8260C	T	1 uL	1 uL				
480-175175-B-4	CC-MW-5	8260C	T	1 uL	1 uL				
480-175175-F-5	CC-MW-4	8260C	T	1 uL	1 uL				
480-175175-B-6	CC-MW-6	8260C	T	1 uL	1 uL				
480-175175-A-8	TRIP BLANK	8260C	T	1 uL	1 uL				

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Batch Number: 550111 Batch Start Date: 09/18/20 08:49 Batch Analyst: LaPointe, Cody RBatch Method: 8260C Batch End Date: _____

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.

8260C

Page 2 of 2

GC/MS VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Batch Number: 550367 Batch Start Date: 09/21/20 09:09 Batch Analyst: Farrell, Ryan JBatch Method: 8260C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	Initial pH	8260 CORP mix 00193	BFB_WRK 00110	GAS CORP mix 00418
BFB 480-550367/3		8260C		1 uL	1 uL			1 uL	
CCVIS 480-550367/4		8260C		5 mL	5 mL		12.5 uL		12.5 uL
LCS 480-550367/6		8260C		5 mL	5 mL		12.5 uL		12.5 uL
MB 480-550367/8		8260C		5 mL	5 mL				
480-175175-F-1 MS	CC-MW-1	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL
480-175175-F-1 MSD	CC-MW-1	8260C	T	5 mL	5 mL	<2 SU	12.5 uL		12.5 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	T_8260_IS 00249	T_8260_Surr 00210				
BFB 480-550367/3		8260C							
CCVIS 480-550367/4		8260C		1 uL	1 uL				
LCS 480-550367/6		8260C		1 uL	1 uL				
MB 480-550367/8		8260C		1 uL	1 uL				
480-175175-F-1 MS	CC-MW-1	8260C	T	1 uL	1 uL				
480-175175-F-1 MSD	CC-MW-1	8260C	T	1 uL	1 uL				

Batch Notes	

Basis	Basis Description
T	Total/NA

The pound sign (#) in the amount added field denotes that the reagent was used undiluted. All calculations are performed using the stated concentration for this reagent.

Method 8270D

SIM-ID

Semivolatile Organic Compounds
(GC/MS SIM / Isotope Dilution) by
Method 8270D

FORM II
GC/MS SEMI VOA SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DXE #
CC-MW-1	480-175175-1	28
CC-MW-2	480-175175-2	26
CC-MW-4	480-175175-5	30
	MB 480-550117/1-A	31
	LCS 480-550117/2-A	25
CC-MW-1 MS	480-175175-1 MS	27
CC-MW-1 MSD	480-175175-1 MSD	28

DXE = 1,4-Dioxane-d8

QC LIMITS
15-110

Column to be used to flag recovery values

FORM II 8270D SIM ID

FORM III
GC/MS SEMI VOA LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: Z002506.D

Lab ID: LCS 480-550117/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	1.15	115	40-140	
1,4-Dioxane-d8	10.0	2.54	25	15-110	

Column to be used to flag recovery and RPD values

FORM III 8270D SIM ID

FORM III
GC/MS SEMI VOA MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: Z002507.D
Lab ID: 480-175175-1 MS Client ID: CC-MW-1 MS

COMPOUND	SPIKE ADDED (ug/L)	SAMPLE CONCENTRATION (ug/L)	MS CONCENTRATION (ug/L)	MS % REC	QC LIMITS REC	#
1,4-Dioxane	0.952	ND	1.10	116	40-140	
1,4-Dioxane-d8	9.52	2.7	2.56	27	15-110	

FORM III
GC/MS SEMI VOA MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Matrix: Water Level: Low Lab File ID: Z002508.D
Lab ID: 480-175175-1 MSD Client ID: CC-MW-1 MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	0.962	1.12	116	1	20	40-140	
1,4-Dioxane-d8	9.62	2.74	28			15-110	

Column to be used to flag recovery and RPD values

FORM IV
GC/MS SEMI VOA METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Lab File ID: Z002505.D Lab Sample ID: MB 480-550117/1-A
Matrix: Water Date Extracted: 09/18/2020 08:21
Instrument ID: HP5973Z Date Analyzed: 09/22/2020 23:29
Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-550117/2-A	Z002506.D	09/22/2020 23:51
CC-MW-1 MS	480-175175-1 MS	Z002507.D	09/23/2020 00:14
CC-MW-1 MSD	480-175175-1 MSD	Z002508.D	09/23/2020 00:36
CC-MW-1	480-175175-1	Z002509.D	09/23/2020 00:59
CC-MW-2	480-175175-2	Z002512.D	09/23/2020 02:07
CC-MW-4	480-175175-5	Z002513.D	09/23/2020 02:30

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Lab File ID: Z002360.D DFTPP Injection Date: 09/16/2020
Instrument ID: HP5973Z DFTPP Injection Time: 13:13
Analysis Batch No.: 549769

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	35.7
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	37.7
70	Less than 2% of mass 69	0.4 (0.9) 1
127	10-80% of Base Peak	47.0
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.2
275	10-60% of Base Peak	28.6
365	Greater than 1% of mass 198	5.3
441	present but less than 24% of mass 442	13.4 (16.4) 2
442	Greater than 50% of mass 198	81.3
443	15-24% of mass 442	15.3 (18.9) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	IC 480-549769/3	Z002361.D	09/16/2020	13:40
	IC 480-549769/4	Z002362.D	09/16/2020	14:03
	ICIS 480-549769/5	Z002363.D	09/16/2020	14:25
	IC 480-549769/6	Z002364.D	09/16/2020	14:48
	IC 480-549769/7	Z002365.D	09/16/2020	15:11
	IC 480-549769/8	Z002366.D	09/16/2020	15:33
	ICV 480-549769/9	Z002367.D	09/16/2020	15:56

FORM V
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Lab File ID: Z002503.D DFTPP Injection Date: 09/22/2020
Instrument ID: HP5973Z DFTPP Injection Time: 22:39
Analysis Batch No.: 550627

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	42.5
68	Less than 2% of mass 69	0.0 (0.0) 1
69	Mass 69 Relative abundance	44.9
70	Less than 2% of mass 69	0.3 (0.7) 1
127	10-80% of Base Peak	51.4
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	6.6
275	10-60% of Base Peak	27.9
365	Greater than 1% of mass 198	5.5
441	present but less than 24% of mass 442	12.8 (18.0) 2
442	Greater than 50% of mass 198	71.0
443	15-24% of mass 442	13.7 (19.3) 2

1-Value is % mass 69

2-Value is % mass 442

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

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED	TIME ANALYZED
	CCVIS 480-550627/3	Z002504.D	09/22/2020	23:06
	MB 480-550117/1-A	Z002505.D	09/22/2020	23:29
	LCS 480-550117/2-A	Z002506.D	09/22/2020	23:51
CC-MW-1 MS	480-175175-1 MS	Z002507.D	09/23/2020	0:14
CC-MW-1 MSD	480-175175-1 MSD	Z002508.D	09/23/2020	0:36
CC-MW-1	480-175175-1	Z002509.D	09/23/2020	0:59
CC-MW-2	480-175175-2	Z002512.D	09/23/2020	2:07
CC-MW-4	480-175175-5	Z002513.D	09/23/2020	2:30

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Sample No.: ICIS 480-549769/5 Date Analyzed: 09/16/2020 14:25
 Instrument ID: HP5973Z GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)
 Lab File ID (Standard): Z002363.D Heated Purge: (Y/N) N
 Calibration ID: 40374

	DCBd4					
	AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT	345712	5.94				
UPPER LIMIT	691424	6.44				
LOWER LIMIT	172856	5.44				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICV 480-549769/9		432464 5.94				
CCVIS 480-550627/3		315642 5.94				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Sample No.: CCVIS 480-550627/3 Date Analyzed: 09/22/2020 23:06
 Instrument ID: HP5973Z GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm)
 Lab File ID (Standard): Z002504.D Heated Purge: (Y/N) N
 Calibration ID: 40374

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		315642	5.94				
UPPER LIMIT		631284	6.44				
LOWER LIMIT		157821	5.44				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-550117/1-A		284217	5.95				
LCS 480-550117/2-A		271916	5.95				
480-175175-1 MS	CC-MW-1 MS	287256	5.95				
480-175175-1 MSD	CC-MW-1 MSD	269230	5.95				
480-175175-1	CC-MW-1	288411	5.94				
480-175175-2	CC-MW-2	288853	5.94				
480-175175-5	CC-MW-4	277178	5.95				

DCBd4 = 1,4-Dichlorobenzene-d4

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

Column used to flag values outside QC limits

FORM VIII 8270D SIM ID

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-1 Lab Sample ID: 480-175175-1
 Matrix: Water Lab File ID: Z002509.D
 Analysis Method: 8270D SIM ID Date Collected: 09/14/2020 14:35
 Extract. Method: 3510C Date Extracted: 09/18/2020 08:21
 Sample wt/vol: 1030 (mL) Date Analyzed: 09/23/2020 00:59
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 550627 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.097

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	28		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002509.D
 Lims ID: 480-175175-B-1-B
 Client ID: CC-MW-1
 Sample Type: Client
 Inject. Date: 23-Sep-2020 00:59:30 ALS Bottle#: 32 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-008
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:37:12 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:37:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.928	2.840	0.088	96	90961	2.75	27.5	
3 1,4-Dioxane	88		2.885				ND		
* 2 1,4-Dichlorobenzene-d4	152	5.943	5.936	0.007	99	288411	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Sep-2020 12:37:55

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002509.D

Injection Date: 23-Sep-2020 00:59:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175175-B-1-B

Lab Sample ID: 480-175175-1

Worklist Smp#: 8

Client ID: CC-MW-1

Injection Vol: 1.0 ul

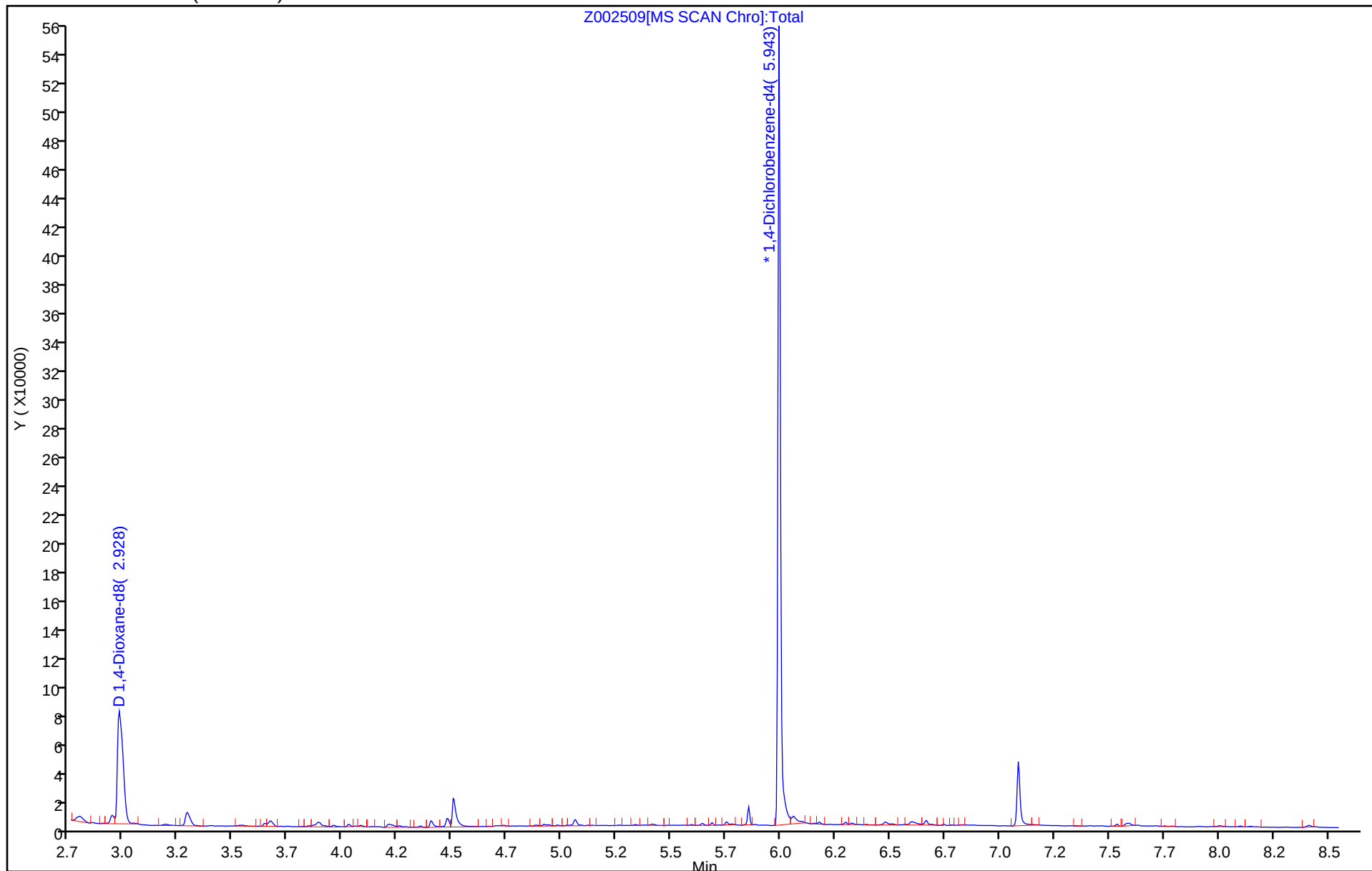
Dil. Factor: 1.0000

ALS Bottle#: 32

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002509.D

Injection Date: 23-Sep-2020 00:59:30

Instrument ID: HP5973Z

Lims ID: 480-175175-B-1-B

Lab Sample ID: 480-175175-1

Client ID: CC-MW-1

Operator ID: PJQ

ALS Bottle#: 32

Worklist Smp#: 8

Injection Vol: 1.0 ul

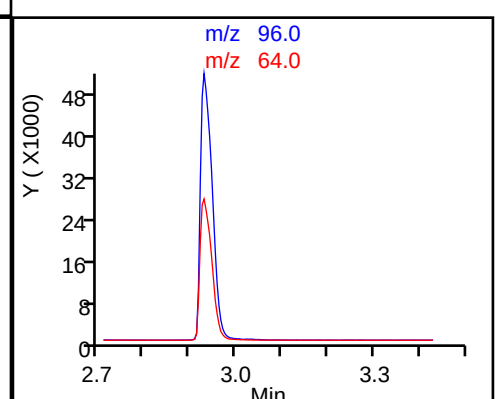
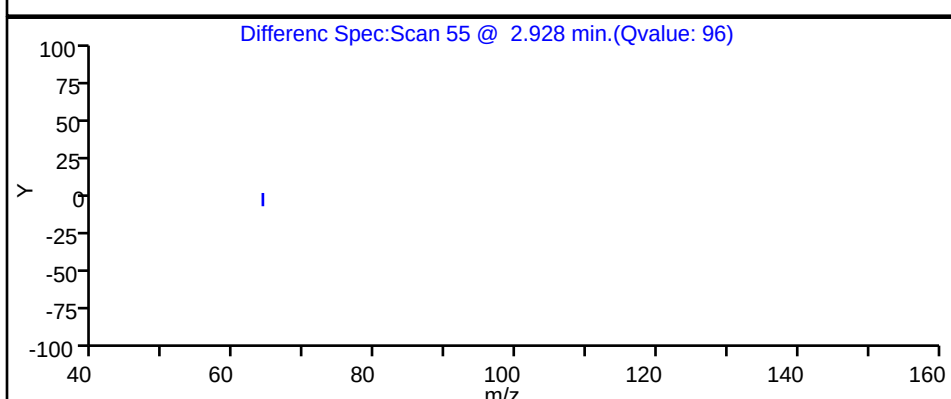
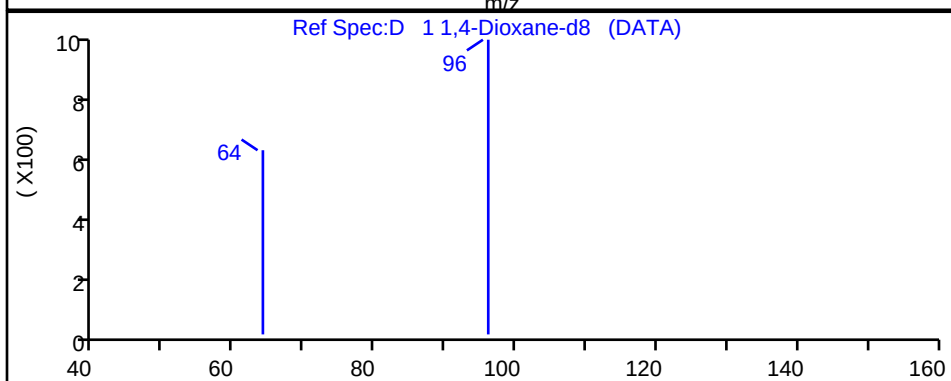
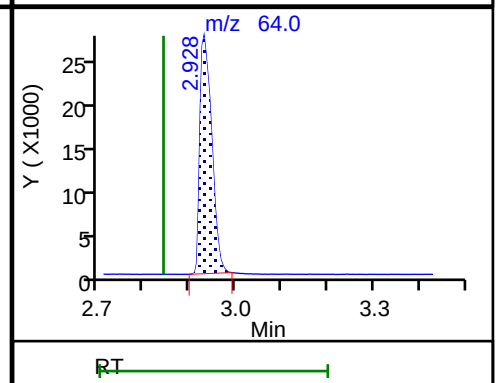
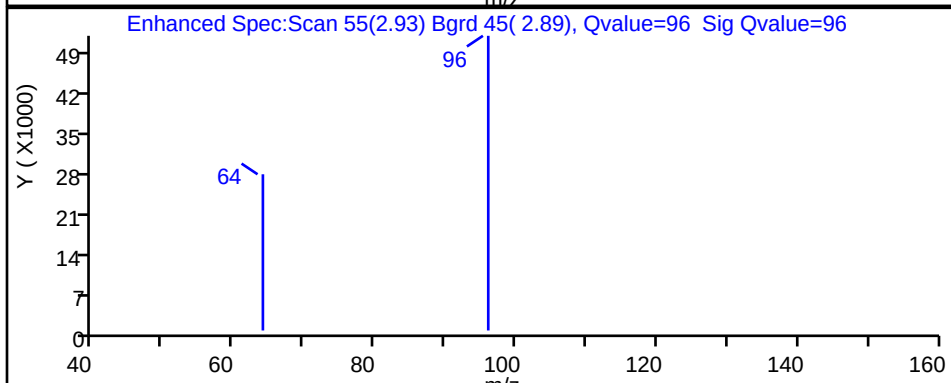
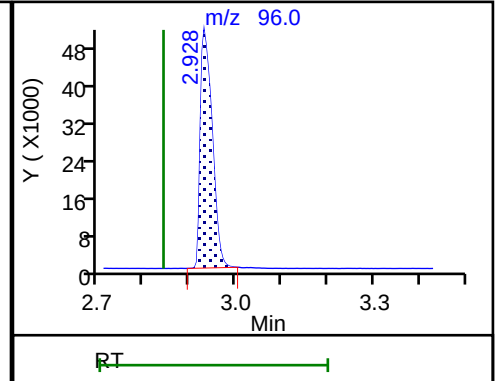
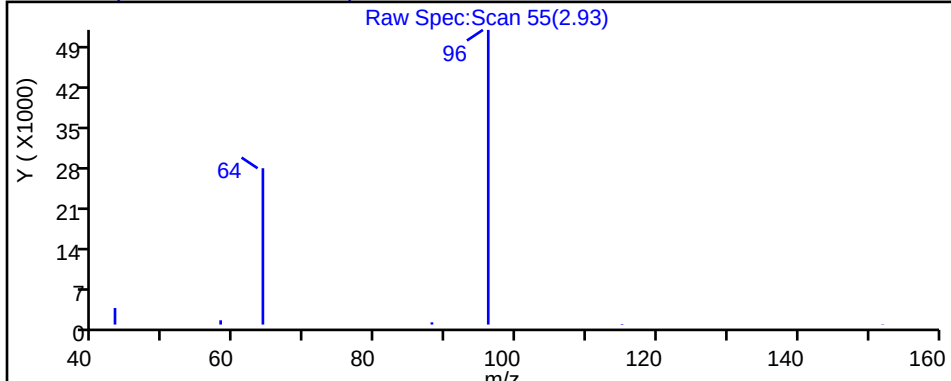
Dil. Factor: 1.0000

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: CC-MW-2 Lab Sample ID: 480-175175-2
Matrix: Water Lab File ID: Z002512.D
Analysis Method: 8270D SIM ID Date Collected: 09/15/2020 12:15
Extract. Method: 3510C Date Extracted: 09/18/2020 08:21
Sample wt/vol: 1050 (mL) Date Analyzed: 09/23/2020 02:07
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 550627 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	26		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002512.D
 Lims ID: 480-175175-A-2-A
 Client ID: CC-MW-2
 Sample Type: Client
 Inject. Date: 23-Sep-2020 02:07:30 ALS Bottle#: 35 Worklist Smp#: 11
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-011
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:37:12 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:38:55

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.918	2.840	0.078	95	85396	2.58	25.8	
3 1,4-Dioxane	88		2.885				ND		
* 2 1,4-Dichlorobenzene-d4	152	5.940	5.936	0.004	98	288853	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Sep-2020 12:38:55

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Euofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002512.D

Injection Date: 23-Sep-2020 02:07:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175175-A-2-A

Lab Sample ID: 480-175175-2

Worklist Smp#: 11

Client ID: CC-MW-2

Injection Vol: 1.0 ul

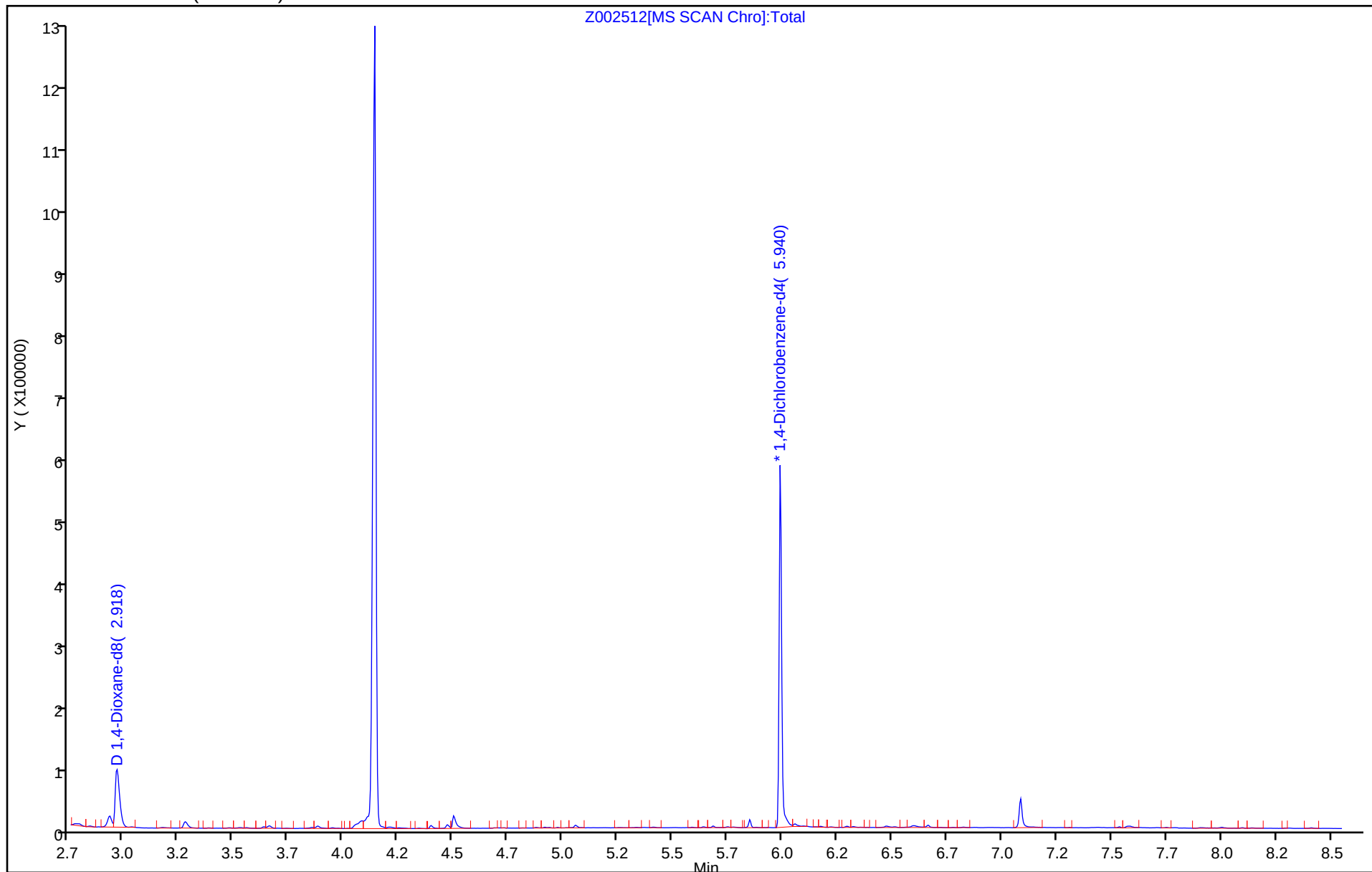
Dil. Factor: 1.0000

ALS Bottle#: 35

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002512.D

Injection Date: 23-Sep-2020 02:07:30

Instrument ID: HP5973Z

Lims ID: 480-175175-A-2-A

Lab Sample ID: 480-175175-2

Client ID: CC-MW-2

Operator ID: PJQ

ALS Bottle#: 35

Worklist Smp#: 11

Injection Vol: 1.0 ul

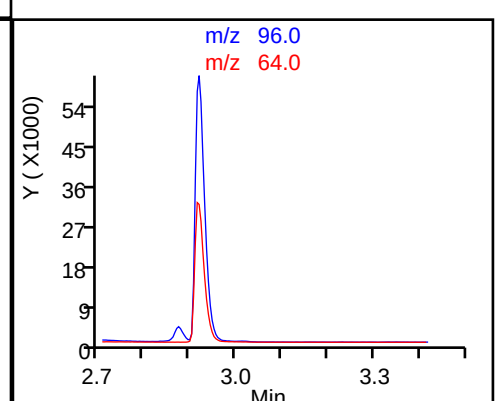
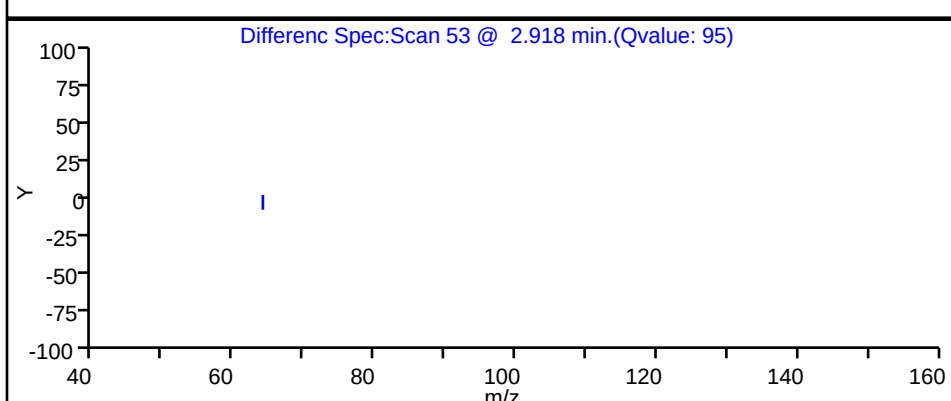
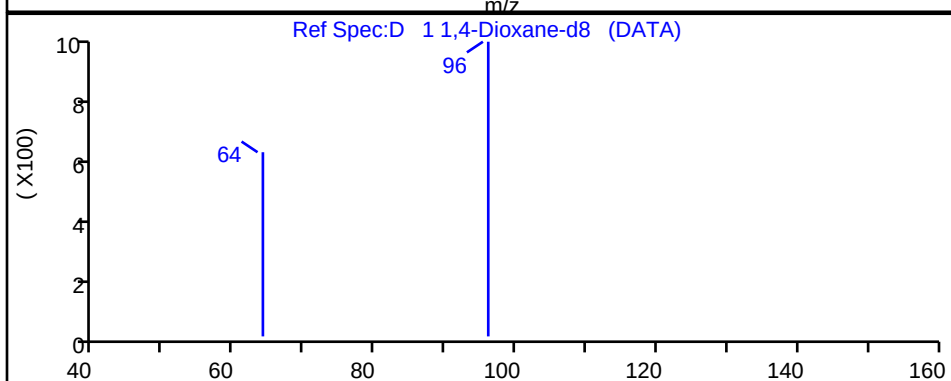
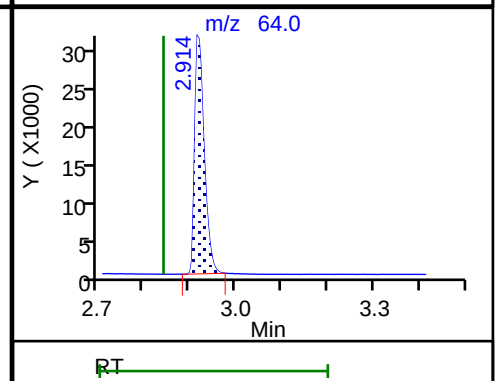
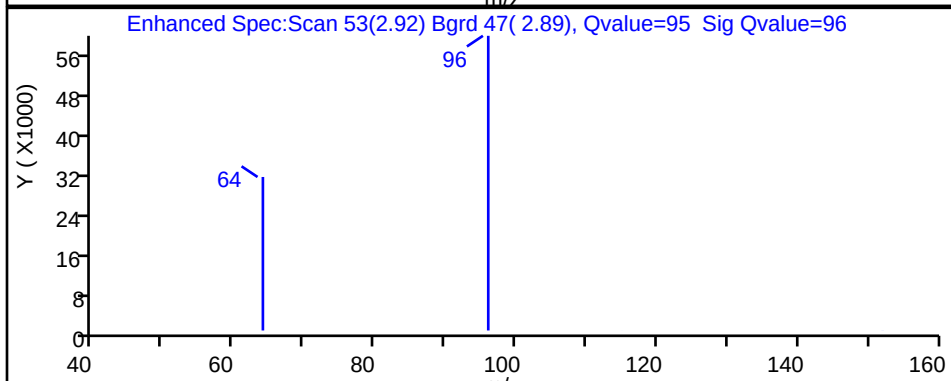
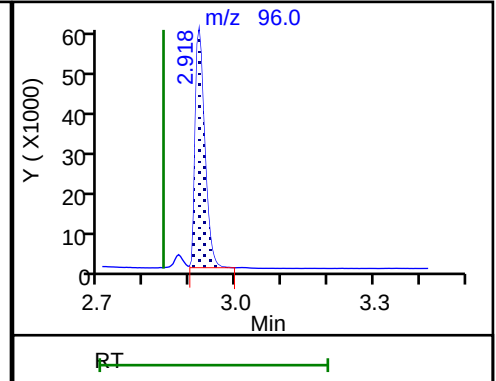
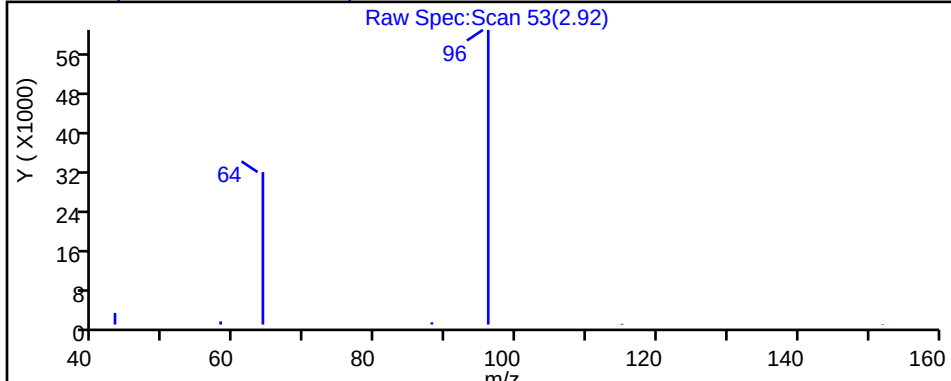
Dil. Factor: 1.0000

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-4 Lab Sample ID: 480-175175-5
 Matrix: Water Lab File ID: Z002513.D
 Analysis Method: 8270D SIM ID Date Collected: 09/15/2020 16:25
 Extract. Method: 3510C Date Extracted: 09/18/2020 08:21
 Sample wt/vol: 1050 (mL) Date Analyzed: 09/23/2020 02:30
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 550627 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	30		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002513.D
 Lims ID: 480-175175-B-5-A
 Client ID: CC-MW-4
 Sample Type: Client
 Inject. Date: 23-Sep-2020 02:30:30 ALS Bottle#: 36 Worklist Smp#: 12
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-012
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:37:12 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:39:16

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	OnCol Amt ng/ul	%Rec	Flags
D 1 1,4-Dioxane-d8	96	2.926	2.840	0.086	96	95349	3.00	30.0	
3 1,4-Dioxane	88		2.885				ND		
* 2 1,4-Dichlorobenzene-d4	152	5.945	5.936	0.009	100	277178	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Sep-2020 12:39:16

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002513.D

Injection Date: 23-Sep-2020 02:30:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175175-B-5-A

Lab Sample ID: 480-175175-5

Worklist Smp#: 12

Client ID: CC-MW-4

Injection Vol: 1.0 ul

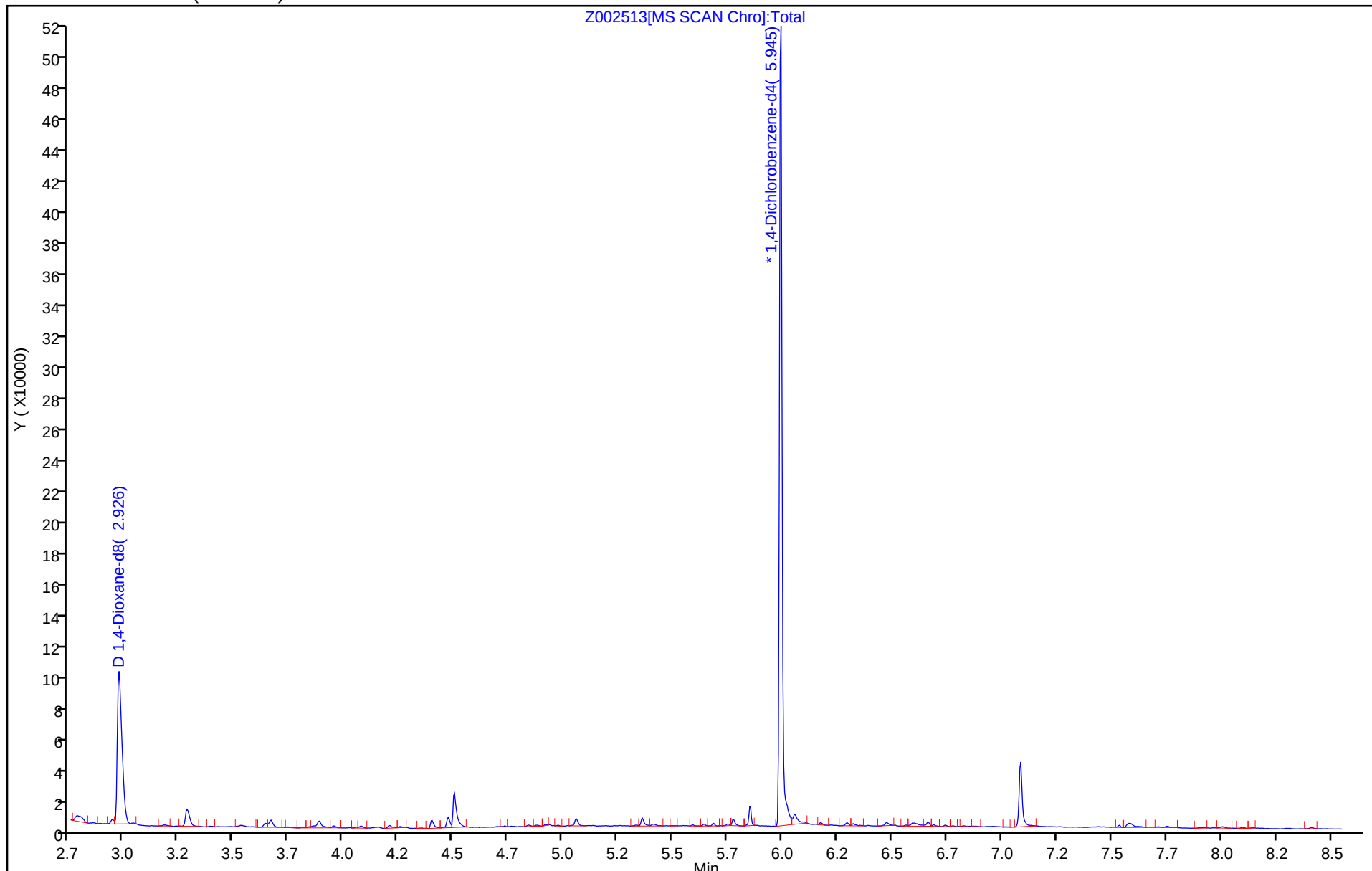
Dil. Factor: 1.0000

ALS Bottle#: 36

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002513.D

Injection Date: 23-Sep-2020 02:30:30

Instrument ID: HP5973Z

Lims ID: 480-175175-B-5-A

Lab Sample ID: 480-175175-5

Client ID: CC-MW-4

Operator ID: PJQ

ALS Bottle#: 36

Worklist Smp#: 12

Injection Vol: 1.0 ul

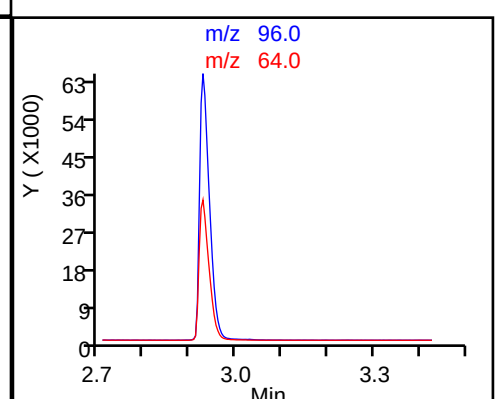
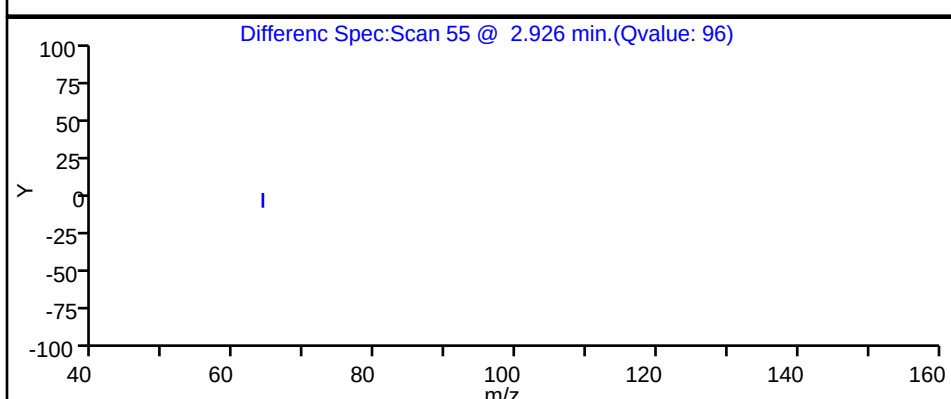
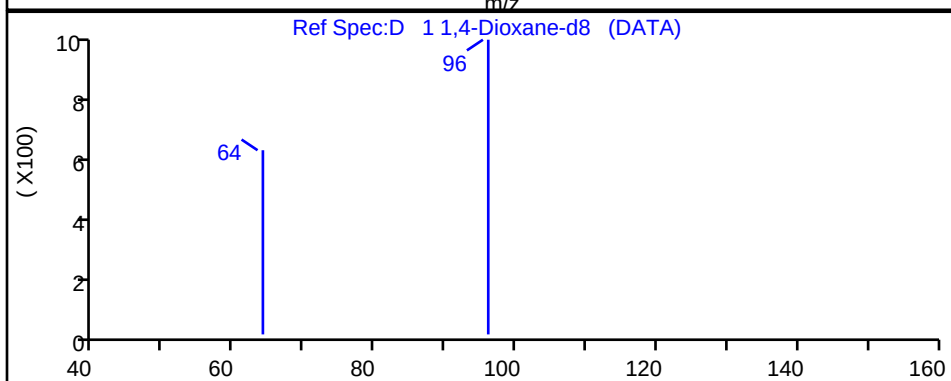
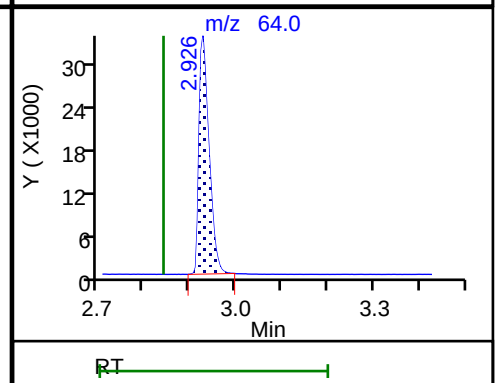
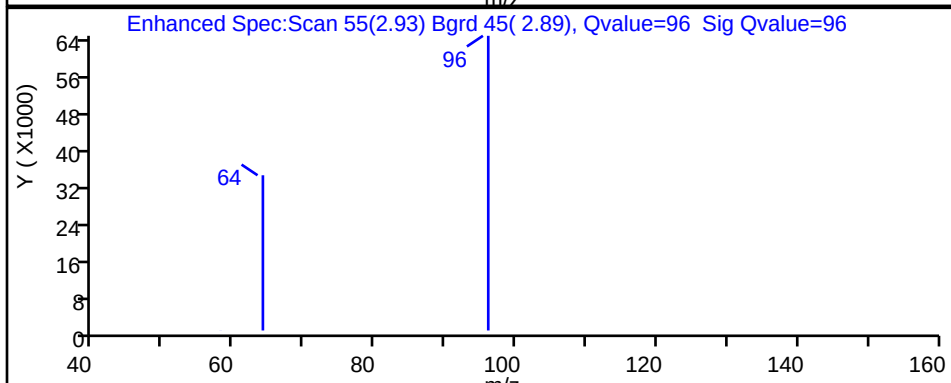
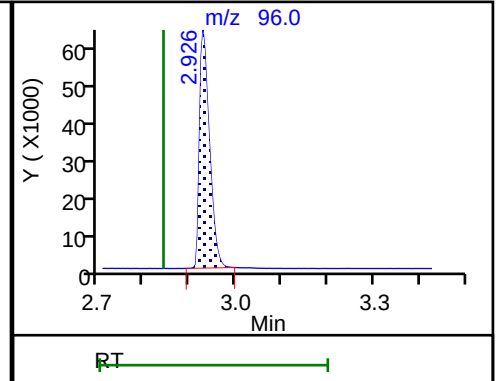
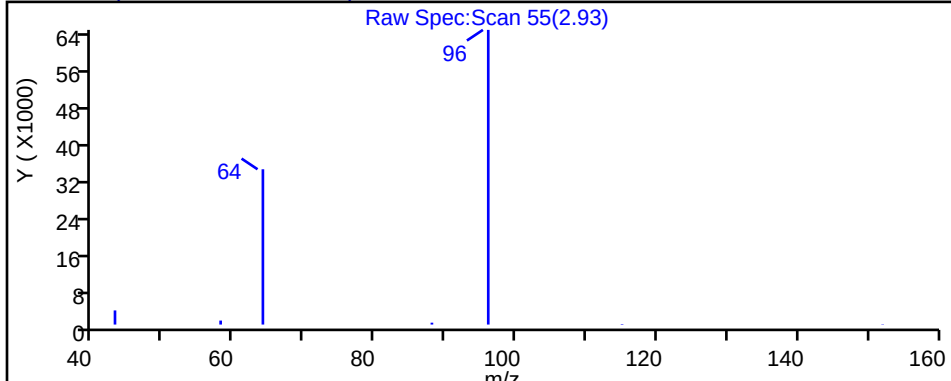
Dil. Factor: 1.0000

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549769

SDG No.: _____

Instrument ID: HP5973Z GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2020 13:40 Calibration End Date: 09/16/2020 15:33 Calibration ID: 40374

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-549769/3	Z002361.D
Level 2	IC 480-549769/4	Z002362.D
Level 3	ICIS 480-549769/5	Z002363.D
Level 4	IC 480-549769/6	Z002364.D
Level 5	IC 480-549769/7	Z002365.D
Level 6	IC 480-549769/8	Z002366.D

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
1,4-Dioxane	0.9491 0.9677	0.9907	0.9767	0.9716	0.9702	AveID		0.9710			0.0100	1.4		20.0			
1,4-Dioxane-d8	0.4451 0.4949	0.4360	0.4726	0.4122	0.4881	Ave		0.4581			0.0100	7.1		20.0			

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

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1 Analy Batch No.: 549769

SDG No.: _____

Instrument ID: HP5973Z GC Column: RXI-5Sil MS ID: 0.25 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/16/2020 13:40 Calibration End Date: 09/16/2020 15:33 Calibration ID: 40374

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 480-549769/3	Z002361.D
Level 2	IC 480-549769/4	Z002362.D
Level 3	ICIS 480-549769/5	Z002363.D
Level 4	IC 480-549769/6	Z002364.D
Level 5	IC 480-549769/7	Z002365.D
Level 6	IC 480-549769/8	Z002366.D

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/UL)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
1,4-Dioxane		AveID	8146 56152	16660	23935	31741	46827	0.200 1.20	0.400	0.600	0.800	1.00
1,4-Dioxane-d8	DCBd 4	Ave	85831 580272	168160	245058	326686	482654	2.00 12.0	4.00	6.00	8.00	10.0

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002361.D
 Lims ID: IC SIM 0.2
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 16-Sep-2020 13:40:30 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093471-003
 Operator ID: PJQ Instrument ID: HP5973Z
 Sublist: chrom-1.4_Dx_SIM_HP5973Za*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-Sep-2020 12:50:13 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1029

First Level Reviewer: quirkp

Date: 16-Sep-2020 16:35:53

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.831	2.849	-0.018	93	85831	2.00	1.94	
3 1,4-Dioxane	88	2.872	2.890	-0.018	92	8146	0.2000	0.1955	
* 2 1,4-Dichlorobenzene-d4	152	5.940	5.941	-0.001	99	385688	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00098

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Sep-2020 12:50:13

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002361.D

Injection Date: 16-Sep-2020 13:40:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: IC SIM 0.2

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

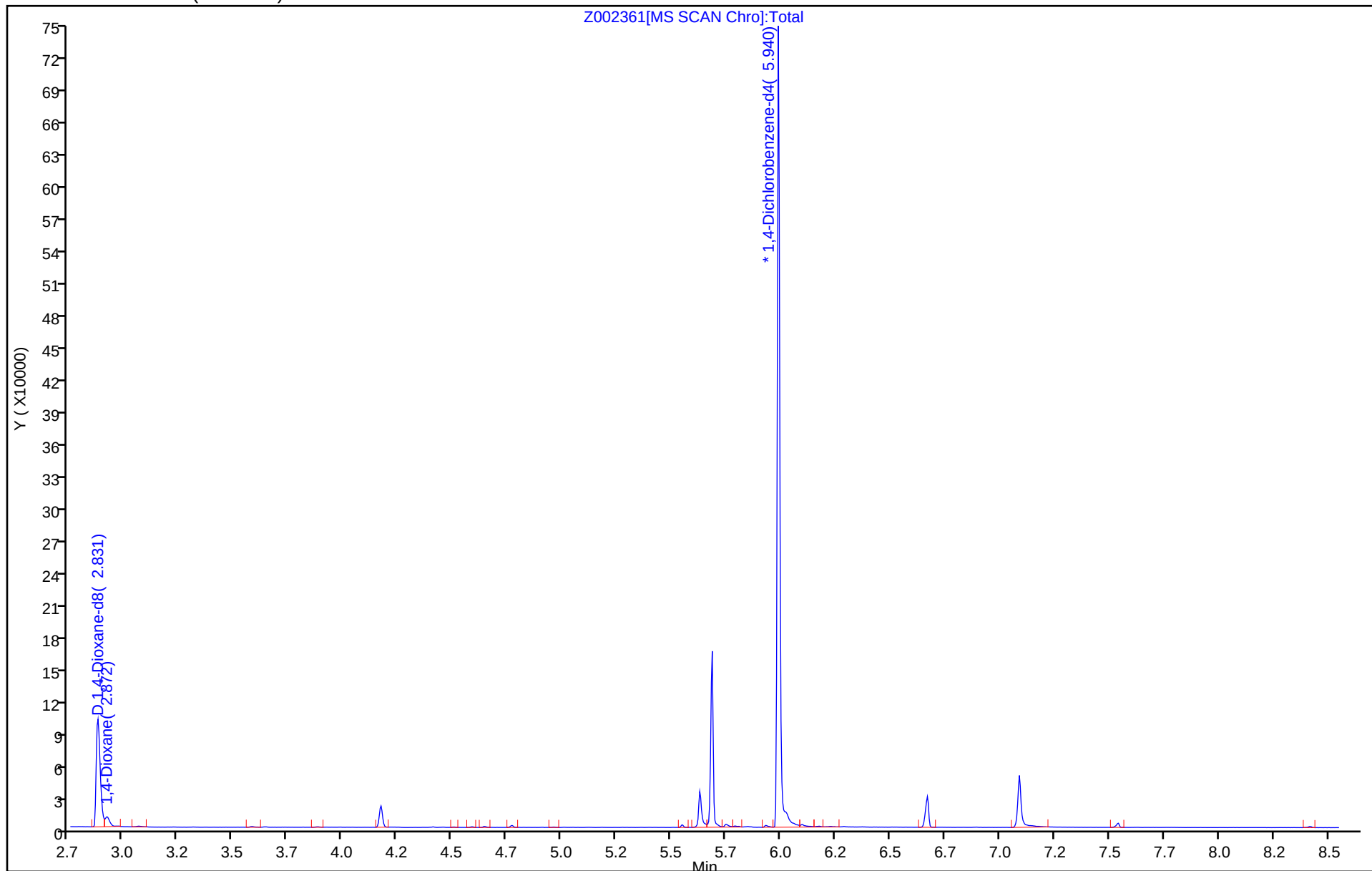
Dil. Factor: 1.0000

ALS Bottle#: 3

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002362.D
 Lims ID: IC SIM 0.4
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 16-Sep-2020 14:03:30 ALS Bottle#: 4 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093471-004
 Operator ID: PJQ Instrument ID: HP5973Z
 Sublist: chrom-1.4_Dx_SIM_HP5973Za*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-Sep-2020 12:50:13 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1029

First Level Reviewer: quirkp

Date: 16-Sep-2020 16:36:00

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.848	2.849	-0.001	93	168160	4.00	3.81	
3 1,4-Dioxane	88	2.889	2.890	-0.001	92	16660	0.4000	0.4081	
* 2 1,4-Dichlorobenzene-d4	152	5.940	5.941	-0.001	99	385694	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00099

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Sep-2020 12:50:13

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002362.D

Injection Date: 16-Sep-2020 14:03:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: IC SIM 0.4

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

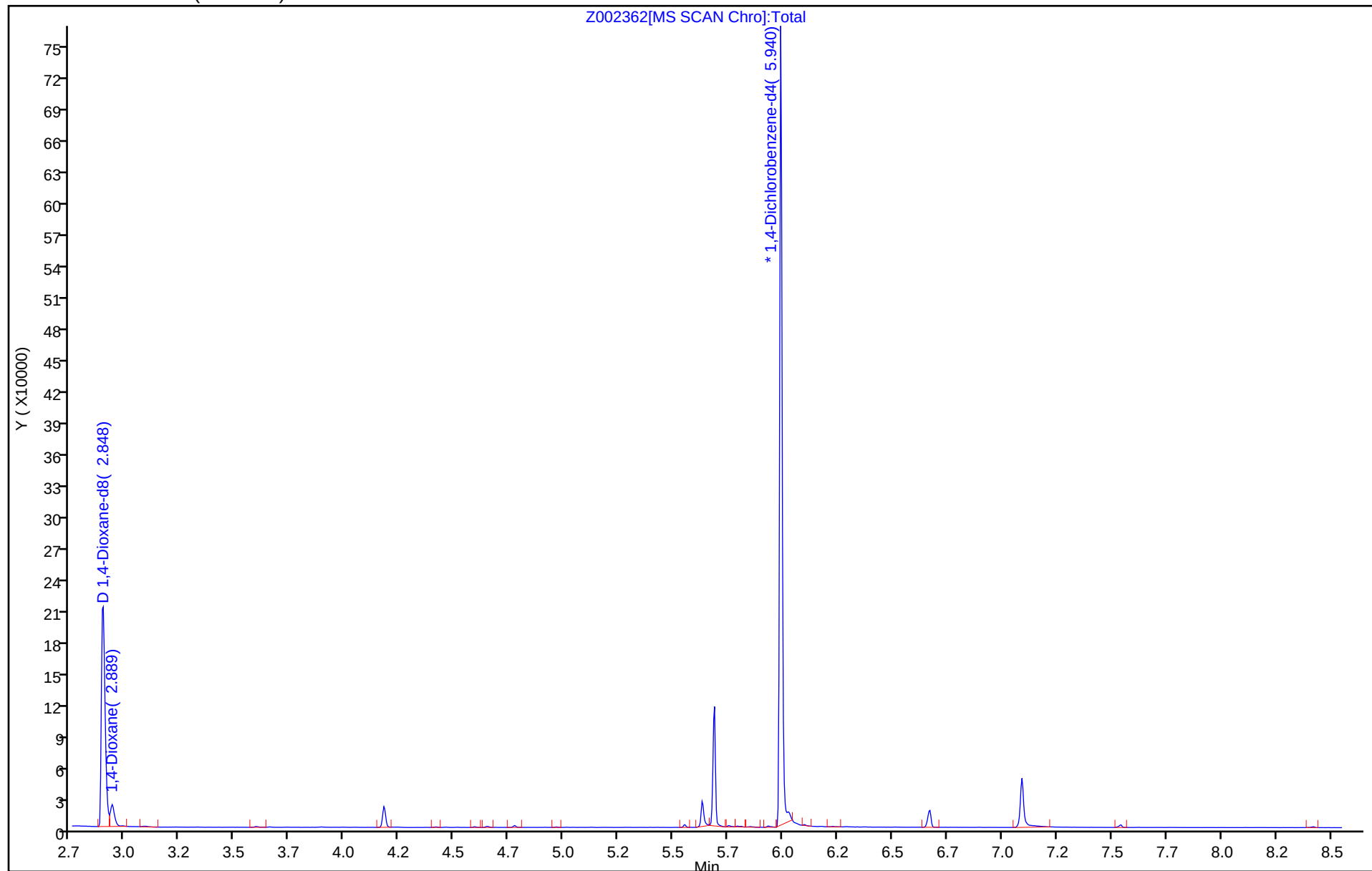
Dil. Factor: 1.0000

ALS Bottle#: 4

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002363.D
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 3
 Inject. Date: 16-Sep-2020 14:25:30 ALS Bottle#: 5 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093471-005
 Operator ID: PJQ Instrument ID: HP5973Z
 Sublist: chrom-1.4_Dx_SIM_HP5973Za*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-Sep-2020 12:50:14 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1029

First Level Reviewer: schickr

Date: 17-Sep-2020 12:49:54

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.849	2.849	0.000	94	245058	6.00	6.19	
3 1,4-Dioxane	88	2.890	2.890	0.000	93	23935	0.6000	0.6035	
* 2 1,4-Dichlorobenzene-d4	152	5.941	5.941	0.000	100	345712	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00103

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Sep-2020 12:50:14

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002363.D

Injection Date: 16-Sep-2020 14:25:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: ICIS

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

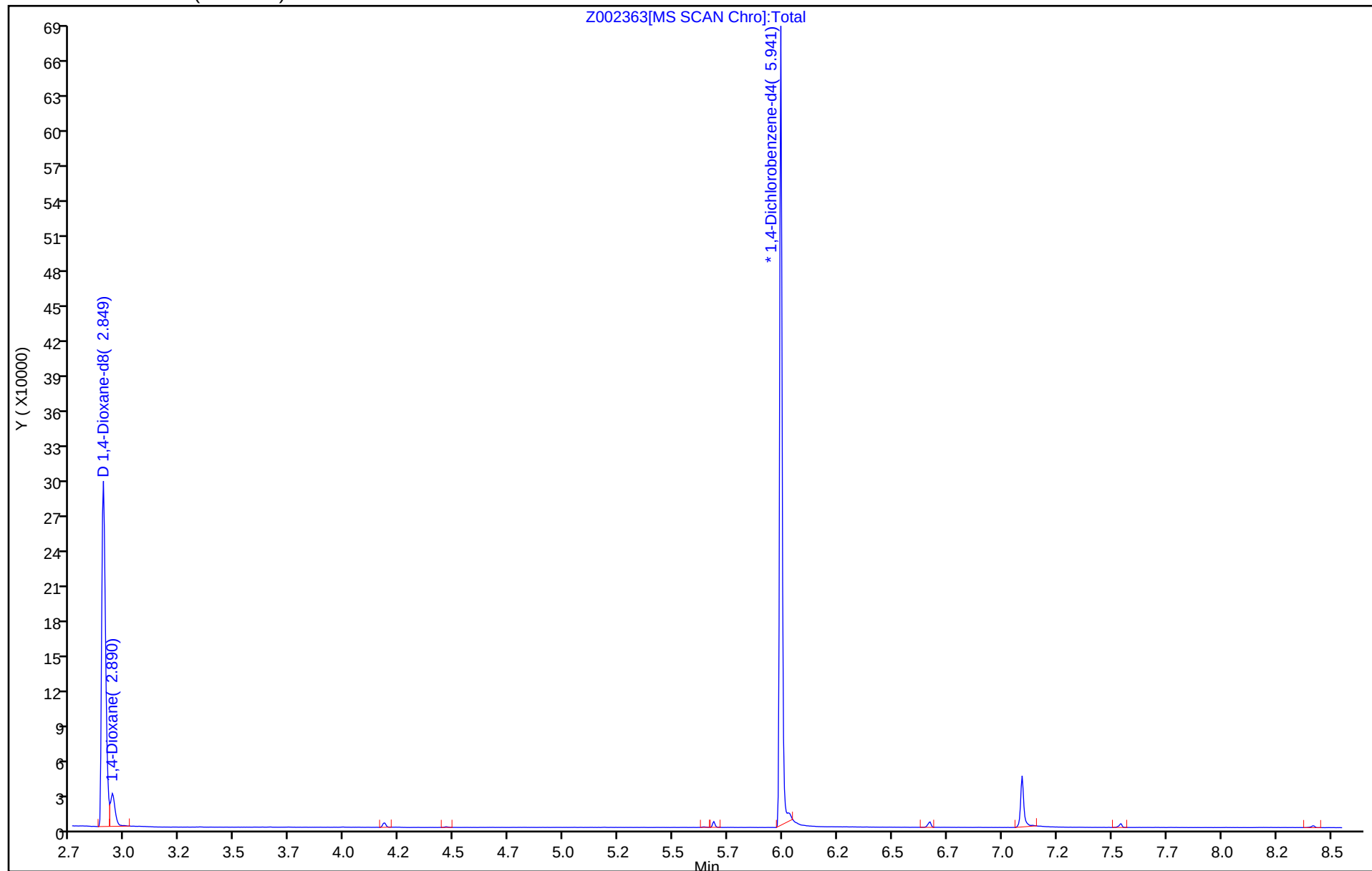
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002364.D
 Lims ID: IC SIM 0.8
 Client ID:
 Sample Type: IC Calib Level: 4
 Inject. Date: 16-Sep-2020 14:48:30 ALS Bottle#: 6 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093471-006
 Operator ID: PJQ Instrument ID: HP5973Z
 Sublist: chrom-1.4_Dx_SIM_HP5973Za*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-Sep-2020 12:50:14 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1029

First Level Reviewer: quirkp

Date: 16-Sep-2020 16:36:08

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.847	2.849	-0.002	94	326686	8.00	7.20	
3 1,4-Dioxane	88	2.888	2.890	-0.002	93	31741	0.8000	0.8005	
* 2 1,4-Dichlorobenzene-d4	152	5.939	5.941	-0.002	98	396234	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00100

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Sep-2020 12:50:14

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002364.D

Injection Date: 16-Sep-2020 14:48:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: IC SIM 0.8

Worklist Smp#: 6

Client ID:

Injection Vol: 1.0 ul

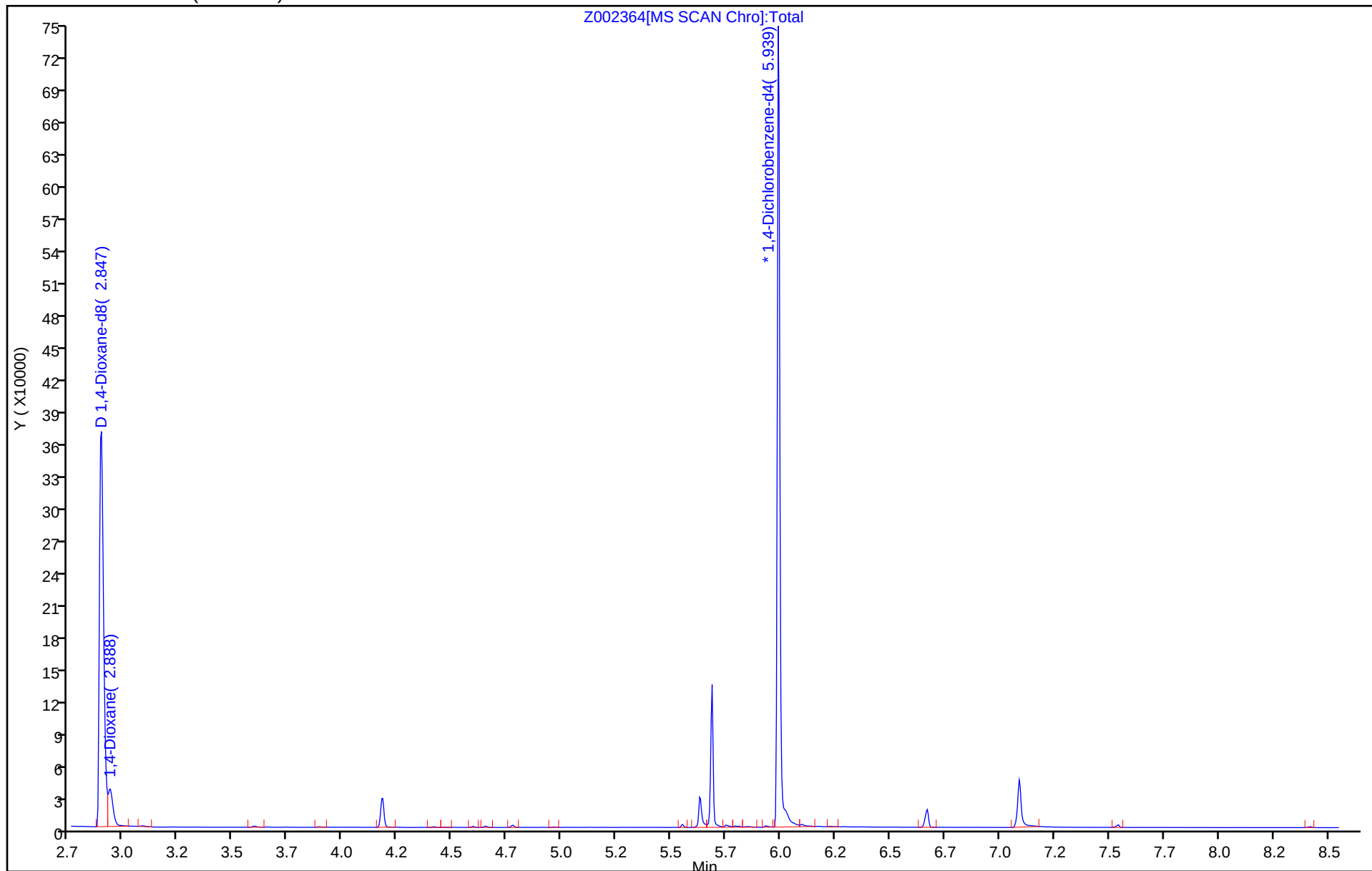
Dil. Factor: 1.0000

ALS Bottle#: 6

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002365.D
 Lims ID: IC SIM 1.0
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 16-Sep-2020 15:11:30 ALS Bottle#: 7 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093471-007
 Operator ID: PJQ Instrument ID: HP5973Z
 Sublist: chrom-1.4_Dx_SIM_HP5973Za*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-Sep-2020 12:50:15 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1029

First Level Reviewer: quirkp

Date: 16-Sep-2020 16:36:15

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.847	2.849	-0.002	94	482654	10.0	10.7	
3 1,4-Dioxane	88	2.888	2.890	-0.002	92	46827	1.00	1.00	
* 2 1,4-Dichlorobenzene-d4	152	5.943	5.941	0.002	100	395521	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00101

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Sep-2020 12:50:15

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002365.D

Injection Date: 16-Sep-2020 15:11:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: IC SIM 1.0

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

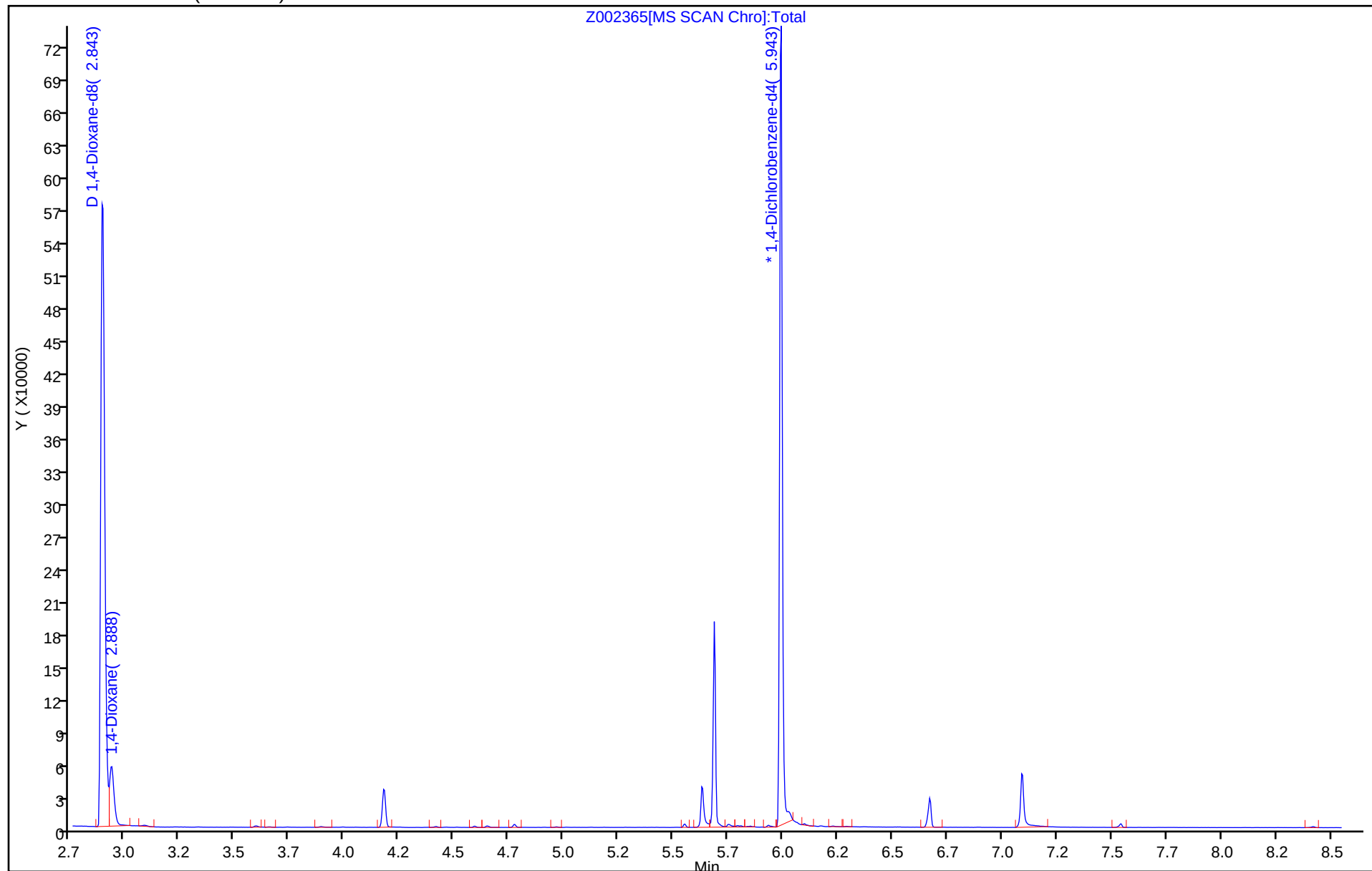
Dil. Factor: 1.0000

ALS Bottle#: 7

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Lims ID: IC SIM 1.2
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 16-Sep-2020 15:33:30 ALS Bottle#: 8 Worklist Smp#: 8
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093471-008
 Operator ID: PJQ Instrument ID: HP5973Z
 Sublist: chrom-1.4_Dx_SIM_HP5973Za*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-Sep-2020 12:50:15 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1029

First Level Reviewer: quirkp

Date: 16-Sep-2020 16:36:31

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.845	2.849	-0.004	95	580272	12.0	13.0	
3 1,4-Dioxane	88	2.886	2.890	-0.004	92	56152	1.20	1.20	
* 2 1,4-Dichlorobenzene-d4	152	5.941	5.941	0.000	100	390870	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00102

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Sep-2020 12:50:15

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D

Injection Date: 16-Sep-2020 15:33:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: IC SIM 1.2

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

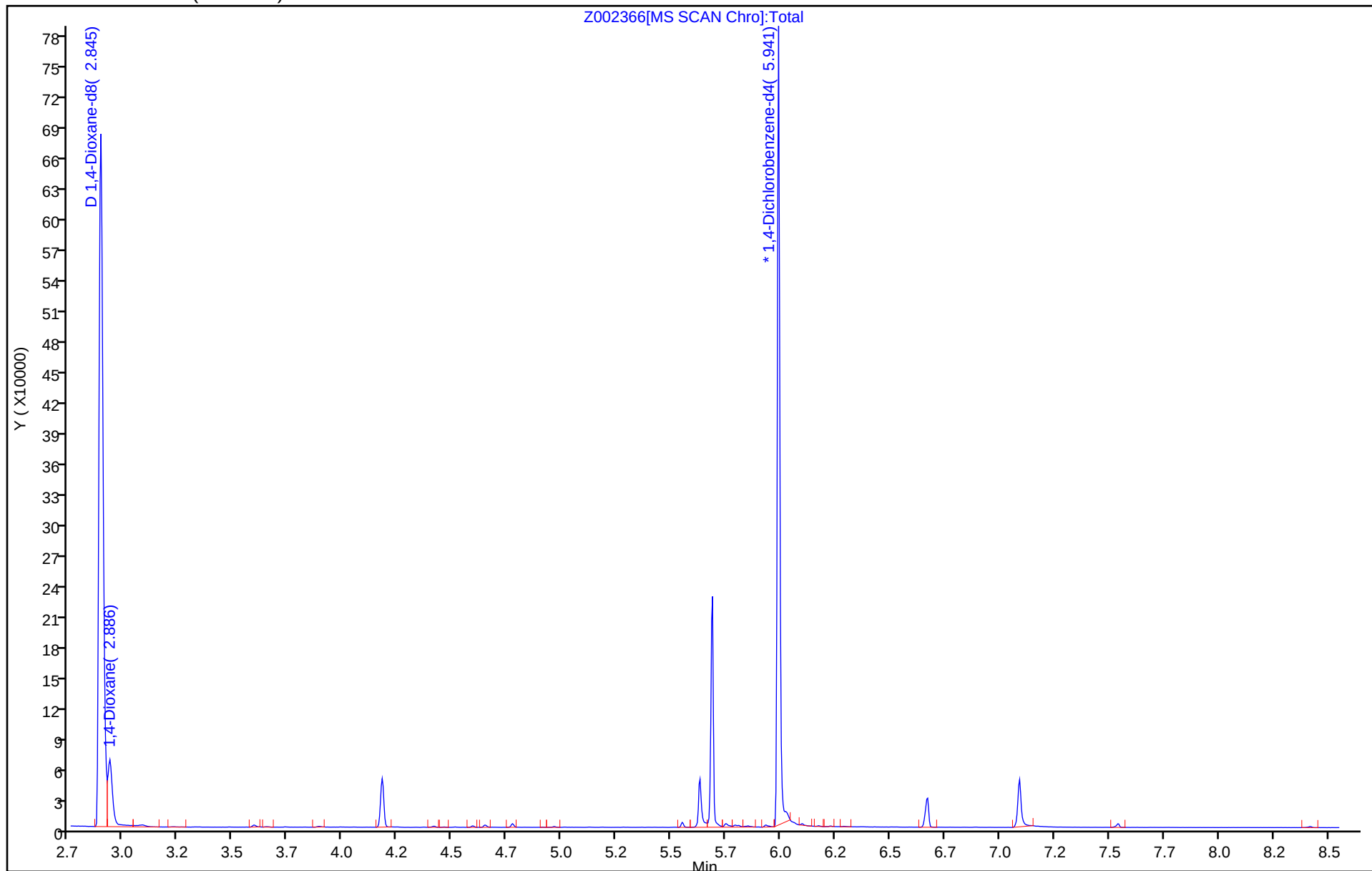
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Lab Sample ID: ICV 480-549769/9 Calibration Date: 09/16/2020 15:56
Instrument ID: HP5973Z Calib Start Date: 09/16/2020 13:40
GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 09/16/2020 15:33
Lab File ID: Z002367.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	0.9710	0.9582	0.0100	592	600	-1.3	20.0
1,4-Dioxane-d8	Ave	0.4581	0.4709	0.0100	6170	6000	2.8	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002367.D
 Lims ID: ICV SIM
 Client ID:
 Sample Type: ICV
 Inject. Date: 16-Sep-2020 15:56:30 ALS Bottle#: 9 Worklist Smp#: 9
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093471-009
 Operator ID: PJQ Instrument ID: HP5973Z
 Sublist:
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-Sep-2020 12:50:15 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1029

First Level Reviewer: quirkp

Date: 16-Sep-2020 16:37:19

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.845	2.849	-0.004	94	305498	6.00	6.17	
3 1,4-Dioxane	88	2.886	2.890	-0.004	92	29274	0.6000	0.5921	
* 2 1,4-Dichlorobenzene-d4	152	5.941	5.941	0.000	100	432464	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_SIMSS_WRK_00015

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 17-Sep-2020 12:50:16

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002367.D

Injection Date: 16-Sep-2020 15:56:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: ICV SIM

Worklist Smp#: 9

Client ID:

Injection Vol: 1.0 ul

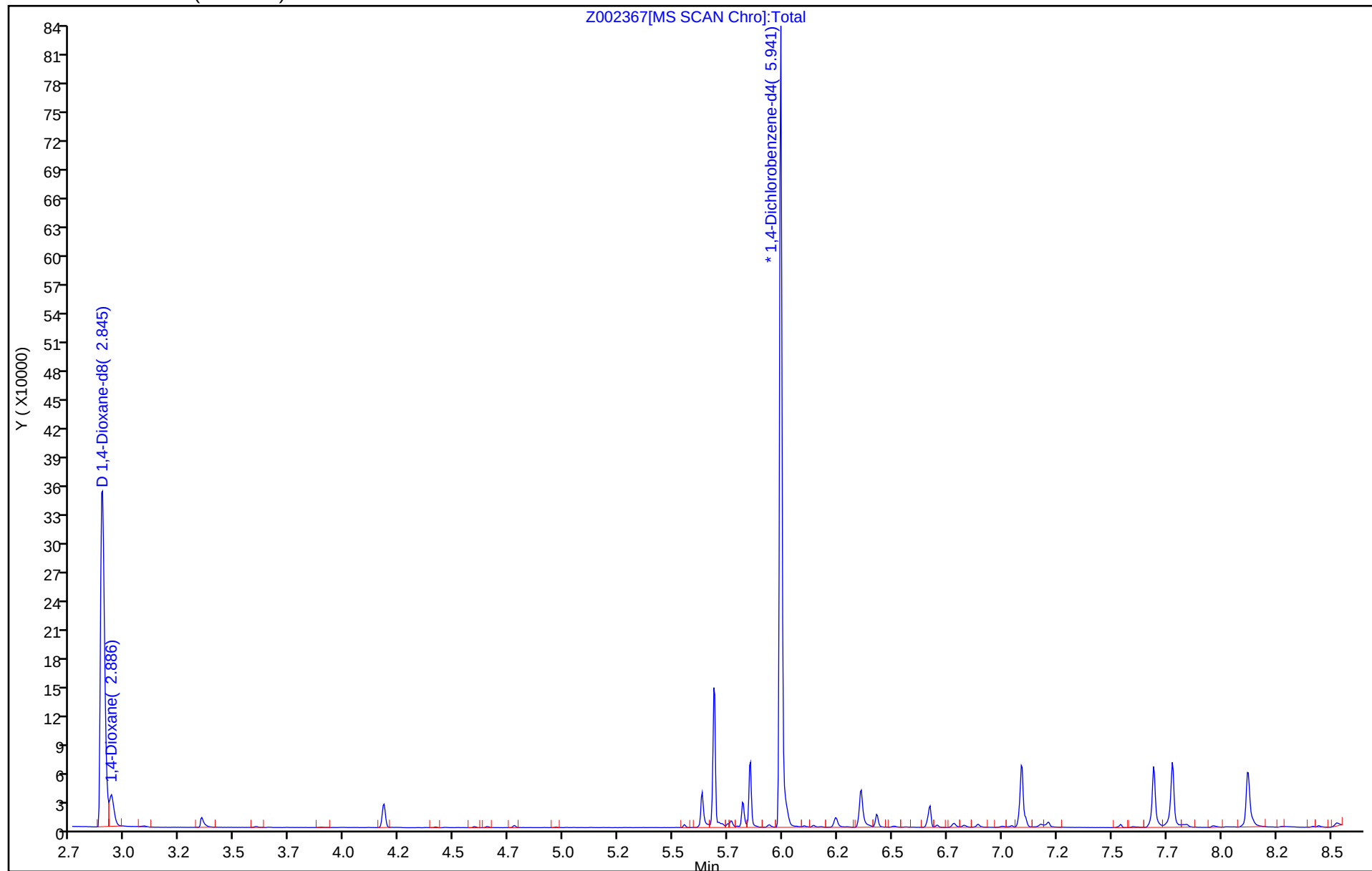
Dil. Factor: 1.0000

ALS Bottle#: 9

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM VII
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Lab Sample ID: CCVIS 480-550627/3 Calibration Date: 09/22/2020 23:06
Instrument ID: HP5973Z Calib Start Date: 09/16/2020 13:40
GC Column: RXI-5Sil MS(0.5 ID: 0.25(mm) Calib End Date: 09/16/2020 15:33
Lab File ID: Z002504.D Conc. Units: ug/L

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
1,4-Dioxane	AveID	0.9710	0.9920	0.0100	613	600	2.2	20.0
1,4-Dioxane-d8	Ave	0.4581	0.4859	0.0100	6360	6000	6.0	20.0

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002504.D
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 22-Sep-2020 23:06:30 ALS Bottle#: 27 Worklist Smp#: 3
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-003
 Operator ID: PJQ Instrument ID: HP5973Z
 Sublist: chrom-1.4_Dx_SIM_HP5973Za*sub1
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:07:29 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:07:29

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.840	2.840	0.000	96	230033	6.00	6.36	
3 1,4-Dioxane	88	2.885	2.885	0.000	94	22819	0.6000	0.6130	
* 2 1,4-Dichlorobenzene-d4	152	5.936	5.936	0.000	97	315642	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_1,4SIM_WRK_00103

Amount Added: 1.00

Units: mL

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Sep-2020 12:07:29

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002504.D

Injection Date: 22-Sep-2020 23:06:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

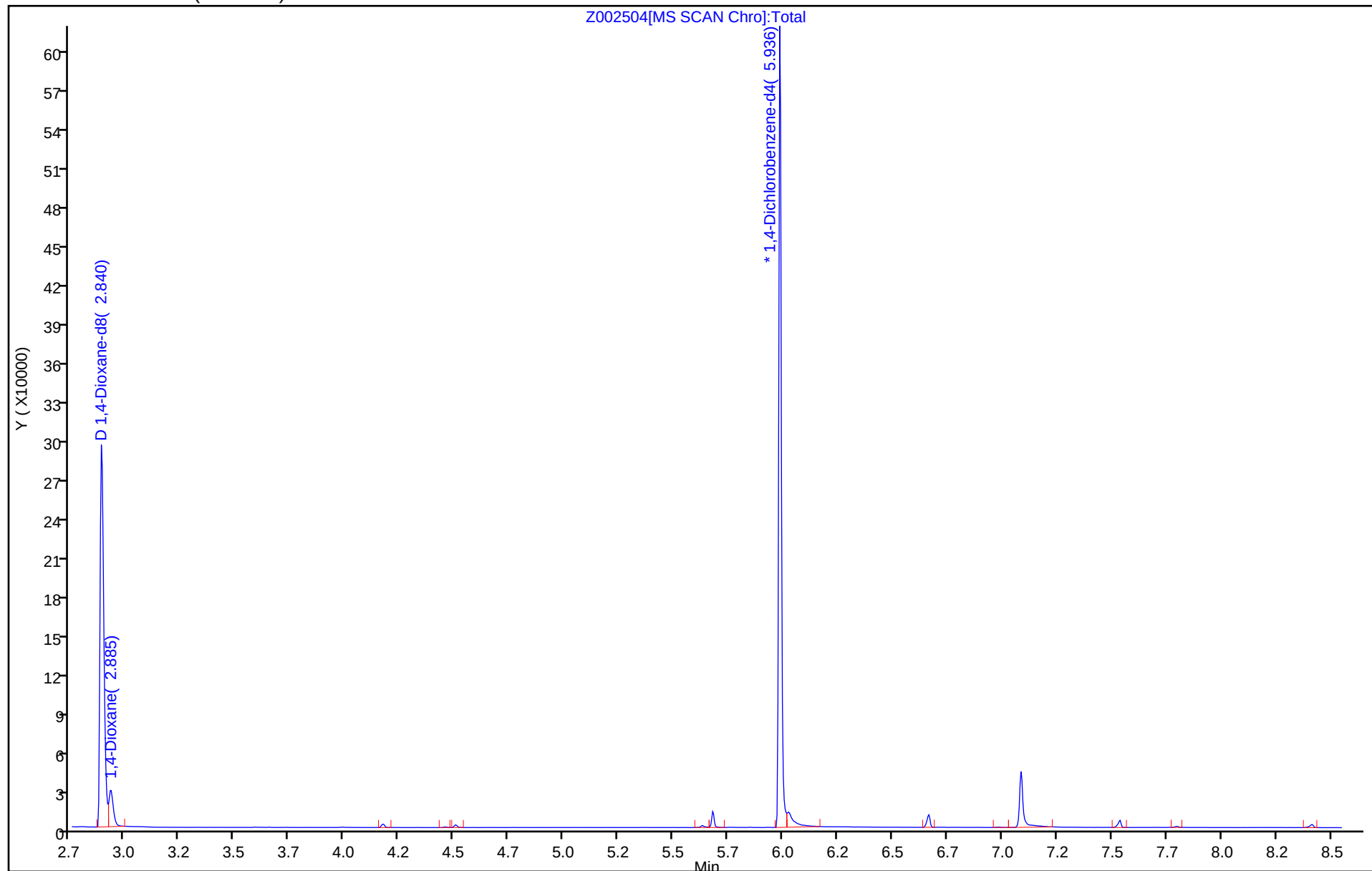
Dil. Factor: 1.0000

ALS Bottle#: 27

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002360.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 16-Sep-2020 13:13:30 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093471-002
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 17-Sep-2020 12:50:12 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: Deconvolution ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1029

First Level Reviewer: quirkp

Date: 16-Sep-2020 13:35:45

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	11.010	11.010	0.000	0	18065			NR
5 4,4'-DDD	235	11.314	11.314	0.000	96	24766			NR
6 4,4'-DDT	235	11.582	11.582	0.000	96	1177247	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00379

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002360.D

Injection Date: 16-Sep-2020 13:13:30

Instrument ID: HP5973Z

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#:

2

Worklist Smp#:

2

Injection Vol: 1.0 ul

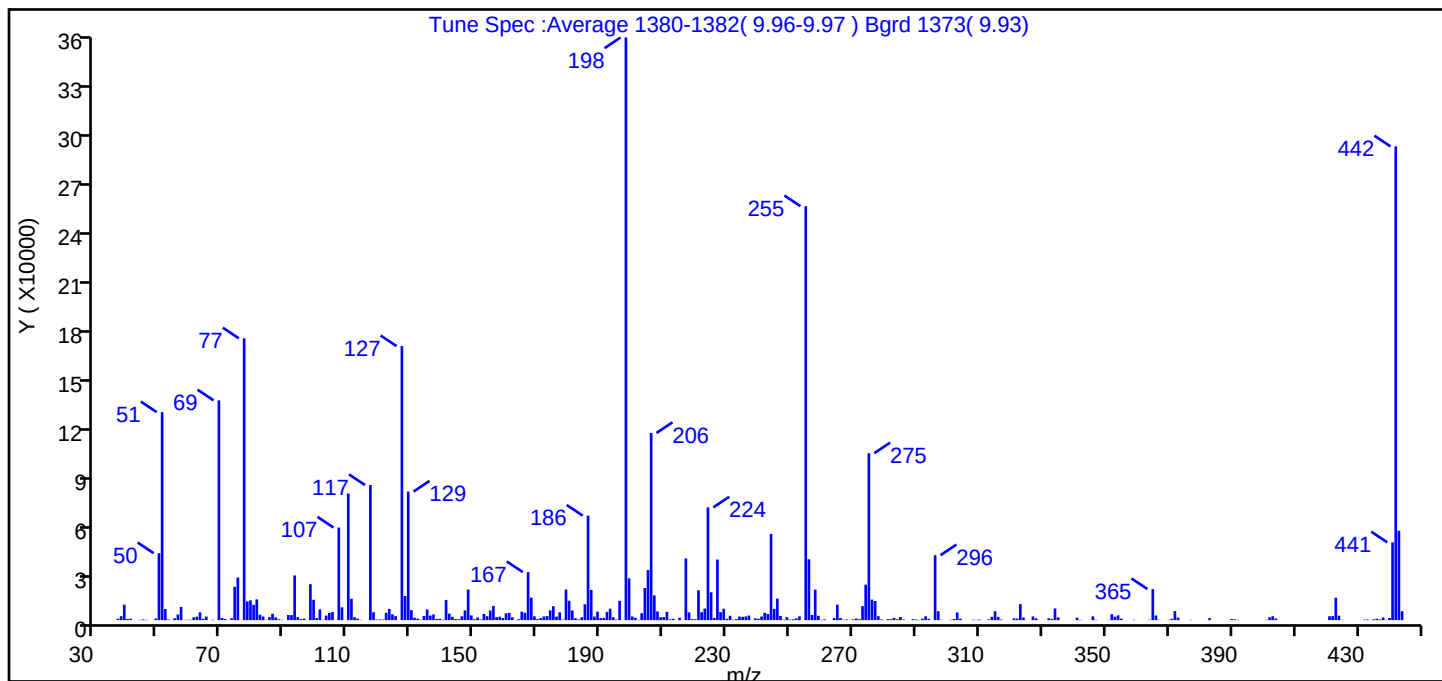
Dil. Factor: 1.0000

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (123.0)
51	10-80% of the base peak	35.7
68	<2% of mass 69	0.0 (0.0)
69	Present	37.7
70	<2% of mass 69	0.4 (0.9)
127	10-80% of the base peak	47.0
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.2
275	10-60% of the base peak	28.6
365	>1% of mass 198	5.3
441	present but <24% of mass 442	13.4 (16.4)
442	base peak, or >50% of 198	81.3
443	15-24% of mass 442	15.3 (18.9)

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002360.D\1.4_Dx_SIM_HP5973Za.rsl\spectr
Injection Date: 16-Sep-2020 13:13:30
Spectrum: Tune Spec :Average 1380-1382(9.96-9.97) Bgrd 1373(9.93)
Base Peak: 198.00
Minimum % Base Peak: 0
Number of Points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	829	128.00	14664	205.00	30456	290.00	406
38.00	2393	129.00	78136	206.00	113760	291.00	169
39.00	9464	130.00	6056	207.00	15014	292.00	897
40.00	708	131.00	1482	208.00	5280	293.00	2322
41.00	878	132.00	901	209.00	1748	294.00	805
44.00	189	133.00	260	210.00	1929	296.00	39448
45.00	432	134.00	2524	211.00	5062	297.00	5438
46.00	203	135.00	6486	212.00	518	298.00	186
49.00	982	136.00	2768	213.00	801	301.00	241
50.00	40680	137.00	3442	215.00	1534	302.00	691
51.00	126384	138.00	702	217.00	37488	303.00	4642
52.00	6737	139.00	795	218.00	4714	304.00	909
53.00	413	140.00	253	219.00	623	308.00	296
55.00	1156	141.00	12239	220.00	563	309.00	167
56.00	3405	142.00	3968	221.00	18168	310.00	390
57.00	8039	143.00	2001	222.00	4845	313.00	460
58.00	189	144.00	687	223.00	7019	314.00	2025
59.00	193	145.00	578	224.00	68520	315.00	5391
60.00	248	146.00	2363	225.00	16912	316.00	1994
61.00	1673	147.00	5890	226.00	1370	317.00	355
62.00	2080	148.00	18592	227.00	36840	321.00	1126
63.00	4732	149.00	2893	228.00	4896	322.00	970
64.00	807	150.00	592	229.00	6915	323.00	9742
65.00	2145	151.00	1590	230.00	835	324.00	1521
67.00	205	152.00	372	231.00	2663	327.00	2244
69.00	133568	153.00	3800	232.00	234	328.00	1119
70.00	1267	154.00	2386	233.00	644	332.00	1134
71.00	754	155.00	5904	234.00	2125	333.00	773
73.00	1113	156.00	8646	235.00	2047	334.00	7064
74.00	20256	157.00	1845	236.00	2255	335.00	1673
75.00	25888	158.00	2075	237.00	2750	341.00	1500
77.00	171264	159.00	1303	239.00	1108	342.00	209
78.00	11386	160.00	4131	240.00	875	346.00	2296

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002360.D\1.4_Dx_SIM_HP5973Za.rslt\spectr

Injection Date: 16-Sep-2020 13:13:30

Spectrum: Tune Spec :Average 1380-1382(9.96-9.97) Bgrd 1373(9.93)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
79.00	12036	161.00	4429	241.00	2200	347.00	214
80.00	9293	162.00	1749	242.00	4456	351.00	197
81.00	12611	164.00	581	243.00	3685	352.00	3593
82.00	3323	165.00	5124	244.00	52384	353.00	2154
83.00	2195	166.00	4493	245.00	6857	354.00	2898
84.00	180	167.00	29192	246.00	13093	355.00	892
85.00	1843	168.00	13680	247.00	2563	359.00	266
86.00	3860	169.00	2317	248.00	303	364.00	263
87.00	1697	170.00	632	249.00	1874	365.00	18872
88.00	514	171.00	1247	250.00	370	366.00	2815
89.00	198	172.00	2249	251.00	541	367.00	222
91.00	3145	173.00	2452	252.00	1089	370.00	172
92.00	3055	174.00	5962	253.00	2296	371.00	797
93.00	27152	175.00	8465	255.00	251584	372.00	5521
94.00	1864	176.00	2145	256.00	37000	373.00	1524
95.00	599	177.00	4709	257.00	3156	377.00	199
96.00	904	178.00	286	258.00	18560	383.00	1209
98.00	21840	179.00	18608	259.00	2614	390.00	676
99.00	12347	180.00	11772	260.00	185	391.00	526
100.00	1277	181.00	5881	261.00	478	392.00	234
101.00	6561	182.00	1204	264.00	1376	401.00	185
102.00	201	183.00	451	265.00	9448	402.00	1738
103.00	2805	184.00	1764	266.00	1302	403.00	2354
104.00	4393	185.00	9661	267.00	203	404.00	943
105.00	4923	186.00	63504	268.00	414	421.00	2359
107.00	56280	187.00	18400	270.00	483	422.00	2446
108.00	7788	188.00	2193	271.00	977	423.00	13613
110.00	76936	189.00	5143	272.00	536	424.00	2713
111.00	12983	190.00	1181	273.00	8512	425.00	170
112.00	1802	191.00	1381	274.00	21552	432.00	299
113.00	913	192.00	5047	275.00	101432	433.00	405
114.00	174	193.00	6974	276.00	12478	435.00	504
117.00	82096	194.00	1741	277.00	11632	436.00	812
118.00	4799	195.00	342	278.00	2362	437.00	433

Report Date: 17-Sep-2020 12:50:12

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002360.D\1.4_Dx_SIM_HP5973Za.rsl\spectr

Injection Date: 16-Sep-2020 13:13:30

Spectrum: Tune Spec :Average 1380-1382(9.96-9.97) Bgrd 1373(9.93)

Base Peak: 198.00

Minimum % Base Peak: 0

Number of Points: 299

m/z	Y	m/z	Y	m/z	Y	m/z	Y
119.00	353	196.00	11743	279.00	390	438.00	1636
120.00	425	198.00	354112	281.00	630	439.00	199
121.00	378	199.00	25384	282.00	606	440.00	1292
122.00	4500	200.00	2242	283.00	1388	441.00	47288
123.00	6816	201.00	1386	284.00	564	442.00	287936
124.00	3559	202.00	194	285.00	1918	443.00	54336
125.00	2440	203.00	4248	286.00	363	444.00	5421
127.00	166528	204.00	19536	289.00	565		

Report Date: 17-Sep-2020 12:50:12

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Euofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002360.D

Injection Date: 16-Sep-2020 13:13:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: DFTPP

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

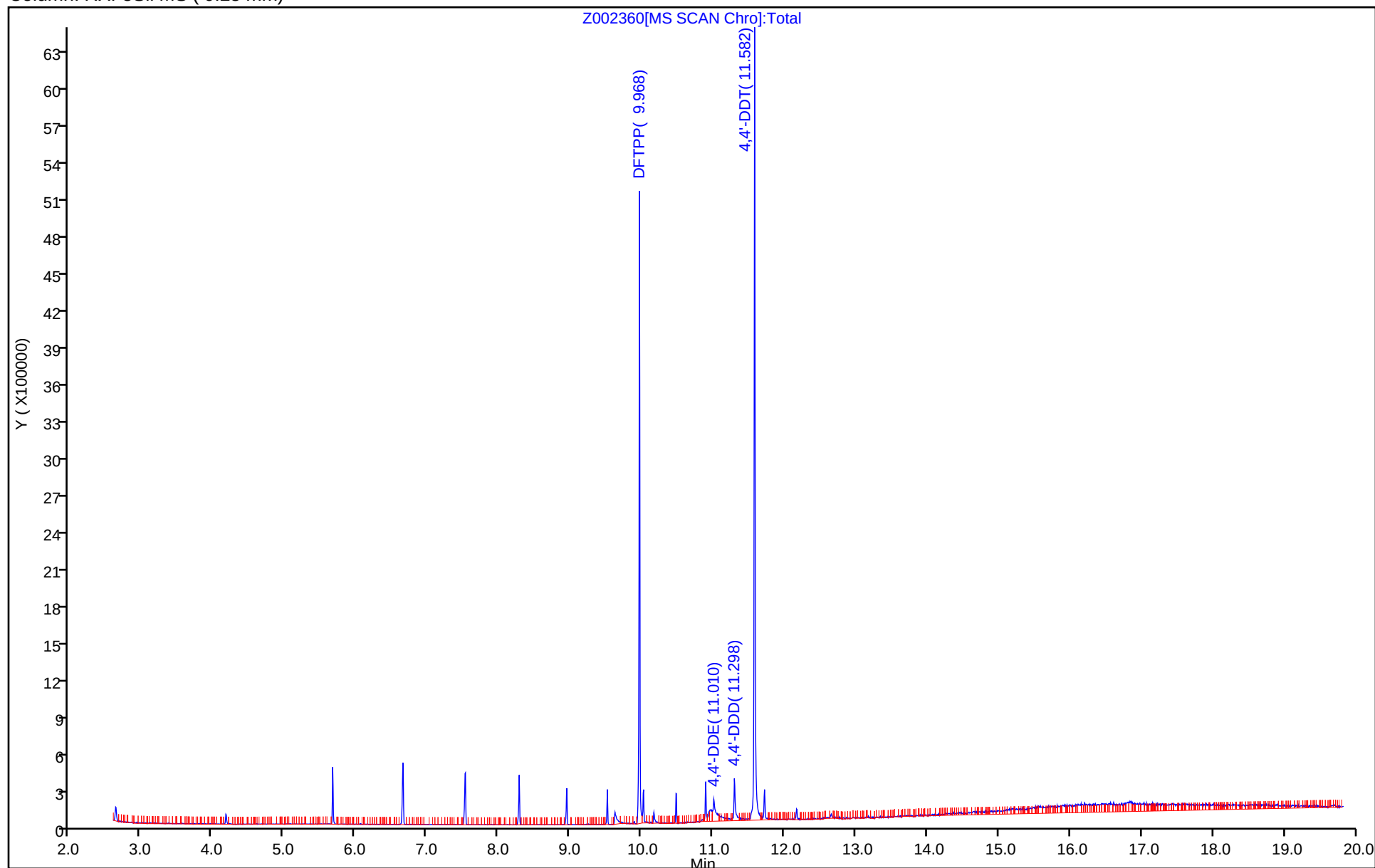
Dil. Factor: 1.0000

ALS Bottle#: 2

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002360.D

Injection Date: 16-Sep-2020 13:13:30

Instrument ID: HP5973Z

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#:

2

Worklist Smp#:

2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1.4_Dx_SIM_HP5973Za

Limit Group:

MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =

$$\left(\frac{\text{Area Breakdown Cpnds}}{\text{Total Area Breakdown Cpnds}} \right) * 100$$

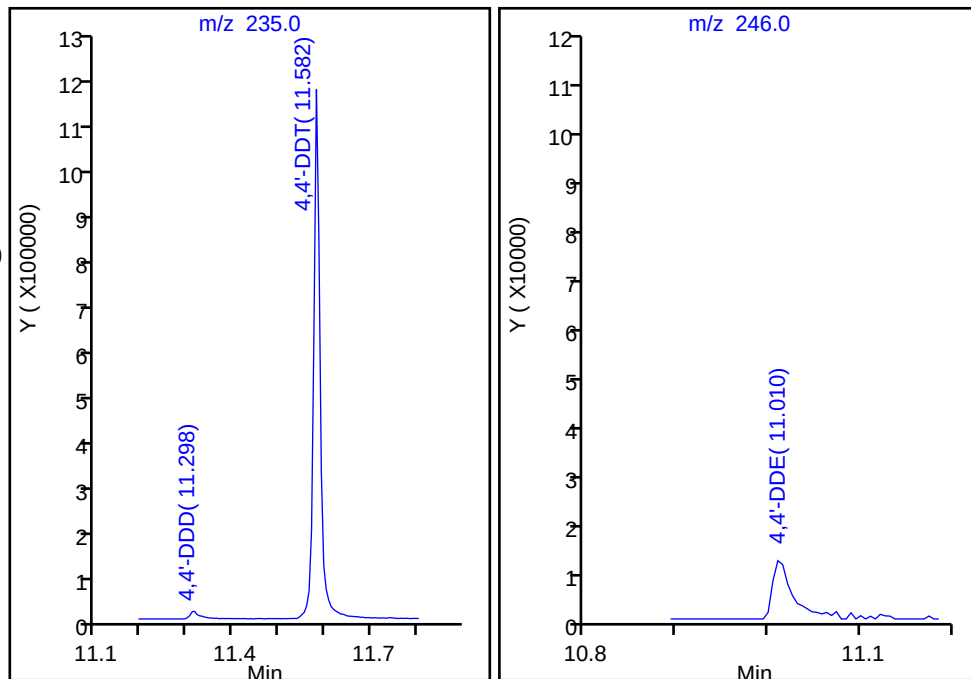
6 4,4'-DDT, Area = 1177247

5 4,4'-DDD, Area = 24766

7 4,4'-DDE, Area = 18065

%Breakdown: 3.51%, <= 20.00%

Passed



Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002503.D
 Lims ID: DFTPP
 Client ID:
 Sample Type: DFTPP
 Inject. Date: 22-Sep-2020 22:39:30 ALS Bottle#: 26 Worklist Smp#: 2
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-002
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:07:04 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: Deconvolution ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:07:04

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
4 DFTPP									
7 4,4'-DDE	246	11.011	11.011	0.000	0	12510			NR
5 4,4'-DDD	235	11.305	11.305	0.000	95	102440			NR
6 4,4'-DDT	235	11.577	11.577	0.000	96	725137	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

Reagents:

MB_DFTPP_WRK_00379

Amount Added: 1.00

Units: mL

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002503.D

Injection Date: 22-Sep-2020 22:39:30

Instrument ID: HP5973Z

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#: 26

Worklist Smp#: 2

Injection Vol: 1.0 ul

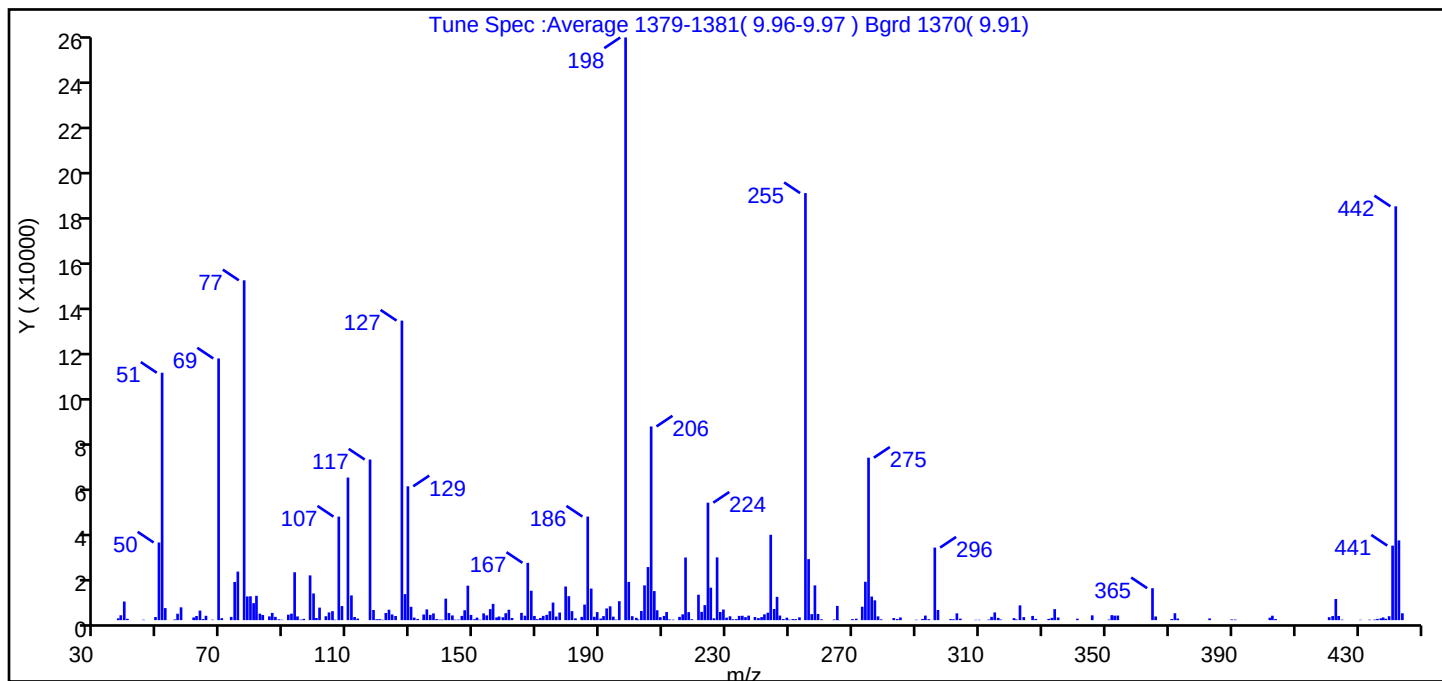
Dil. Factor: 1.0000

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Tune Method: DFTPP Method 8270D, BP 198

4 DFTPP



m/z	Ion Abundance Criteria	% Relative Abundance
198	base peak, or >50% of 442	100.0 (140.8)
51	10-80% of the base peak	42.5
68	<2% of mass 69	0.0 (0.0)
69	Present	44.9
70	<2% of mass 69	0.3 (0.7)
127	10-80% of the base peak	51.4
197	<2% of mass 198	0.0
199	5-9% of mass 198	6.6
275	10-60% of the base peak	27.9
365	>1% of mass 198	5.5
441	present but <24% of mass 442	12.8 (18.0)
442	base peak, or >50% of 198	71.0
443	15-24% of mass 442	13.7 (19.3)

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002503.D\1.4_Dx_SIM_HP5973Za.rsl\spectr
Injection Date: 22-Sep-2020 22:39:30
Spectrum: Tune Spec :Average 1379-1381(9.96-9.97) Bgrd 1370(9.91)
Base Peak: 197.90
Minimum % Base Peak: 0
Number of Points: 264

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	810	129.00	59512	201.00	1034	278.00	1674
38.00	2177	130.00	5932	202.00	321	279.00	363
39.00	8294	131.00	1126	203.00	4067	283.00	929
40.00	590	132.00	532	204.00	15463	284.00	513
45.00	197	134.00	2514	205.00	23608	285.00	1209
49.00	1391	135.00	4770	206.00	86120	290.00	196
50.00	34528	136.00	2334	207.00	12925	292.00	536
51.00	110008	137.00	3001	208.00	4392	293.00	2024
52.00	5364	138.00	470	209.00	1311	294.00	422
55.00	324	139.00	206	210.00	1854	296.00	32264
56.00	2850	140.00	202	211.00	3638	297.00	4534
57.00	5695	141.00	9555	212.00	318	301.00	459
61.00	1197	142.00	3168	213.00	223	302.00	391
62.00	1849	143.00	2093	215.00	1462	303.00	3023
63.00	4256	144.00	198	216.00	2582	304.00	647
64.00	470	145.00	228	217.00	27856	309.00	168
65.00	1936	146.00	1876	218.00	3558	310.00	170
67.00	206	147.00	4404	219.00	405	313.00	266
69.00	116360	148.00	15326	221.00	11297	314.00	1454
70.00	869	149.00	2317	222.00	3712	315.00	3436
73.00	1444	150.00	408	223.00	6679	316.00	1020
74.00	16976	151.00	1114	224.00	52232	317.00	273
75.00	21584	152.00	194	225.00	14434	321.00	903
77.00	151104	153.00	3017	226.00	807	322.00	328
78.00	10539	154.00	2127	227.00	27904	323.00	6578
79.00	10611	155.00	4893	228.00	3619	324.00	1349
80.00	7558	156.00	7235	229.00	4722	327.00	1880
81.00	10810	157.00	1225	230.00	1110	328.00	543
82.00	2875	158.00	1617	231.00	1714	332.00	564
83.00	2283	159.00	1277	232.00	405	333.00	1013
85.00	1673	160.00	3080	233.00	455	334.00	4907
86.00	3228	161.00	4616	234.00	1891	335.00	1166
87.00	1462	162.00	968	235.00	1939	341.00	629

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002503.D\1.4_Dx_SIM_HP5973Za.rsl\spectr

Injection Date: 22-Sep-2020 22:39:30

Spectrum: Tune Spec :Average 1379-1381(9.96-9.97) Bgrd 1370(9.91)

Base Peak: 197.90

Minimum % Base Peak: 0

Number of Points: 264

m/z	Y	m/z	Y	m/z	Y	m/z	Y
88.00	352	165.00	3235	236.00	1331	346.00	2131
89.00	178	166.00	1973	237.00	2000	351.00	251
91.00	2428	167.00	25472	239.00	1391	352.00	2227
92.00	2890	168.00	13073	240.00	914	353.00	2014
93.00	21296	169.00	1866	241.00	1348	354.00	2052
94.00	1650	170.00	439	242.00	2579	365.00	14205
95.00	231	171.00	995	243.00	3325	366.00	1644
96.00	565	172.00	1905	244.00	37944	371.00	509
98.00	19896	173.00	2354	245.00	4958	372.00	3058
99.00	11873	174.00	3990	246.00	10355	373.00	711
100.00	935	175.00	7800	247.00	2033	383.00	763
101.00	5572	176.00	1597	248.00	477	390.00	302
103.00	1744	177.00	3393	249.00	1094	391.00	271
104.00	3437	179.00	14956	250.00	197	402.00	1082
105.00	3989	180.00	10655	251.00	476	403.00	1967
106.00	198	181.00	4004	252.00	451	404.00	509
107.00	46032	182.00	806	253.00	1242	421.00	1318
108.00	6259	184.00	1446	255.00	189888	422.00	1818
110.00	63392	185.00	6922	256.00	27120	423.00	9409
111.00	10990	186.00	46048	257.00	2674	424.00	1864
112.00	1403	187.00	14034	258.00	15461	425.00	232
113.00	690	188.00	1497	259.00	2756	431.00	177
117.00	71416	189.00	3570	260.00	377	434.00	216
118.00	4512	190.00	710	264.00	307	435.00	254
119.00	417	191.00	1803	265.00	6325	436.00	571
120.00	448	192.00	5196	266.00	72	437.00	815
121.00	181	193.00	6157	270.00	466	438.00	1200
122.00	3184	194.00	1555	271.00	636	439.00	619
123.00	4621	195.00	250	273.00	5968	440.00	1752
124.00	2522	196.00	8433	274.00	17056	441.00	33144
125.00	1844	198.00	259072	275.00	72232	442.00	184000
127.00	133184	199.00	17000	276.00	10484	443.00	35448
128.00	11569	200.00	1769	277.00	8816	444.00	3057

Report Date: 23-Sep-2020 12:07:04

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002503.D

Injection Date: 22-Sep-2020 22:39:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: DFTPP

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

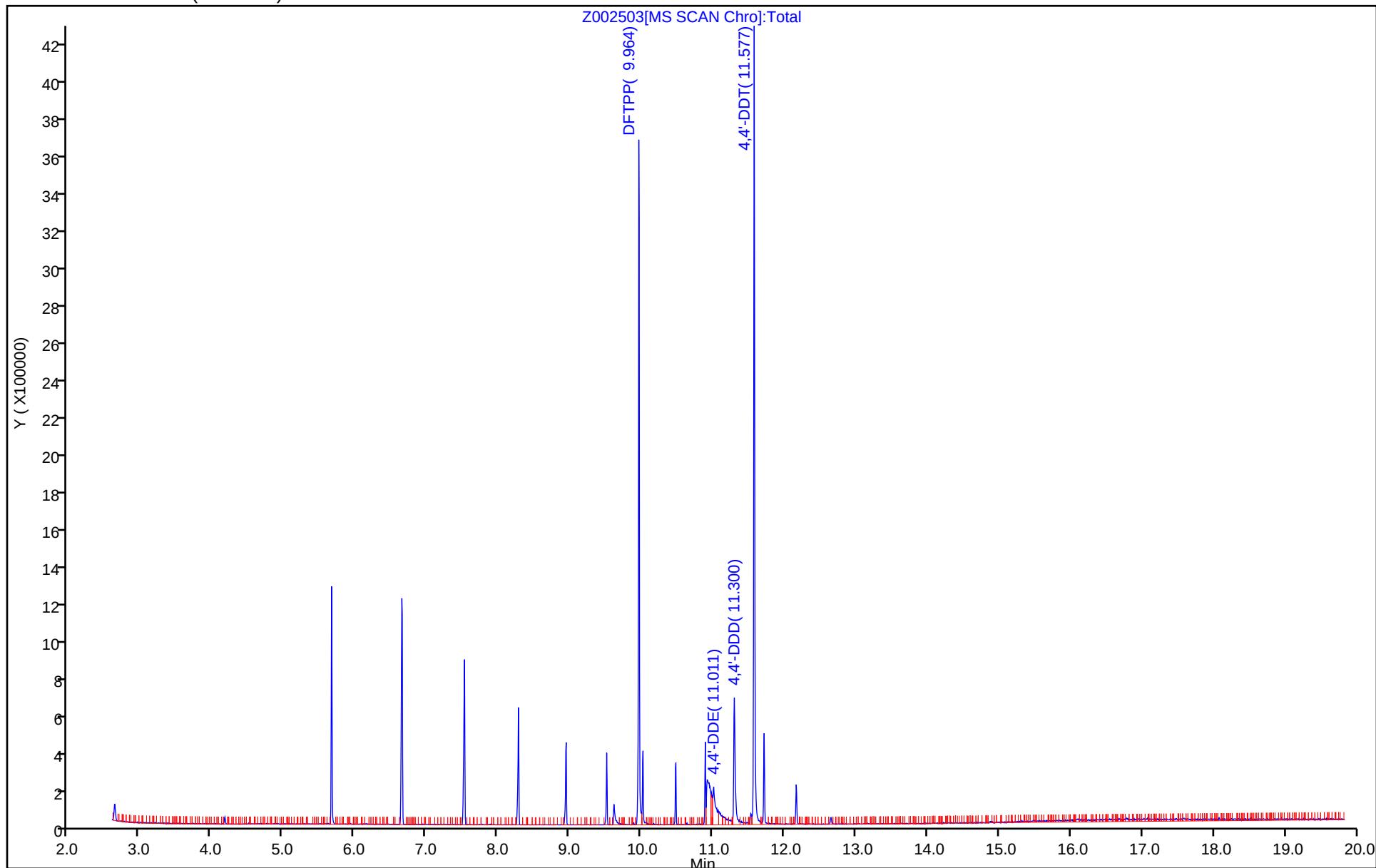
Dil. Factor: 1.0000

ALS Bottle#: 26

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002503.D

Injection Date: 22-Sep-2020 22:39:30

Instrument ID: HP5973Z

Lims ID: DFTPP

Client ID:

Operator ID: PJQ

ALS Bottle#: 26

Worklist Smp#: 2

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =

$$\left(\frac{\text{Area Breakdown Cpnds}}{\text{Total Area Breakdown Cpnds}} \right) * 100$$

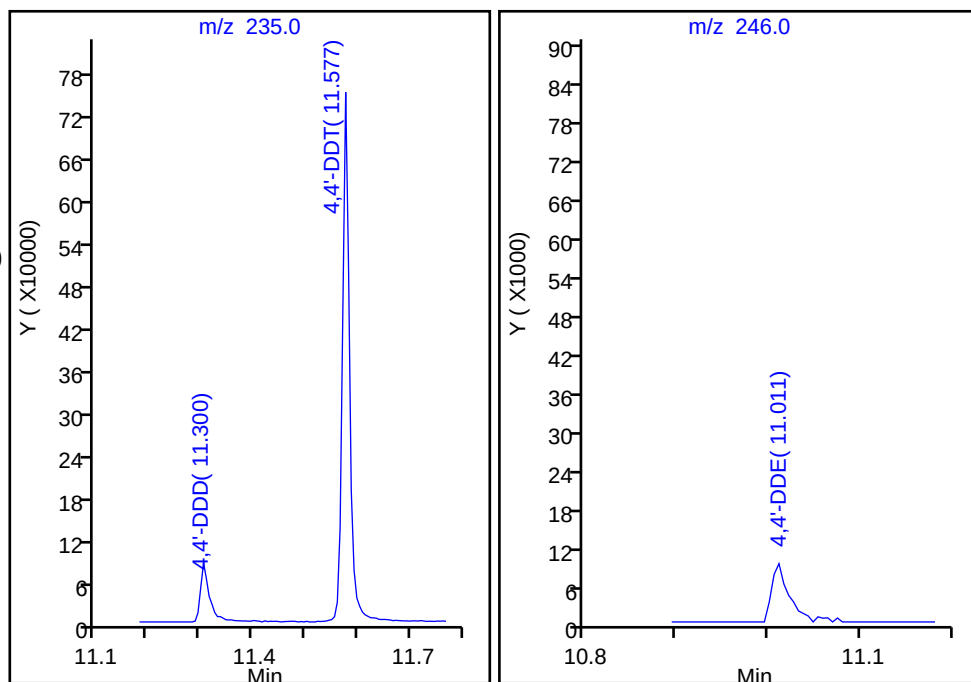
6 4,4'-DDT, Area = 725137

5 4,4'-DDD, Area = 102440

7 4,4'-DDE, Area = 12510

%Breakdown: 13.68%, <= 20.00%

Passed



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 480-550117/1-A
 Matrix: Water Lab File ID: Z002505.D
 Analysis Method: 8270D SIM ID Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/18/2020 08:21
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/22/2020 23:29
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 550627 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	ND		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	31		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002505.D
 Lims ID: MB 480-550117/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 22-Sep-2020 23:29:30 ALS Bottle#: 28 Worklist Smp#: 4
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-004
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:07:29 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:36:41

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.938	2.840	0.098	95	101862	10.0	3.13	
3 1,4-Dioxane	88		2.885					ND	
* 2 1,4-Dichlorobenzene-d4	152	5.945	5.936	0.009	99	284217	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Sep-2020 12:36:41

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Euofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002505.D

Injection Date: 22-Sep-2020 23:29:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: MB 480-550117/1-A

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

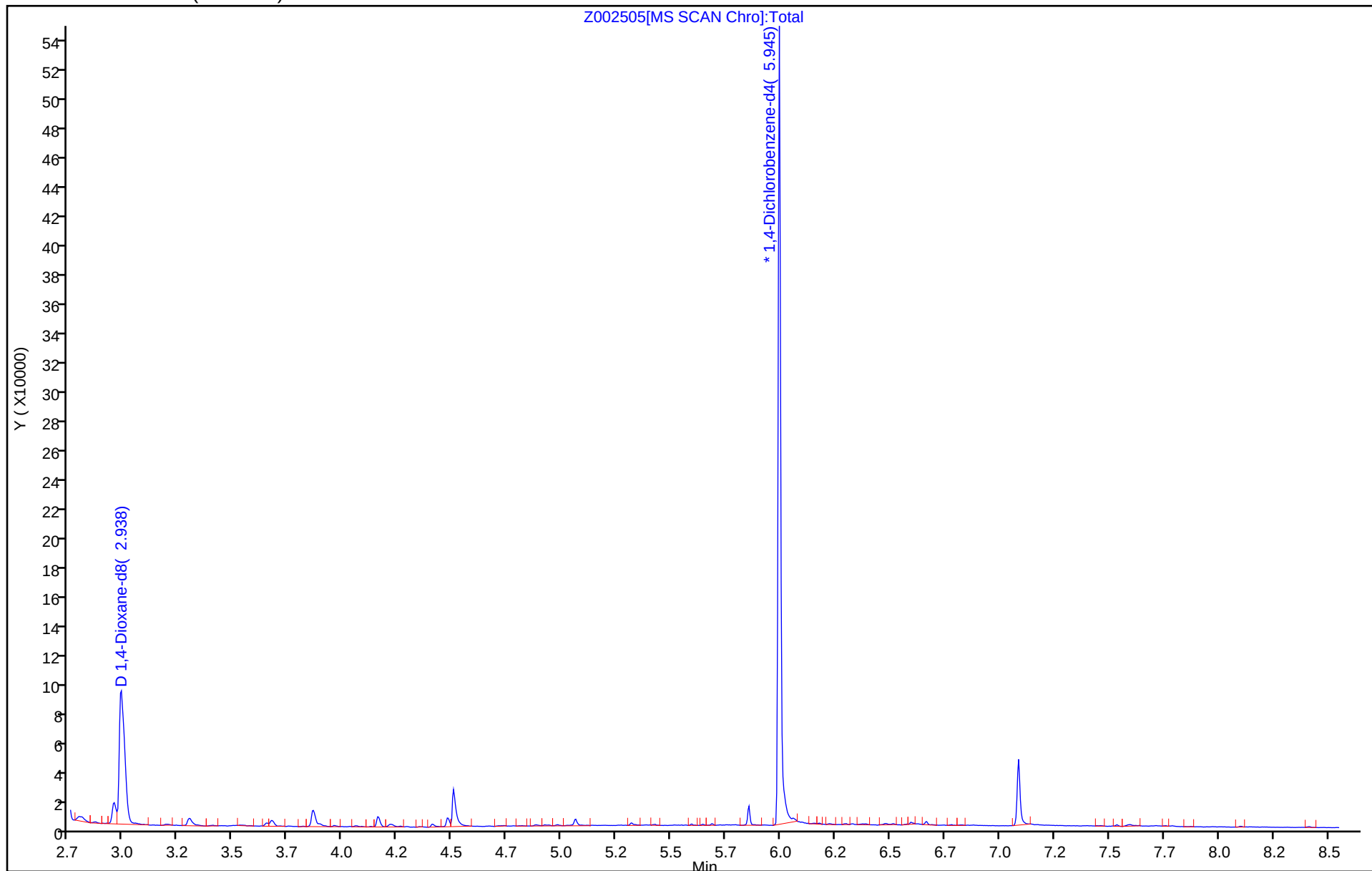
Dil. Factor: 1.0000

ALS Bottle#: 28

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002505.D

Injection Date: 22-Sep-2020 23:29:30

Instrument ID: HP5973Z

Lims ID: MB 480-550117/1-A

Client ID:

Operator ID: PJQ

ALS Bottle#:

28

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor:

1.0000

Method: 1.4_Dx_SIM_HP5973Za

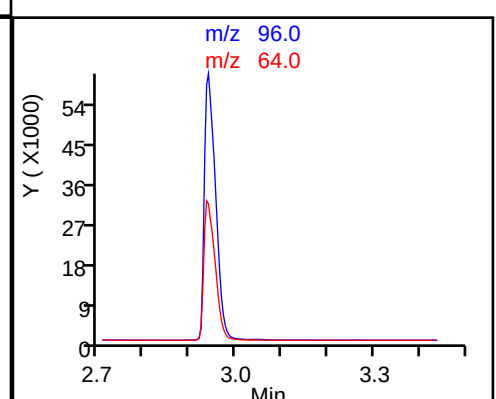
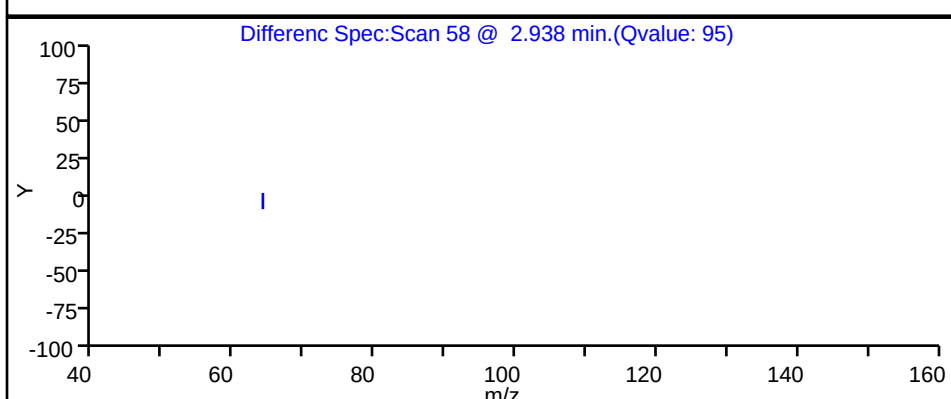
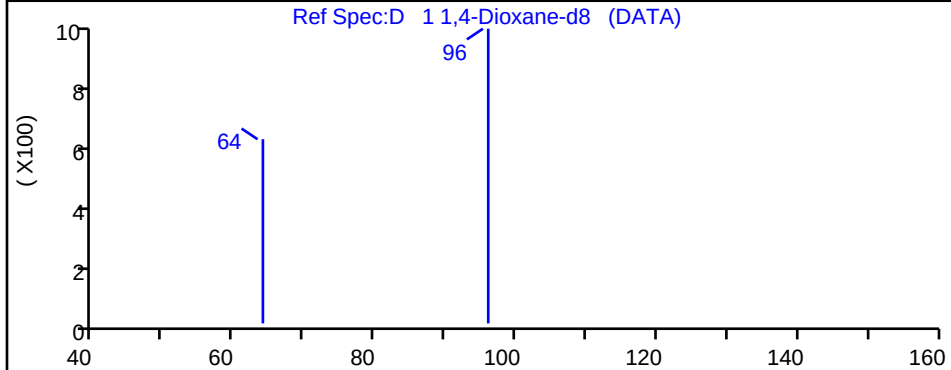
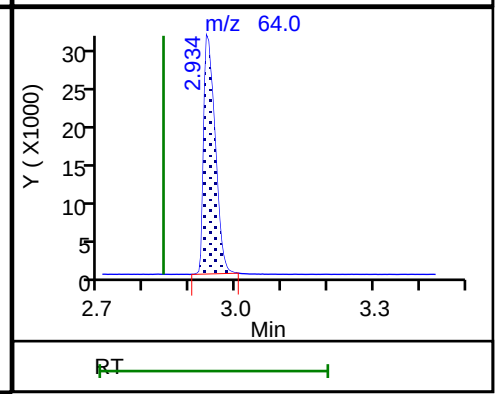
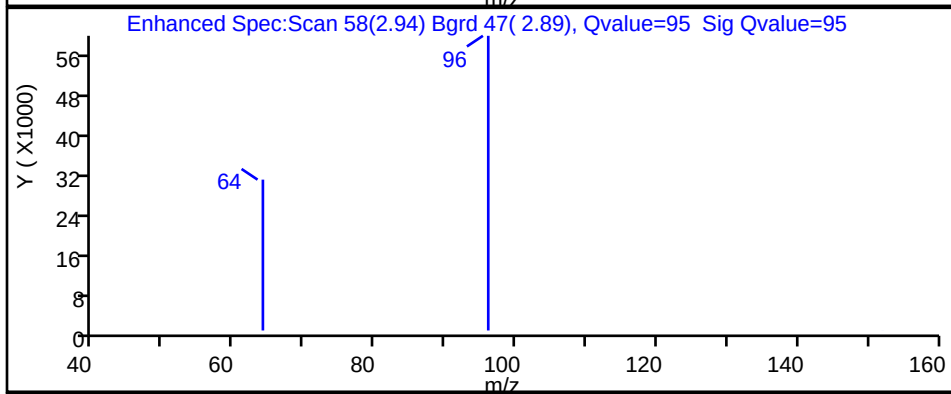
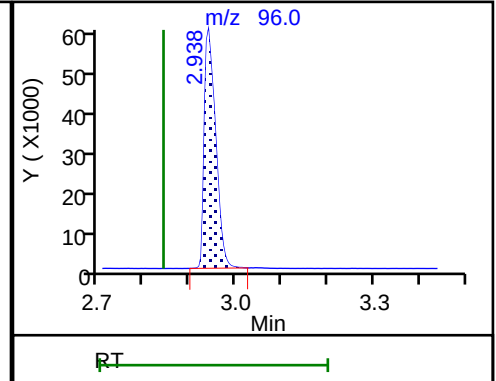
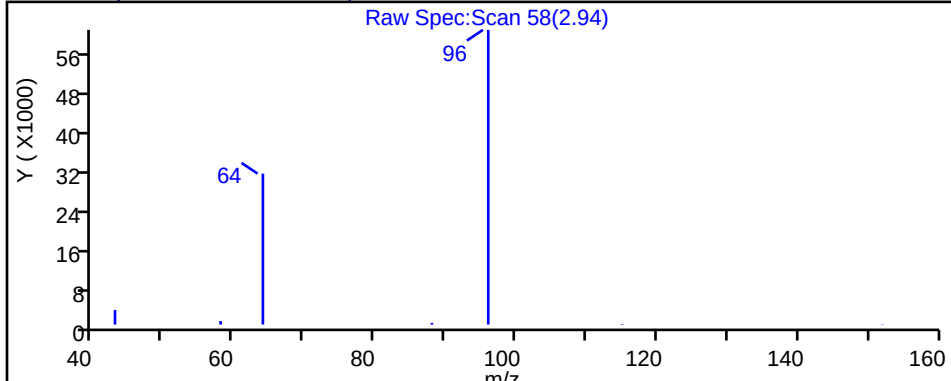
Limit Group:

MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector

MS SCAN

D 1 1,4-Dioxane-d8, CAS: 17647-74-4

FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 480-550117/2-A
 Matrix: Water Lab File ID: Z002506.D
 Analysis Method: 8270D SIM ID Date Collected: _____
 Extract. Method: 3510C Date Extracted: 09/18/2020 08:21
 Sample wt/vol: 1000 (mL) Date Analyzed: 09/22/2020 23:51
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 550627 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.15		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	25		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002506.D
 Lims ID: LCS 480-550117/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 22-Sep-2020 23:51:30 ALS Bottle#: 29 Worklist Smp#: 5
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-005
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:37:12 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:37:12

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.981	2.840	0.141	95	79155	10.0	2.54	
3 1,4-Dioxane	88	3.021	2.885	0.136	64	8823	1.00	1.15	
* 2 1,4-Dichlorobenzene-d4	152	5.946	5.936	0.010	97	271916	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Sep-2020 12:37:12

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Euofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002506.D

Injection Date: 22-Sep-2020 23:51:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: LCS 480-550117/2-A

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

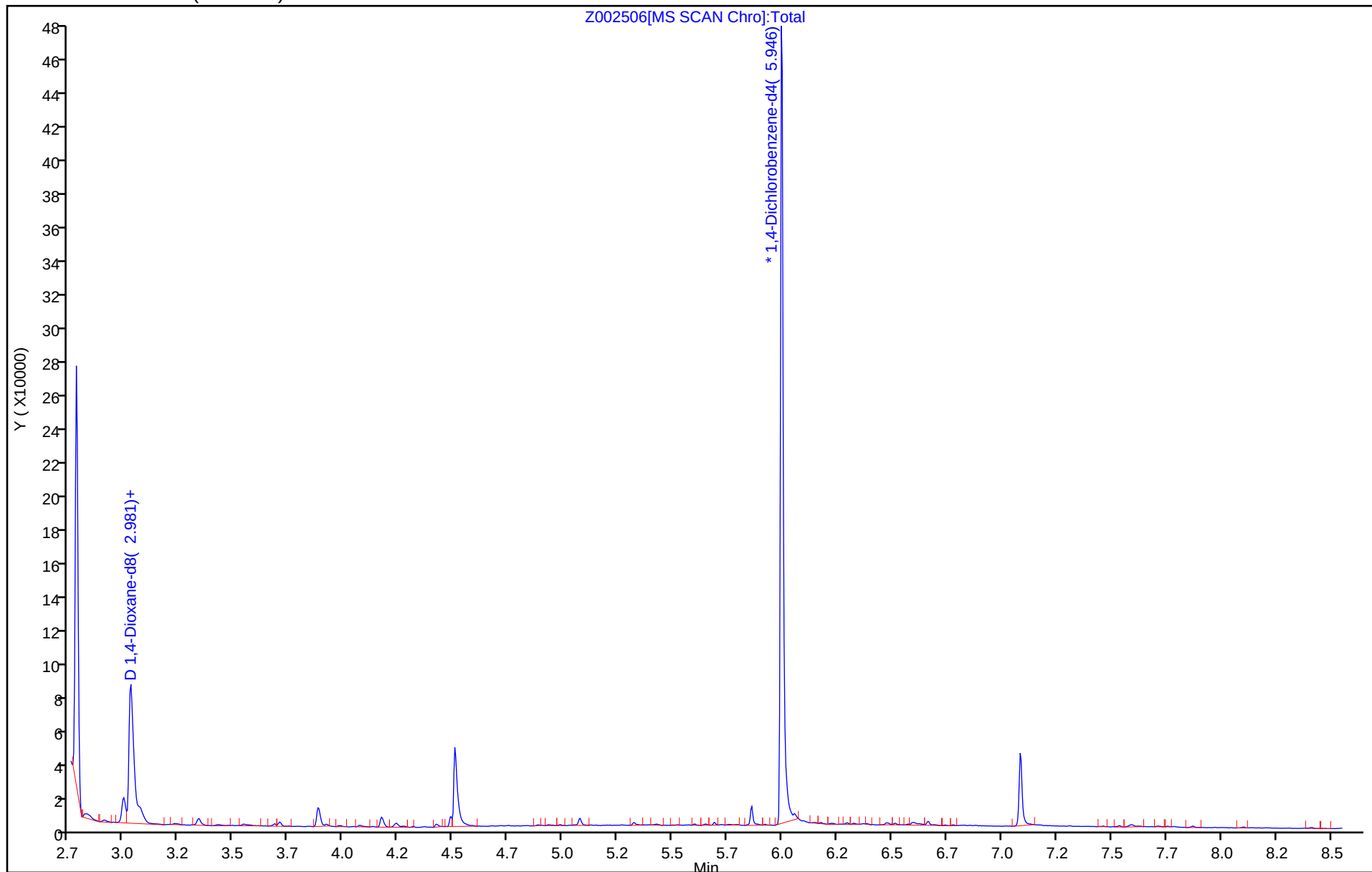
Dil. Factor: 1.0000

ALS Bottle#: 29

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-1 MS Lab Sample ID: 480-175175-1 MS
 Matrix: Water Lab File ID: Z002507.D
 Analysis Method: 8270D SIM ID Date Collected: 09/14/2020 14:35
 Extract. Method: 3510C Date Extracted: 09/18/2020 08:21
 Sample wt/vol: 1050 (mL) Date Analyzed: 09/23/2020 00:14
 Con. Extract Vol.: 1 (mL) Dilution Factor: 1
 Injection Volume: 1 (uL) Level: (low/med) Low
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 550627 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.10		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	27		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002507.D
 Lims ID: 480-175175-B-1-A MS
 Client ID: CC-MW-1
 Sample Type: MS
 Inject. Date: 23-Sep-2020 00:14:30 ALS Bottle#: 30 Worklist Smp#: 6
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-006
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:37:12 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICAL File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:37:35

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.970	2.840	0.130	95	88384	10.0	2.69	
3 1,4-Dioxane	88	3.011	2.885	0.126	65	9940	1.00	1.16	
* 2 1,4-Dichlorobenzene-d4	152	5.948	5.936	0.012	99	287256	4.00	4.00	
7 4,4'-DDE	246		11.011					ND	
5 4,4'-DDD	235		11.305					ND	
6 4,4'-DDT	235		11.577					ND	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Sep-2020 12:37:35

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002507.D

Injection Date: 23-Sep-2020 00:14:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175175-B-1-A MS

Worklist Smp#: 6

Client ID: CC-MW-1

Injection Vol: 1.0 ul

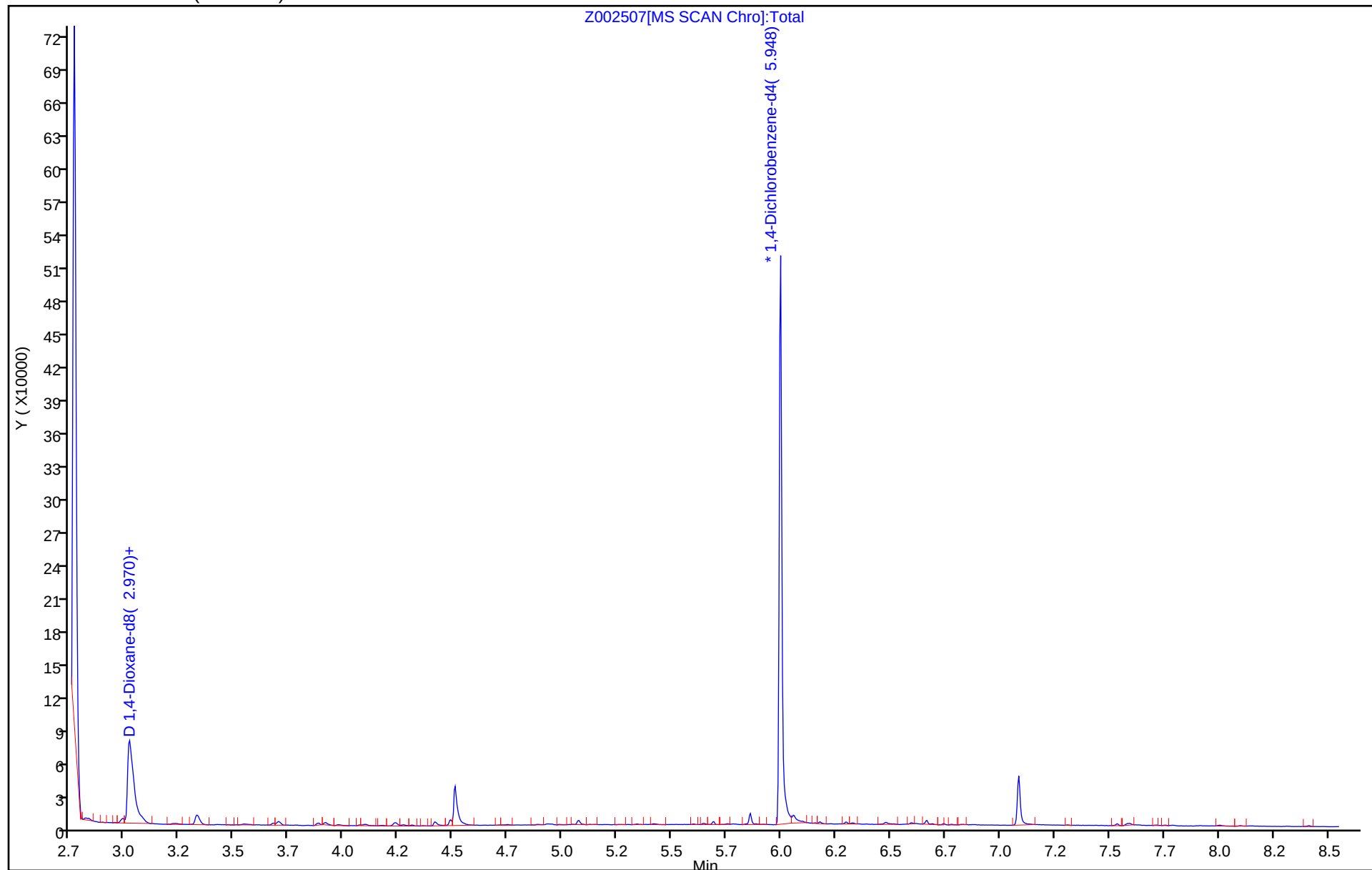
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



FORM I
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1
SDG No.: _____
Client Sample ID: CC-MW-1 MSD Lab Sample ID: 480-175175-1 MSD
Matrix: Water Lab File ID: Z002508.D
Analysis Method: 8270D SIM ID Date Collected: 09/14/2020 14:35
Extract. Method: 3510C Date Extracted: 09/18/2020 08:21
Sample wt/vol: 1040 (mL) Date Analyzed: 09/23/2020 00:36
Con. Extract Vol.: 1 (mL) Dilution Factor: 1
Injection Volume: 1 (uL) Level: (low/med) Low
% Moisture: _____ GPC Cleanup: (Y/N) N
Analysis Batch No.: 550627 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.12		0.19	0.096

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	28		15-110

Eurofins TestAmerica, Buffalo
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002508.D
 Lims ID: 480-175175-A-1-A MSD
 Client ID: CC-MW-1
 Sample Type: MSD
 Inject. Date: 23-Sep-2020 00:36:30 ALS Bottle#: 31 Worklist Smp#: 7
 Injection Vol: 1.0 ul Dil. Factor: 1.0000
 Sample Info: 480-0093619-007
 Operator ID: PJQ Instrument ID: HP5973Z
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\1.4_Dx_SIM_HP5973Za.m
 Limit Group: MB - 8270D SIM ID ICAL
 Last Update: 23-Sep-2020 12:37:12 Calib Date: 16-Sep-2020 15:33:30
 Integrator: Picker ID Type: RT Order ID
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Buffalo\ChromData\HP5973Z\20200916-93471.b\Z002366.D
 Column 1 : RXI-5Sil MS (0.25 mm) Det: MS SCAN
 Process Host: CTX1056

First Level Reviewer: quirkp

Date: 23-Sep-2020 12:37:46

Compound	Sig	RT (min.)	Exp RT (min.)	Dlt RT (min.)	Q	Response	Cal Amt ng/ul	OnCol Amt ng/ul	Flags
D 1 1,4-Dioxane-d8	96	2.972	2.840	0.132	96	87737	10.0	2.85	
3 1,4-Dioxane	88	3.017	2.885	0.132	63	9916	1.00	1.16	
* 2 1,4-Dichlorobenzene-d4	152	5.946	5.936	0.010	98	269230	4.00	4.00	
7 4,4'-DDE	246		11.011					ND	
5 4,4'-DDD	235		11.305					ND	
6 4,4'-DDT	235		11.577					ND	

QC Flag Legend

Processing Flags

Reagents:

MB_LLIS_WRK_00200

Amount Added: 20.00

Units: uL

Run Reagent

Report Date: 23-Sep-2020 12:37:46

Chrom Revision: 2.3 16-Sep-2020 17:17:04

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20200922-93619.b\Z002508.D

Injection Date: 23-Sep-2020 00:36:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175175-A-1-A MSD

Worklist Smp#: 7

Client ID: CC-MW-1

Injection Vol: 1.0 ul

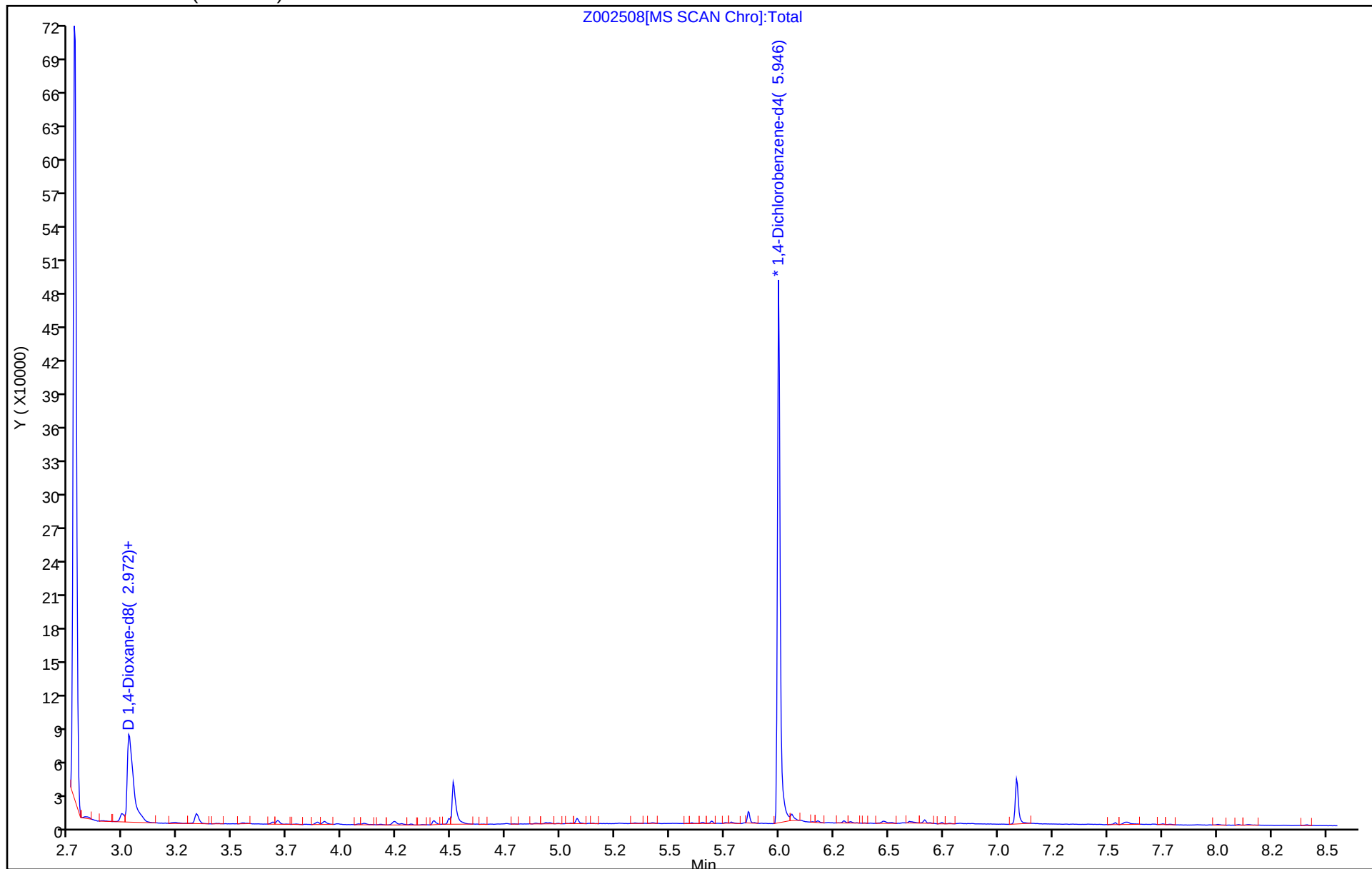
Dil. Factor: 1.0000

ALS Bottle#: 31

Method: 1.4_Dx_SIM_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-175175-1

SDG No.: _____

Instrument ID: HP5973ZStart Date: 09/16/2020 13:13Analysis Batch Number: 549769End Date: 09/16/2020 22:00

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-549769/2		09/16/2020 13:13	1	Z002360.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-549769/3		09/16/2020 13:40	1	Z002361.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-549769/4		09/16/2020 14:03	1	Z002362.D	RXI-5Sil MS(0.5 0.25 (mm))
ICIS 480-549769/5		09/16/2020 14:25	1	Z002363.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-549769/6		09/16/2020 14:48	1	Z002364.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-549769/7		09/16/2020 15:11	1	Z002365.D	RXI-5Sil MS(0.5 0.25 (mm))
IC 480-549769/8		09/16/2020 15:33	1	Z002366.D	RXI-5Sil MS(0.5 0.25 (mm))
ICV 480-549769/9		09/16/2020 15:56	1	Z002367.D	RXI-5Sil MS(0.5 0.25 (mm))
CCVIS 480-549769/10		09/16/2020 16:19	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 16:42	5		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 17:04	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 17:27	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 17:50	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 18:13	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 18:35	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 18:58	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 19:21	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 19:44	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 20:06	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 20:29	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 20:51	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 21:14	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 21:37	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/16/2020 22:00	1		RXI-5Sil MS(0.5 0.25 (mm))

GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-175175-1

SDG No.: _____

Instrument ID: HP5973ZStart Date: 09/22/2020 22:39Analysis Batch Number: 550627End Date: 09/23/2020 05:31

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-550627/2		09/22/2020 22:39	1	Z002503.D	RXI-5Sil MS(0.5 0.25 (mm))
CCVIS 480-550627/3		09/22/2020 23:06	1	Z002504.D	RXI-5Sil MS(0.5 0.25 (mm))
MB 480-550117/1-A		09/22/2020 23:29	1	Z002505.D	RXI-5Sil MS(0.5 0.25 (mm))
LCS 480-550117/2-A		09/22/2020 23:51	1	Z002506.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175175-1 MS	CC-MW-1 MS	09/23/2020 00:14	1	Z002507.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175175-1 MSD	CC-MW-1 MSD	09/23/2020 00:36	1	Z002508.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175175-1	CC-MW-1	09/23/2020 00:59	1	Z002509.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 01:22	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 01:45	1		RXI-5Sil MS(0.5 0.25 (mm))
480-175175-2	CC-MW-2	09/23/2020 02:07	1	Z002512.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175175-5	CC-MW-4	09/23/2020 02:30	1	Z002513.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 02:53	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 03:15	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 03:38	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 04:00	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 04:23	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 04:46	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 05:08	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		09/23/2020 05:31	1		RXI-5Sil MS(0.5 0.25 (mm))

GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175175-1

SDG No.: _____

Batch Number: 550117 Batch Start Date: 09/18/20 08:21 Batch Analyst: Pollock, Jacob MBatch Method: 3510C Batch End Date: _____

Lab Sample ID	Client Sample ID	Method Chain	Basis	InitialAmount	FinalAmount	ReceivedpH	FirstAdjustpH	OP_SIM LCS 00012	OP_SimSurr 00025
MB 480-550117/1		3510C, 8270D SIM ID		1000 mL	1 mL	7 SU	<2 SU		1 mL
LCS 480-550117/2		3510C, 8270D SIM ID		1000 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-175175-B-1 MS	CC-MW-1	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-175175-A-1 MSD	CC-MW-1	3510C, 8270D SIM ID	T	1040 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-175175-B-1	CC-MW-1	3510C, 8270D SIM ID	T	1030 mL	1 mL	7 SU	<2 SU		1 mL
480-175175-A-2	CC-MW-2	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-175175-B-5	CC-MW-4	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL

Batch Notes	
Acid Used for pH Adjustment ID	5836426
Analyst ID - Concentration	JP
Analyst ID - Extraction	JP
Method/Fraction	3510C/8270_SIM_MS_ID
Na2SO4 ID	6069462
Prep Solvent ID	6114073
Prep Solvent Volume Used	180 mL
Analyst ID - Spike Analyst	JP
Analyst ID - Spike Witness Analyst	JP
Sufficient Volume for Batch QC	Yes
Vial Lot Number	1709111094

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.

8270D SIM ID

Page 1 of 1

PFC_IDA

Fluorinated Alkyl Substances

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFBA #	PFPeA #	C3PFBS #	PFHxA #	PFHxS #	C4PFHA #	M262FTS #	PFOA #
CC-MW-1	480-175175-1	92	98	93	99	98	101	91	97
CC-MW-2	480-175175-2	91	101	93	98	98	106	102	98
CC-MW-4	480-175175-5	94	100	93	98	99	101	100	99
CC-EQUIPMENT BLANK	480-175175-7	78	104	98	105	104	108	105	103
	MB 200-159139/1-A	80	78	72	78	76	75	78	73
	LCS 200-159139/2-A	103	105	96	100	99	99	103	100
CC-MW-1 MS	480-175175-1 MS	93	99	90	102	97	99	90	97
CC-MW-1 MSD	480-175175-1 MSD	76	83	82	82	79	82	77	77

	<u>QC LIMITS</u>
PFBA = 13C4 PFBA	25-150
PFPeA = 13C5 PFPeA	25-150
C3PFBS = 13C3 PFBS	50-150
PFHxA = 13C2 PFHxA	50-150
PFHxS = 18O2 PFHxS	50-150
C4PFHA = 13C4 PFHpA	50-150
M262FTS = M2-6:2 FTS	25-150
PFOA = 13C4 PFOA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFOS #	PFNA #	PFDA #	M282FTS #	PFOSA #	d3NMFOS #	d5NEFOS #	PFUnA #
CC-MW-1	480-175175-1	93	94	92	104	80	86	87	92
CC-MW-2	480-175175-2	96	97	95	94	83	88	97	85
CC-MW-4	480-175175-5	97	97	87	90	85	76	88	86
CC-EQUIPMENT BLANK	480-175175-7	100	105	101	99	79	81	94	92
	MB 200-159139/1-A	69	72	77	80	56	66	72	70
	LCS 200-159139/2-A	95	101	91	100	79	84	92	96
CC-MW-1 MS	480-175175-1 MS	85	95	83	89	77	75	76	73
CC-MW-1 MSD	480-175175-1 MSD	78	80	73	85	66	74	76	69

QC LIMITS

PFOS = 13C4 PFOS	50-150
PFNA = 13C5 PFNA	50-150
PFDA = 13C2 PFDA	50-150
M282FTS = M2-8:2 FTS	25-150
PFOSA = 13C8 FOSA	25-150
d3NMFOS = d3-NMeFOSAA	50-150
d5NEFOS = d5-NEtFOSAA	50-150
PFUnA = 13C2 PFUnA	50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM II
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFD _o A #	PFTD _A #
CC-MW-1	480-175175-1	75	85
CC-MW-2	480-175175-2	89	86
CC-MW-4	480-175175-5	77	79
CC-EQUIPMENT BLANK	480-175175-7	93	78
	MB 200-159139/1-A	56	63
	LCS 200-159139/2-A	96	89
CC-MW-1 MS	480-175175-1 MS	68	69
CC-MW-1 MSD	480-175175-1 MSD	70	63

PFD_oA = 13C2 PFD_oA
PFTD_A = 13C2 PFTeD_A

QC LIMITS
50-150
50-150

Column to be used to flag recovery values

FORM II 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA200924B03.d
 Lab ID: LCS 200-159139/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	37.8	95	50-150	
Perfluoropentanoic acid (PFPeA)	40.0	37.8	94	50-150	
Perfluorohexanoic acid (PFHxA)	40.0	41.6	104	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	39.8	99	70-130	
Perfluorooctanoic acid (PFOA)	40.0	37.8	94	70-130	
Perfluorononanoic acid (PFNA)	40.0	38.7	97	70-130	
Perfluorodecanoic acid (PFDA)	40.0	38.9	97	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	35.7	89	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	37.5	94	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	36.9	92	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	39.3	98	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	37.0	105	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	33.4	92	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.2	105	50-150	
Perfluorodecanesulfonic acid (PFDS)	38.6	37.4	97	50-150	
Perfluorooctanesulfonic acid (PFOS)	37.1	36.2	98	70-130	
Perfluorooctanesulfonamide (FOSA)	40.0	40.3	101	50-150	
13C8 FOSA	50.0	39.3	79	25-150	
13C4 PFBA	50.0	51.5	103	25-150	
13C5 PFPeA	50.0	52.5	105	25-150	
13C2 PFHxA	50.0	49.9	100	50-150	
13C4 PFHpA	50.0	49.6	99	50-150	
13C4 PFOA	50.0	49.9	100	50-150	
13C5 PFNA	50.0	50.7	101	50-150	
13C2 PFDA	50.0	45.3	91	50-150	
13C2 PFUnA	50.0	48.0	96	50-150	
13C2 PFDoA	50.0	48.0	96	50-150	
13C2 PFTeDA	50.0	44.7	89	50-150	
13C3 PFBS	46.5	44.7	96	50-150	
18O2 PFHxS	47.3	46.6	99	50-150	
13C4 PFOS	47.8	45.3	95	50-150	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	40.0	45.1	113	70-130	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS LAB CONTROL SAMPLE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Matrix: Water Level: Low Lab File ID: PA200924B03.d

Lab ID: LCS 200-159139/2-A Client ID: _____

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
N-ethylperfluorooctanesulfonam idoacetic acid (NEtFOSAA)	40.0	40.7	102	70-130	
d3-NMeFOSAA	50.0	41.8	84	50-150	
d5-NEtFOSAA	50.0	46.2	92	50-150	
6:2 FTS	37.9	35.8	94	50-150	
8:2 FTS	38.3	34.5	90	50-150	
M2-6:2 FTS	47.5	48.7	103	25-150	
M2-8:2 FTS	47.9	48.0	100	25-150	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA200924B11.d
 Lab ID: 480-175175-1 MS Client ID: CC-MW-1 MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	35.3	ND	32.1	91	40-160	
Perfluoropentanoic acid (PFPeA)	35.3	ND	32.5	92	40-160	
Perfluorohexanoic acid (PFHxA)	35.3	ND	34.2	97	40-160	
Perfluoroheptanoic acid (PFHpA)	35.3	ND	34.9	99	40-160	
Perfluorooctanoic acid (PFOA)	35.3	ND	33.8	96	40-160	
Perfluorononanoic acid (PFNA)	35.3	ND	32.6	92	40-160	
Perfluorodecanoic acid (PFDA)	35.3	ND	34.0	96	40-160	
Perfluoroundecanoic acid (PFUnA)	35.3	ND	35.6	101	40-160	
Perfluorododecanoic acid (PFDoA)	35.3	ND	34.9	99	40-160	
Perfluorotridecanoic acid (PFTriA)	35.3	ND	38.2	108	40-160	
Perfluorotetradecanoic acid (PFTeA)	35.3	ND	38.1	108	40-160	
Perfluorobutanesulfonic acid (PFBS)	31.2	1.8	32.3	98	40-160	
Perfluorohexanesulfonic acid (PFHxS)	32.1	ND	29.4	92	40-160	
Perfluoroheptanesulfonic Acid (PFHpS)	33.6	ND	36.6	109	40-160	
Perfluorodecanesulfonic acid (PFDS)	34.0	ND	29.8	88	40-160	
Perfluorooctanesulfonic acid (PFOS)	32.7	1.1 J	33.8	100	40-160	
Perfluorooctanesulfonamide (FOSA)	35.3	ND	34.4	98	40-160	
13C8 FOSA	44.1	36	34.1	77	25-150	
13C4 PFBA	44.1	42	41.1	93	25-150	
13C5 PFPeA	44.1	44	43.5	99	25-150	
13C2 PFHxA	44.1	45	45.2	102	50-150	
13C4 PFHpA	44.1	46	43.6	99	50-150	
13C4 PFOA	44.1	44	42.6	97	50-150	
13C5 PFNA	44.1	42	41.7	95	50-150	
13C2 PFDA	44.1	42	36.7	83	50-150	
13C2 PFUnA	44.1	42	32.3	73	50-150	
13C2 PFDoA	44.1	34	30.2	68	50-150	
13C2 PFTeDA	44.1	38	30.3	69	50-150	
13C3 PFBS	41.0	39	36.8	90	50-150	
18O2 PFHxS	41.7	42	40.4	97	50-150	
13C4 PFOS	42.2	40	35.7	85	50-150	
N-methylperfluorooctanesulfona midoacetic acid (NMeFOSAA)	35.3	ND	34.6	98	40-160	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA200924B11.d
 Lab ID: 480-175175-1 MS Client ID: CC-MW-1 MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
N-ethylperfluorooctanesulfonam idoacetic acid (NEtFOSAA)	35.3	ND	30.5	86	40-160	
d3-NMeFOSAA	44.1	39	33.1	75	50-150	
d5-NEtFOSAA	44.1	39	33.7	76	50-150	
6:2 FTS	33.5	ND	35.6	106	40-160	
8:2 FTS	33.8	ND	32.0	95	40-160	
M2-6:2 FTS	41.9	39	37.6	90	25-150	
M2-8:2 FTS	42.3	45	37.4	89	25-150	

Column to be used to flag recovery and RPD values
 FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA200924B12.d
 Lab ID: 480-175175-1 MSD Client ID: CC-MW-1 MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	35.5	35.8	101	11	30	40-160	
Perfluoropentanoic acid (PFPeA)	35.5	36.1	102	11	30	40-160	
Perfluorohexanoic acid (PFHxA)	35.5	37.2	105	8	20	40-160	
Perfluoroheptanoic acid (PFHpA)	35.5	35.7	101	2	20	40-160	
Perfluorooctanoic acid (PFOA)	35.5	36.4	103	7	20	40-160	
Perfluorononanoic acid (PFNA)	35.5	36.6	103	12	20	40-160	
Perfluorodecanoic acid (PFDA)	35.5	37.4	105	9	20	40-160	
Perfluoroundecanoic acid (PFUnA)	35.5	37.8	107	6	20	40-160	
Perfluorododecanoic acid (PFDoA)	35.5	37.6	106	7	20	40-160	
Perfluorotridecanoic acid (PFTriA)	35.5	35.2	99	8	20	40-160	
Perfluorotetradecanoic acid (PFTeA)	35.5	41.5	117	8	20	40-160	
Perfluorobutanesulfonic acid (PFBS)	31.4	34.8	105	7	20	40-160	
Perfluorohexanesulfonic acid (PFHxS)	32.3	33.4	104	13	20	40-160	
Perfluoroheptanesulfonic Acid (PFHpS)	33.8	37.3	111	2	30	40-160	
Perfluorodecanesulfonic acid (PFDS)	34.2	32.4	95	8	30	40-160	
Perfluorooctanesulfonic acid (PFOS)	32.9	35.0	103	4	20	40-160	
Perfluorooctanesulfonamide (FOSA)	35.5	37.4	105	8	30	40-160	
13C8 FOSA	44.3	29.4	66			25-150	
13C4 PFBA	44.3	33.9	76			25-150	
13C5 PFPeA	44.3	36.8	83			25-150	
13C2 PFHxA	44.3	36.3	82			50-150	
13C4 PFHpA	44.3	36.5	82			50-150	
13C4 PFOA	44.3	34.1	77			50-150	
13C5 PFNA	44.3	35.3	80			50-150	
13C2 PFDA	44.3	32.4	73			50-150	
13C2 PFUnA	44.3	30.5	69			50-150	
13C2 PFDoA	44.3	30.9	70			50-150	
13C2 PFTeDA	44.3	27.8	63			50-150	
13C3 PFBS	41.2	33.8	82			50-150	
18O2 PFHxS	41.9	33.3	79			50-150	
13C4 PFOS	42.4	33.0	78			50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	35.5	33.2	94	4	20	40-160	

Column to be used to flag recovery and RPD values

FORM III 537 (modified)

FORM III
LCMS MATRIX SPIKE DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Matrix: Water Level: Low Lab File ID: PA200924B12.d
 Lab ID: 480-175175-1 MSD Client ID: CC-MW-1 MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
N-ethylperfluorooctanesulfonam idoacetic acid (NEtFOSAA)	35.5	32.6	92	7	20	40-160	
d3-NMeFOSAA	44.3	32.6	74			50-150	
d5-NEtFOSAA	44.3	33.8	76			50-150	
6:2 FTS	33.6	34.4	102	3	30	40-160	
8:2 FTS	34.0	32.1	95	1	30	40-160	
M2-6:2 FTS	42.1	32.6	77			25-150	
M2-8:2 FTS	42.5	36.1	85			25-150	

Column to be used to flag recovery and RPD values
 FORM III 537 (modified)

FORM IV
LCMS METHOD BLANK SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Lab File ID: PA200924B02.d Lab Sample ID: MB 200-159139/1-A
 Matrix: Water Date Extracted: 09/24/2020 07:00
 Instrument ID: LC812 Date Analyzed: 09/24/2020 16:21
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-159139/2-A	PA200924B03 .d	09/24/2020 16:30
CC-MW-1	480-175175-1	PA200924B10 .d	09/24/2020 17:28
CC-MW-1 MS	480-175175-1 MS	PA200924B11 .d	09/24/2020 17:36
CC-MW-1 MSD	480-175175-1 MSD	PA200924B12 .d	09/24/2020 17:44
CC-MW-2	480-175175-2	PA200924B13 .d	09/24/2020 17:53
CC-MW-4	480-175175-5	PA200924B14 .d	09/24/2020 18:01
CC-EQUIPMENT BLANK	480-175175-7	PA200924B15 .d	09/24/2020 18:09

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Sample No.: ICIS 200-159115/8 Date Analyzed: 09/22/2020 19:55
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA200922ICAL08.d Heated Purge: (Y/N) N
 Calibration ID: 44168

	13PFOA					
	AREA #	RT #	#	RT #	#	RT #
INITIAL CALIBRATION MID-POINT	704481	3.46				
UPPER LIMIT	1056722	3.66				
LOWER LIMIT	352241	3.26				
LAB SAMPLE ID	CLIENT SAMPLE ID					
ICB 200-159115/11		946396	3.47			
ICV 200-159115/12		991256	3.47			
CCVL 200-159162/5		694170	3.45			
CCVIS 200-159162/6		712683	3.44			

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM VIII
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Sample No.: CCVIS 200-159162/6 Date Analyzed: 09/24/2020 12:05
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)
 Lab File ID (Standard): PA200924A06.d Heated Purge: (Y/N) N
 Calibration ID: 44168

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		712683	3.44				
UPPER LIMIT		1069025	3.64				
LOWER LIMIT		356342	3.24				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-159169/1		714624	3.45				
MB 200-159139/1-A		798370	3.45				
LCS 200-159139/2-A		741504	3.45				
480-175175-1	CC-MW-1	795784	3.45				
480-175175-1 MS	CC-MW-1 MS	749959	3.44				
480-175175-1 MSD	CC-MW-1 MSD	901993	3.45				
480-175175-2	CC-MW-2	811582	3.44				
480-175175-5	CC-MW-4	768130	3.44				
480-175175-7	CC-EQUIPMENT BLANK	695514	3.45				
CCV 200-159169/16		803272	3.45				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area
 RT Limit = $\pm$ 0.2 minutes of internal standard RT

Column used to flag values outside QC limits

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: CC-MW-1 Lab Sample ID: 480-175175-1

Matrix: Water Lab File ID: PA200924B10.d

Analysis Method: 537 (modified) Date Collected: 09/14/2020 14:35

Extraction Method: 3535 Date Extracted: 09/24/2020 07:00

Sample wt/vol: 276.6 (mL) Date Analyzed: 09/24/2020 17:28

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 159169 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.5	1.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	0.98
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.75
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.42
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.89
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.52
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.42
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.66
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.42
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.39
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.53
375-73-5	Perfluorobutanesulfonic acid (PFBS)	1.8		1.8	0.57
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.61
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.43
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.1	J	1.8	0.79
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.52
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.71
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.84
27619-97-2	6:2 FTS	ND		4.5	0.65
39108-34-4	8:2 FTS	ND		1.8	0.60

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-1 Lab Sample ID: 480-175175-1
 Matrix: Water Lab File ID: PA200924B10.d
 Analysis Method: 537 (modified) Date Collected: 09/14/2020 14:35
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 276.6(mL) Date Analyzed: 09/24/2020 17:28
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	80		25-150
STL00992	13C4 PFBA	92		25-150
STL01893	13C5 PFPeA	98		25-150
STL00993	13C2 PFHxA	99		50-150
STL01892	13C4 PFHpA	101		50-150
STL00990	13C4 PFOA	97		50-150
STL00995	13C5 PFNA	94		50-150
STL00996	13C2 PFDA	92		50-150
STL00997	13C2 PFUnA	92		50-150
STL00998	13C2 PFDoA	75		50-150
STL02116	13C2 PFTeDA	85		50-150
STL02337	13C3 PFBS	93		50-150
STL00994	18O2 PFHxS	98		50-150
STL00991	13C4 PFOS	93		50-150
STL02118	d3-NMeFOSAA	86		50-150
STL02117	d5-NEtFOSAA	87		50-150
STL02279	M2-6:2 FTS	91		25-150
STL02280	M2-8:2 FTS	104		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
 Lims ID: 480-175175-C-1-A
 Client ID: CC-MW-1
 Sample Type: Client
 Inject. Date: 24-Sep-2020 17:28:21 ALS Bottle#: 10 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-175175-C-1-A
 Misc. Info.: 200-0042936-010 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 08:49:58

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.990	1.981	0.009	0.577	1048106	1.15		91.9	5590	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.000	13243	0.0169			1.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.674	804523	1.23		98.4	3598	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	4347	0.006395			0.3	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.339	2.339	0.0	0.678	861899	1.08		93.1	125319	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.339	0.014	1.006	37159	0.0503	Target=2.07		41.8	M
298.90 > 99.00	2.353	2.339	0.014	1.006	19314		1.92(1.04-3.11)		25.2	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.640	2.653	-0.013	0.991	61	0.000589			2.6	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.665	2.653	0.012	0.773	74843	1.25		107	109	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.703	2.691	0.012	0.784	829924	1.23		98.6	4160	
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.703	2.703	0.0	0.876	2292	0.003454	Target=3.64		4.9	
349.00 > 99.00	2.703	2.703	0.0	0.876	795		2.88(1.82-5.46)		2.5	M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.818	2.810	0.008	0.817	79347	1.26		101	982	
D 11 18O2 PFHxS										
403.00 > 84.00	3.084	3.073	0.011	0.894	662727	1.16		98.1	4208	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.000	9798	0.0158	Target=4.60	18.3		M
399.00 > 99.00	3.084	3.073	0.011	1.000	3185		3.08(2.30-6.91)	6.4		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.073	0.011	0.894	772311	1.26		101	6219	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	1814	0.002930	Target=3.34	0.7		M
363.00 > 169.00	3.096	3.084	0.012	1.004	497		3.65(1.67-5.01)	3.1		M
77 DONA										M
377.00 > 251.00	3.123	3.115	0.008	0.830	539	0.000401	Target=2.44	2.5		M
377.00 > 85.00	3.131	3.115	0.016	0.832	389		1.39(1.22-3.67)	1.3		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.450	3.433	0.017	1.003	231	0.004158		7.2		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.441	0.0	0.997	82671	1.08		91.2	459	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	757487	1.21		96.7	4777	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.441	0.009		795784	1.25		2291		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.458	3.450	0.008	1.003	7951	0.0127	Target=2.29	2.5		M
413.00 > 169.00	3.450	3.450	0.0	1.000	5194		1.53(1.14-3.43)	9.4		M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.765	-0.001	1.091	521415	1.12		93.4	1675	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.662	3.765	-0.103	0.973	14087	0.0297	Target=7.10	35.5		M
499.00 > 99.00	3.764	3.765	-0.001	1.000	1403		10.04(3.55-10.64)	7.0		M
D 19 13C5 PFNA										
468.00 > 423.00	3.785	3.786	-0.001	1.097	620300	1.17		94.0	3452	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.911	3.922	-0.011	1.039	31	0.00007429		0.8		M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.082	-0.001	1.183	582478	1.15		92.0	3505	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.071	4.092	-0.021	0.995	39	0.001055		1.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.091	4.092	-0.001	1.186	111788	1.24		104	961	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.139	0.011	1.203	811814	0.99		79.6	2730	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.139	0.011	1.000	353	0.000581		1.2		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.224	0.001	1.225	30838	1.07		85.6	778	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.214	4.224	-0.010	0.998	40	0.001718		0.8		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.344	4.343	0.001	1.259	440631	1.15		92.2	7047	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.343	0.012	1.003	981	0.002822	Target=6.57		1.6	M
563.00 > 169.00	4.344	4.343	0.001	1.000	128		7.66(3.28-9.85)		3.8	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.263	33676	1.09		86.9	525	
66 11-Chloroeicosafluoro-3-oxaundec										M
631.00 > 451.00	4.423	4.433	-0.010	1.175	111	0.000308			3.5	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	380470	0.9415		75.3	4694	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.978	0.001	1.443	304390	1.06		84.6	4517	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.997	4.978	0.019	1.004	172	0.003084	Target=1.06		4.3	M
713.00 > 219.00	4.988	4.978	0.010	1.002	142		1.21(0.53-1.59)		5.0	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.340	5.350	-0.010	1.548	385902	1.18		94.6	3851	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.351	5.350	0.001	1.002	3132	-0.0117	Target=3.06		3.2	
813.00 > 169.00	5.351	5.350	0.001	1.002	1427		2.19(1.53-4.58)		65.7	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d

Injection Date: 24-Sep-2020 17:28:21

Instrument ID: LC812

Lims ID: 480-175175-C-1-A

Lab Sample ID: 200-175175-1

Client ID: CC-MW-1

Operator ID: lc812tech

ALS Bottle#: 10

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

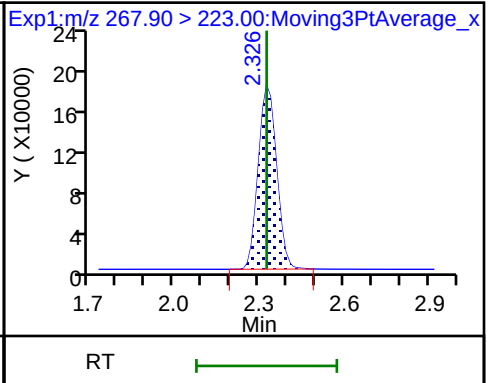
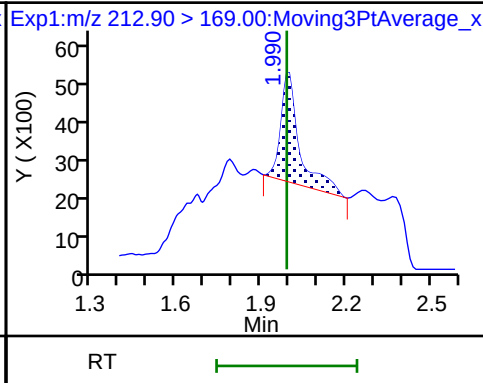
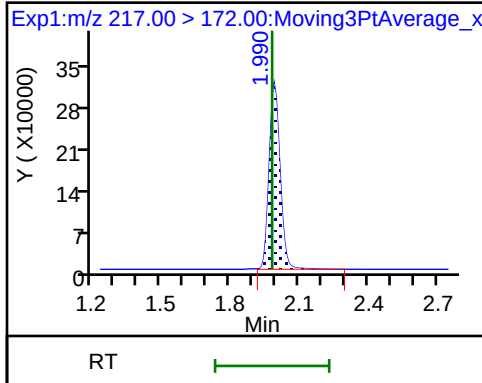
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

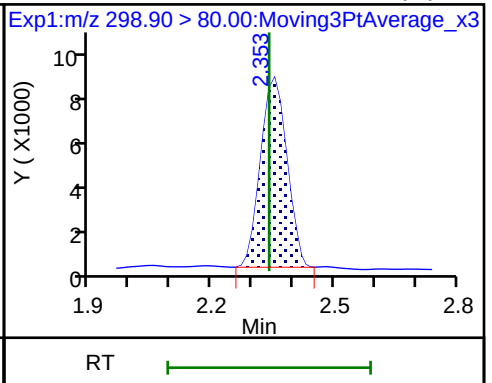
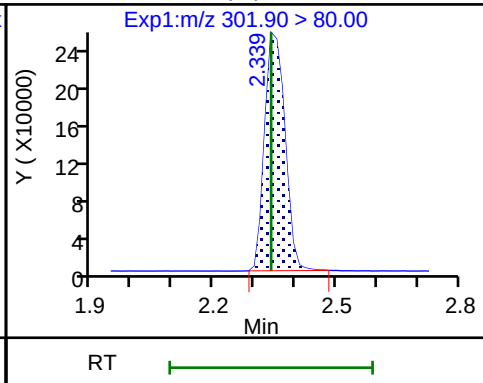
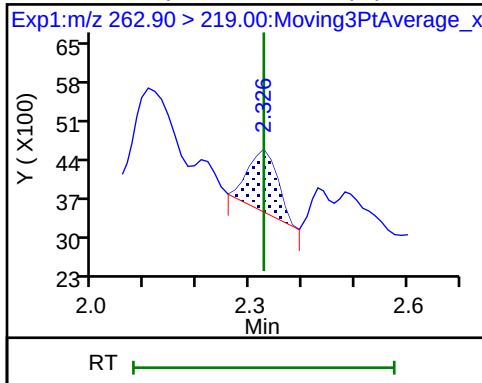
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

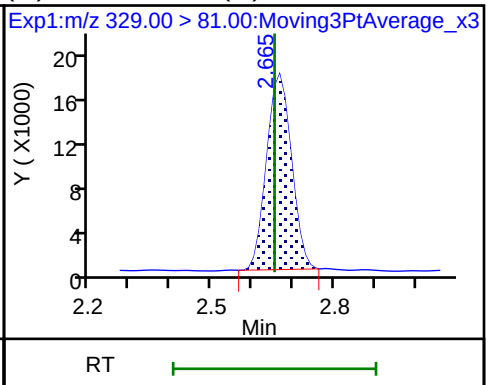
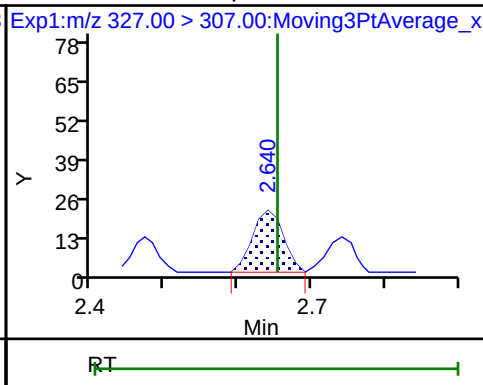
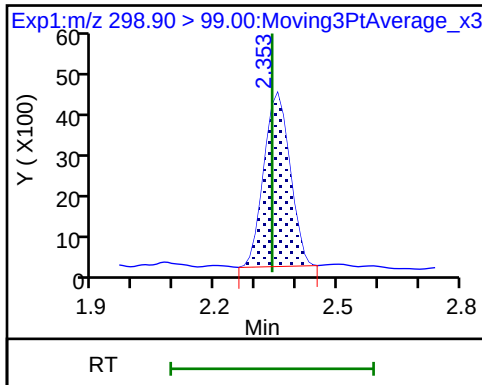
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo (M)

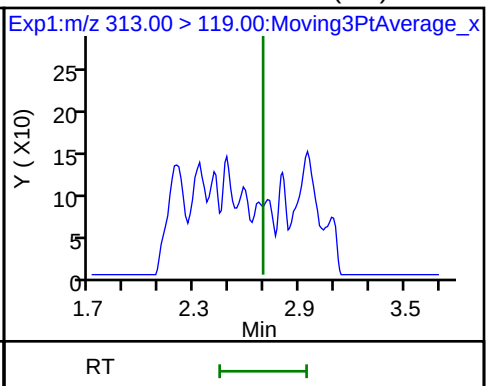
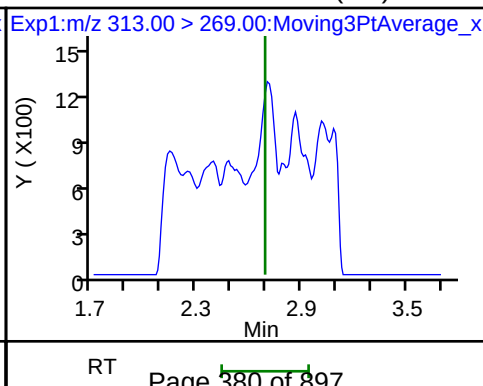
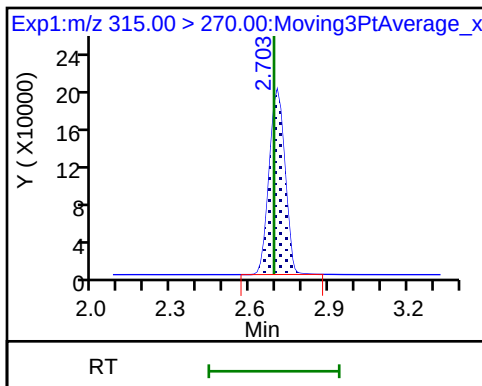
D 50 M2-4:2 FTS (M)



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (ND)

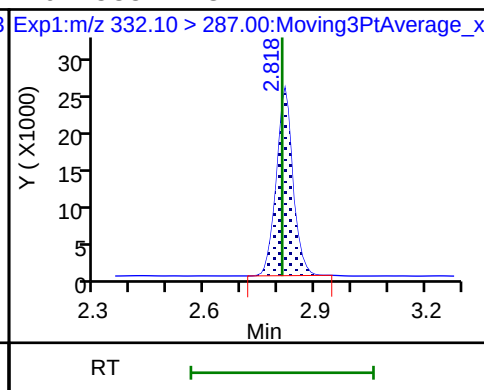
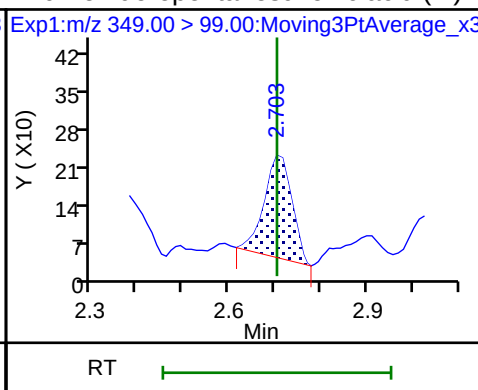
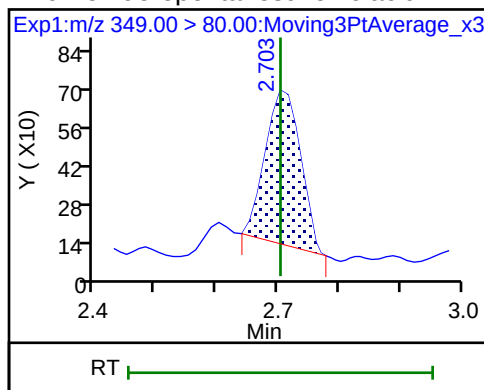
6 Perfluorohexanoic acid (ND)



70 Perfluoropentanesulfonic acid

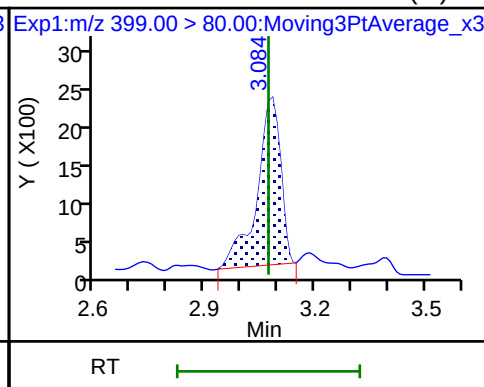
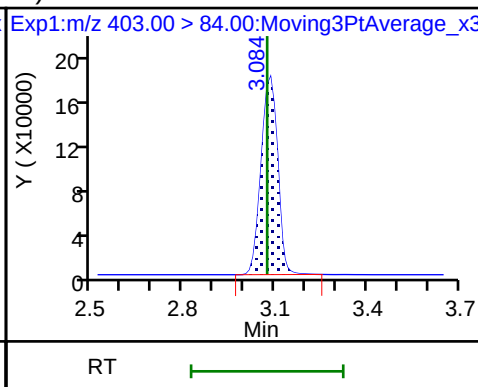
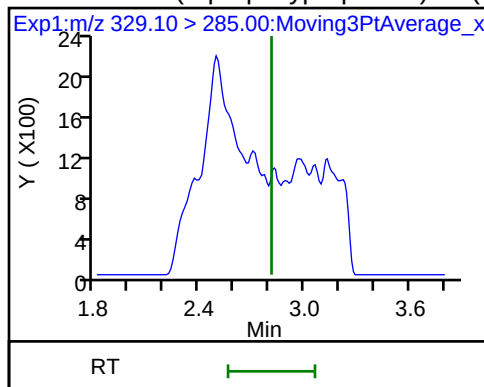
70 Perfluoropentanesulfonic acid (M)

D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (ND)11 18O2 PFHxS

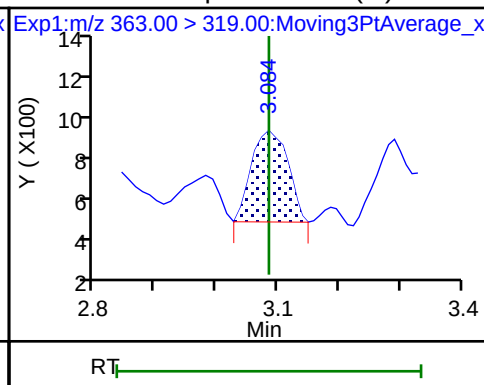
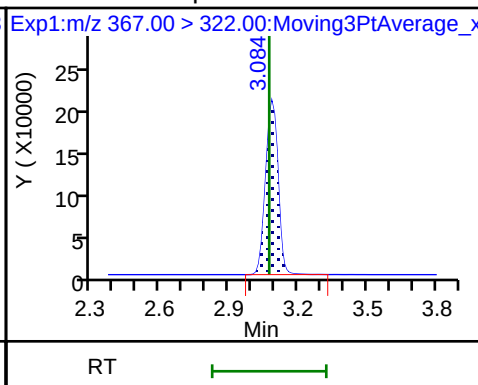
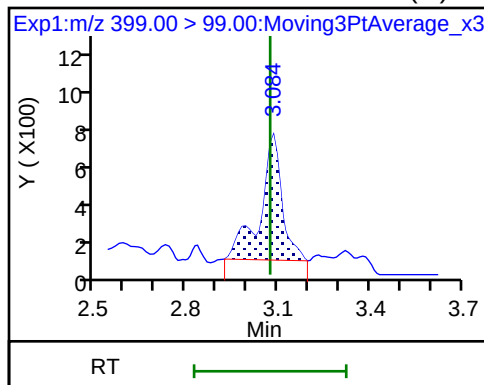
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

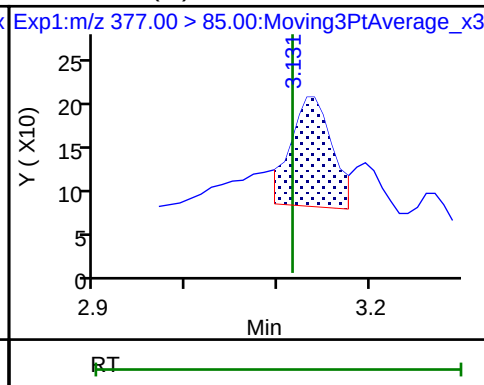
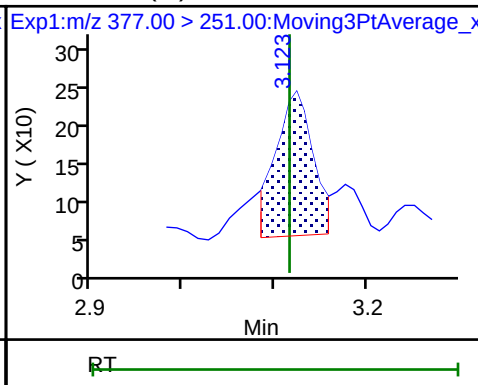
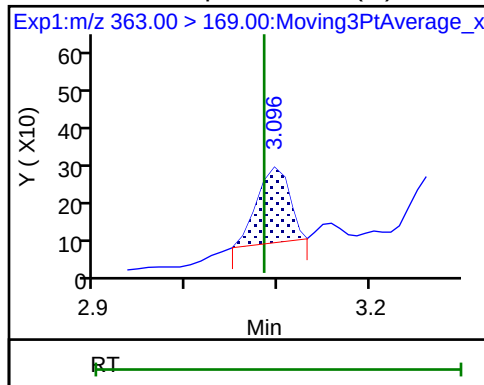
10 Perfluoroheptanoic acid (M)



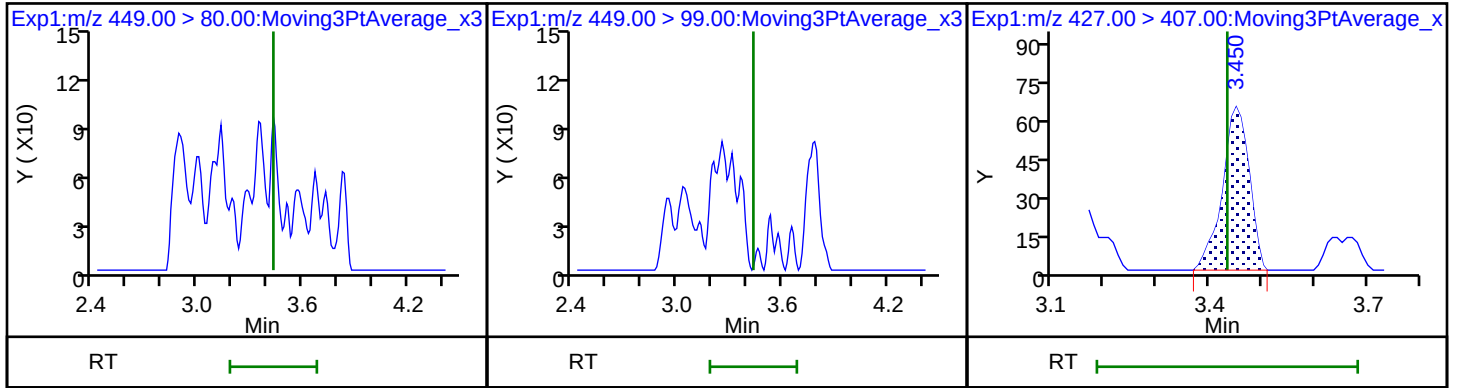
10 Perfluoroheptanoic acid (M)

77 DONA (M)

77 DONA (M)



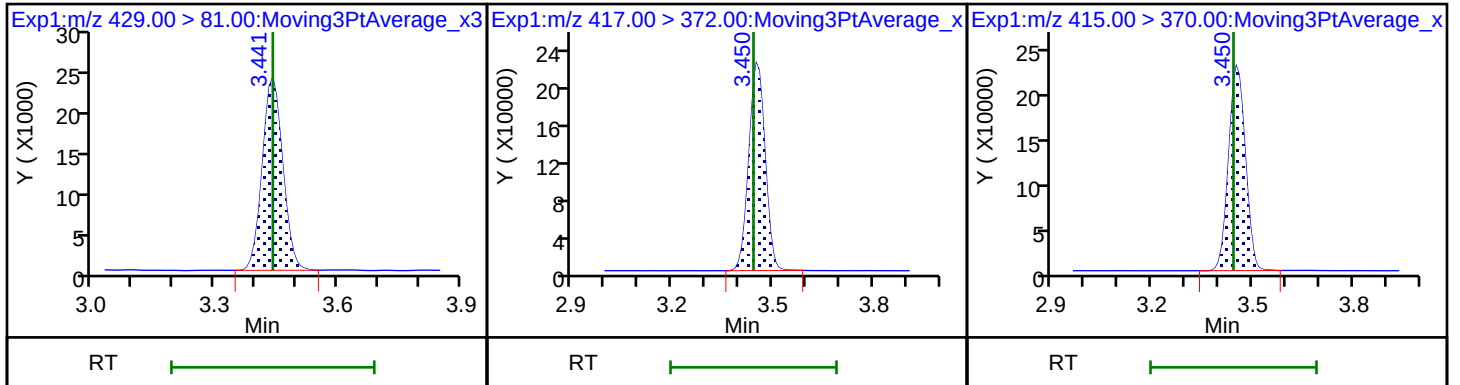
16 Perfluoroheptanesulfonic acid (ND) 16 Perfluoroheptanesulfonic acid (ND) 13 1H,1H,2H,2H-perfluorooctanesulfo (M)



D 12 M2-6:2 FTS

D 14 13C4 PFOA

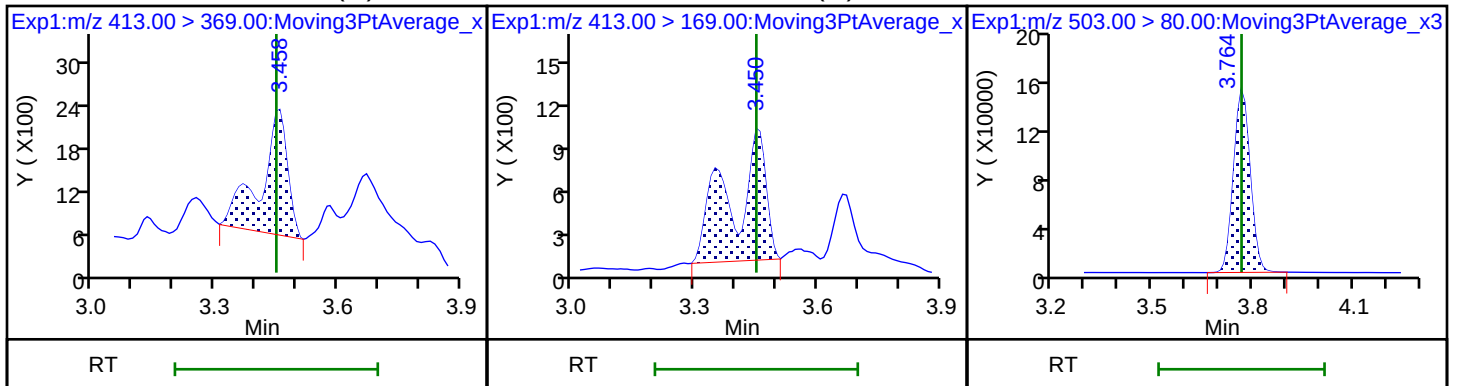
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

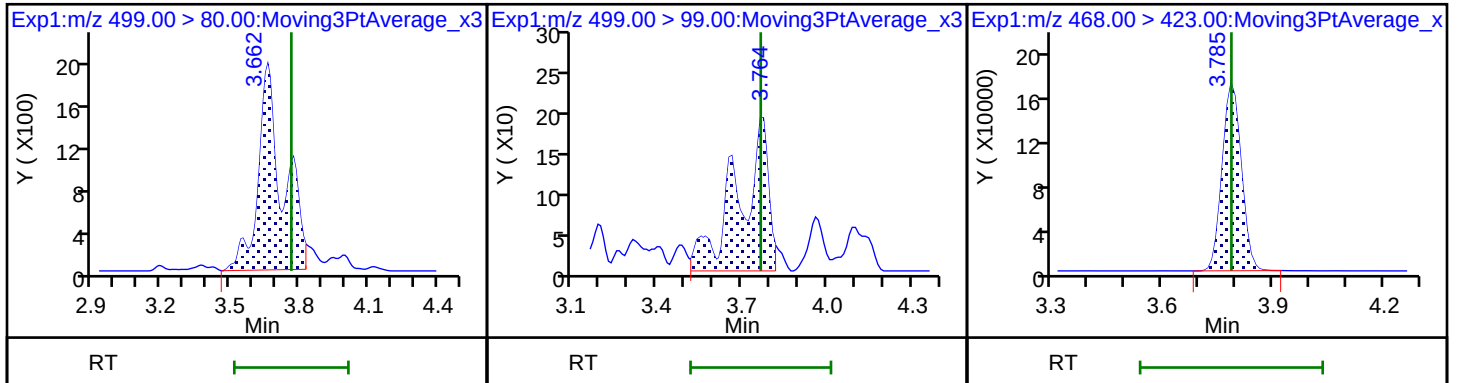
D 18 13C4 PFOS

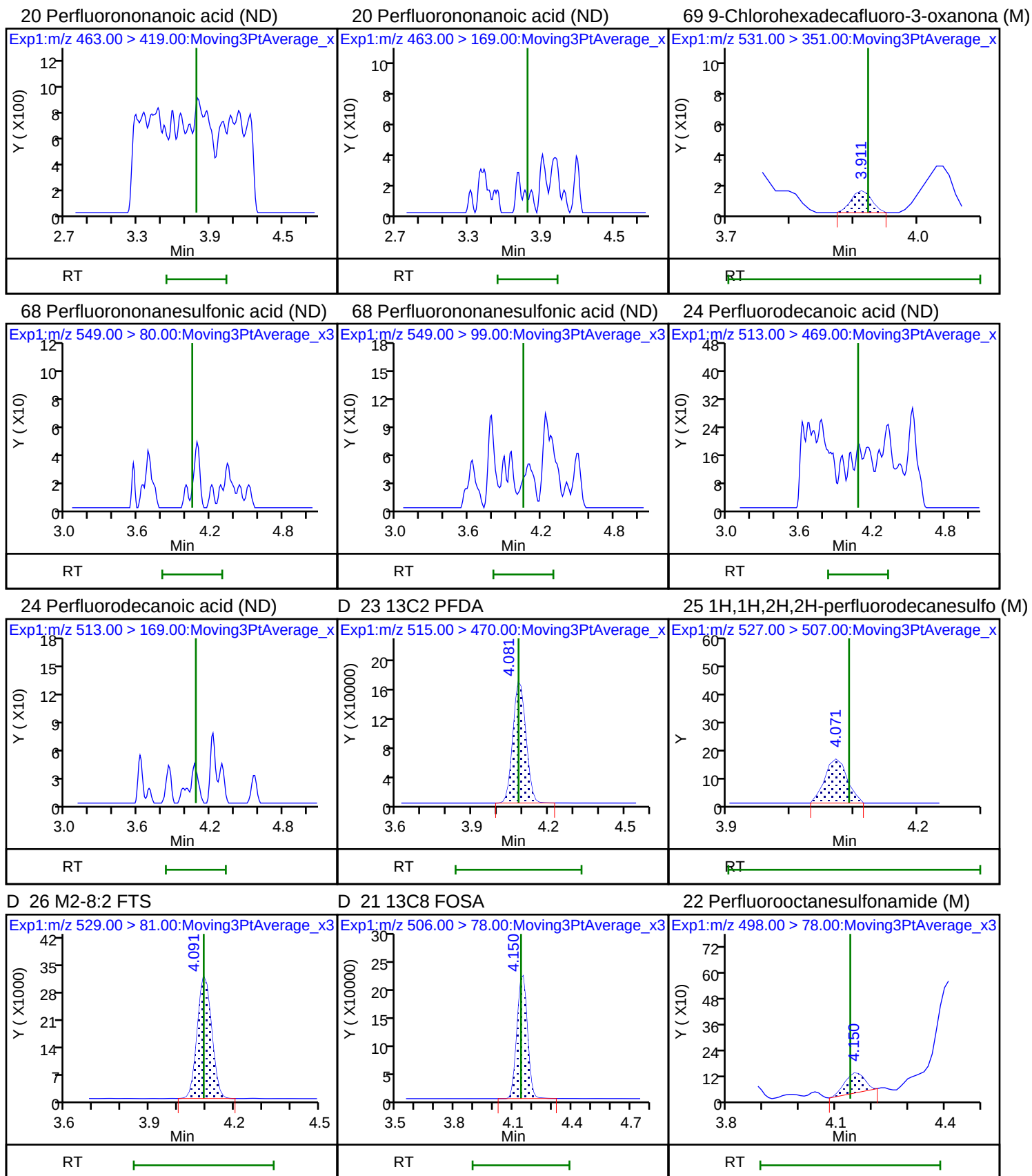


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

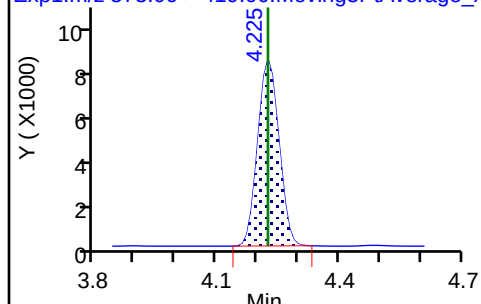




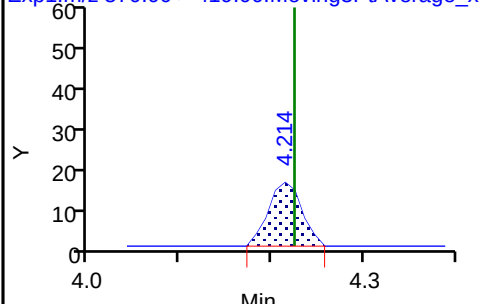
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (ND)

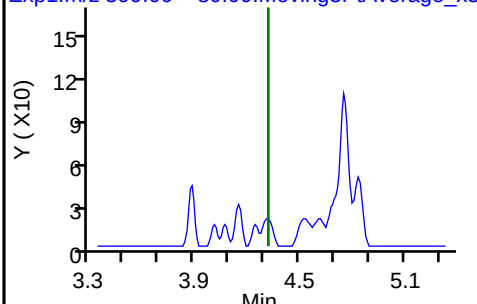
Exp1:m/z 573.00 > 419.00:Moving3PtAverage_x3



Exp1:m/z 570.00 > 419.00:Moving3PtAverage_x3



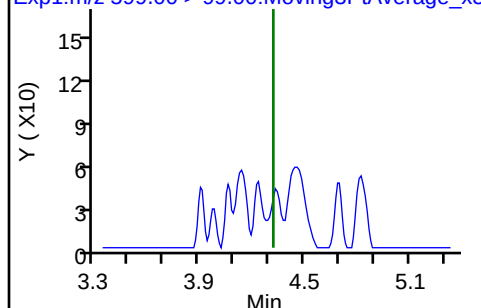
Exp1:m/z 599.00 > 80.00:Moving3PtAverage_x3



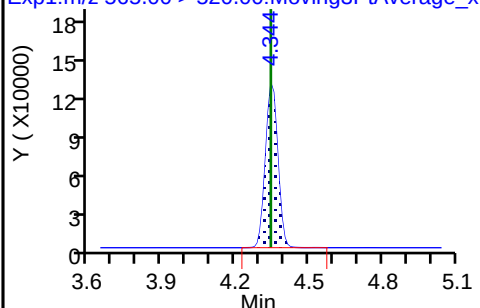
29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA

31 Perfluoroundecanoic acid (M)

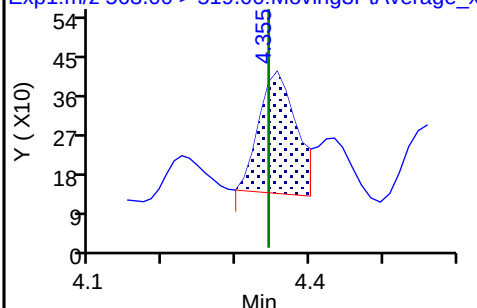
Exp1:m/z 599.00 > 99.00:Moving3PtAverage_x3



Exp1:m/z 565.00 > 520.00:Moving3PtAverage_x3



Exp1:m/z 563.00 > 519.00:Moving3PtAverage_x3

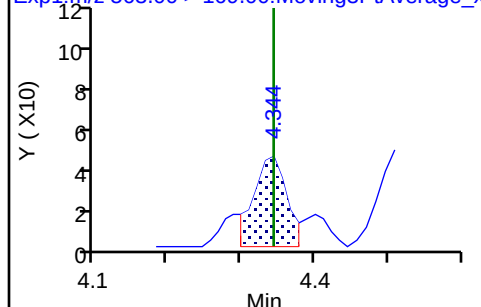


31 Perfluoroundecanoic acid (M)

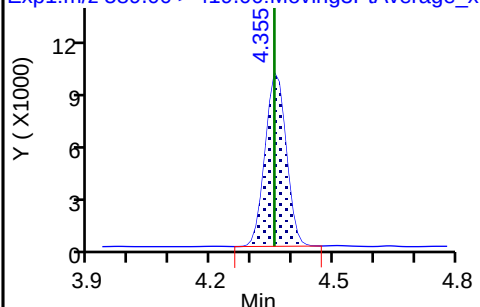
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid (ND)

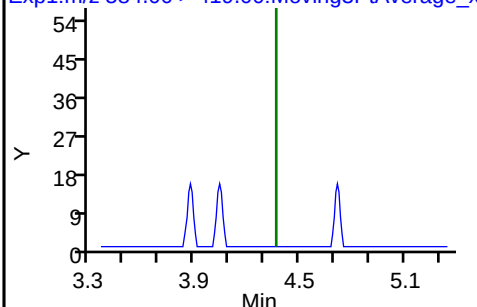
Exp1:m/z 563.00 > 169.00:Moving3PtAverage_x3



Exp1:m/z 589.00 > 419.00:Moving3PtAverage_x3



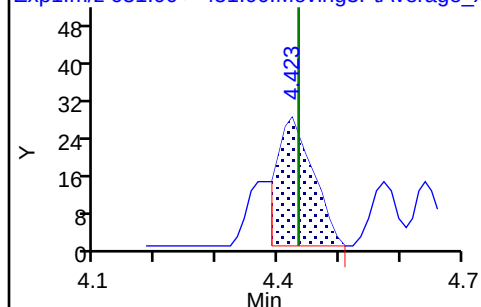
Exp1:m/z 584.00 > 419.00:Moving3PtAverage_x3



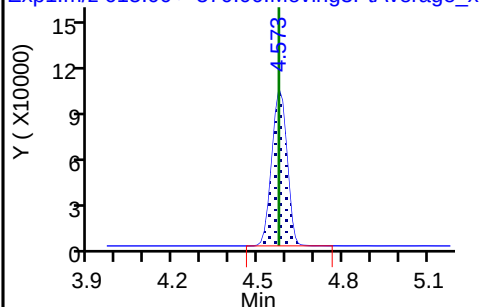
66 11-Chloroeicosafluoro-3-oxaundec (M) 36 13C2 PFDaA

37 Perfluorododecanoic acid (ND)

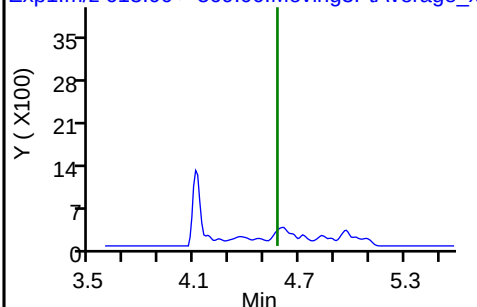
Exp1:m/z 631.00 > 451.00:Moving3PtAverage_x3



Exp1:m/z 615.00 > 570.00:Moving3PtAverage_x3



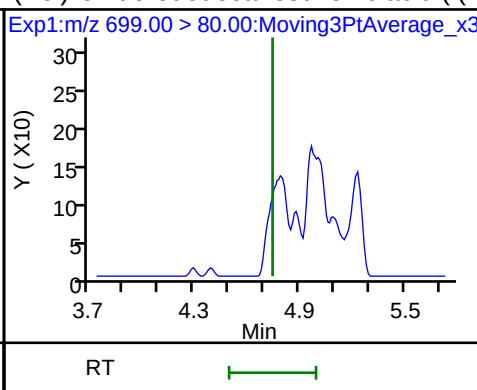
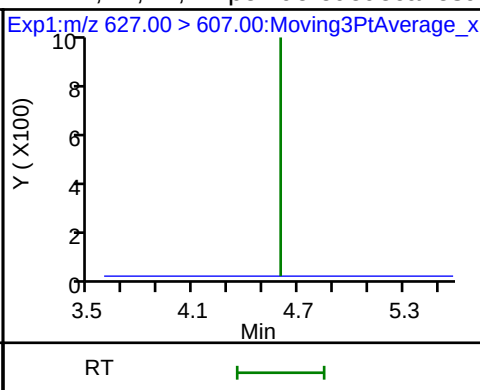
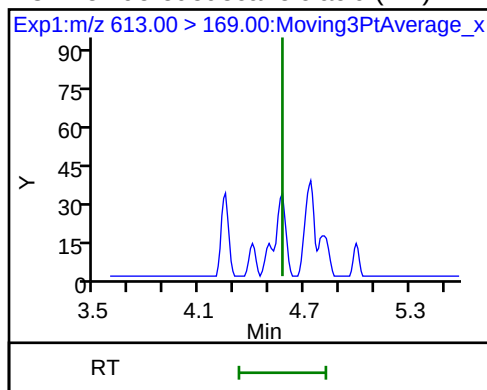
Exp1:m/z 613.00 > 569.00:Moving3PtAverage_x3



37 Perfluorododecanoic acid (ND)

74 1H,1H,2H,2H-perfluorododecanesul (ND)

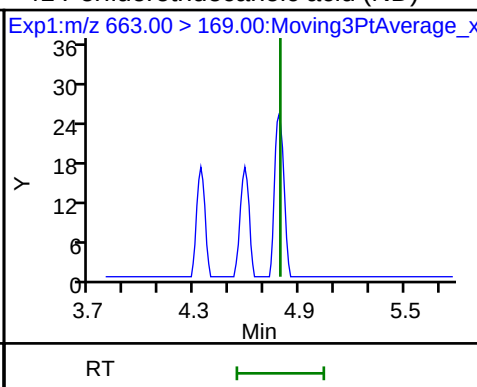
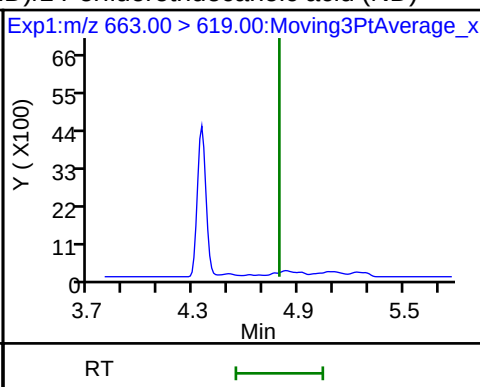
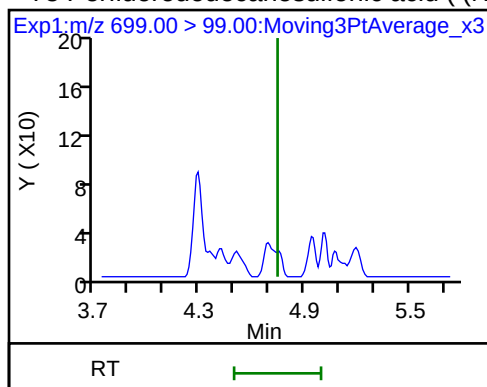
15 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND)

41 Perfluorotridecanoic acid (ND)

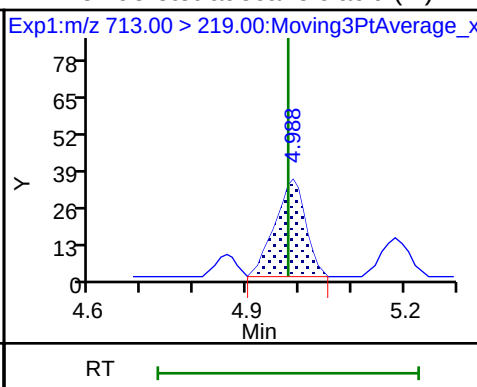
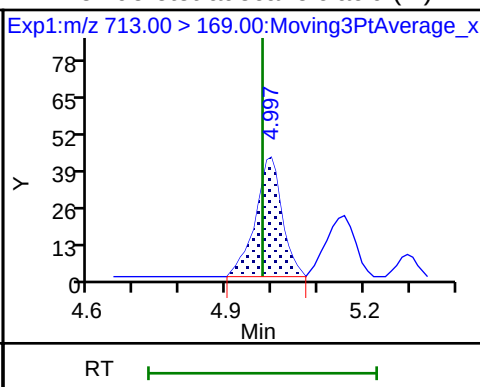
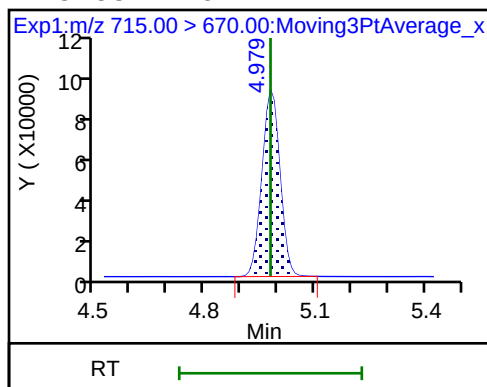
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

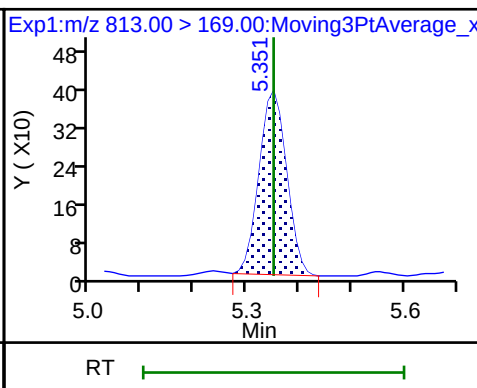
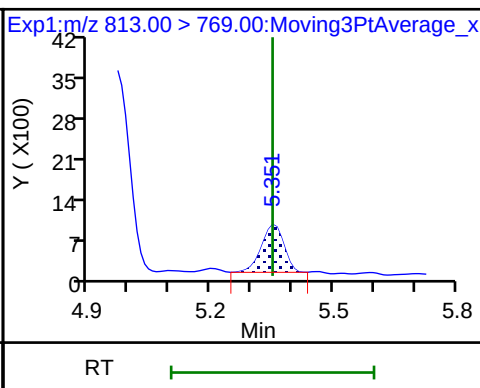
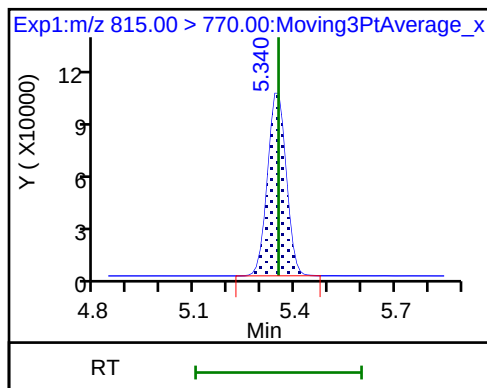
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

45 Perfluorohexadecanoic acid

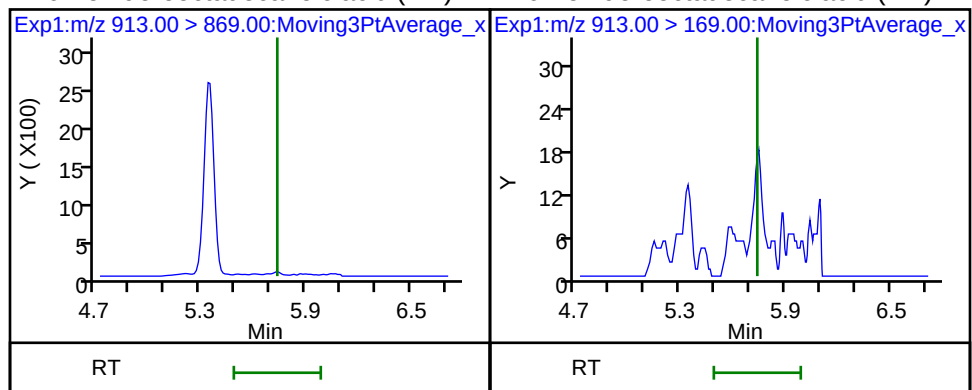
45 Perfluorohexadecanoic acid



Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d

46 Perfluorooctadecanoic acid (ND)

46 Perfluorooctadecanoic acid (ND)



Eurofins TestAmerica, Burlington

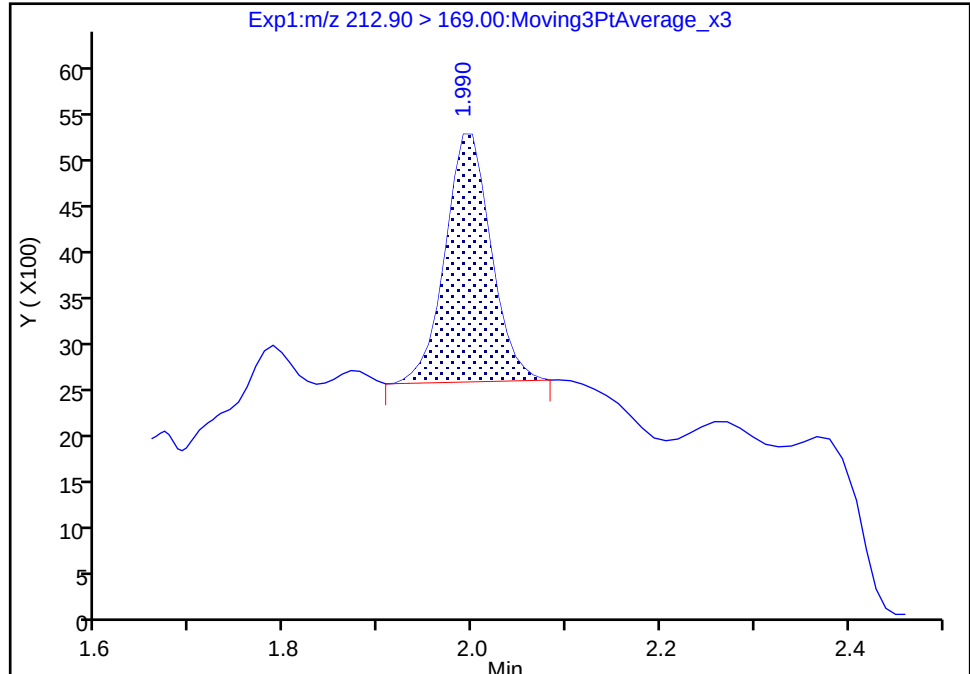
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

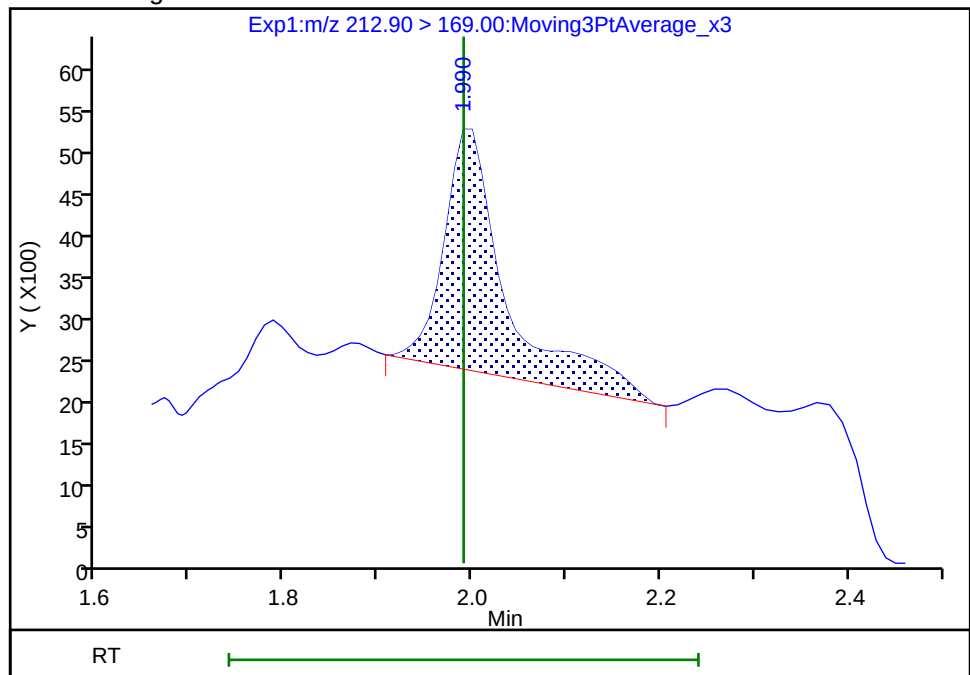
RT: 1.99
Area: 9055
Amount: 0.011553
Amount Units: ng/ml

Processing Integration Results



RT: 1.99
Area: 13243
Amount: 0.016897
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:36:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

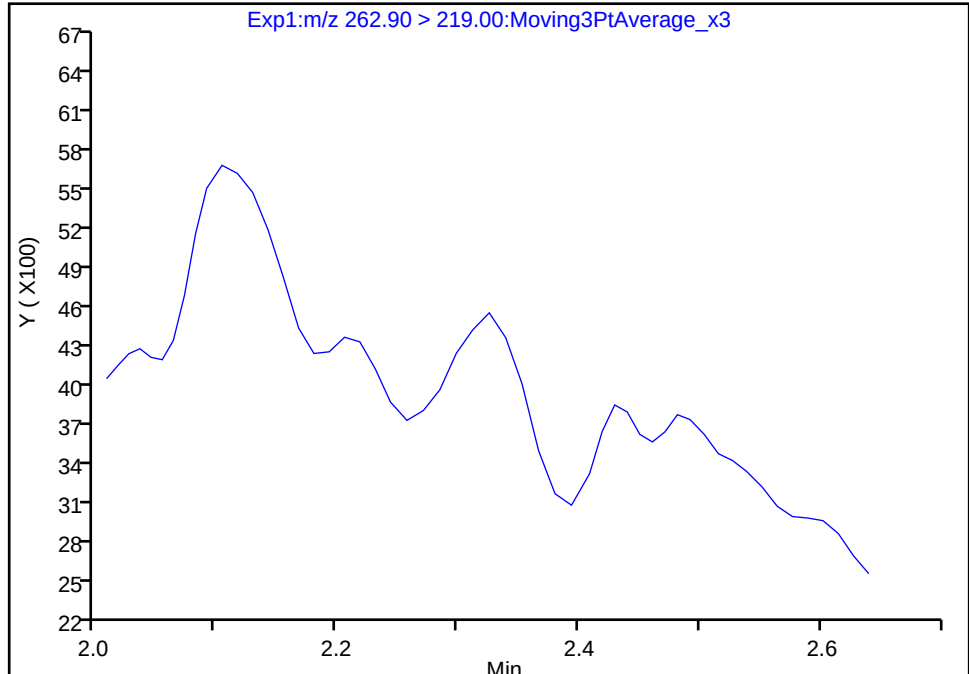
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d		
Injection Date:	24-Sep-2020 17:28:21	Instrument ID:	LC812
Lims ID:	480-175175-C-1-A	Lab Sample ID:	200-175175-1
Client ID:	CC-MW-1		
Operator ID:	lc812tech	ALS Bottle#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	10

4 Perfluoropentanoic acid, CAS: 2706-90-3

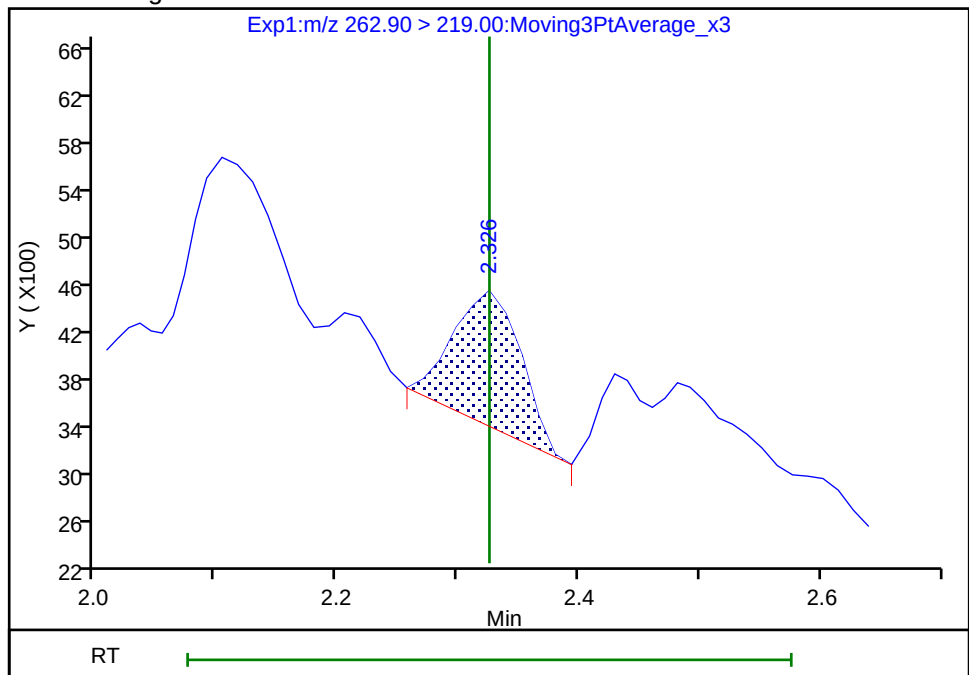
Signal: 1

Not Detected
Expected RT: 2.33

Processing Integration Results



Manual Integration Results

RT: 2.33
Area: 4347
Amount: 0.006395
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:46:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

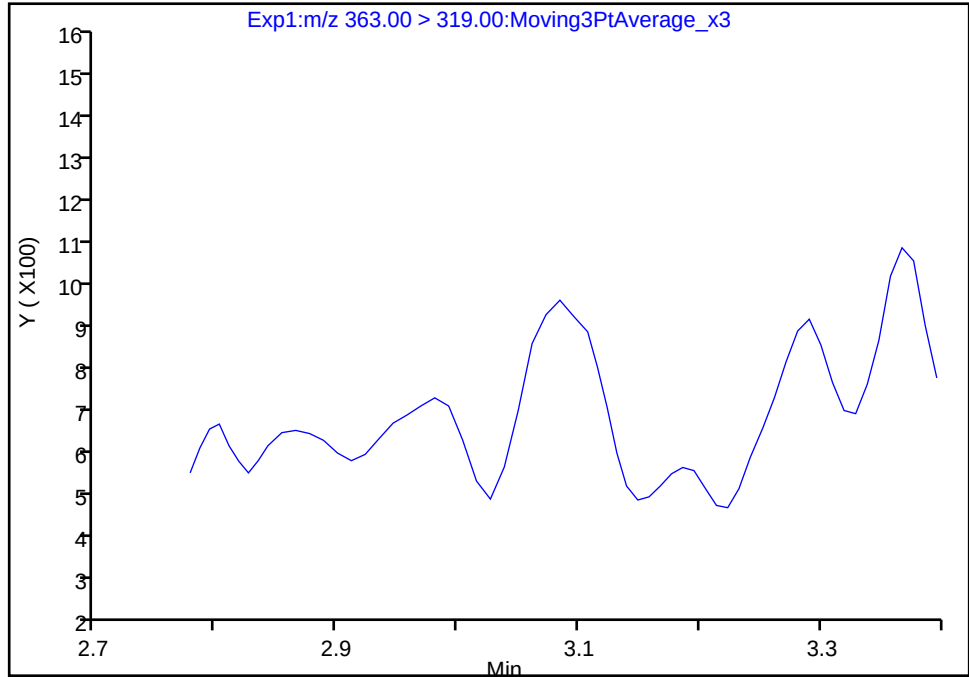
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

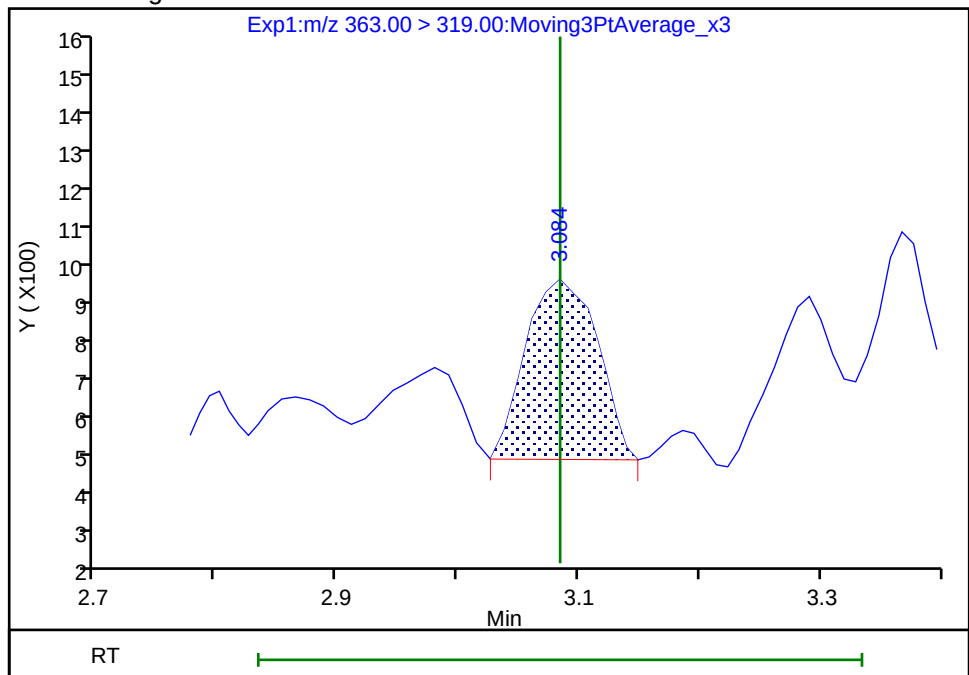
Signal: 1

Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:47:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

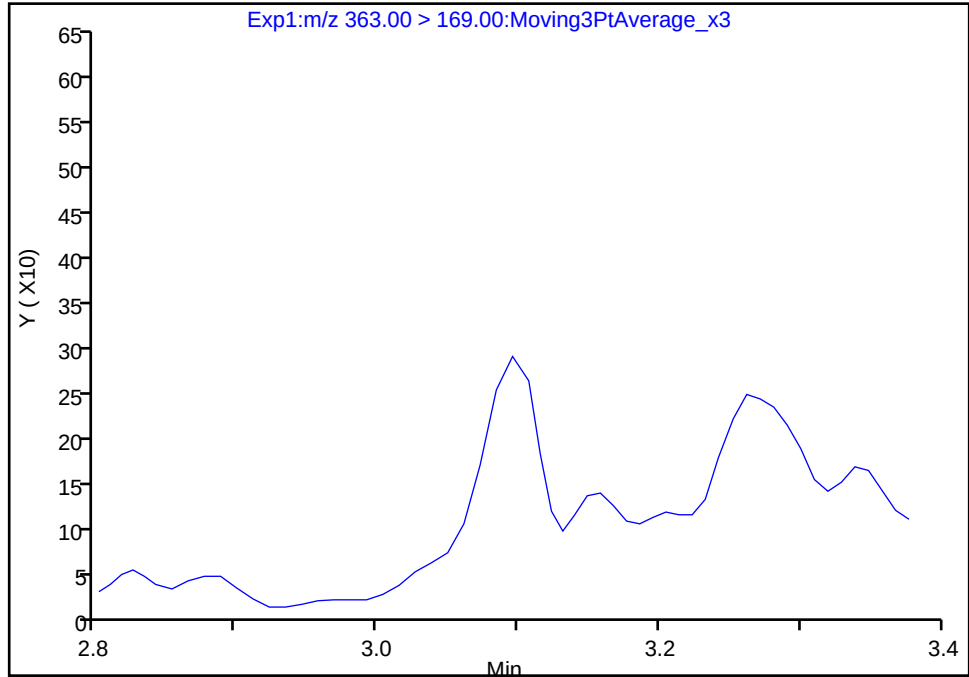
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

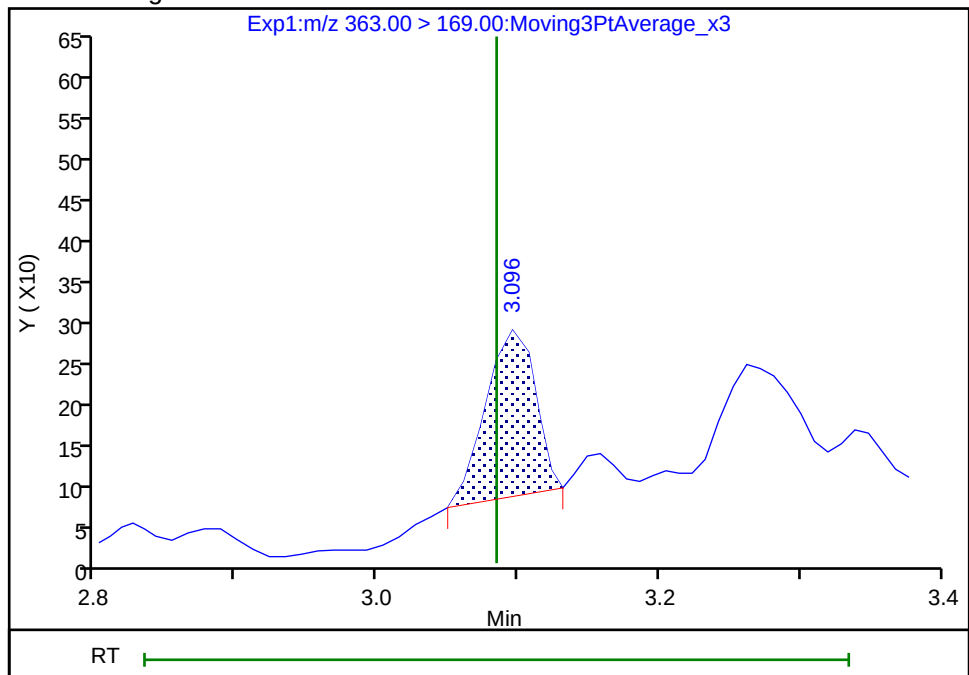
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 497
Amount: 0.002930
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:47:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

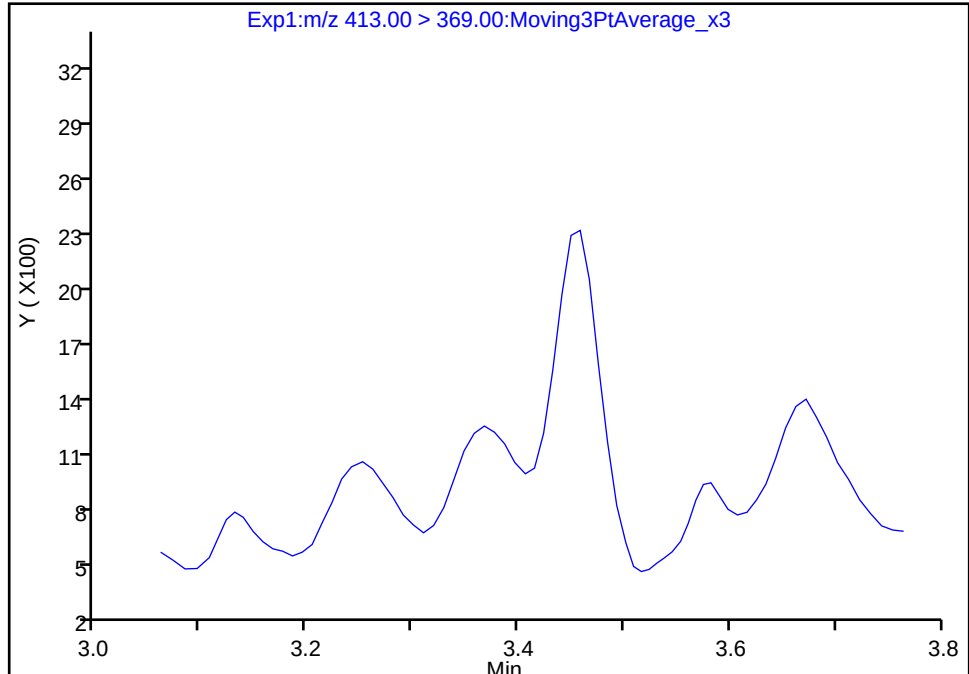
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

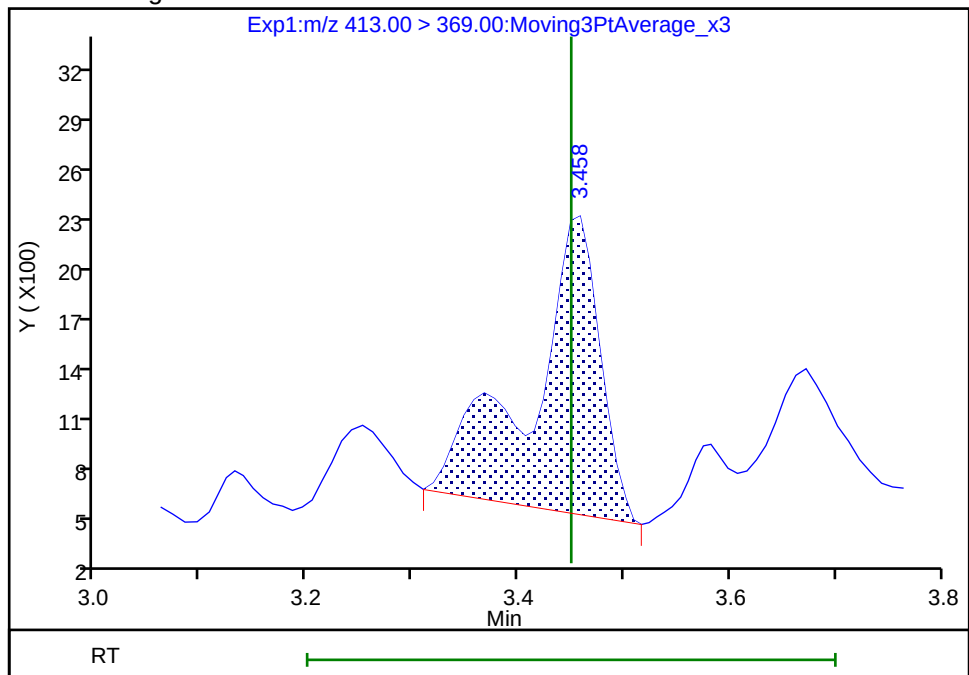
Not Detected
Expected RT: 3.45

Processing Integration Results



RT: 3.46
Area: 7951
Amount: 0.012709
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:47:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

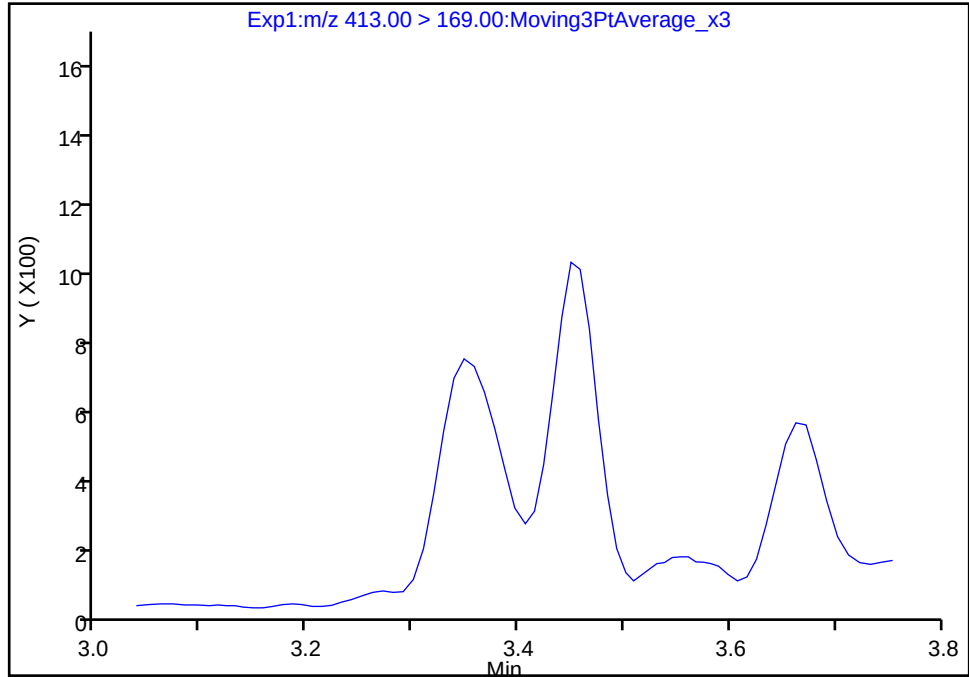
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

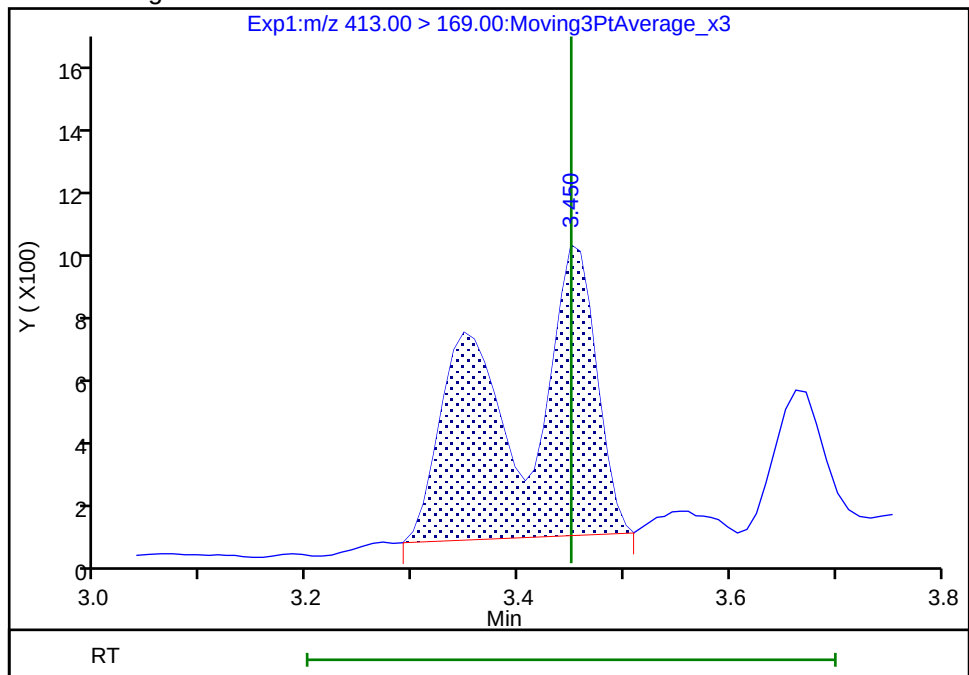
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 5194
Amount: 0.012709
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:47:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

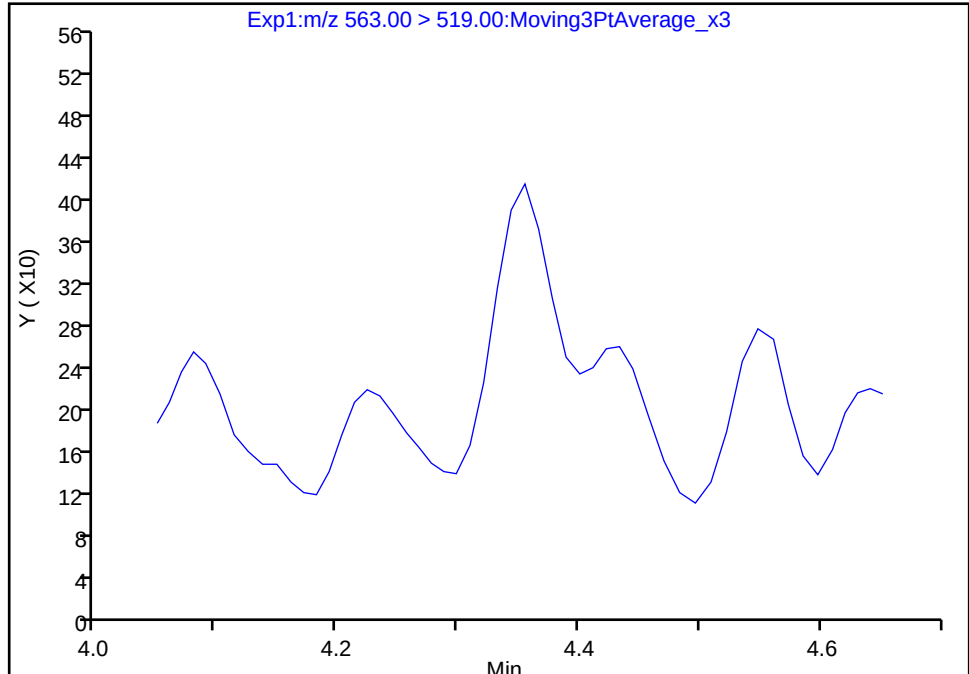
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

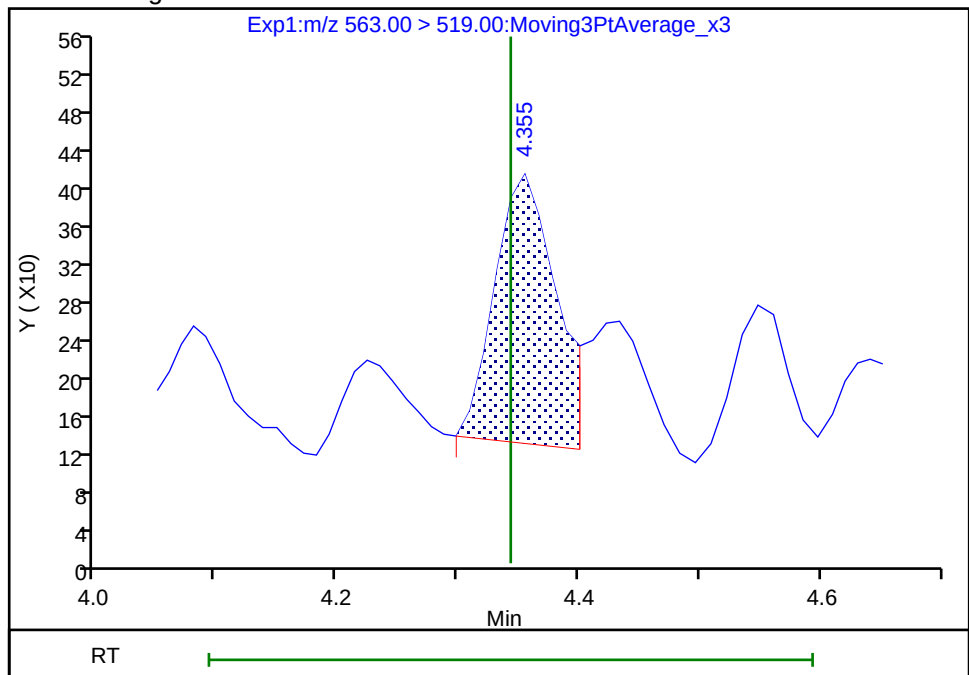
Signal: 1

Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:49:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

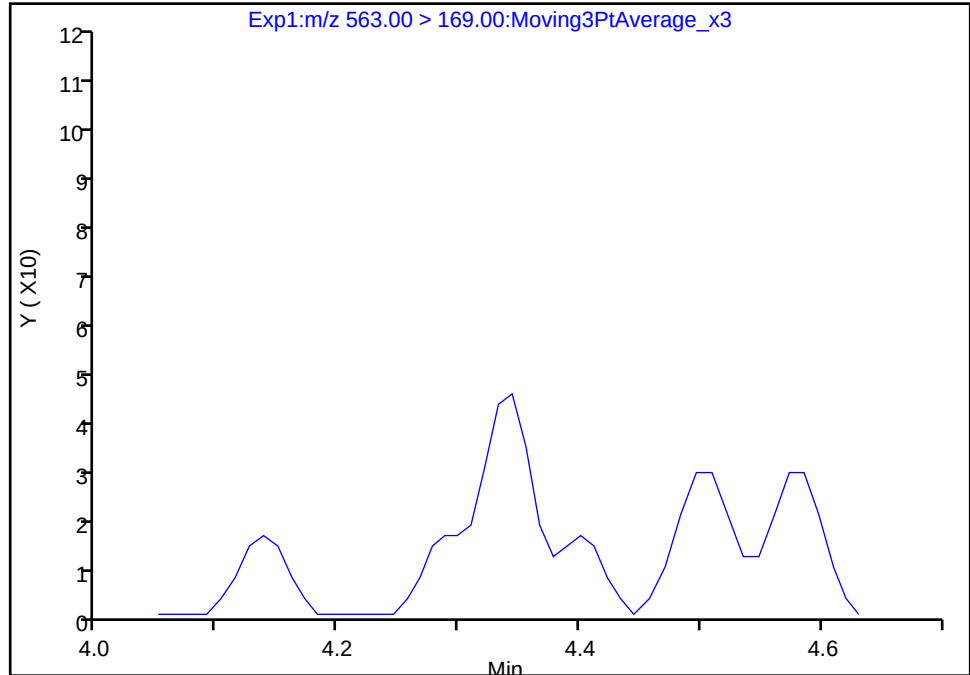
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

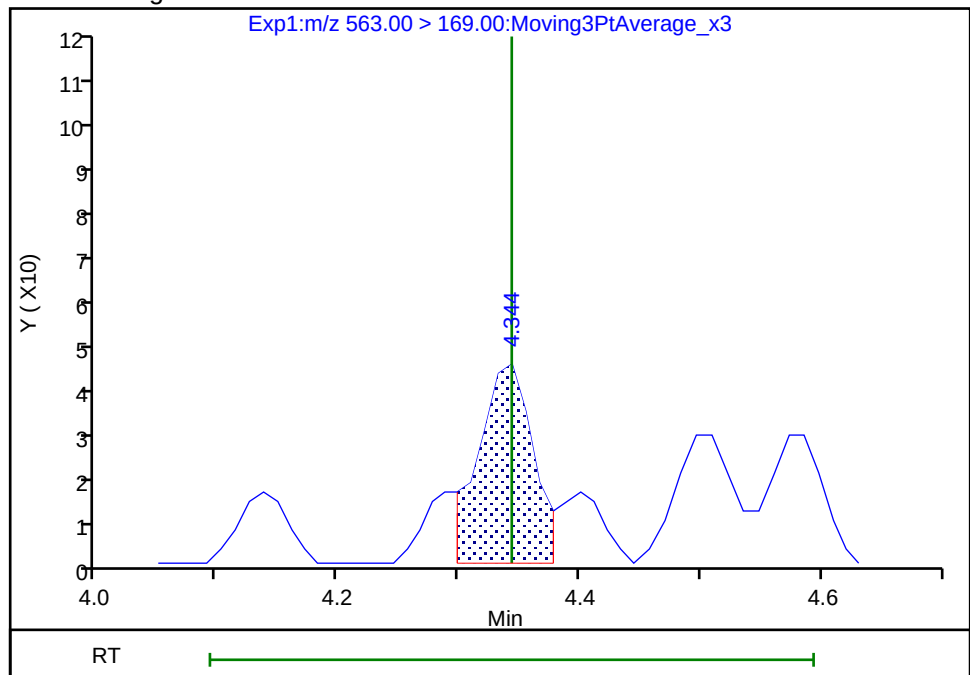
Signal: 2

Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results



RT: 4.34
Area: 128
Amount: 0.002822
Amount Units: ng/ml

Reviewer: chirgwinb, 25-Sep-2020 10:34:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

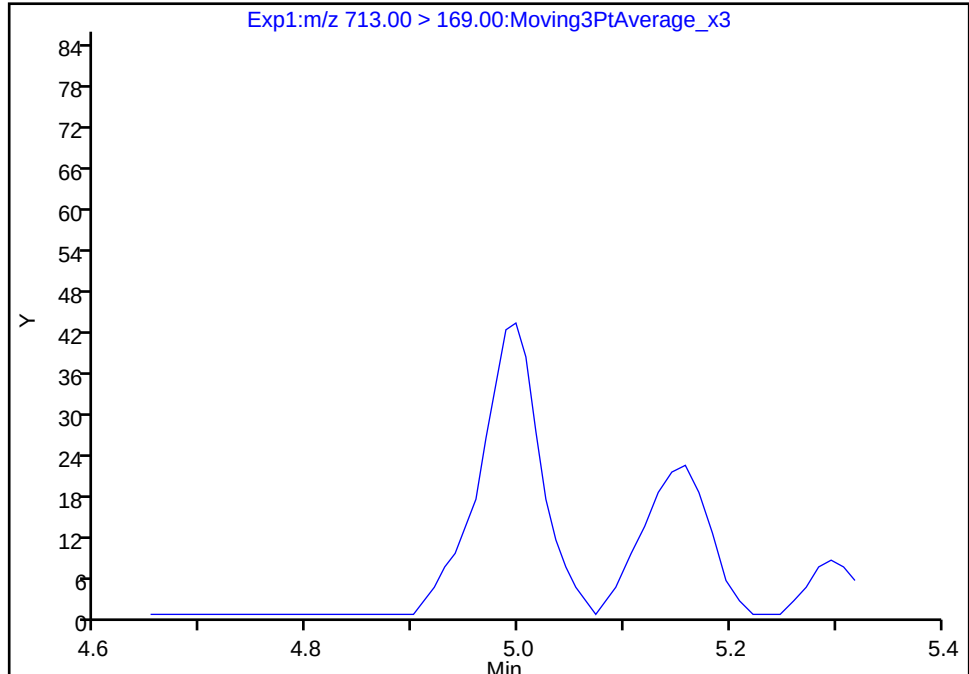
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

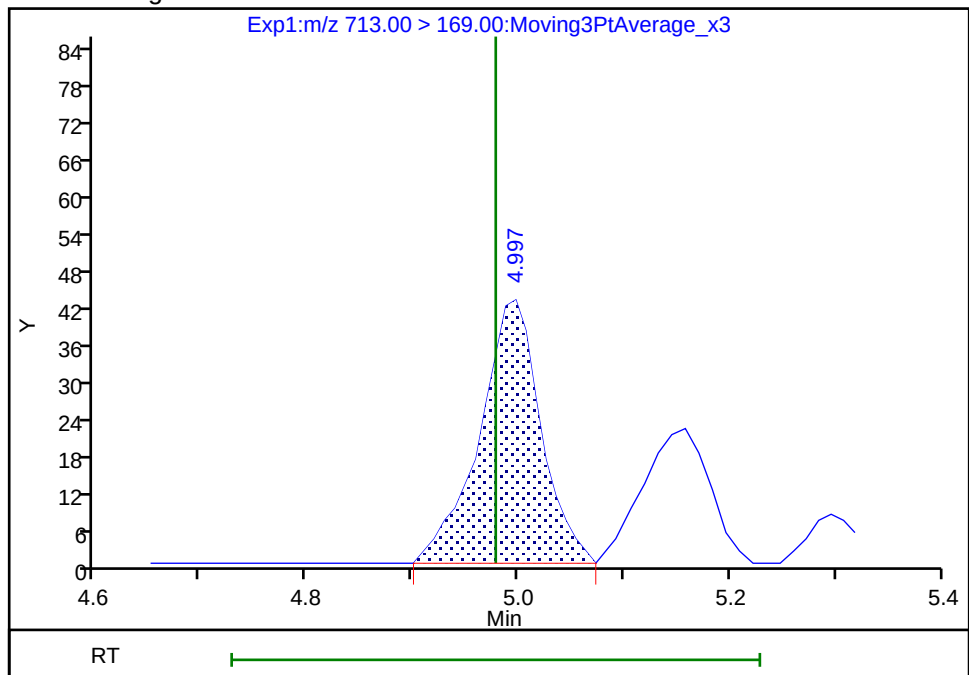
Not Detected
Expected RT: 4.98

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 172
Amount: 0.003084
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:49:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

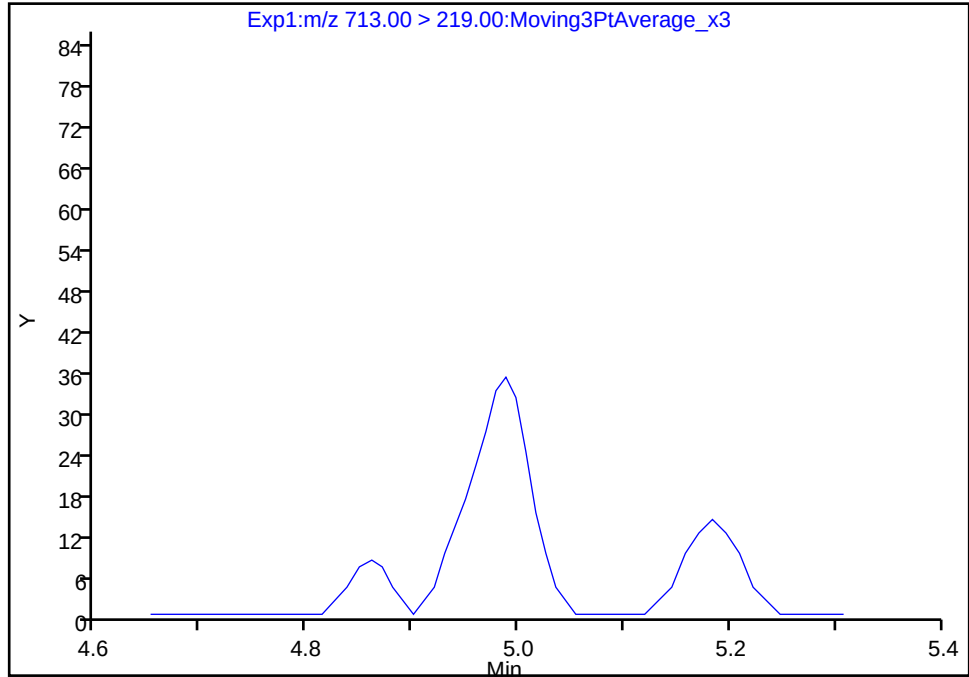
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

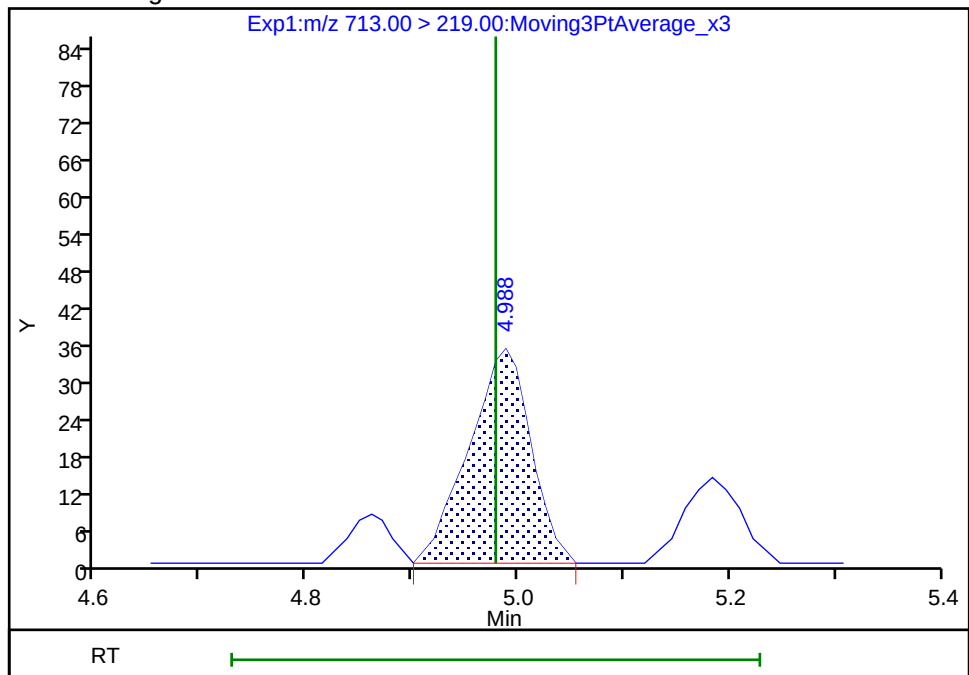
Signal: 2

Not Detected
Expected RT: 4.98

Processing Integration Results



Manual Integration Results



RT: 4.99
Area: 142
Amount: 0.003084
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:49:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

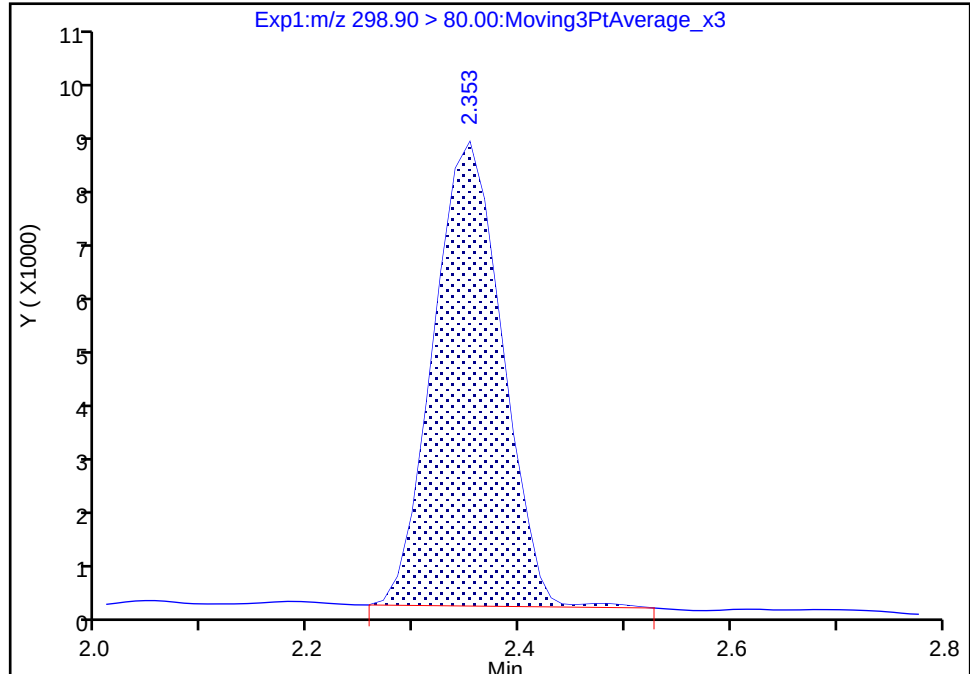
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d		
Injection Date:	24-Sep-2020 17:28:21	Instrument ID:	LC812
Lims ID:	480-175175-C-1-A	Lab Sample ID:	200-175175-1
Client ID:	CC-MW-1		
Operator ID:	lc812tech	ALS Bottle#:	10
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	10

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

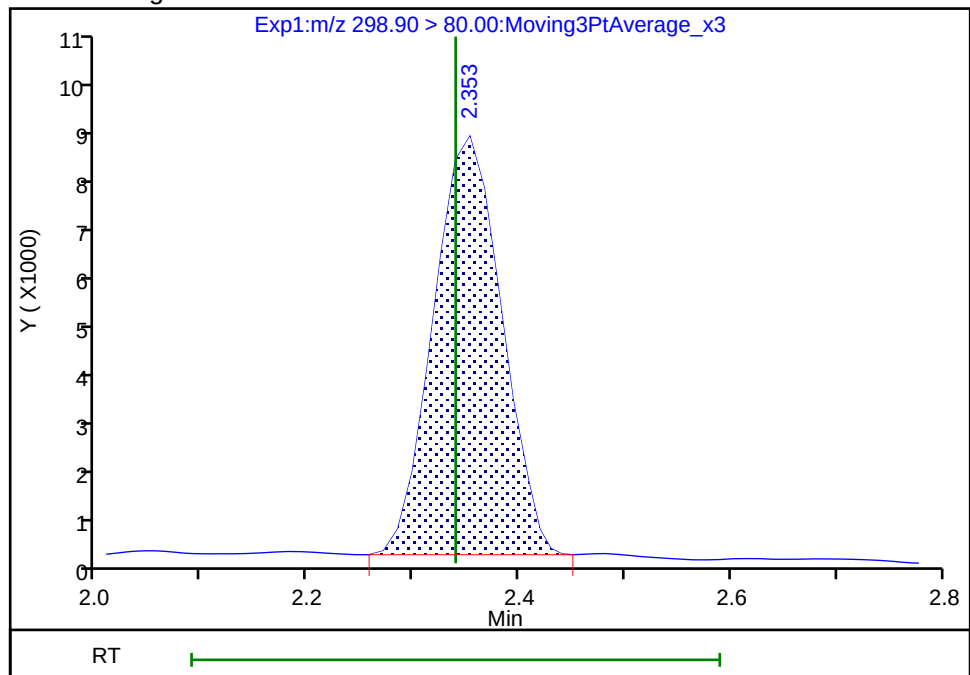
RT: 2.35
Area: 37580
Amount: 0.050869
Amount Units: ng/ml

Processing Integration Results



RT: 2.35
Area: 37159
Amount: 0.050299
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:46:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

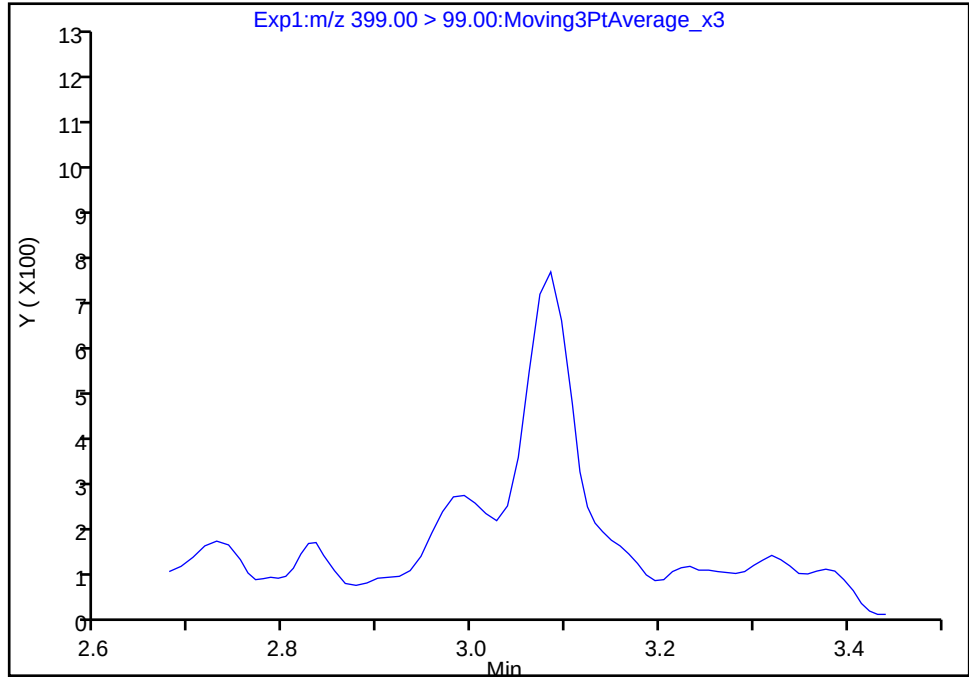
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

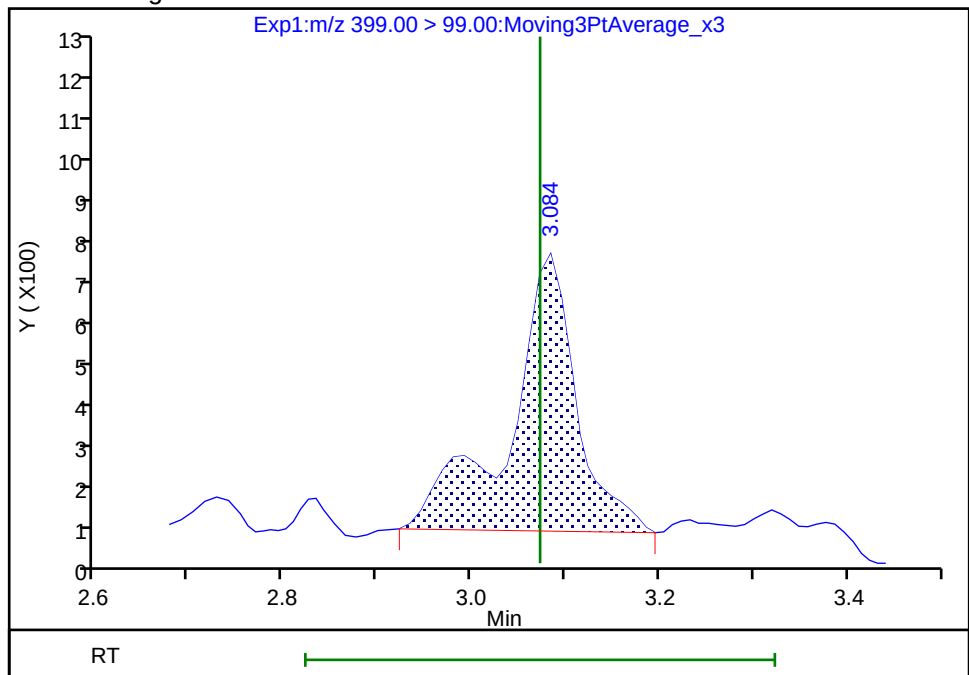
Signal: 2

Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results



RT: 3.08
Area: 3185
Amount: 0.015830
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:46:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

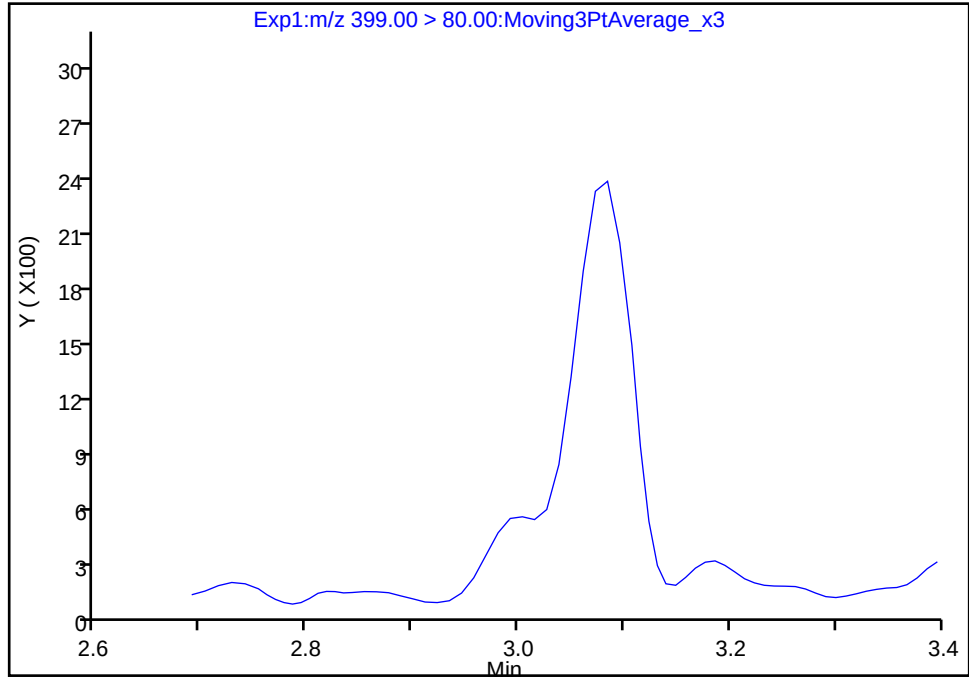
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

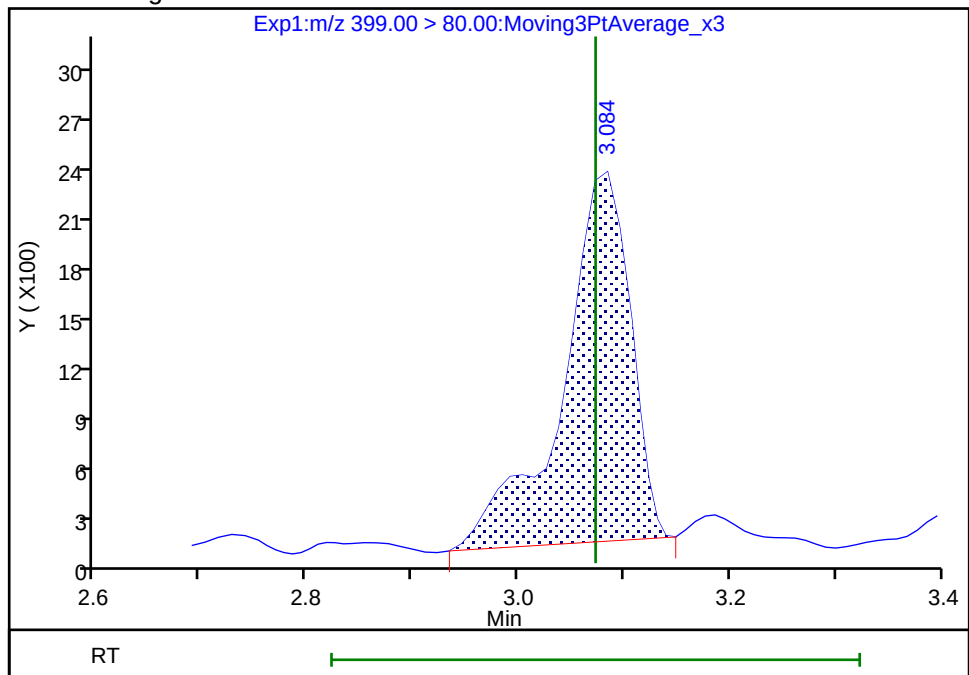
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 9798
Amount: 0.015830
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:46:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

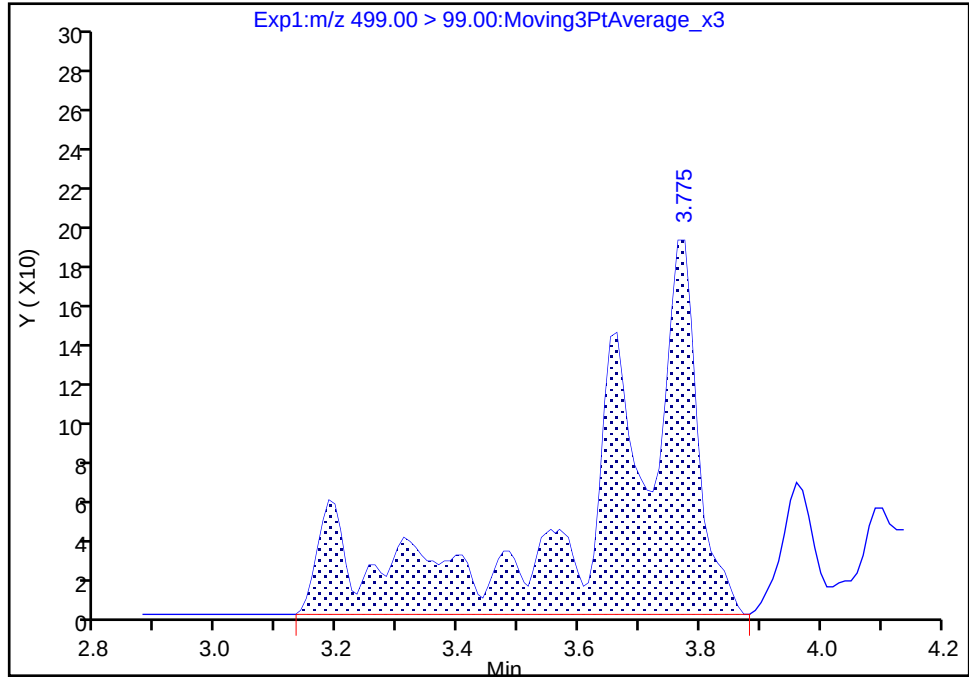
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

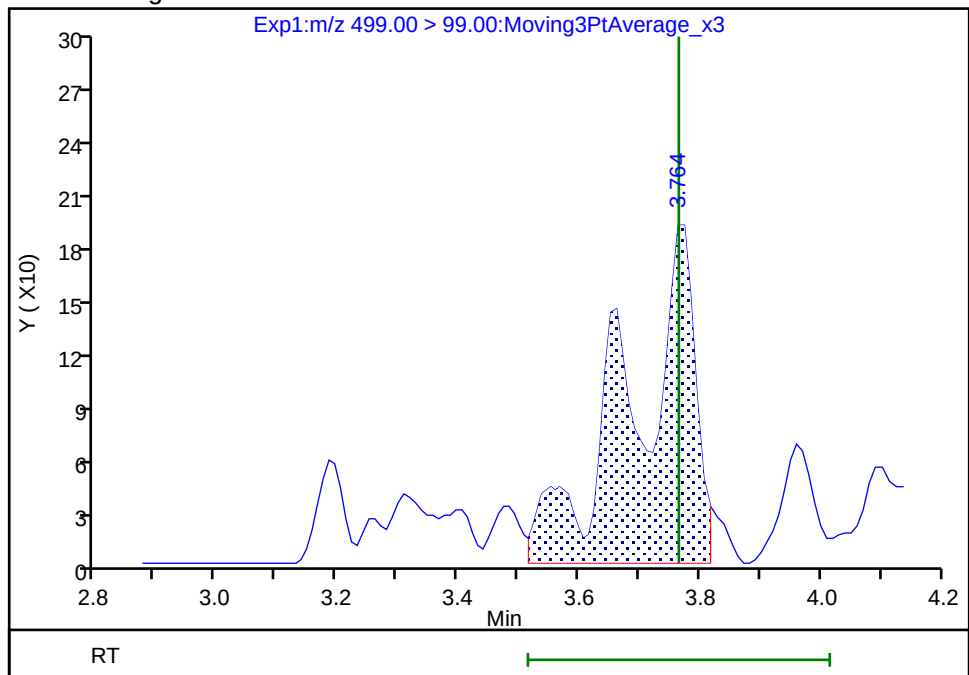
RT: 3.77
Area: 2054
Amount: 0.033814
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 1403
Amount: 0.029710
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:48:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

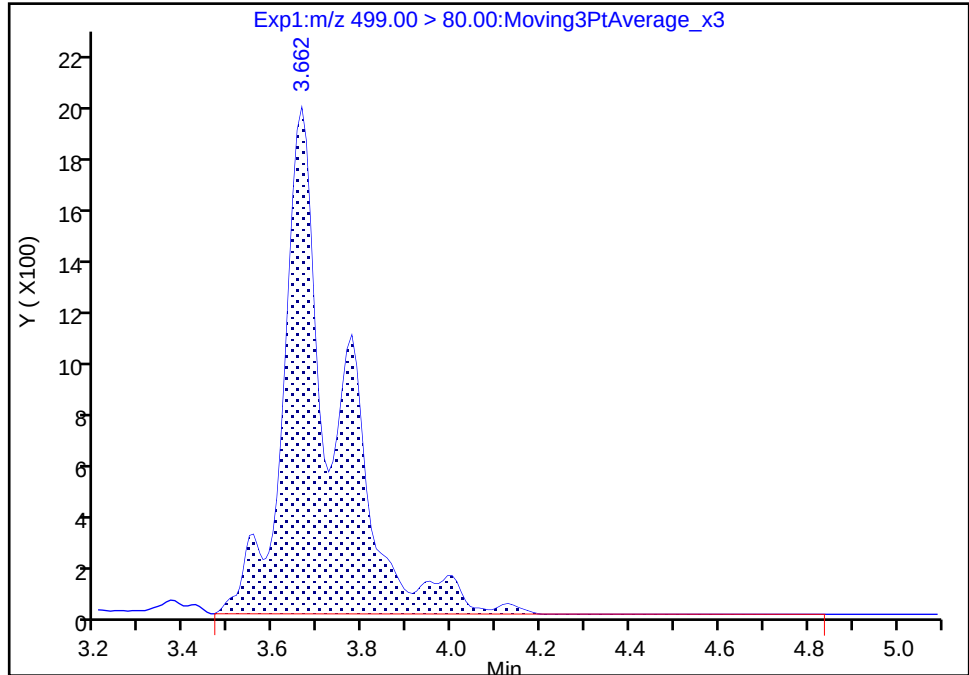
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

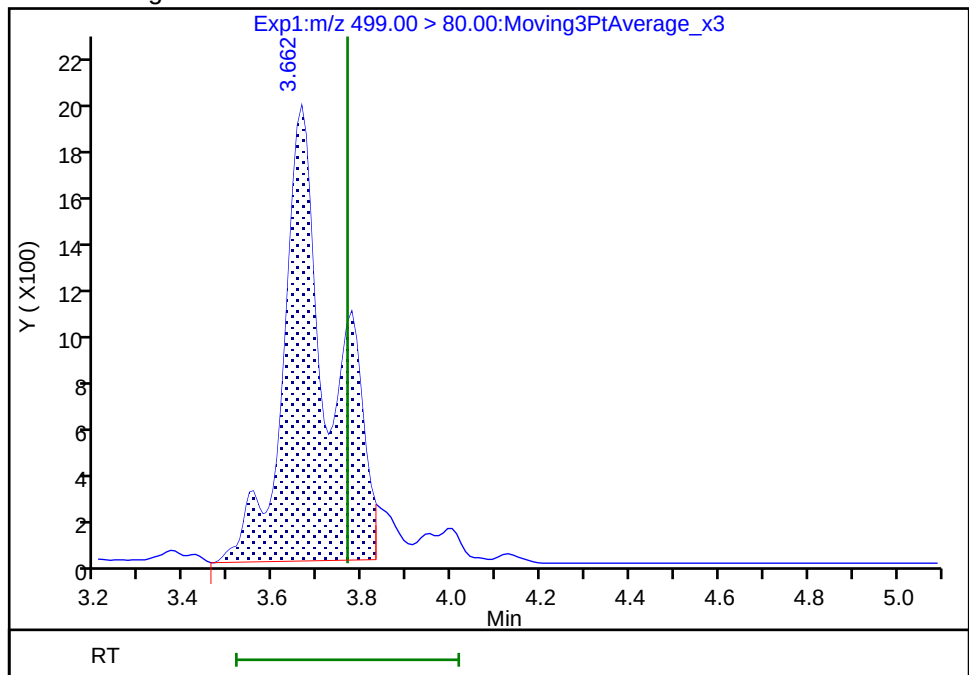
RT: 3.66
Area: 16033
Amount: 0.033814
Amount Units: ng/ml

Processing Integration Results



RT: 3.66
Area: 14087
Amount: 0.029710
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:34:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

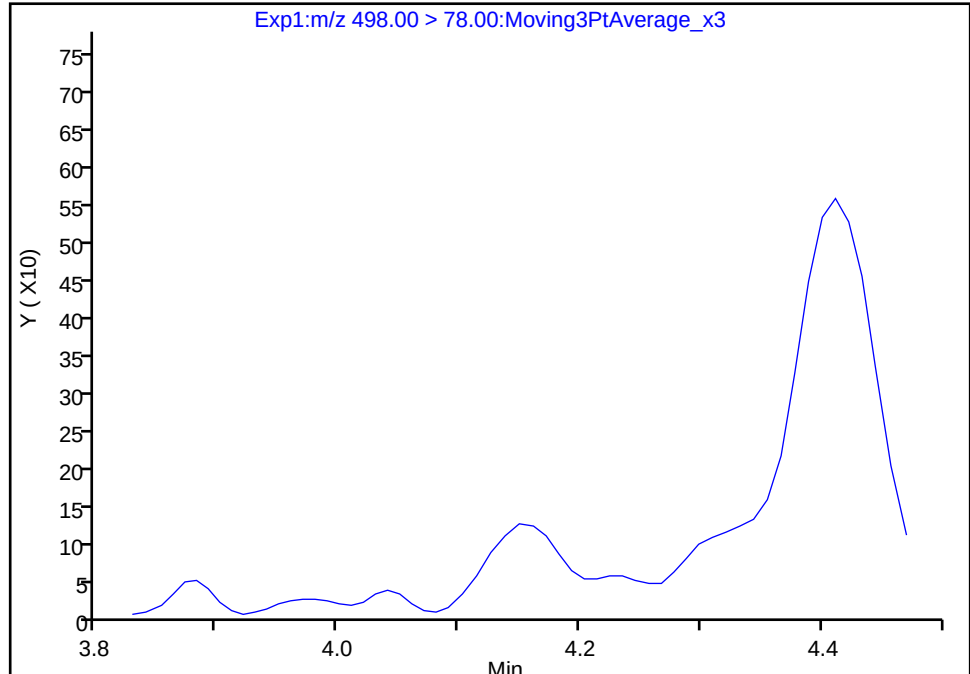
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

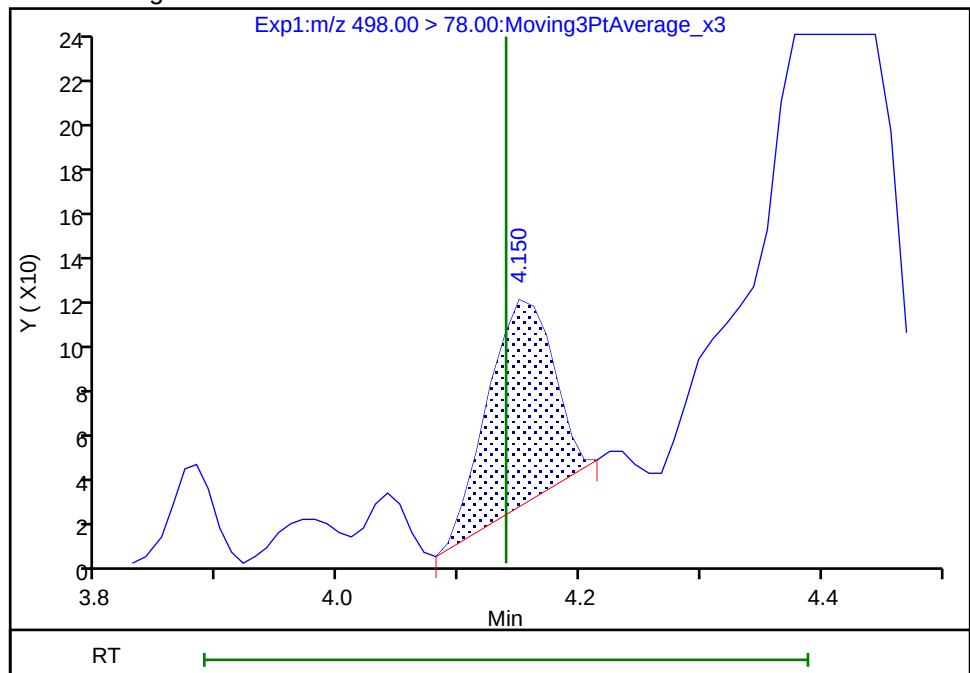
Not Detected
Expected RT: 4.14

Processing Integration Results



RT: 4.15
Area: 353
Amount: 0.000581
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:48:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

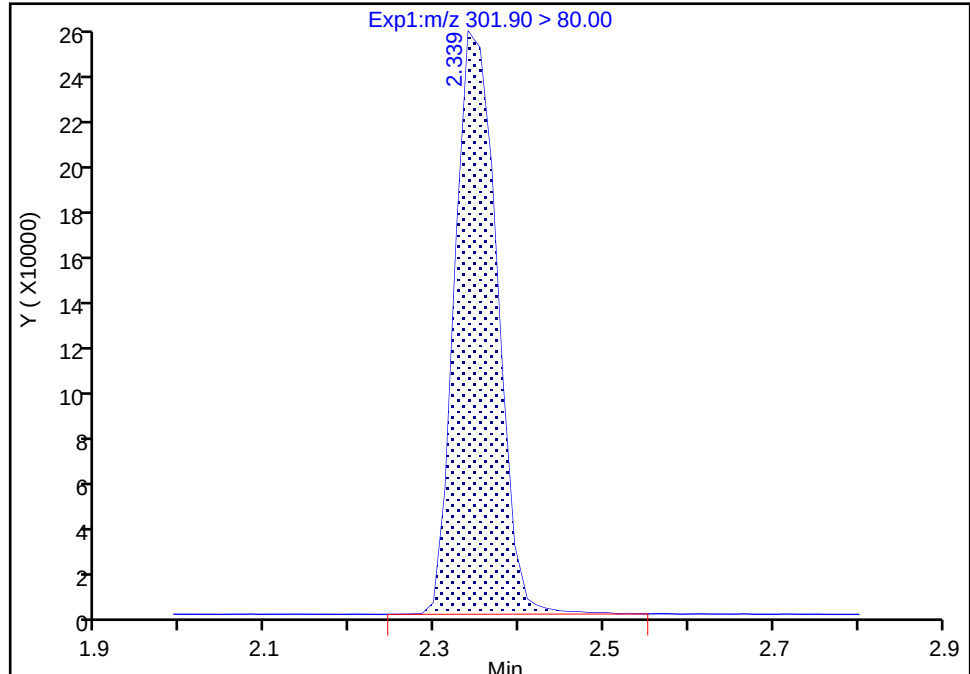
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

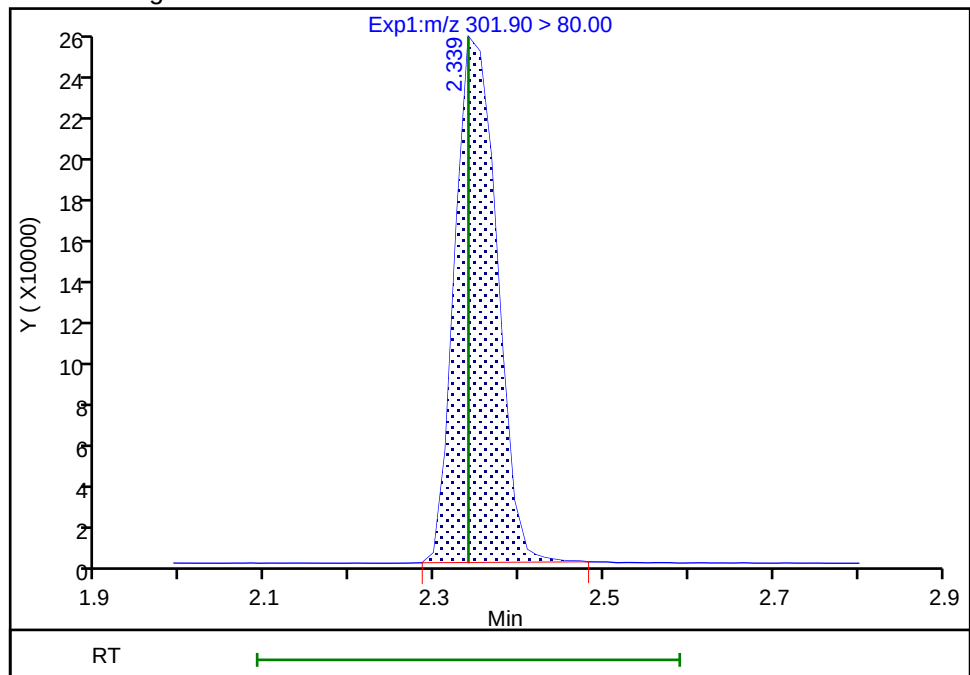
RT: 2.34
Area: 867557
Amount: 1.089581
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 861899
Amount: 1.082475
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:45:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

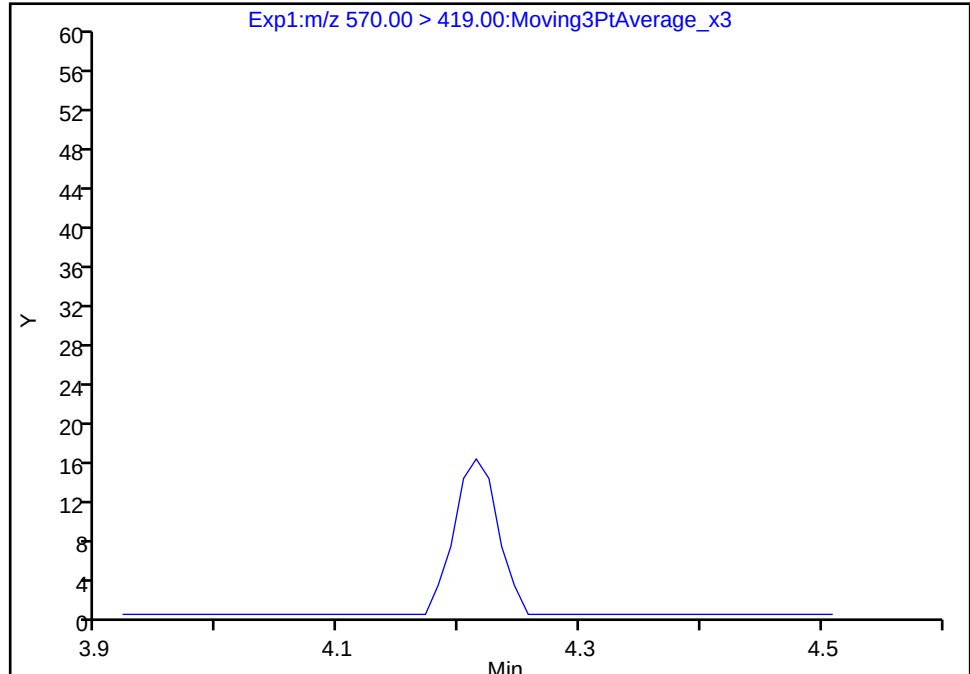
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

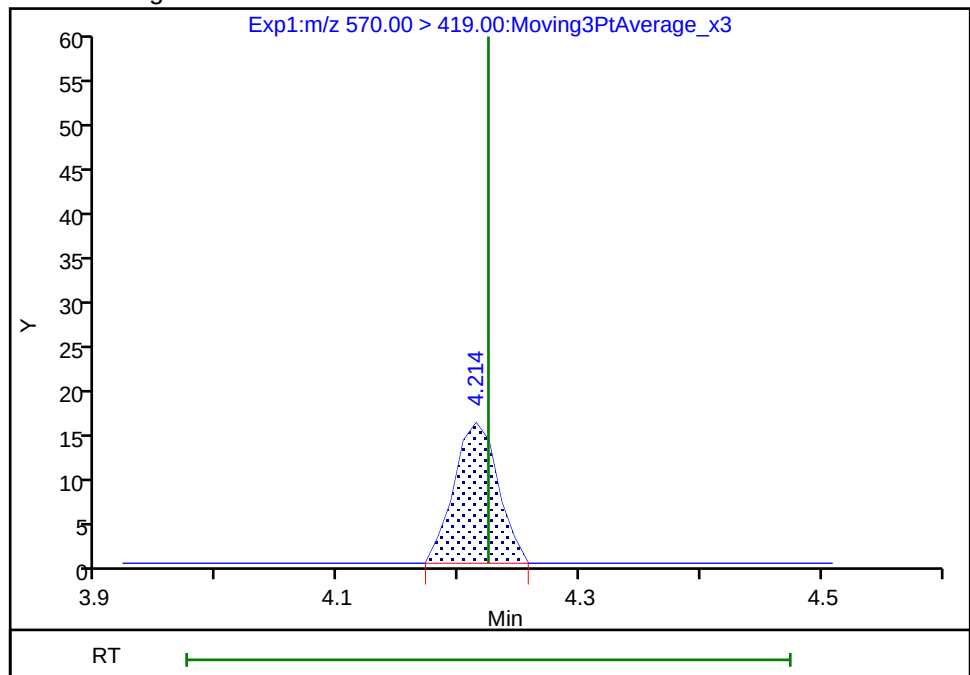
Not Detected
Expected RT: 4.22

Processing Integration Results



RT: 4.21
Area: 40
Amount: 0.001718
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:49:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

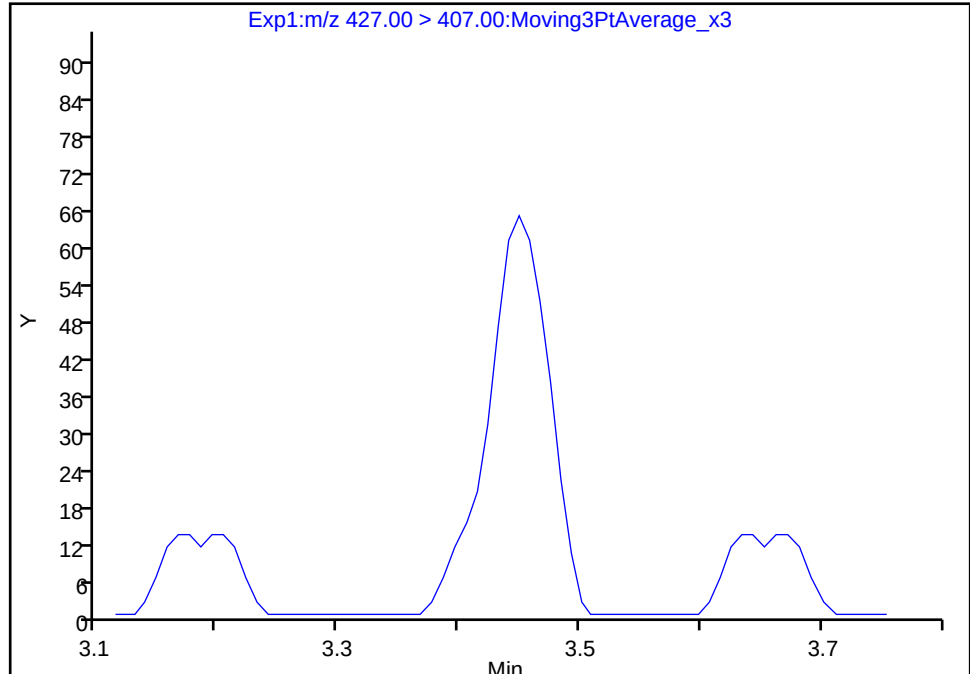
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

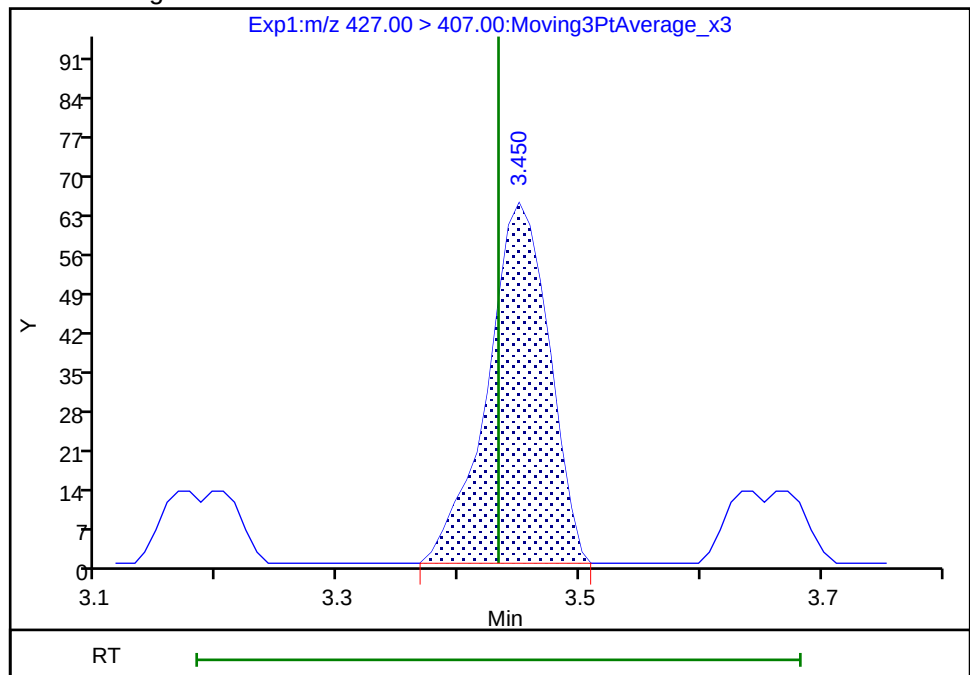
Signal: 1

Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:47:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

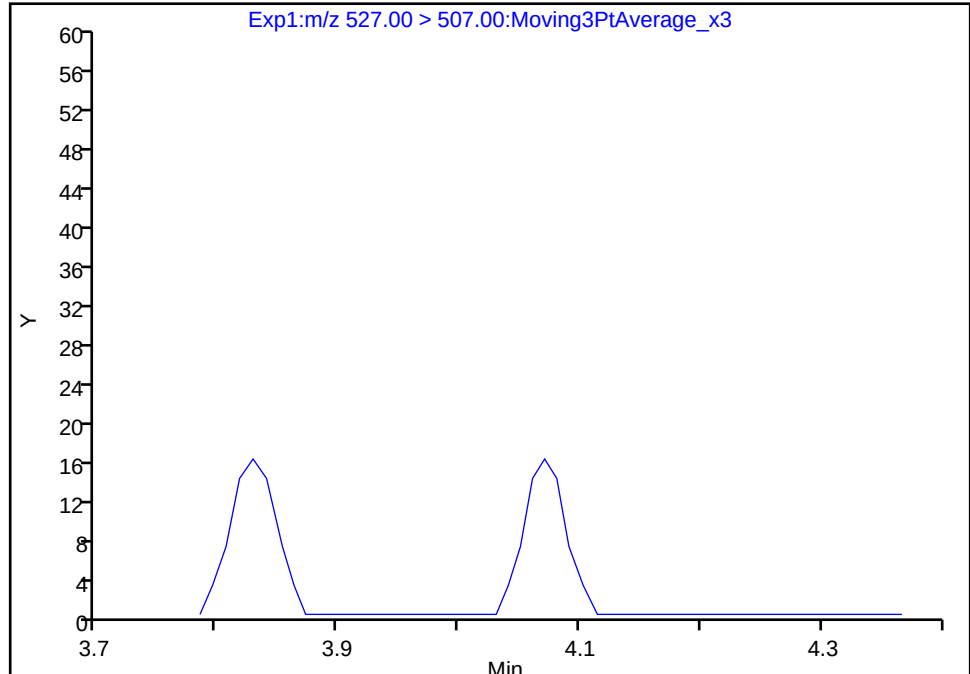
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B10.d
Injection Date: 24-Sep-2020 17:28:21 Instrument ID: LC812
Lims ID: 480-175175-C-1-A Lab Sample ID: 200-175175-1
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 10 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

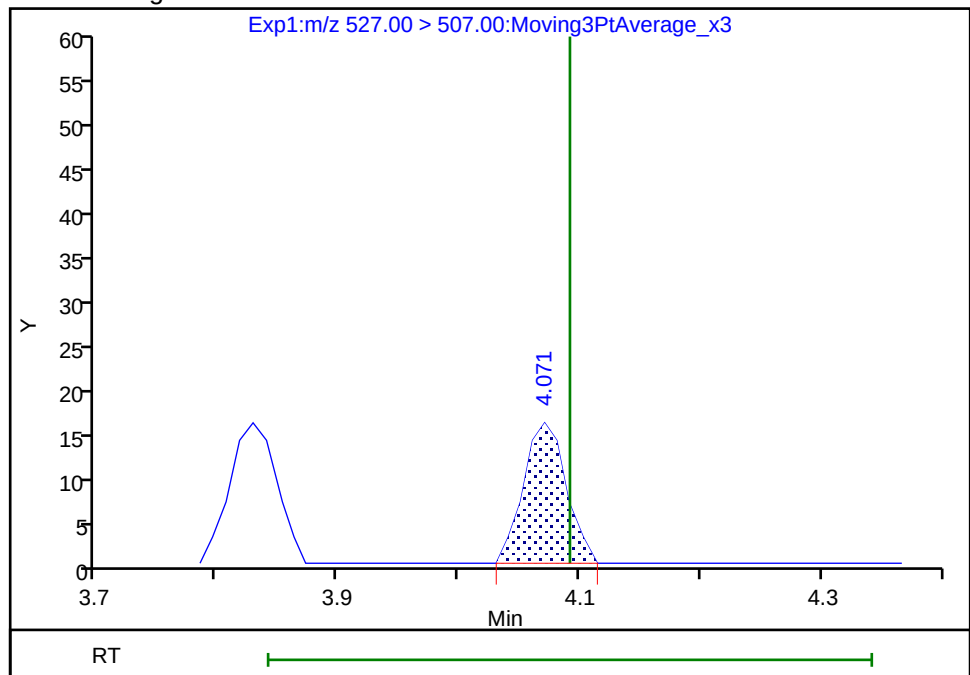
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.07
Area: 39
Amount: 0.001055
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:48:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-2 Lab Sample ID: 480-175175-2
 Matrix: Water Lab File ID: PA200924B13.d
 Analysis Method: 537 (modified) Date Collected: 09/15/2020 12:15
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 281.3 (mL) Date Analyzed: 09/24/2020 17:53
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	2.2	J	4.4	1.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	2.1		1.8	0.96
307-24-4	Perfluorohexanoic acid (PFHxA)	2.0		1.8	0.74
375-85-9	Perfluoroheptanoic acid (PFHpA)	0.90	J	1.8	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	2.5		1.8	0.87
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.52
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.65
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.41
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.52
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.2		1.8	0.56
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	1.5	J	1.8	0.60
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.43
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	1.7	J	1.8	0.77
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.51
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.4	0.70
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.4	0.83
27619-97-2	6:2 FTS	ND		4.4	0.64
39108-34-4	8:2 FTS	ND		1.8	0.59

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-2 Lab Sample ID: 480-175175-2
 Matrix: Water Lab File ID: PA200924B13.d
 Analysis Method: 537 (modified) Date Collected: 09/15/2020 12:15
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 281.3 (mL) Date Analyzed: 09/24/2020 17:53
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	83		25-150
STL00992	13C4 PFBA	91		25-150
STL01893	13C5 PFPeA	101		25-150
STL00993	13C2 PFHxA	98		50-150
STL01892	13C4 PFHpA	106		50-150
STL00990	13C4 PFOA	98		50-150
STL00995	13C5 PFNA	97		50-150
STL00996	13C2 PFDA	95		50-150
STL00997	13C2 PFUnA	85		50-150
STL00998	13C2 PFDoA	89		50-150
STL02116	13C2 PFTeDA	86		50-150
STL02337	13C3 PFBS	93		50-150
STL00994	18O2 PFHxS	98		50-150
STL00991	13C4 PFOS	96		50-150
STL02118	d3-NMeFOSAA	88		50-150
STL02117	d5-NEtFOSAA	97		50-150
STL02279	M2-6:2 FTS	102		25-150
STL02280	M2-8:2 FTS	94		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
 Lims ID: 480-175175-C-2-A
 Client ID: CC-MW-2
 Sample Type: Client
 Inject. Date: 24-Sep-2020 17:53:16 ALS Bottle#: 13 Worklist Smp#: 13
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-175175-C-2-A
 Misc. Info.: 200-0042936-013 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 08:58:55

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.981	1.981	0.0	0.576	1056836	1.14		90.9	5665	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.005	49574	0.0627			6.5	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.676	839852	1.26		101	3509	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.326	2.326	0.0	1.000	42526	0.0599			2.1	
D 47 13C3 PFBS										M
301.90 > 80.00	2.339	2.339	0.0	0.680	878757	1.08		93.1	83447	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.339	2.339	0.0	1.000	90028	0.1195	Target=2.07		40.2	
298.90 > 99.00	2.339	2.339	0.0	1.000	44516		2.02(1.04-3.11)		55.5	
D 7 13C2 PFHxA										
315.00 > 270.00	2.691	2.691	0.0	0.782	839960	1.22		97.9	2741	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.691	2.691	0.0	1.000	38111	0.0563	Target=12.44		11.2	
313.00 > 119.00	2.691	2.691	0.0	1.000	3182		11.98(6.22-18.66)		10.7	
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.893	678118	1.16		98.4	2996	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.061	3.073	-0.012	0.996	27197	0.0429	Target=4.60		33.9	M
399.00 > 99.00	3.061	3.073	-0.012	0.996	6347		4.29(2.30-6.91)		12.9	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.073	3.073	0.0	0.893	831308	1.33		106	3918	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.073	3.084	-0.011	1.000	16908	0.0254	Target=3.34		6.8	M
363.00 > 169.00	3.073	3.084	-0.011	1.000	4589		3.68(1.67-5.01)		17.5	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.432	3.433	-0.001	0.914	496	0.000938	Target=7.08	2.1		RM
449.00 > 99.00	3.424	3.433	-0.009	0.912	219		2.26(3.54-10.63)	3.1		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.008	1.003	52	0.000822		2.4		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.441	-0.009	0.997	94094	1.21		102	410	
D 14 13C4 PFOA										
417.00 > 372.00	3.441	3.441	0.0	1.000	784167	1.23		98.1	4594	
* 62 13C2 PFOA										
415.00 > 370.00	3.441	3.441	0.0		811582	1.25			4719	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.441	3.450	-0.009	1.000	44640	0.0689	Target=2.29	13.5		M
413.00 > 169.00	3.441	3.450	-0.009	1.000	21637		2.06(1.14-3.43)	47.6		M
D 18 13C4 PFOS										
503.00 > 80.00	3.755	3.765	-0.010	1.091	545155	1.14		95.7	2440	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.003	23514	0.0474	Target=7.10	75.1		M
499.00 > 99.00	3.755	3.765	-0.010	1.000	3041		7.73(3.55-10.64)	23.6		M
D 19 13C5 PFNA										
468.00 > 423.00	3.776	3.786	-0.010	1.097	650966	1.21		96.7	5016	
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.786	3.786	0.0	1.003	3867	0.007292	Target=5.83	1.5		RM
463.00 > 169.00	3.765	3.786	-0.021	0.997	336		11.51(2.91-8.74)	7.5		M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.072	4.082	-0.010	0.998	938	0.001939	Target=6.81	2.1		M
513.00 > 169.00	4.082	4.082	0.0	1.000	155		6.05(3.41-10.22)	3.2		M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.082	0.0	1.186	611197	1.18		94.7	5836	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.072	4.092	-0.020	0.998	39	0.001137				M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.082	4.092	-0.010	1.186	103780	1.13		94.5	931	
D 21 13C8 FOSA										M
506.00 > 78.00	4.139	4.139	0.0	1.203	859094	1.03		82.6	1715	M
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.139	4.139	0.0	1.000	330	0.000514		1.5		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.224	0.0	1.228	32483	1.10		88.4	892	
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.262	413344	1.06		84.8	3457	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.343	4.343	0.0	1.000	1756	0.005384	Target=6.57	2.0		RM
563.00 > 169.00	4.355	4.343	0.012	1.003	49		35.84(3.28-9.85)	1.5		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.265	38389	1.21		97.1	542	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.377	4.366	0.011	1.005	81	0.002881			3.5	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.329	457285	1.11		88.8	4091	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.978	0.001	1.447	315218	1.07		85.9	3650	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.988	4.978	0.010	1.002	86	0.001489	Target=1.06		3.6	RM
713.00 > 219.00	4.969	4.978	-0.009	0.998	191		0.45(0.53-1.59)		7.6	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d

Injection Date: 24-Sep-2020 17:53:16

Instrument ID: LC812

Lims ID: 480-175175-C-2-A

Lab Sample ID: 200-175175-2

Client ID: CC-MW-2

Operator ID: lc812tech

ALS Bottle#: 13

Worklist Smp#: 13

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

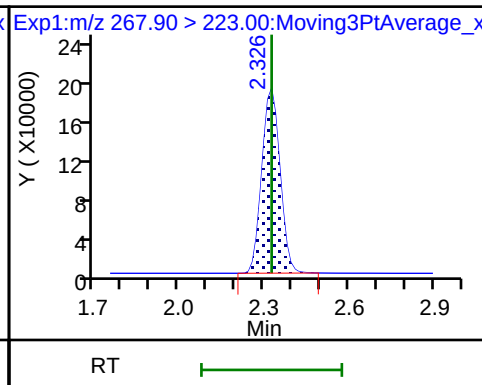
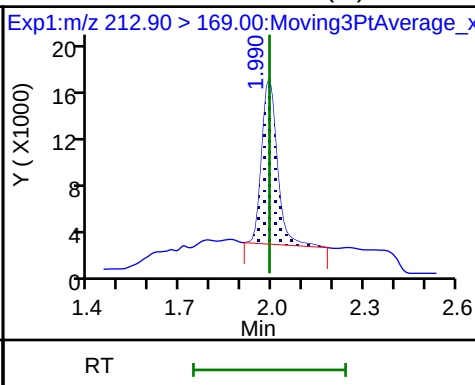
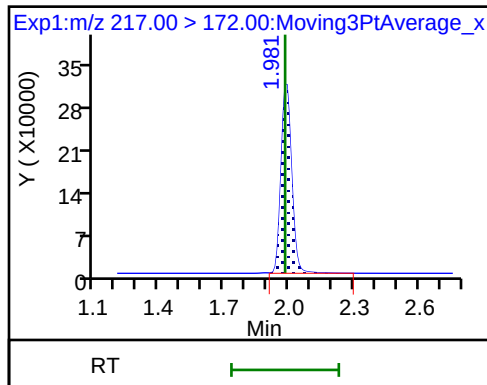
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

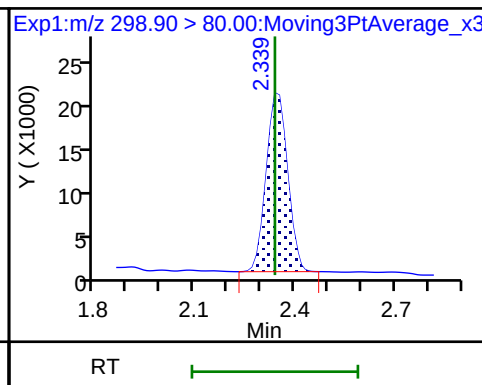
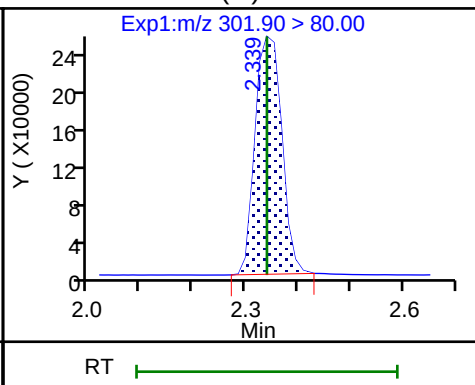
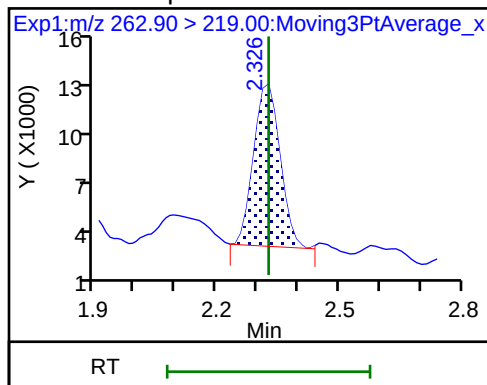
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

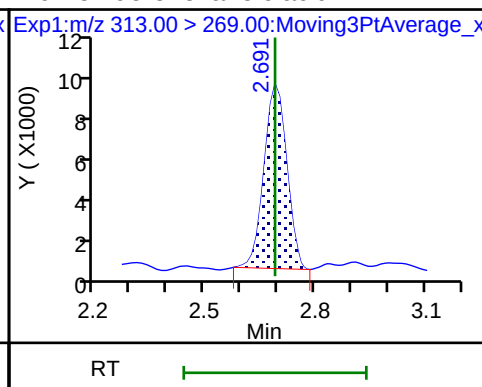
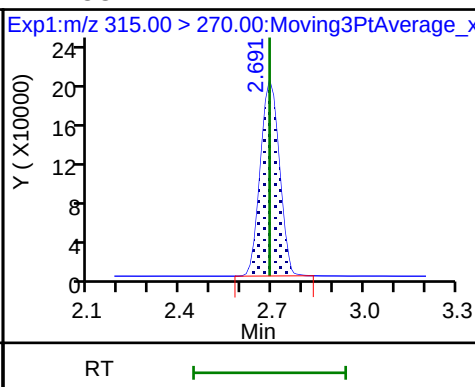
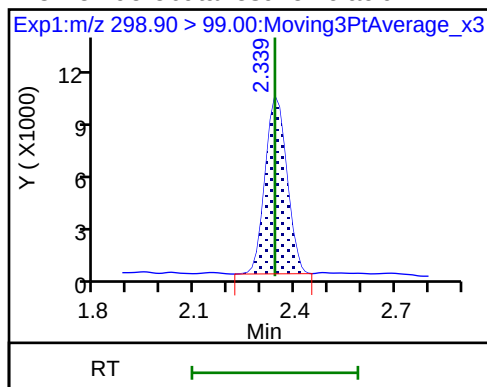
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

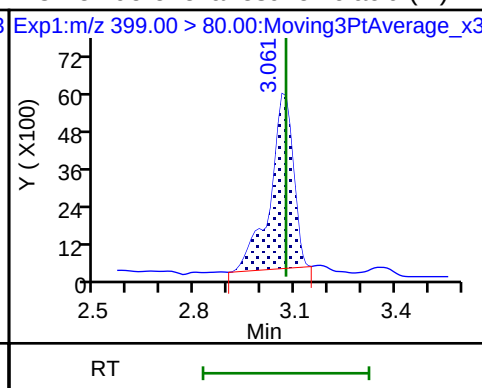
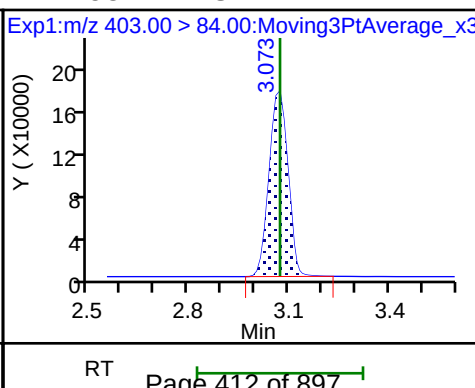
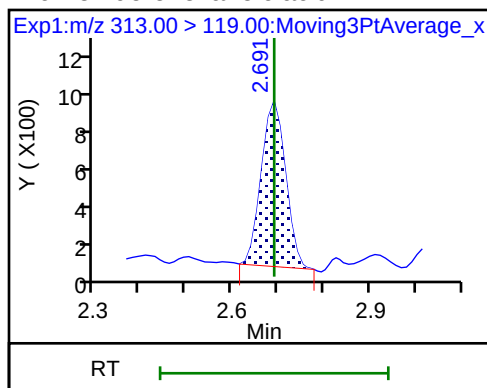
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

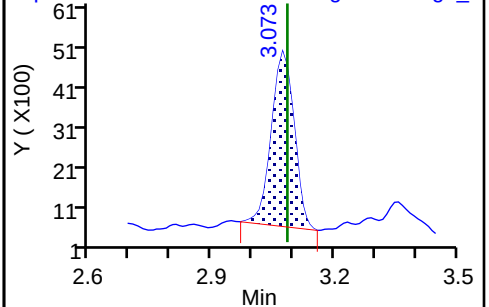
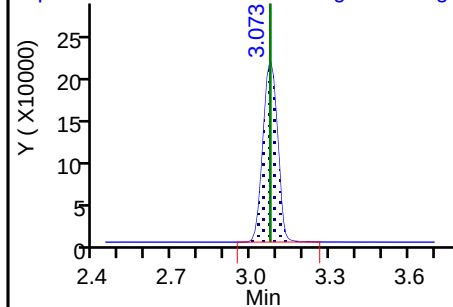
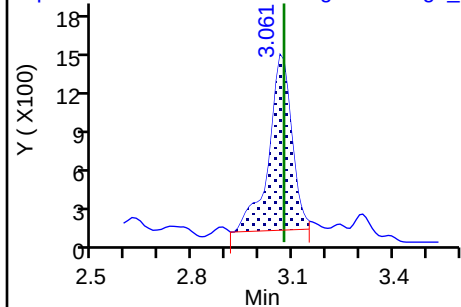
D 9 13C4 PFHpA

10 Perfluoroheptanoic acid (M)

Exp1:m/z 399.00 > 99.00:Moving3PtAverage_x3

Exp1:m/z 367.00 > 322.00:Moving3PtAverage_x3

Exp1:m/z 363.00 > 319.00:Moving3PtAverage_x3



10 Perfluoroheptanoic acid (M)

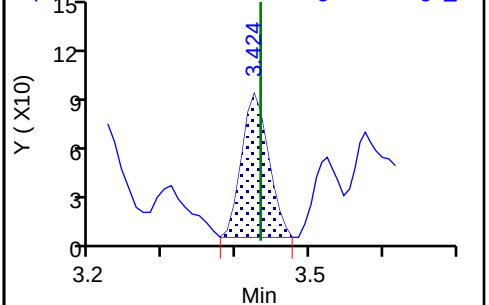
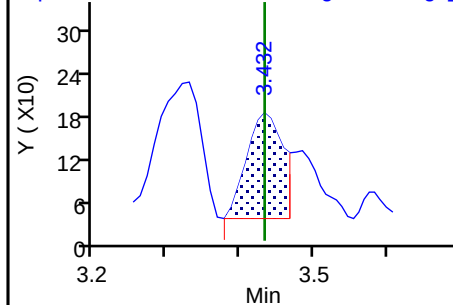
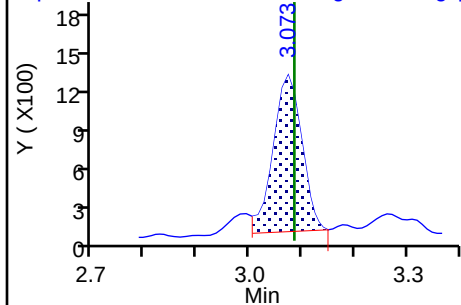
16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

Exp1:m/z 363.00 > 169.00:Moving3PtAverage_x3

Exp1:m/z 449.00 > 80.00:Moving3PtAverage_x3

Exp1:m/z 449.00 > 99.00:Moving3PtAverage_x3



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

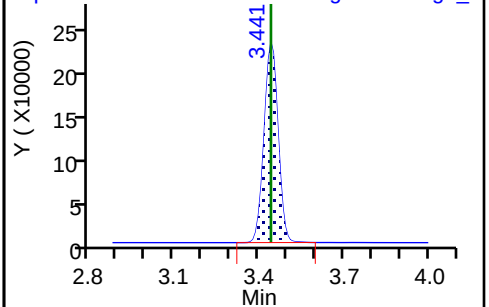
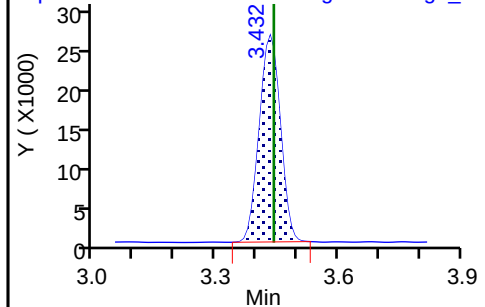
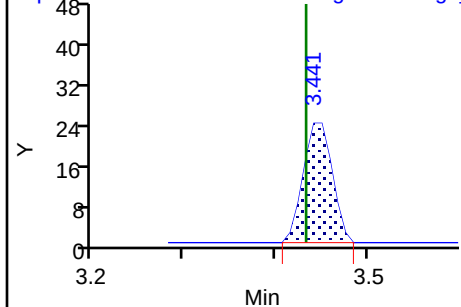
12 M2-6:2 FTS

D 14 13C4 PFOA

Exp1:m/z 427.00 > 407.00:Moving3PtAverage_x3

Exp1:m/z 429.00 > 81.00:Moving3PtAverage_x3

Exp1:m/z 417.00 > 372.00:Moving3PtAverage_x3



* 62 13C2 PFOA

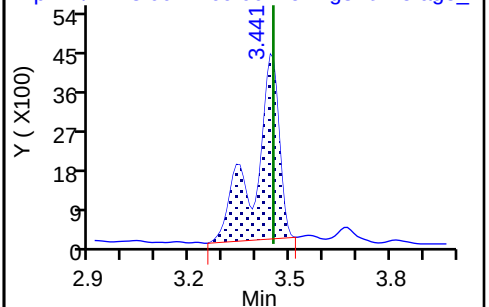
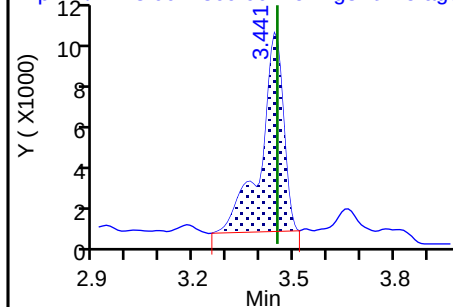
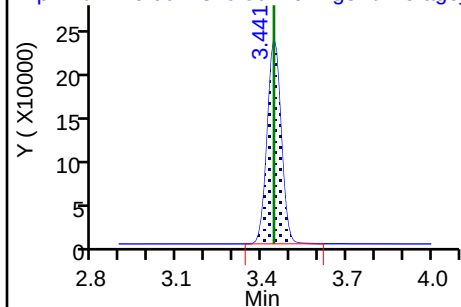
15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

Exp1:m/z 415.00 > 370.00:Moving3PtAverage_x3

Exp1:m/z 413.00 > 369.00:Moving3PtAverage_x3

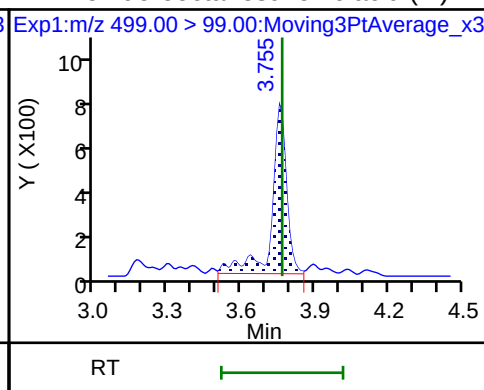
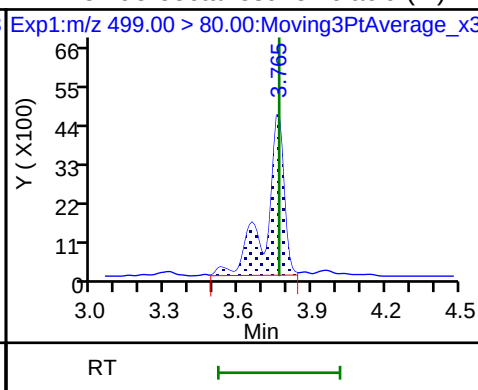
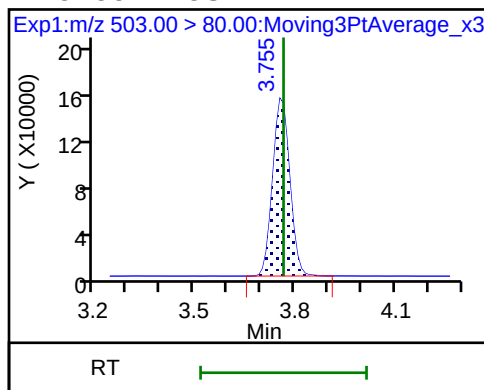
Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x3



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

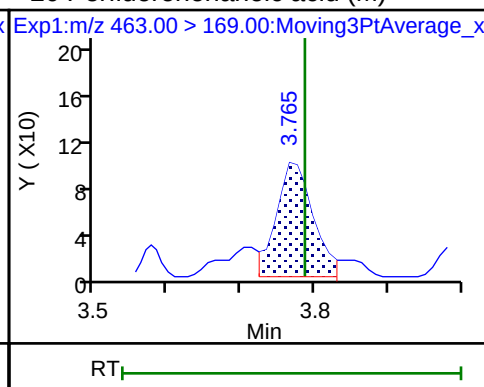
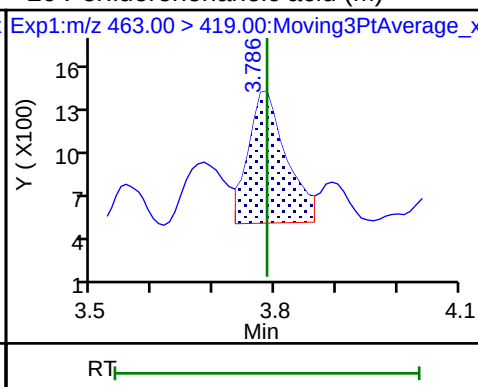
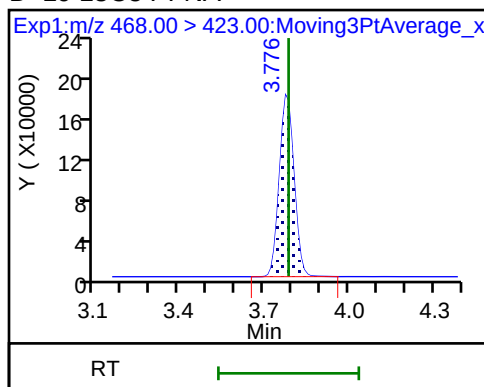
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

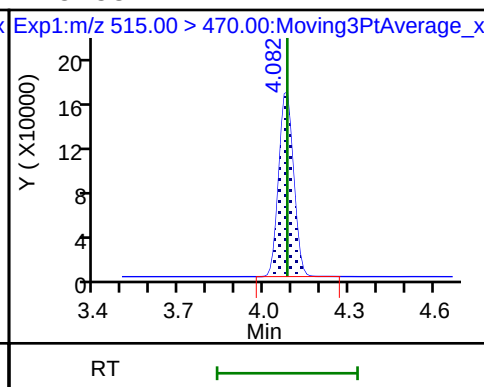
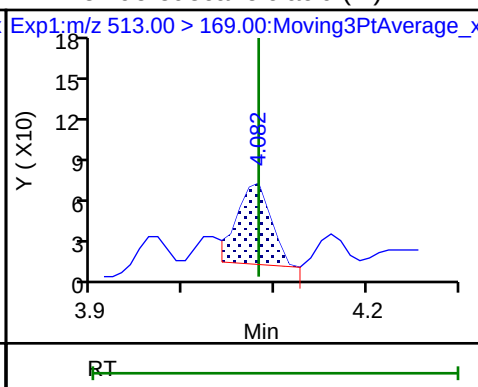
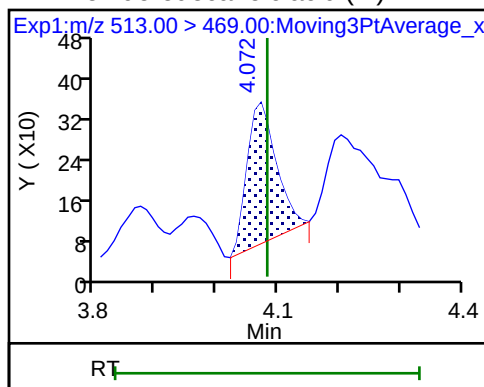
20 Perfluorononanoic acid (M)



24 Perfluorodecanoic acid (M)

24 Perfluorodecanoic acid (M)

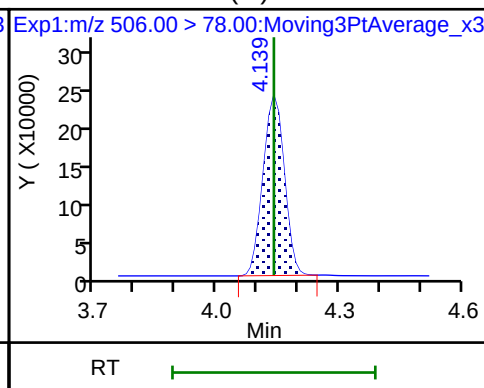
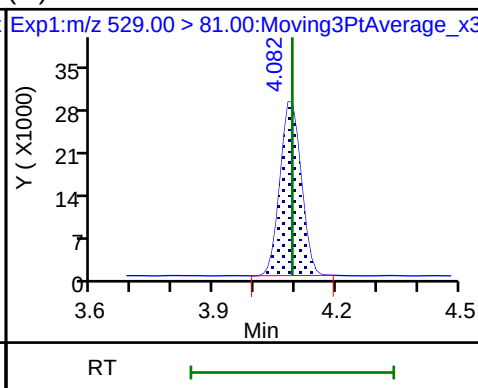
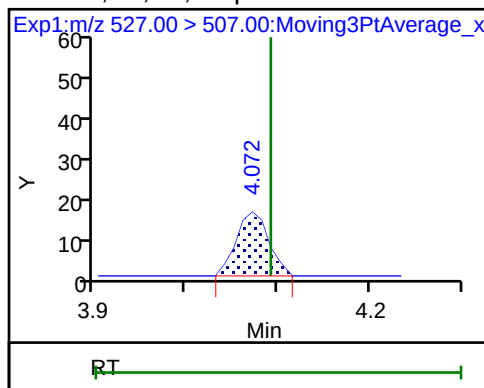
D 23 13C2 PFDA

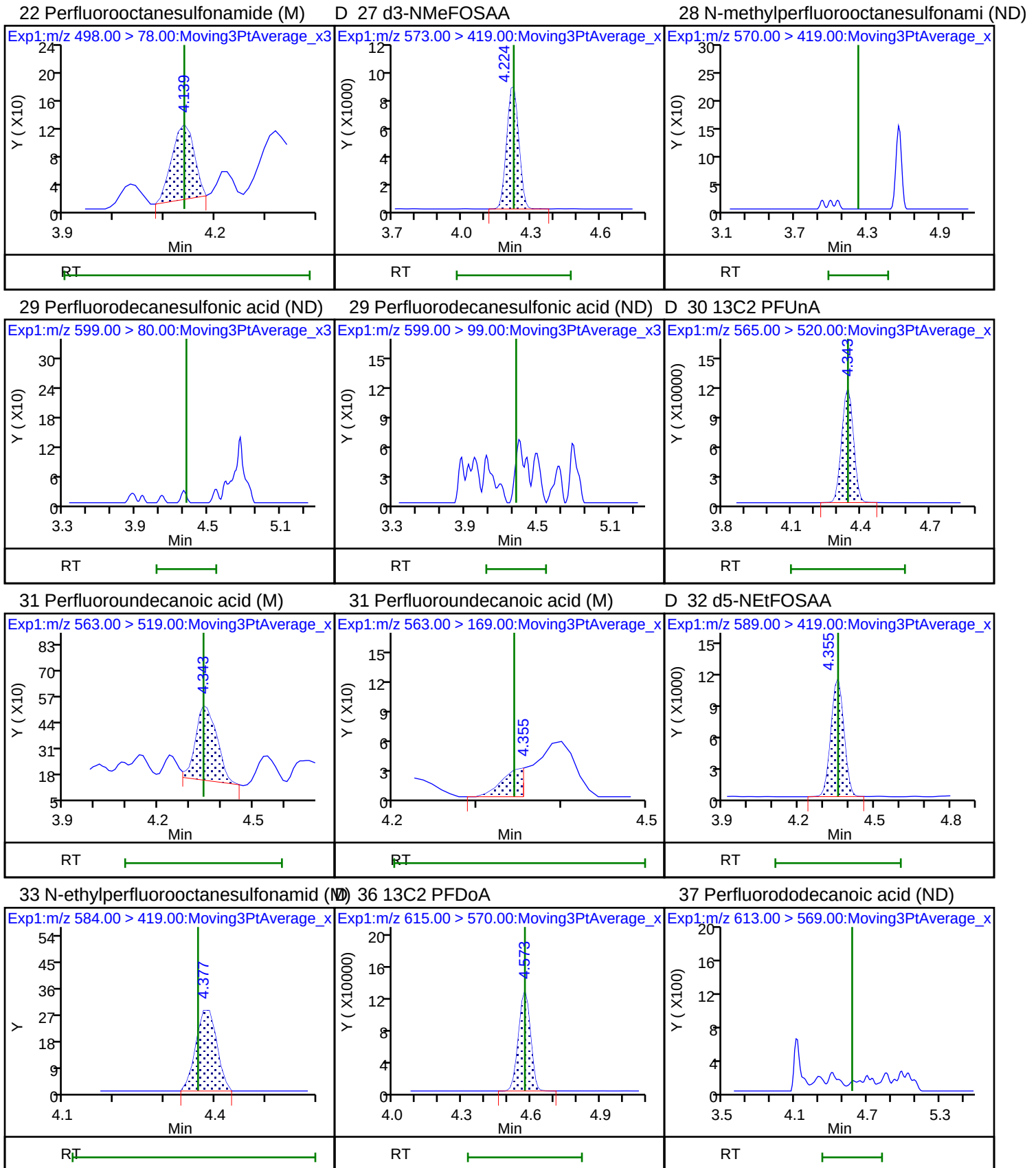


25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

26 M2-8:2 FTS

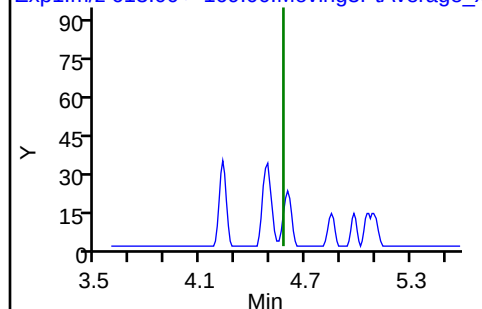
D 21 13C8 FOSA (M)





37 Perfluorododecanoic acid (ND)

Exp1:m/z 613.00 > 169.00:Moving3PtAverage_x

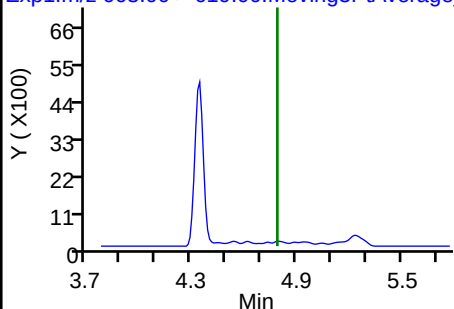


RT

Min

41 Perfluorotridecanoic acid (ND)

Exp1:m/z 663.00 > 619.00:Moving3PtAverage_x

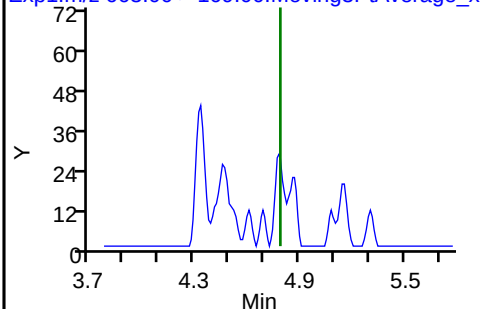


RT

Min

41 Perfluorotridecanoic acid (ND)

Exp1:m/z 663.00 > 169.00:Moving3PtAverage_x

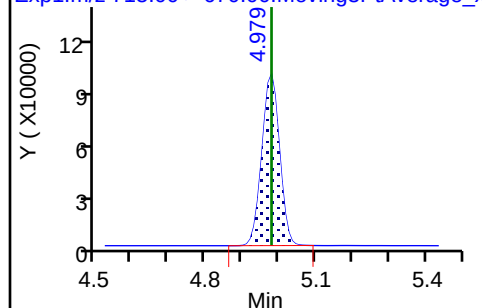


RT

Min

D 43 13C2 PFTeDA

Exp1:m/z 715.00 > 670.00:Moving3PtAverage_x

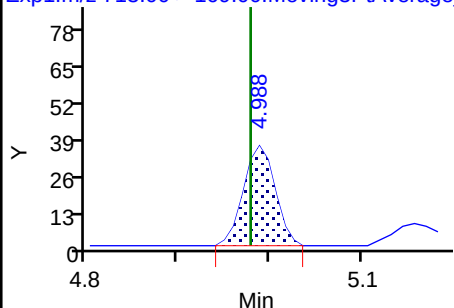


RT

Min

42 Perfluorotetradecanoic acid (M)

Exp1:m/z 713.00 > 169.00:Moving3PtAverage_x

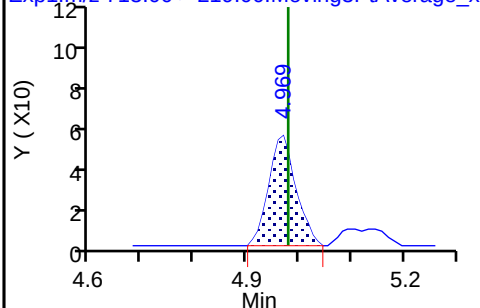


RT

Min

42 Perfluorotetradecanoic acid (M)

Exp1:m/z 713.00 > 219.00:Moving3PtAverage_x



RT

Min

Eurofins TestAmerica, Burlington

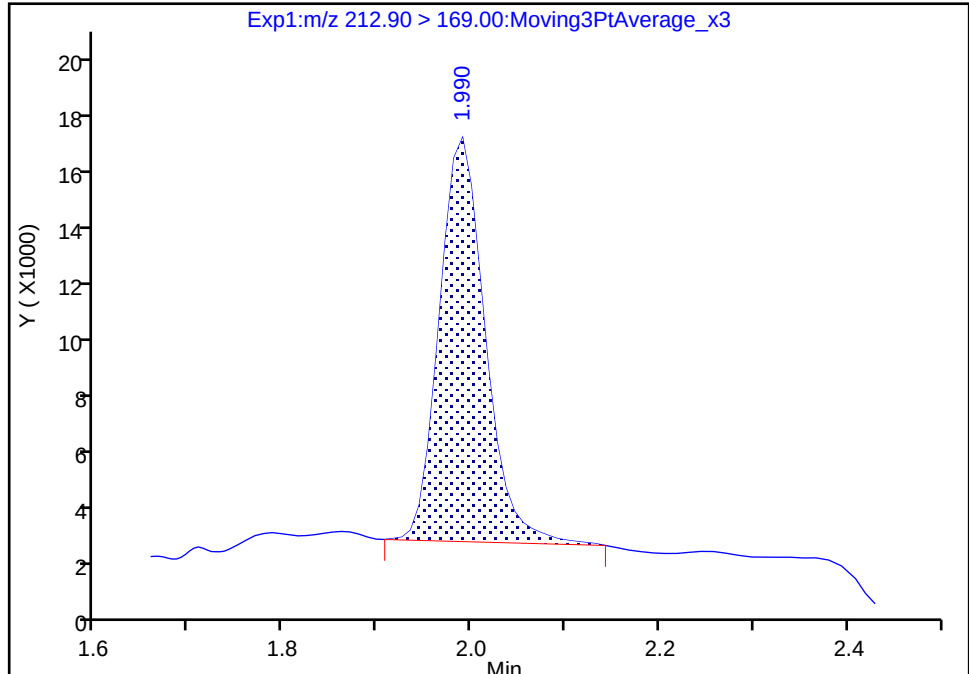
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

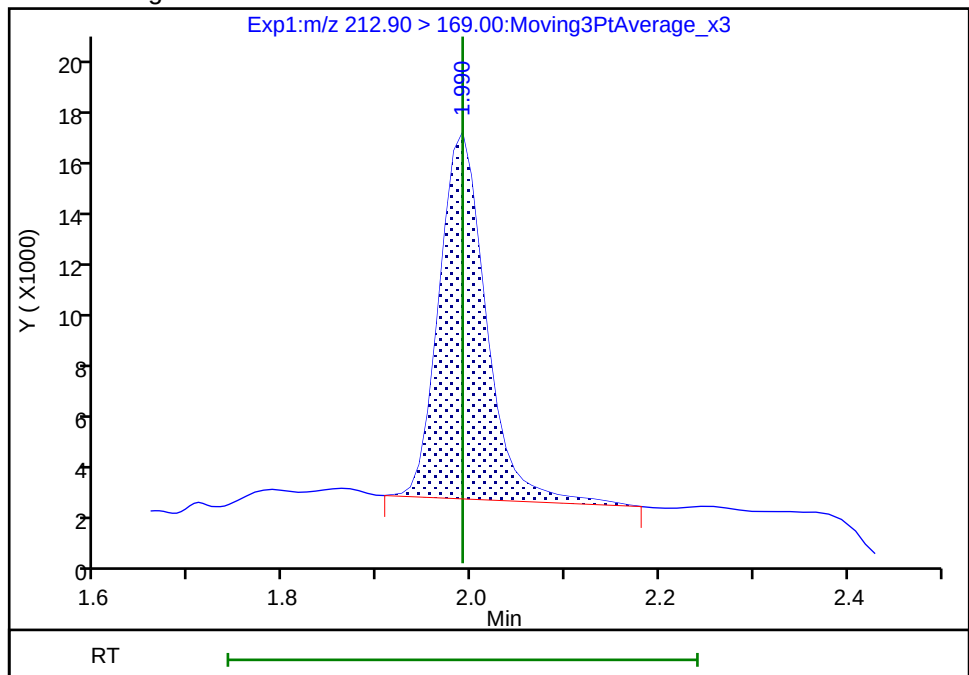
RT: 1.99
Area: 48288
Amount: 0.061101
Amount Units: ng/ml

Processing Integration Results



RT: 1.99
Area: 49574
Amount: 0.062729
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:56:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

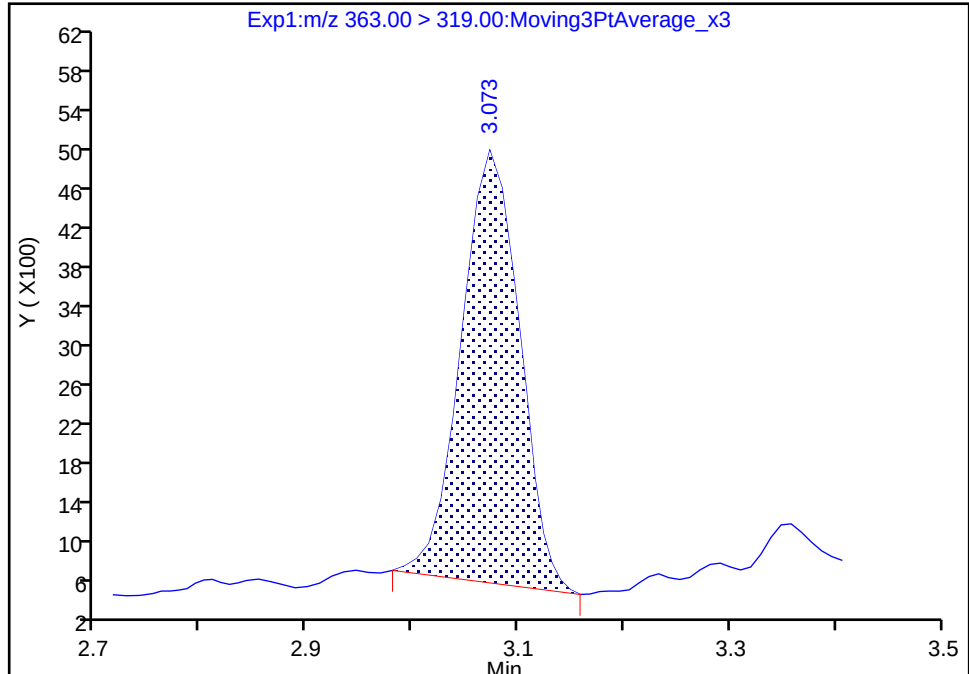
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

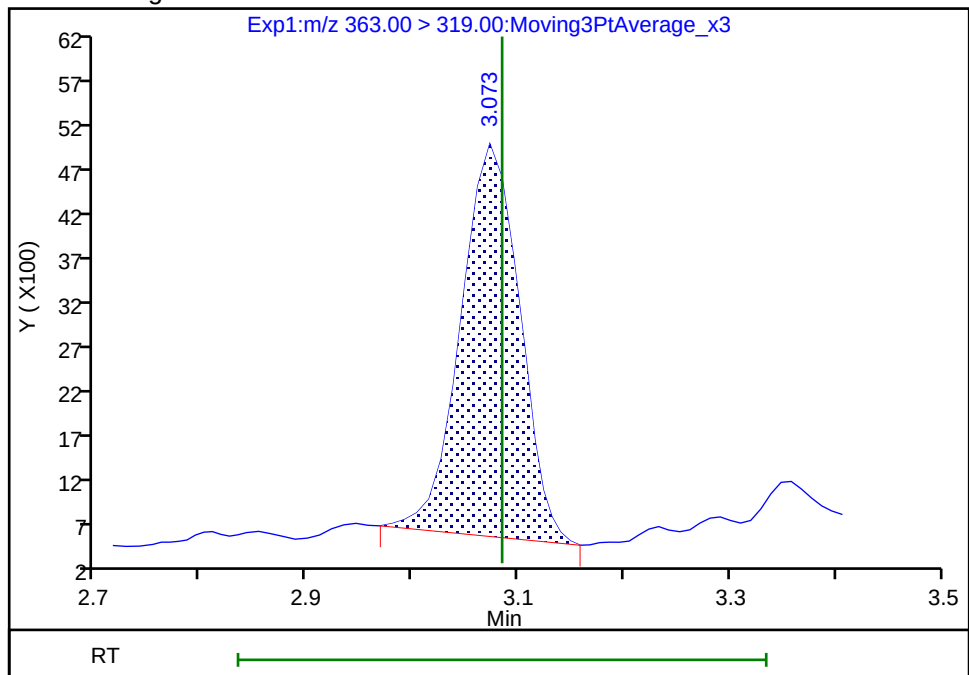
RT: 3.07
Area: 16686
Amount: 0.025038
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 16908
Amount: 0.025372
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:38:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 418 of 897

Eurofins TestAmerica, Burlington

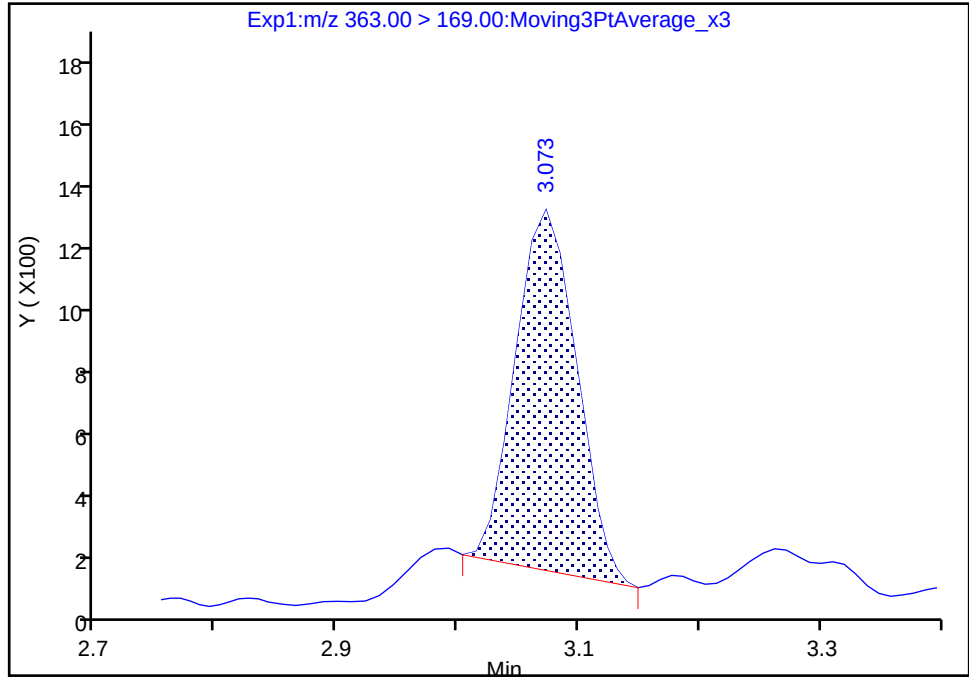
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

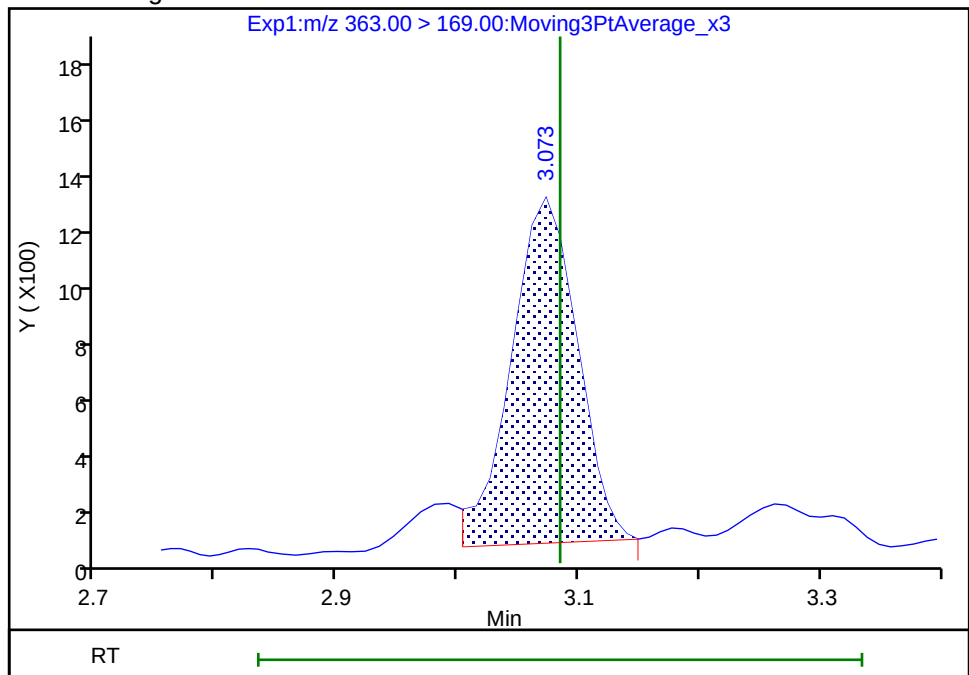
RT: 3.07
Area: 4019
Amount: 0.025038
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 4589
Amount: 0.025372
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:39:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 419 of 897

Eurofins TestAmerica, Burlington

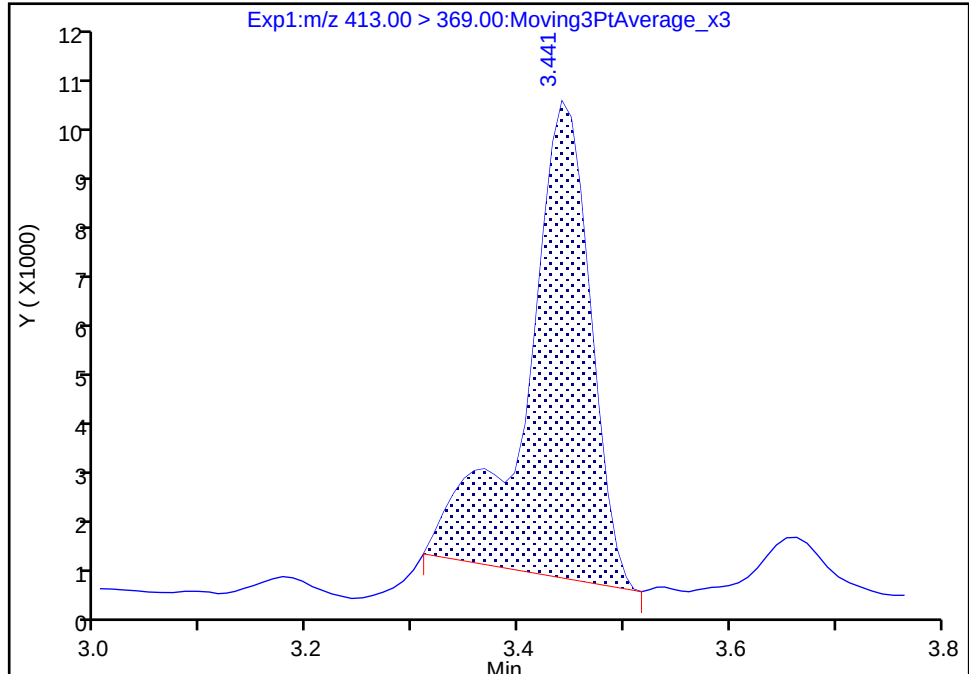
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

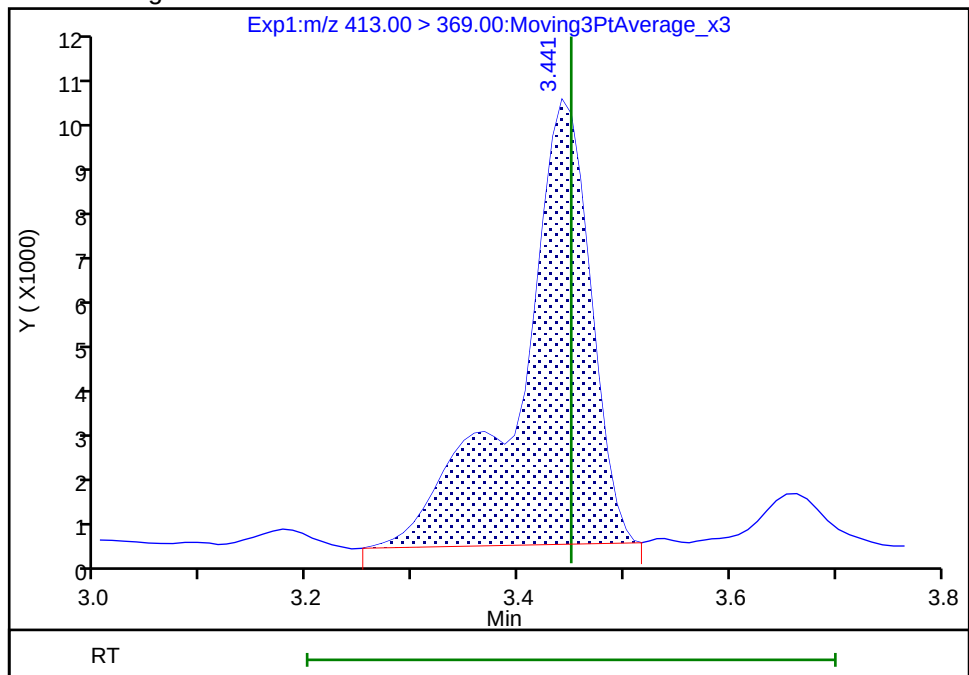
RT: 3.44
Area: 38682
Amount: 0.059724
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 44640
Amount: 0.068924
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:57:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

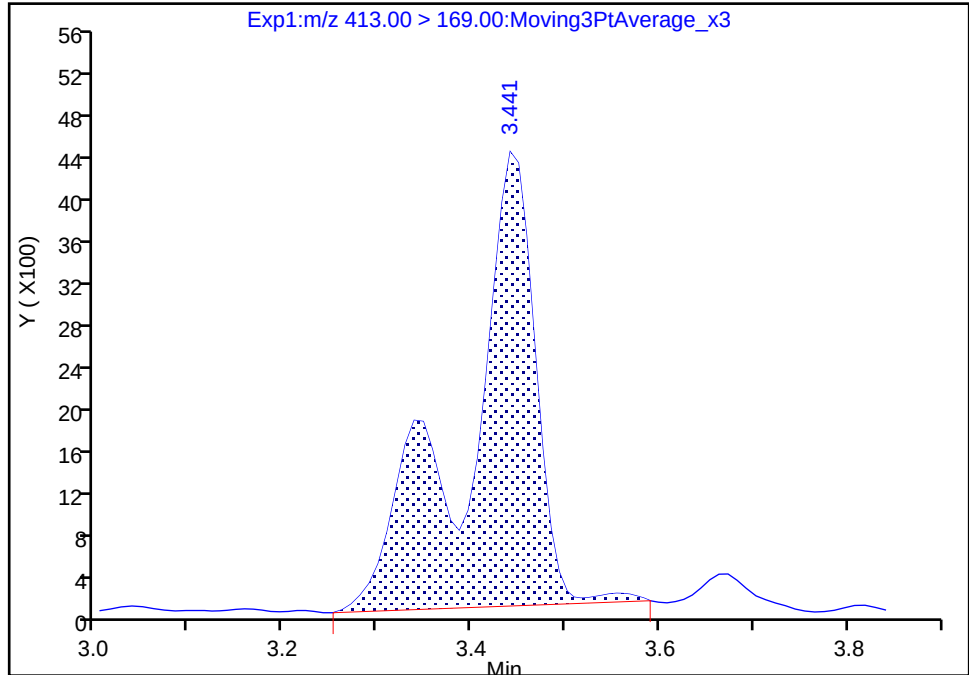
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

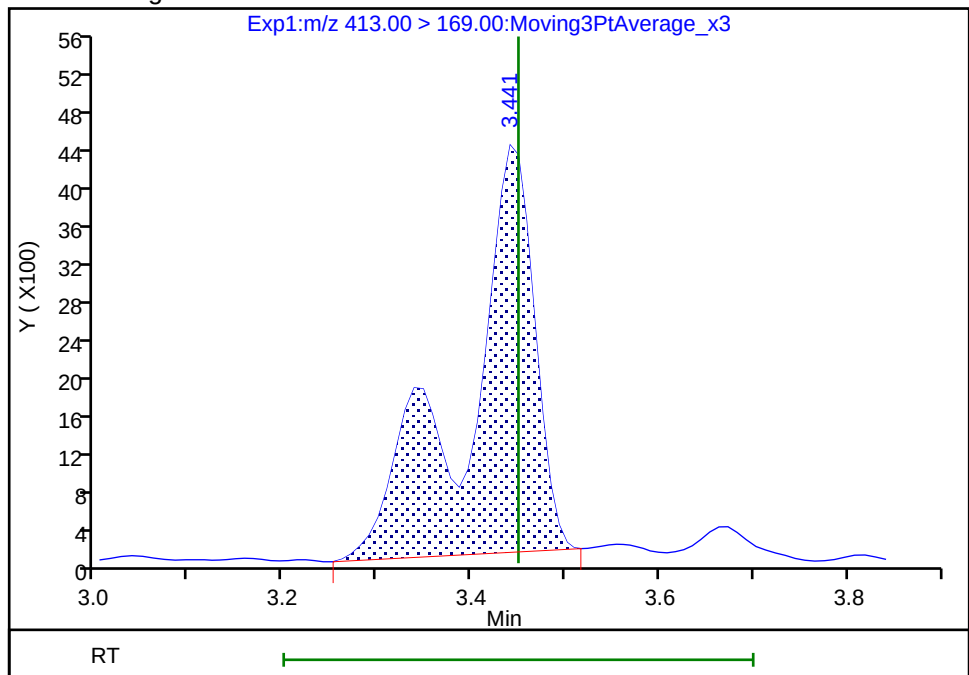
RT: 3.44
Area: 22284
Amount: 0.059724
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 21637
Amount: 0.068924
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:57:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

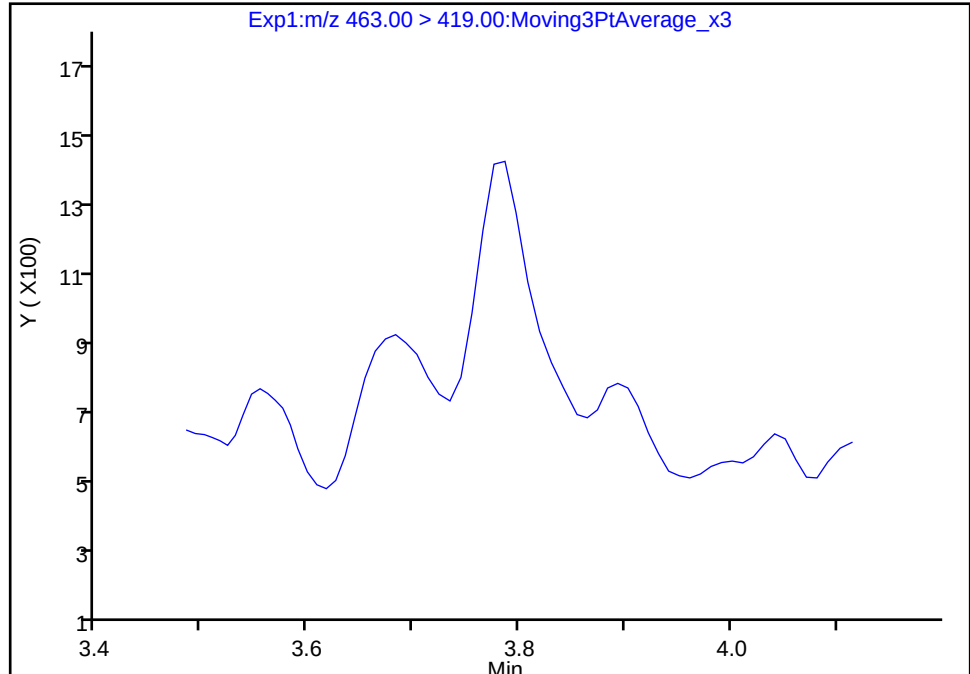
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

20 Perfluorononanoic acid, CAS: 375-95-1

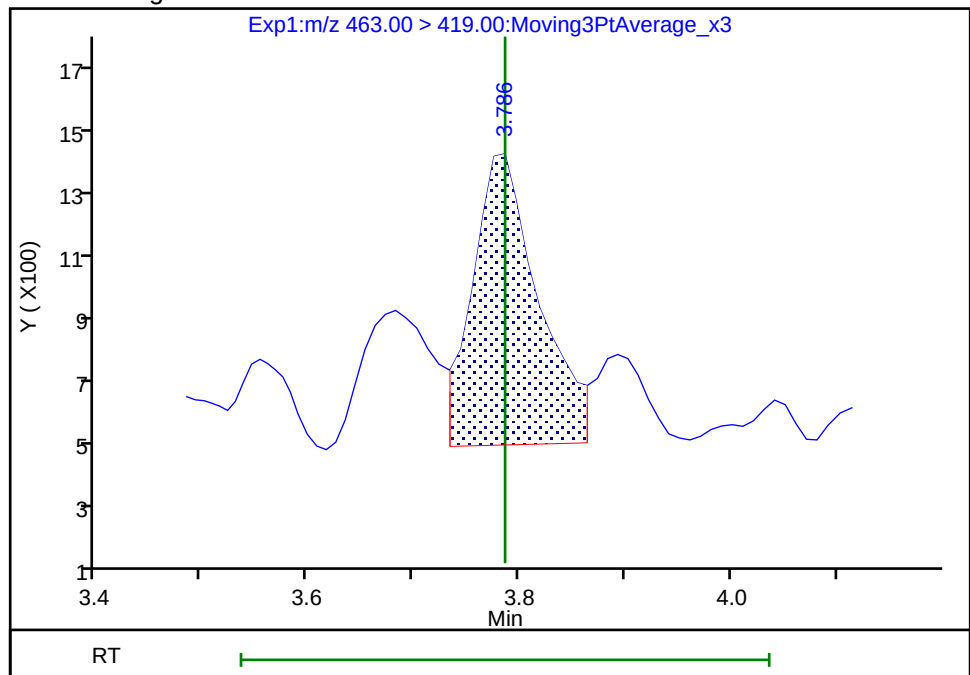
Signal: 1

Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results



RT: 3.79
Area: 3867
Amount: 0.007292
Amount Units: ng/ml

Reviewer: chirgwinb, 25-Sep-2020 10:40:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 422 of 897

Eurofins TestAmerica, Burlington

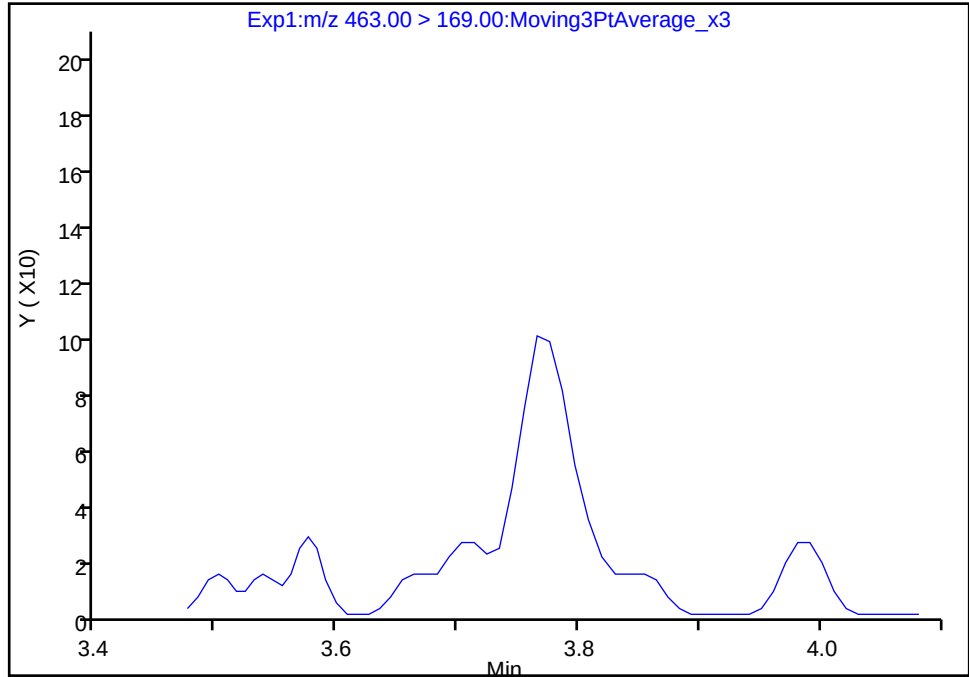
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

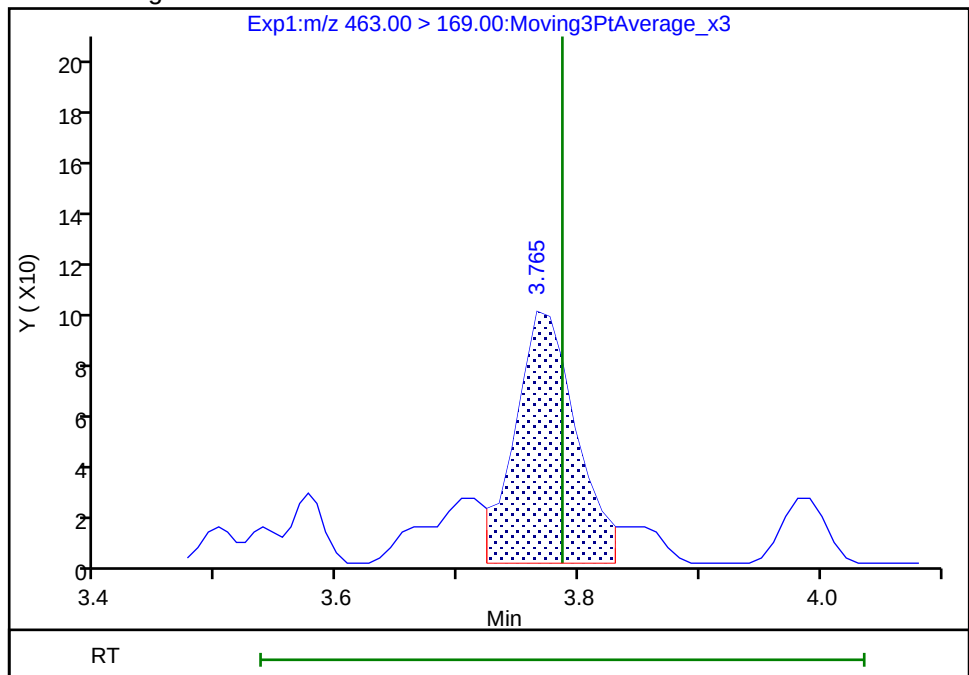
Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.77
Area: 336
Amount: 0.007292
Amount Units: ng/ml



Reviewer: chirgwinb, 25-Sep-2020 10:40:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 423 of 897

Eurofins TestAmerica, Burlington

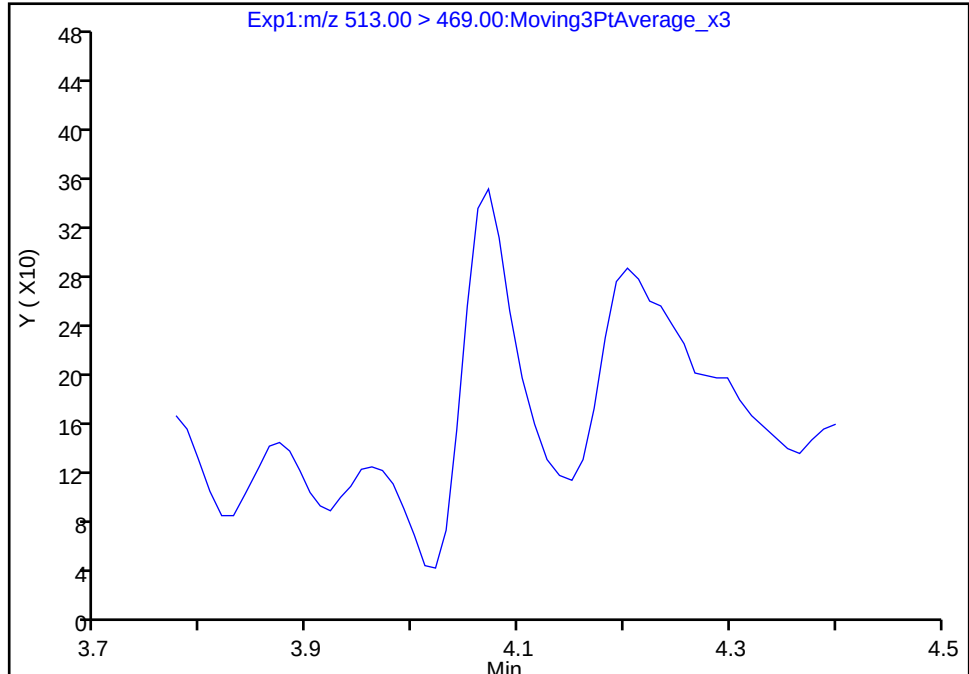
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

24 Perfluorodecanoic acid, CAS: 335-76-2

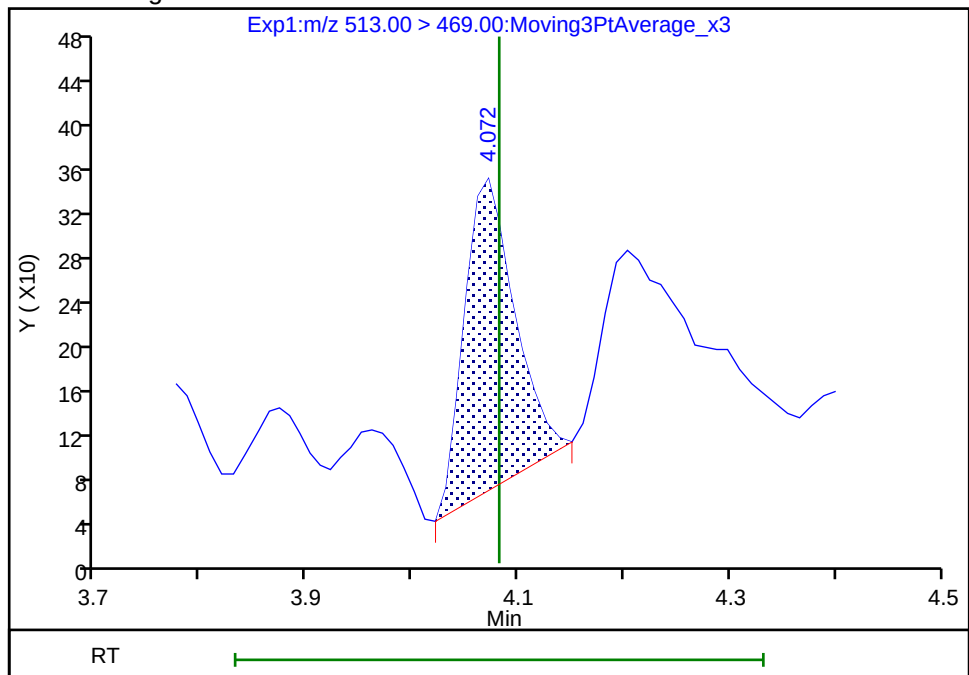
Signal: 1

Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.07
Area: 938
Amount: 0.001939
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:58:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

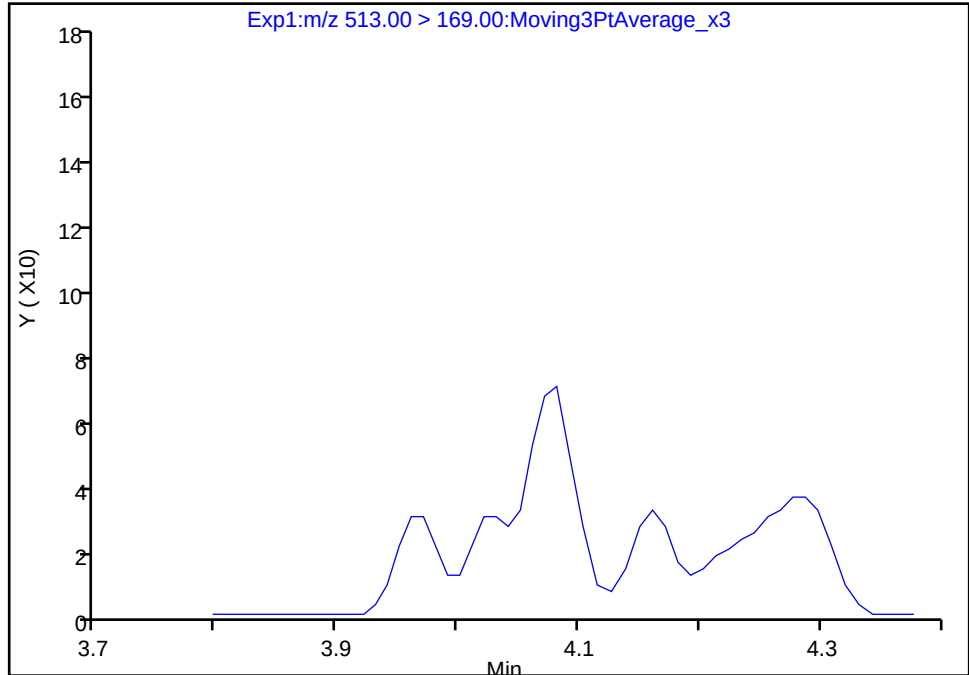
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

24 Perfluorodecanoic acid, CAS: 335-76-2

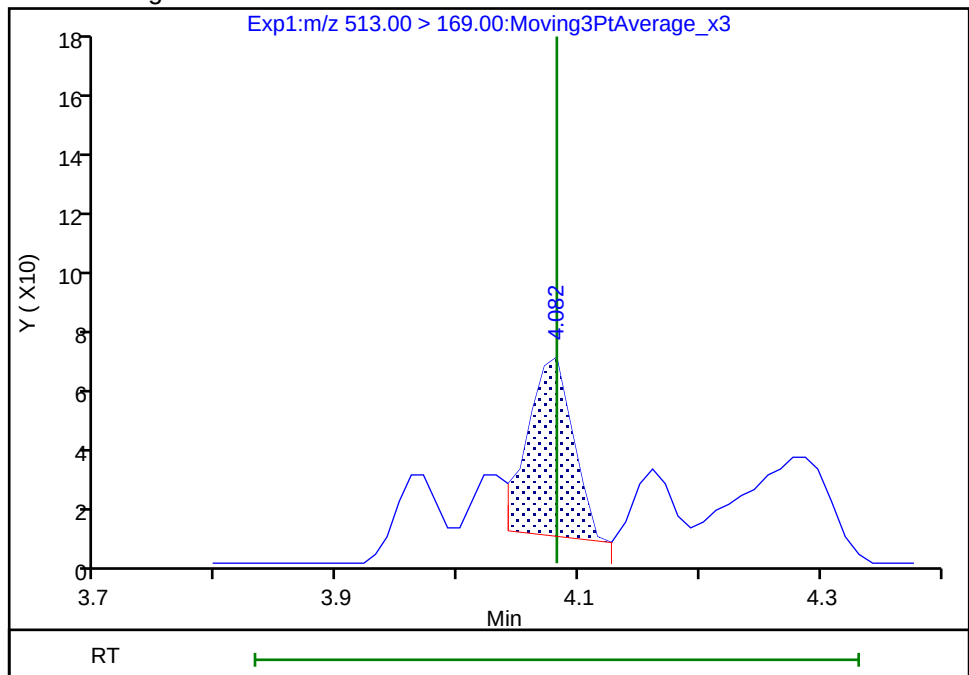
Signal: 2

Not Detected
Expected RT: 4.08

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:58:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 425 of 897

Eurofins TestAmerica, Burlington

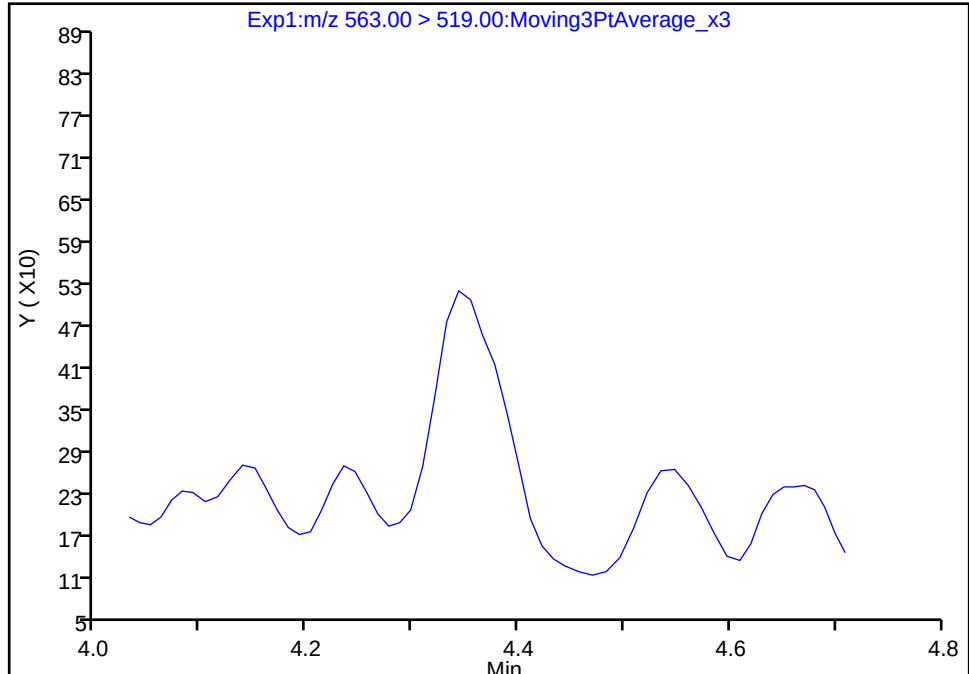
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

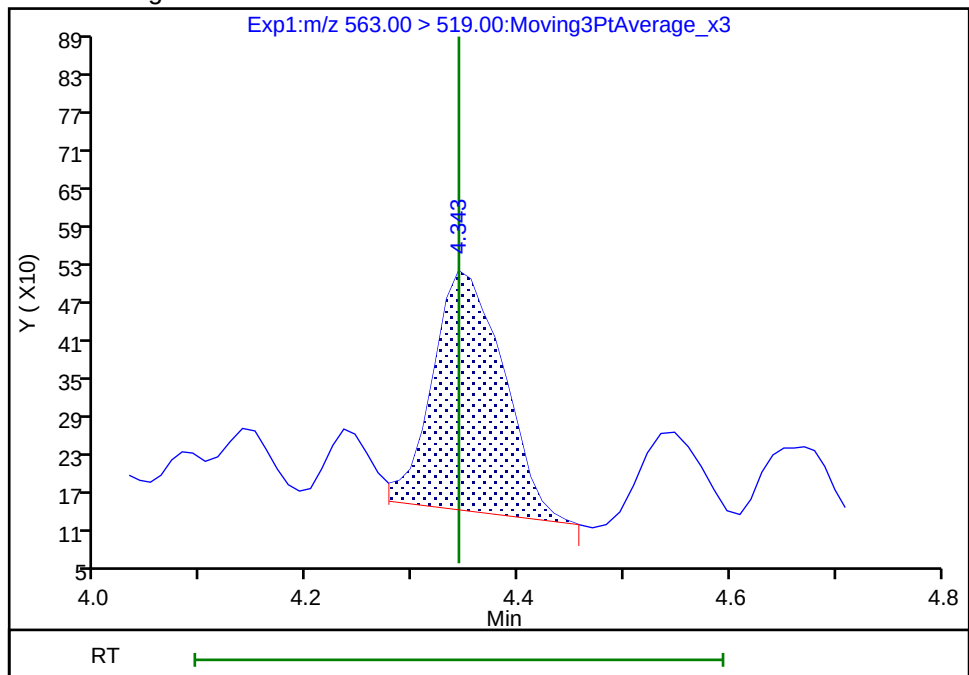
Signal: 1

Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results



RT: 4.34
Area: 1756
Amount: 0.005384
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

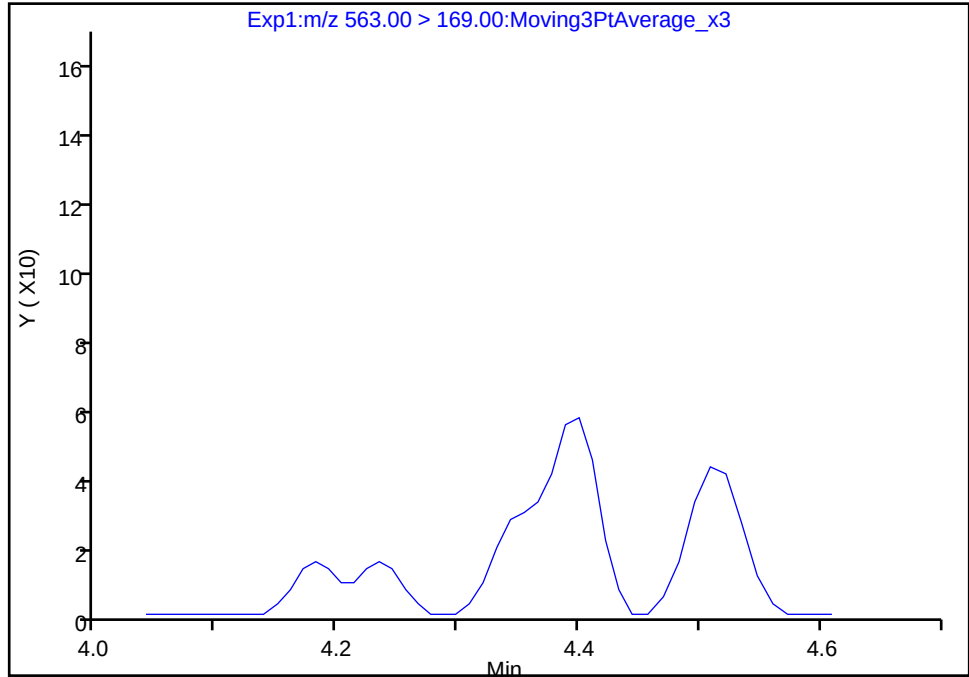
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

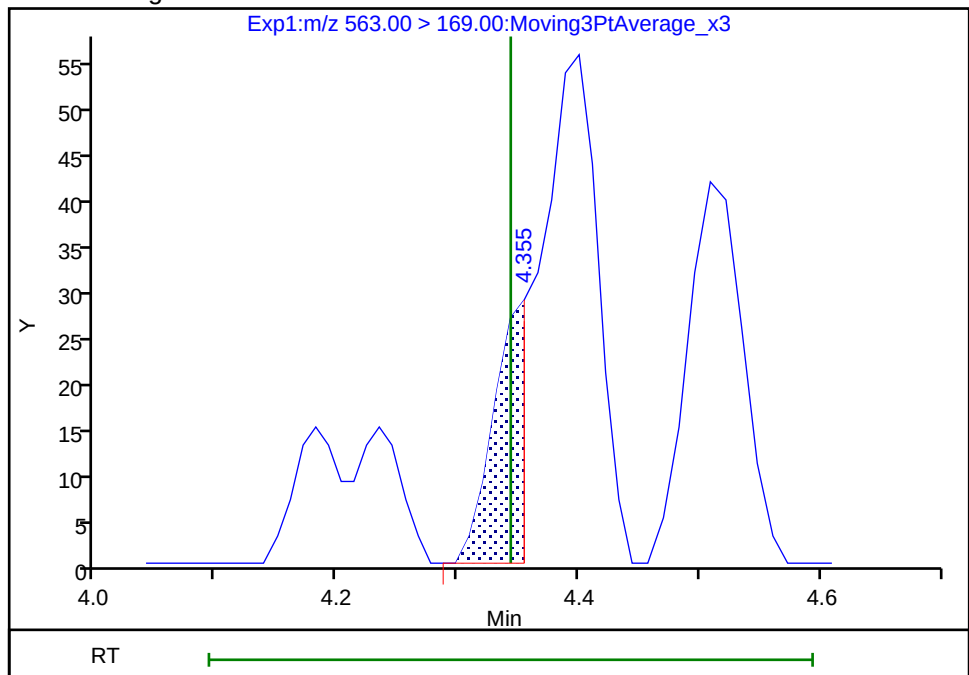
Signal: 2

Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results



RT: 4.35
Area: 49
Amount: 0.005384
Amount Units: ng/ml

Reviewer: chirgwinb, 25-Sep-2020 10:41:07

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

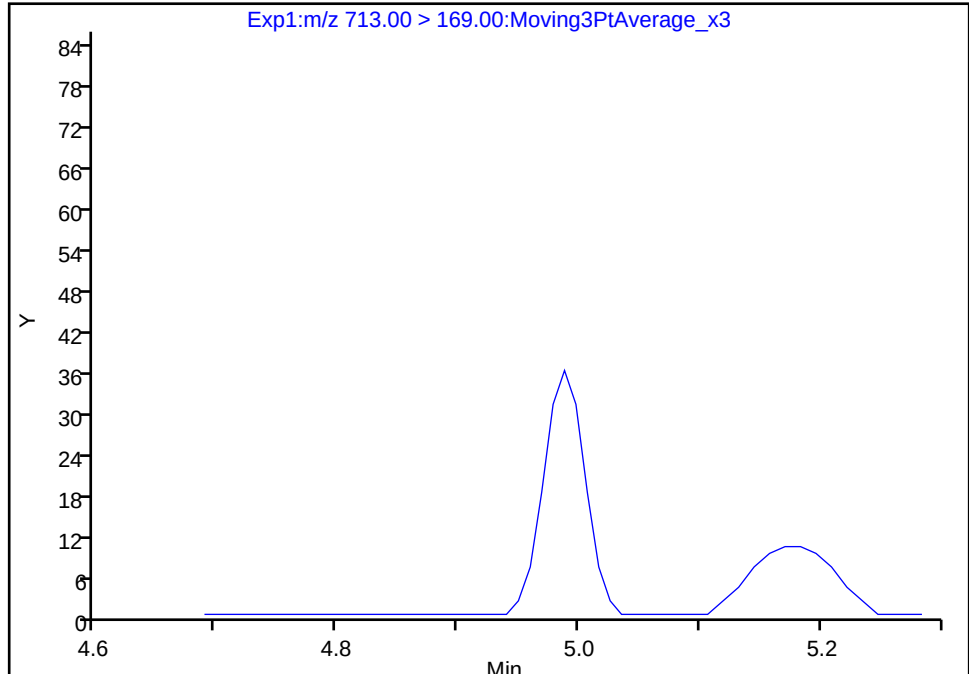
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

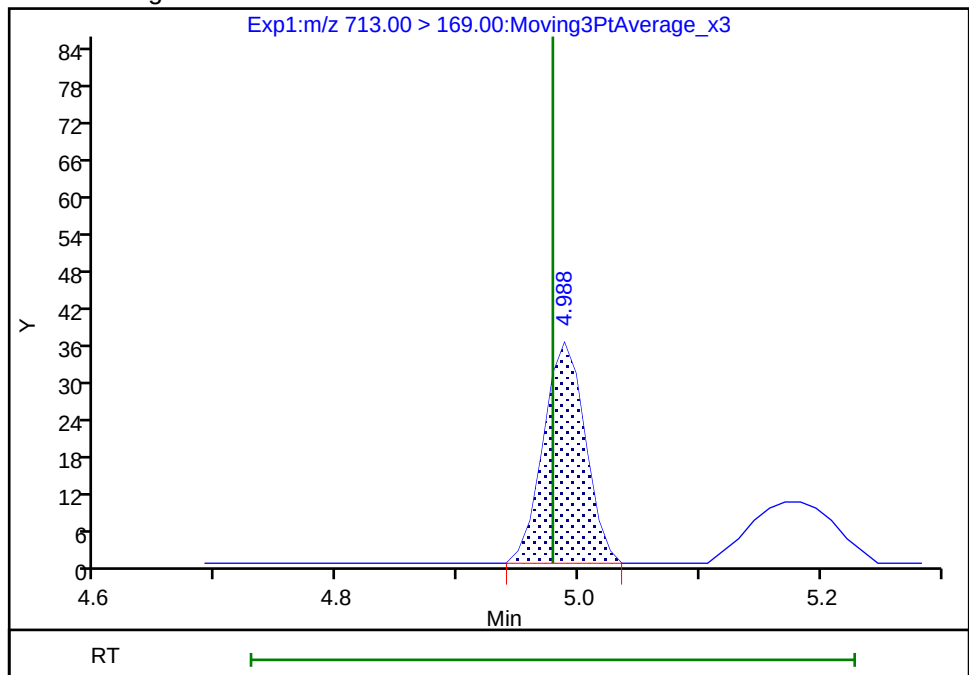
Not Detected
Expected RT: 4.98

Processing Integration Results



RT: 4.99
Area: 86
Amount: 0.001489
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:58:48
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 428 of 897

Eurofins TestAmerica, Burlington

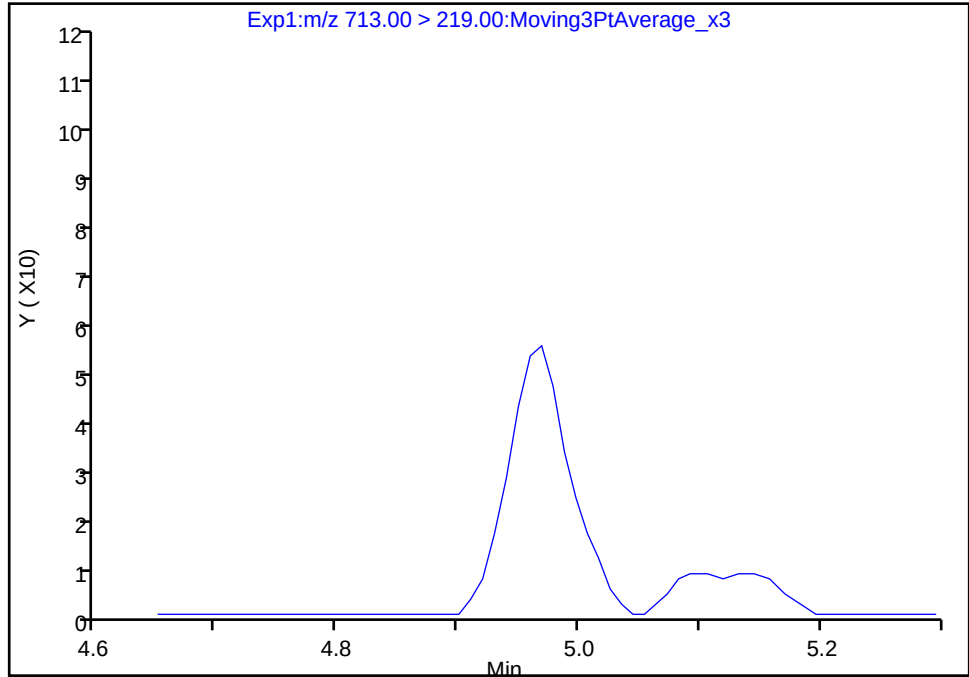
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

42 Perfluorotetradecanoic acid, CAS: 376-06-7

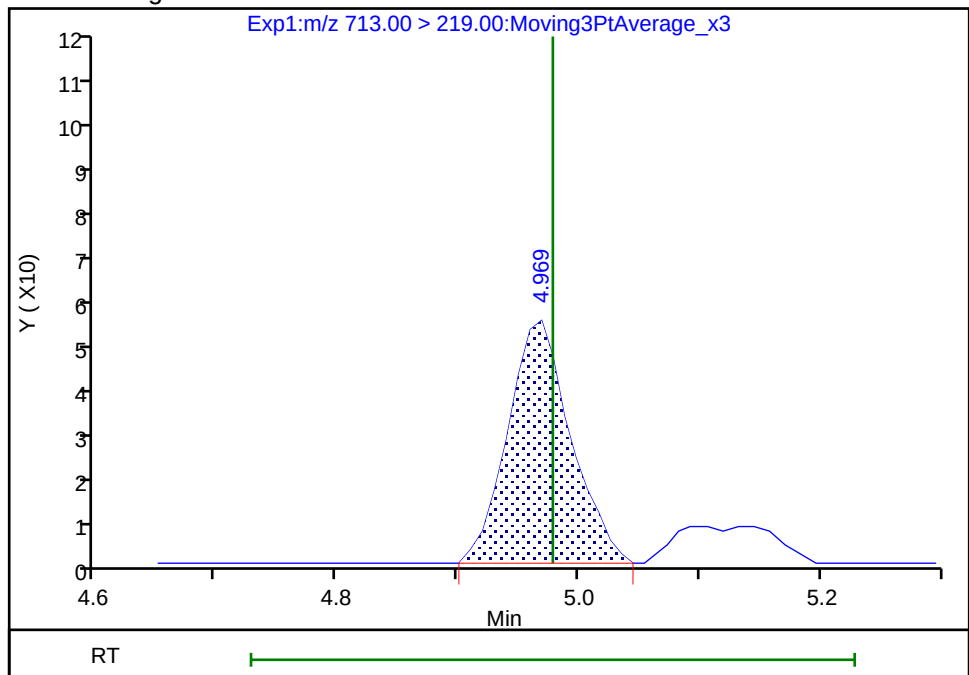
Signal: 2

Not Detected
Expected RT: 4.98

Processing Integration Results

RT: 4.97
Area: 191
Amount: 0.001489
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:58:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 429 of 897

Eurofins TestAmerica, Burlington

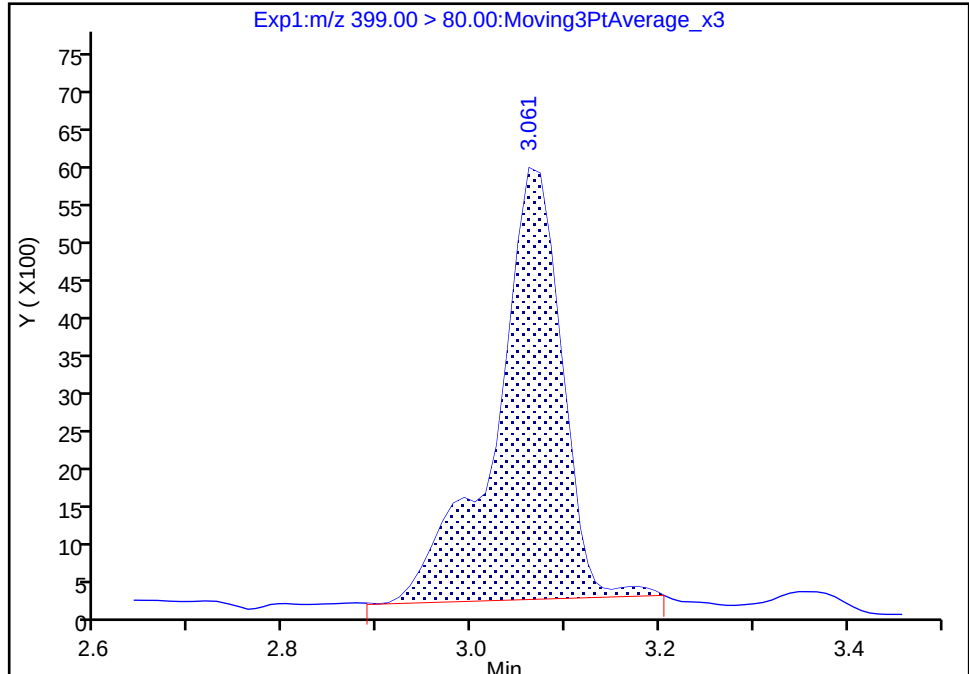
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

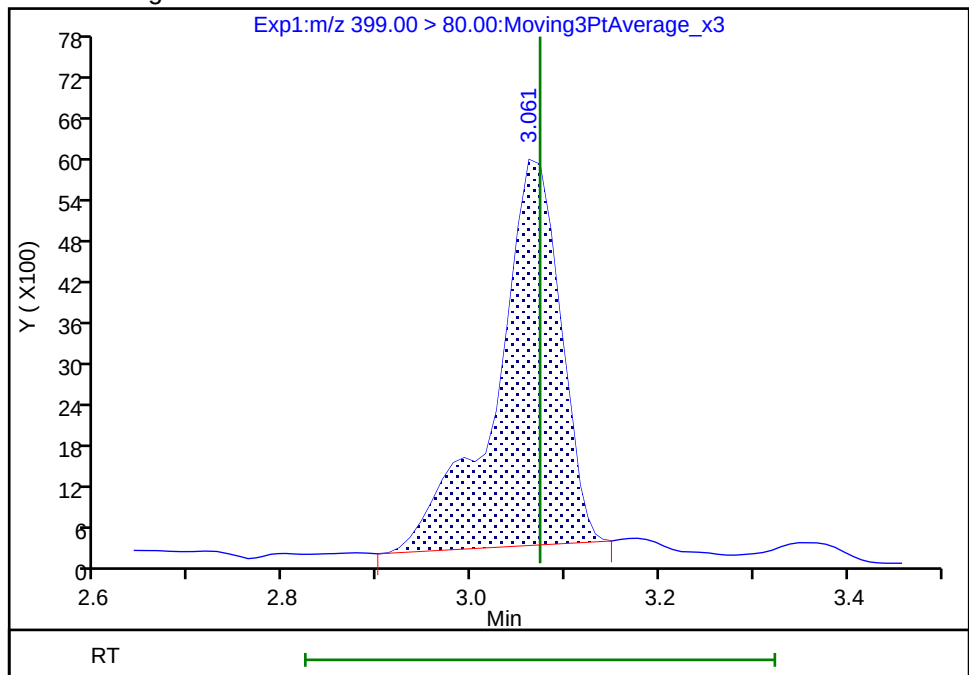
RT: 3.06
Area: 28268
Amount: 0.044634
Amount Units: ng/ml

Processing Integration Results



RT: 3.06
Area: 27197
Amount: 0.042942
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:56:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

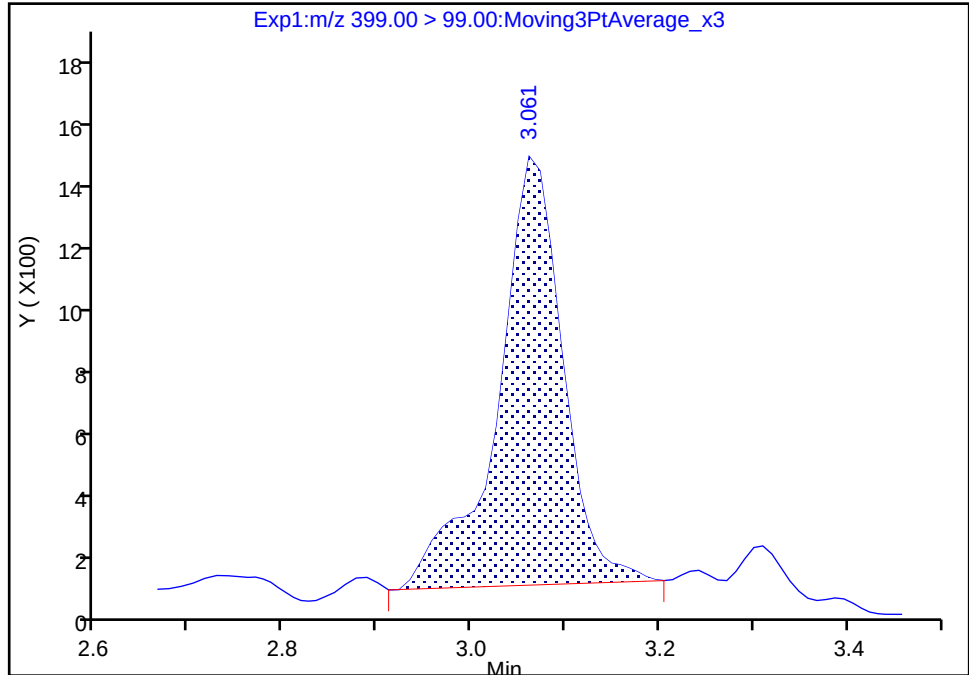
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

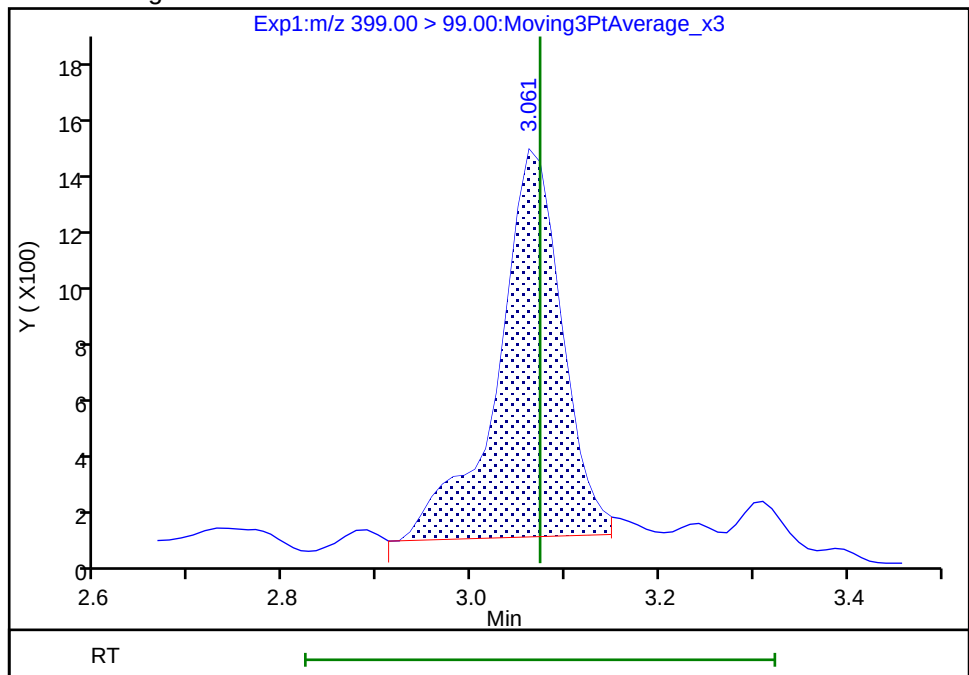
RT: 3.06
Area: 6441
Amount: 0.044634
Amount Units: ng/ml

Processing Integration Results



RT: 3.06
Area: 6347
Amount: 0.042942
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:56:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

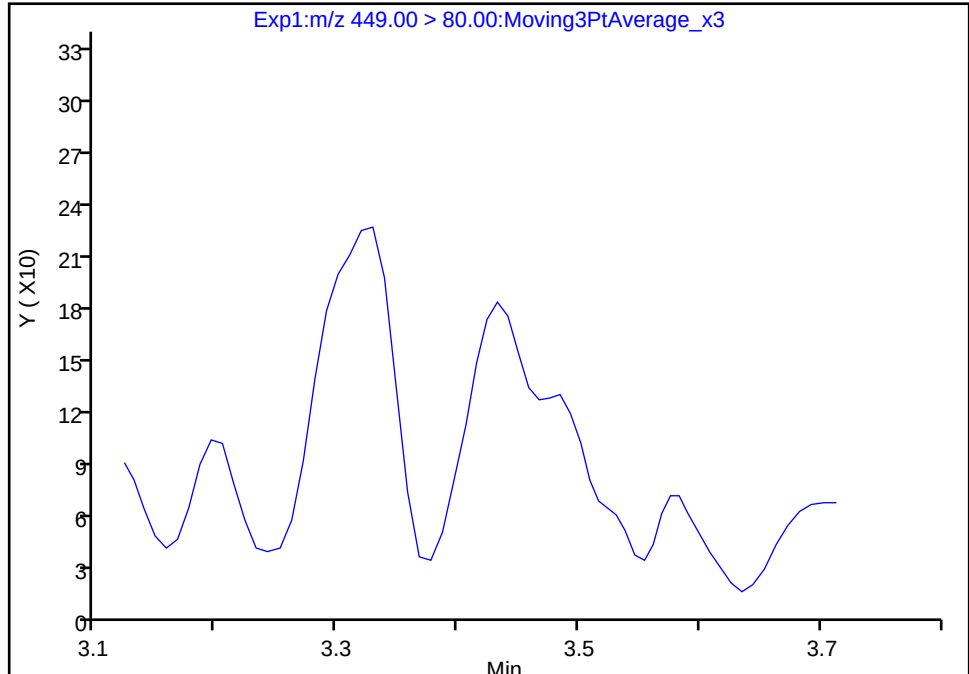
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

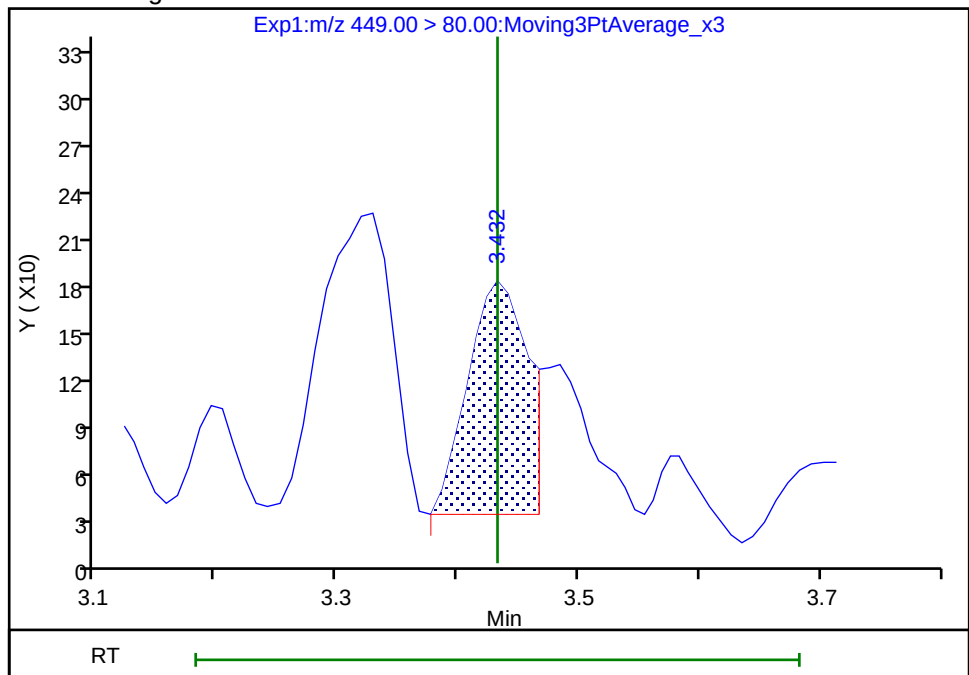
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43
Area: 496
Amount: 0.000938
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:57:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

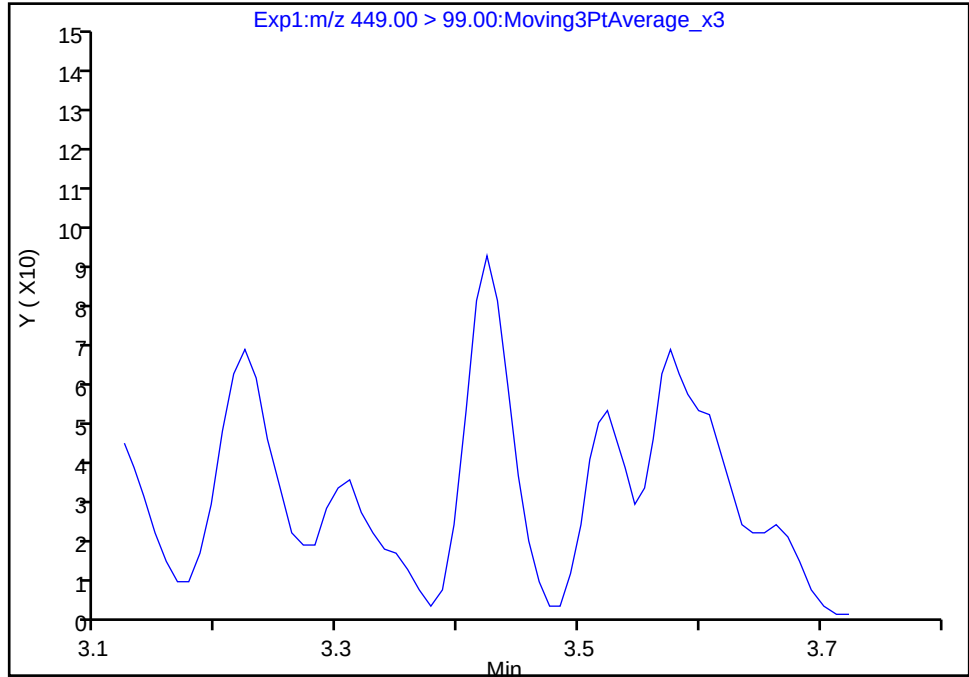
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

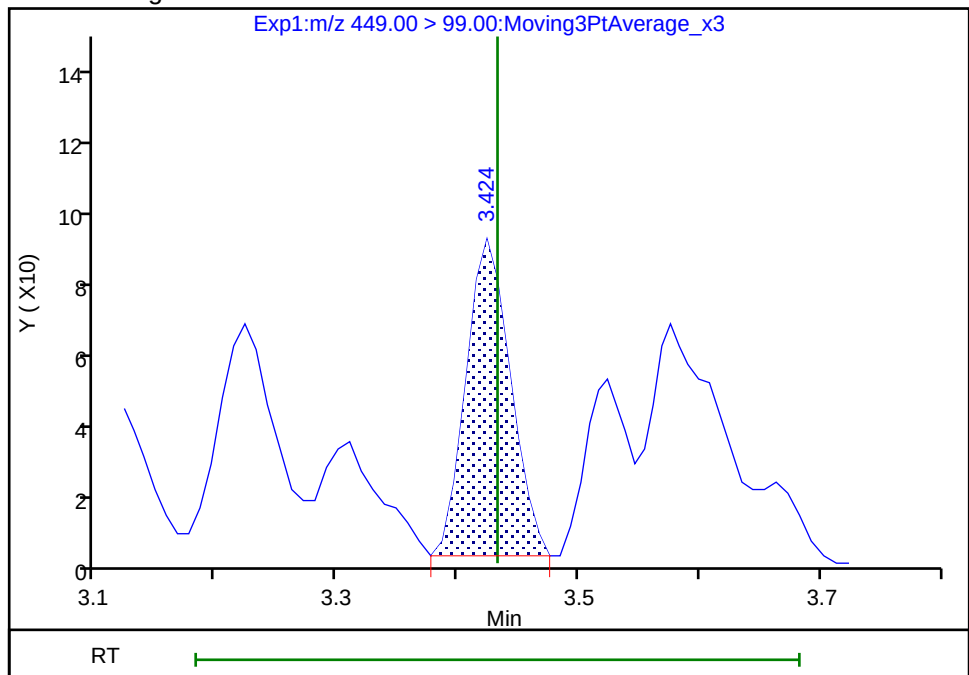
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.42
Area: 219
Amount: 0.000938
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:57:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

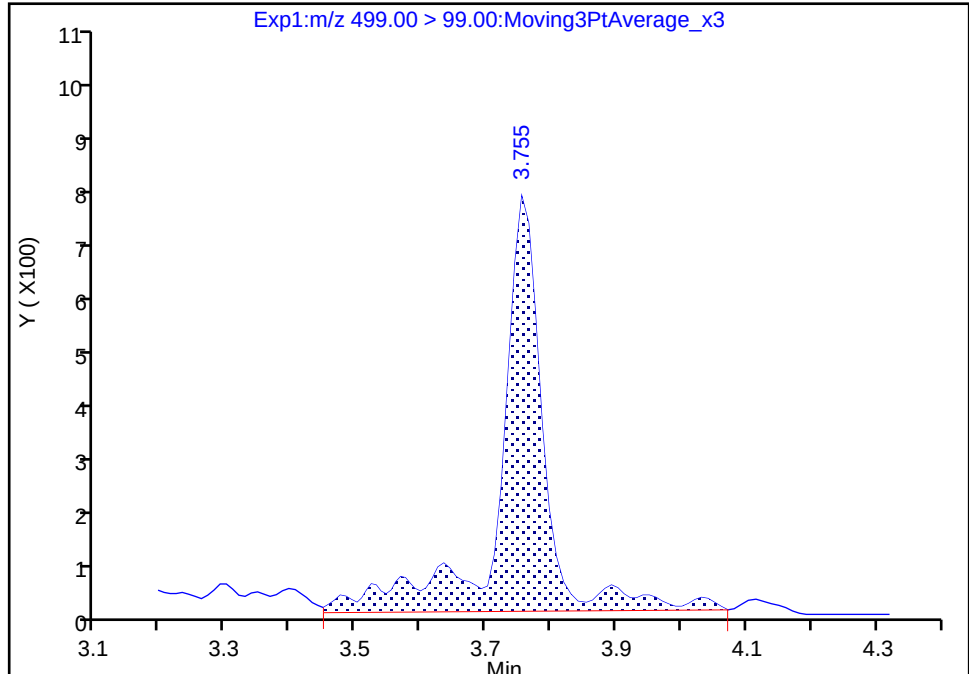
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

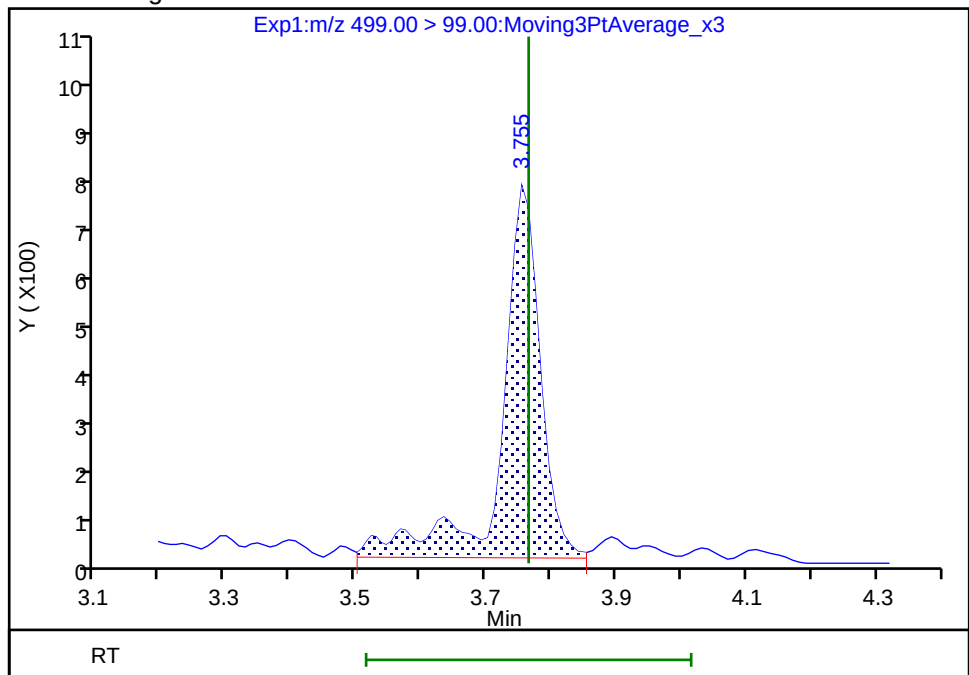
RT: 3.75
Area: 3513
Amount: 0.051527
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 3041
Amount: 0.047432
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:39:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 434 of 897

Eurofins TestAmerica, Burlington

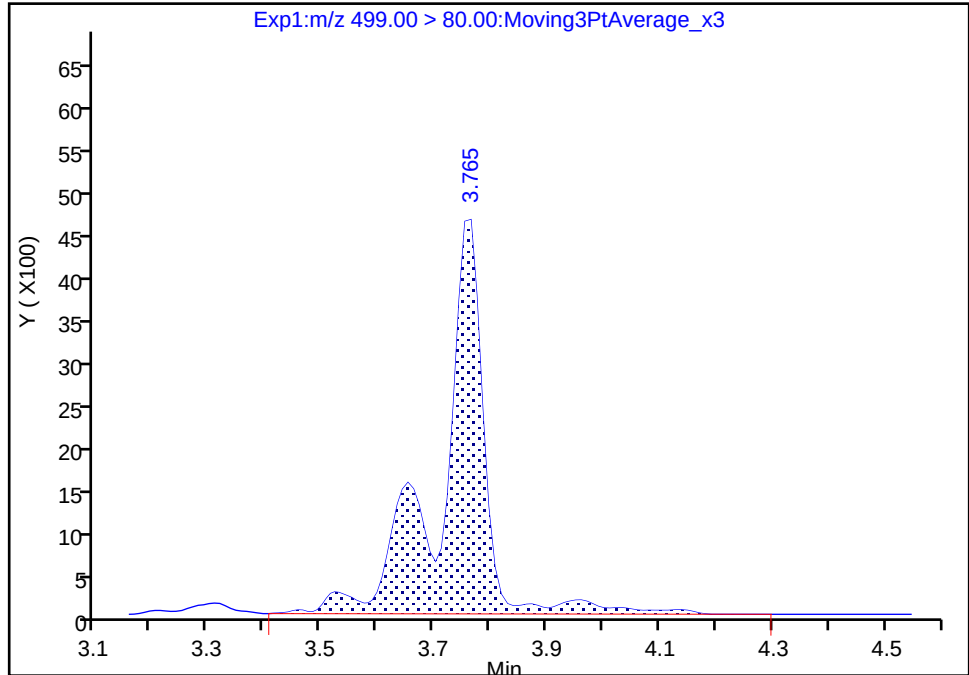
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

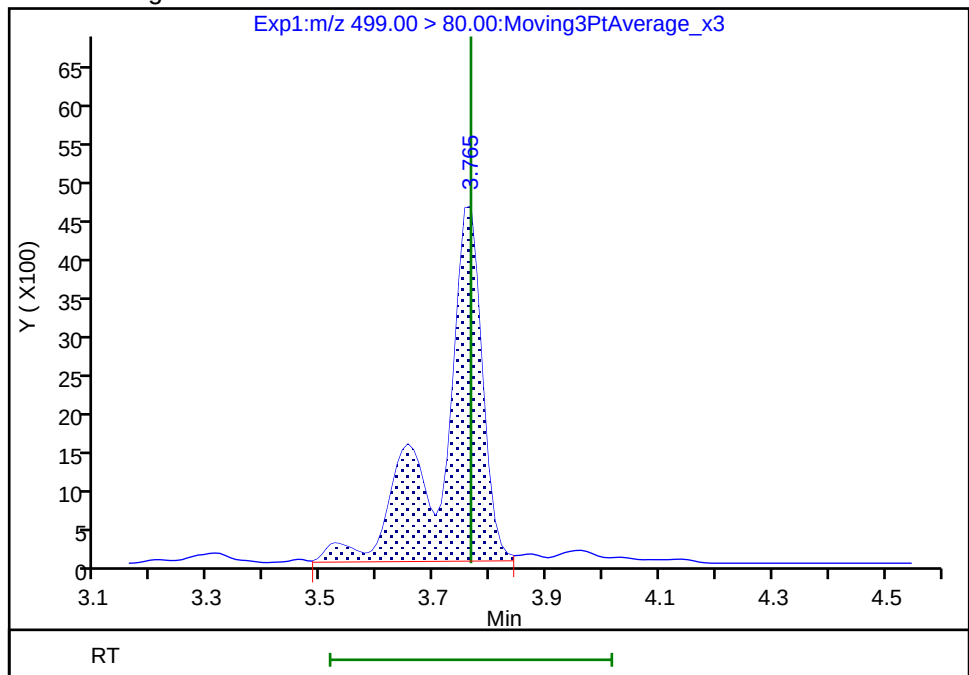
RT: 3.77
Area: 25544
Amount: 0.051527
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 23514
Amount: 0.047432
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:39:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

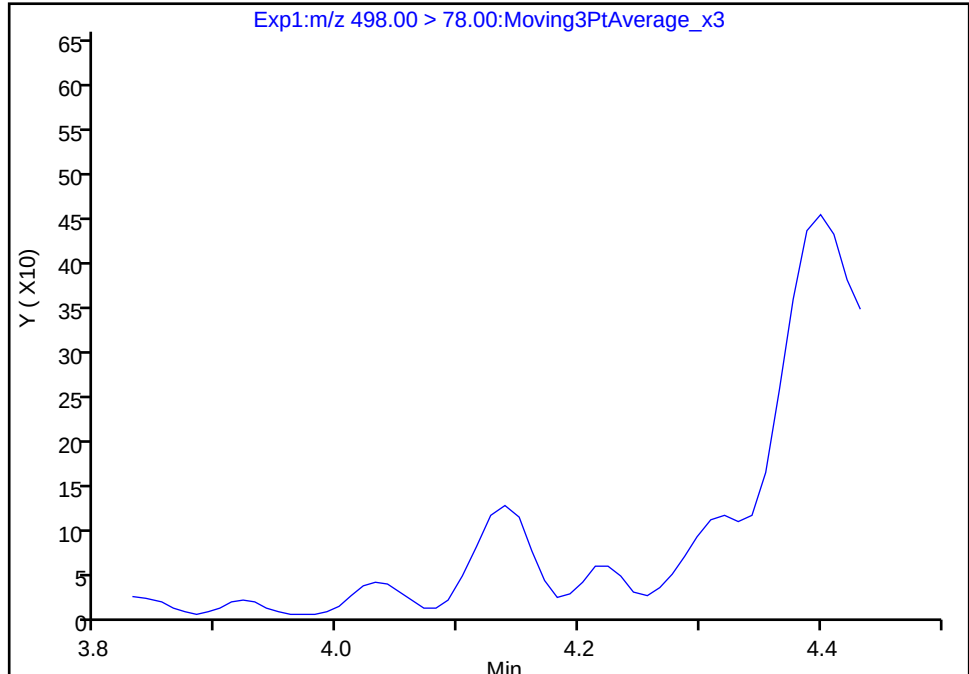
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

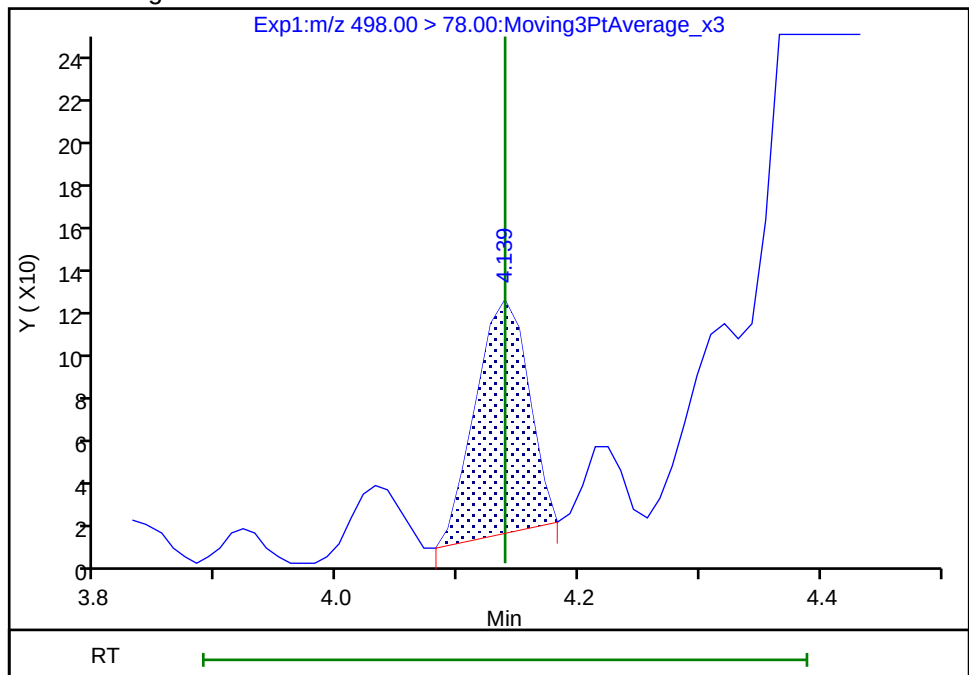
Not Detected
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14
Area: 330
Amount: 0.000514
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:58:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

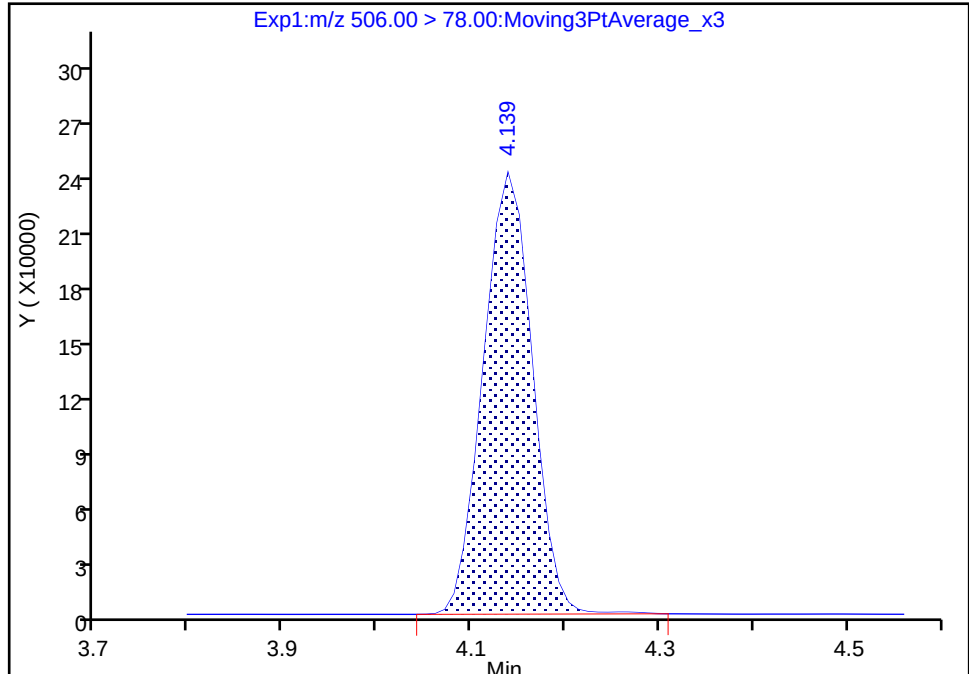
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

D 21 13C8 FOSA, CAS: STL01056

Signal: 1

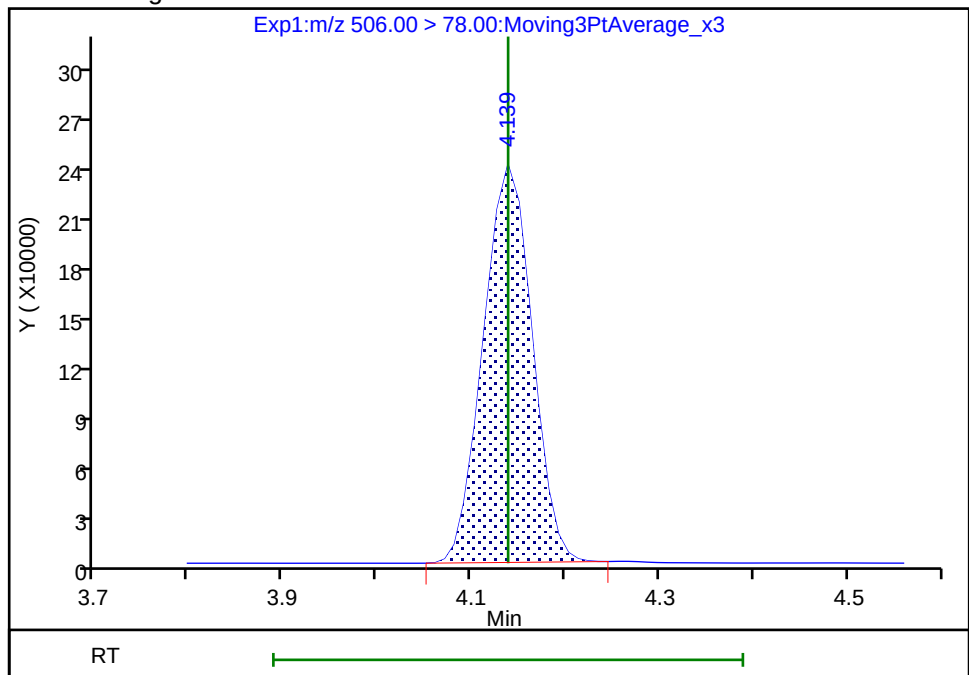
RT: 4.14
Area: 865878
Amount: 1.040240
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 859094
Amount: 1.032090
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:56:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

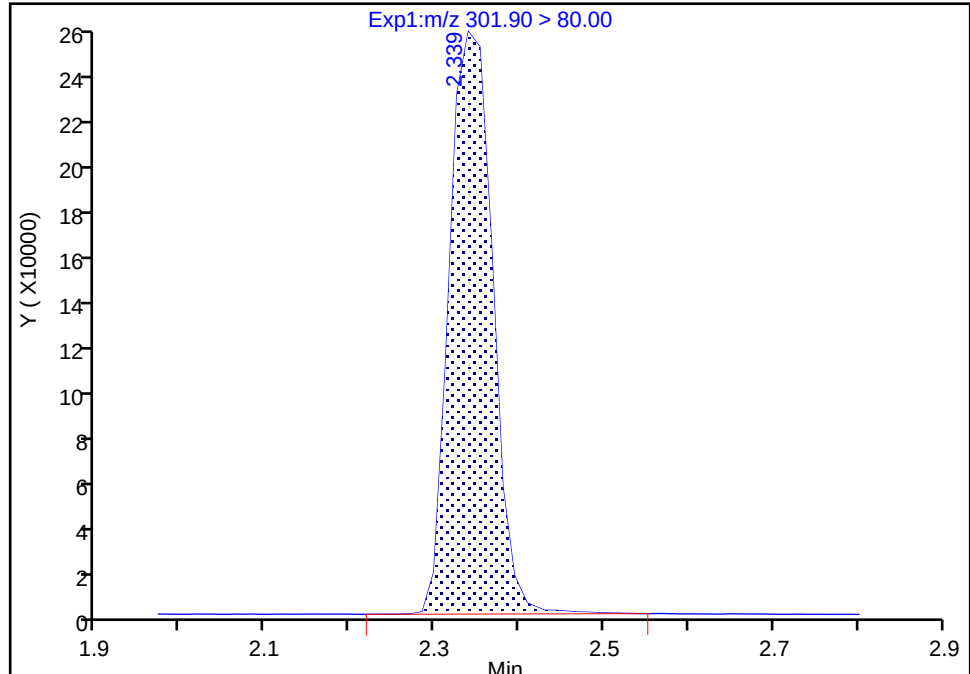
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d		
Injection Date:	24-Sep-2020 17:53:16	Instrument ID:	LC812
Lims ID:	480-175175-C-2-A	Lab Sample ID:	200-175175-2
Client ID:	CC-MW-2		
Operator ID:	lc812tech	ALS Bottle#:	13
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	13

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

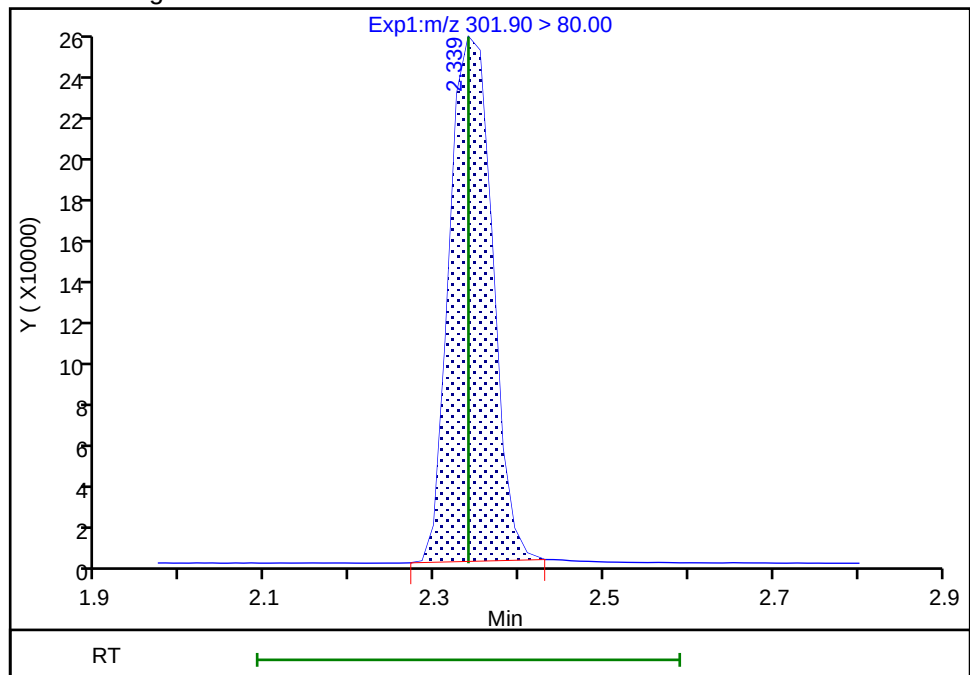
RT: 2.34
Area: 891353
Amount: 1.097676
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 878757
Amount: 1.082164
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:56:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

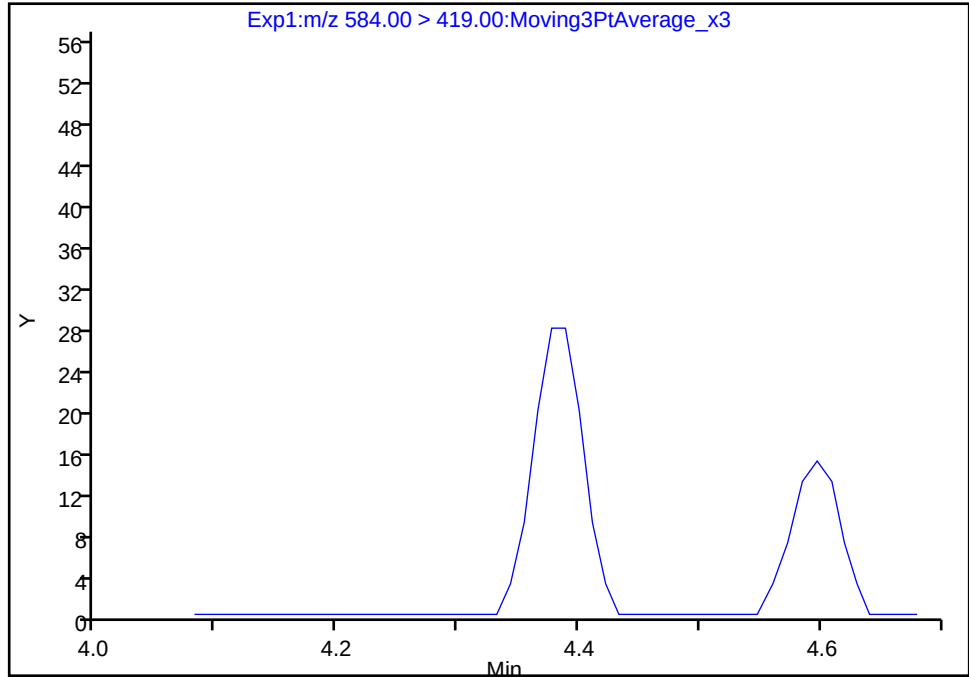
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

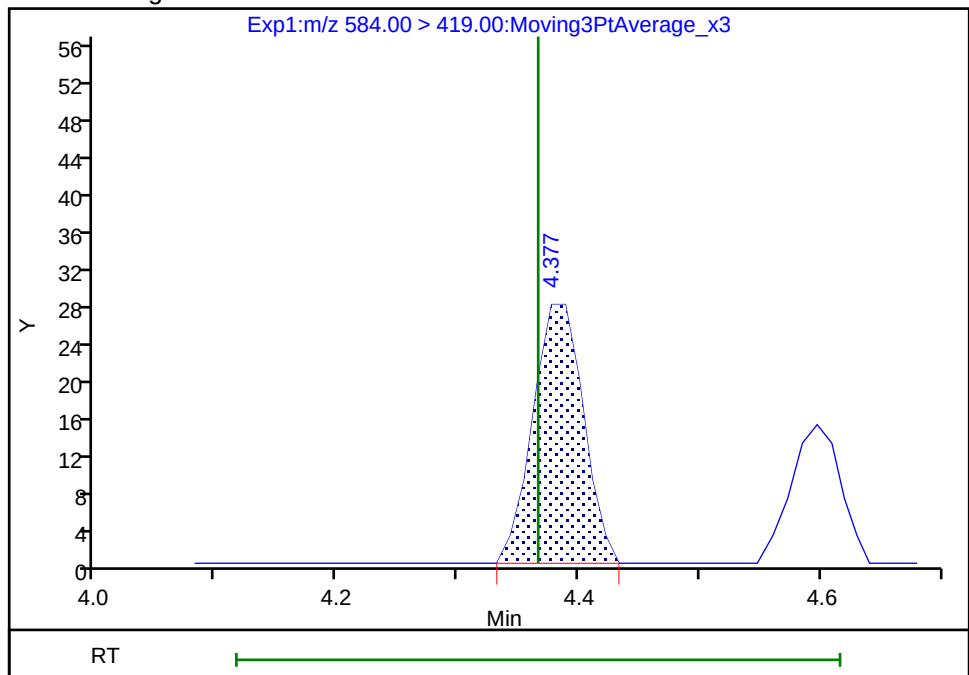
Signal: 1

Not Detected
Expected RT: 4.37

Processing Integration Results



Manual Integration Results



RT: 4.38
Area: 81
Amount: 0.002881
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:58:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

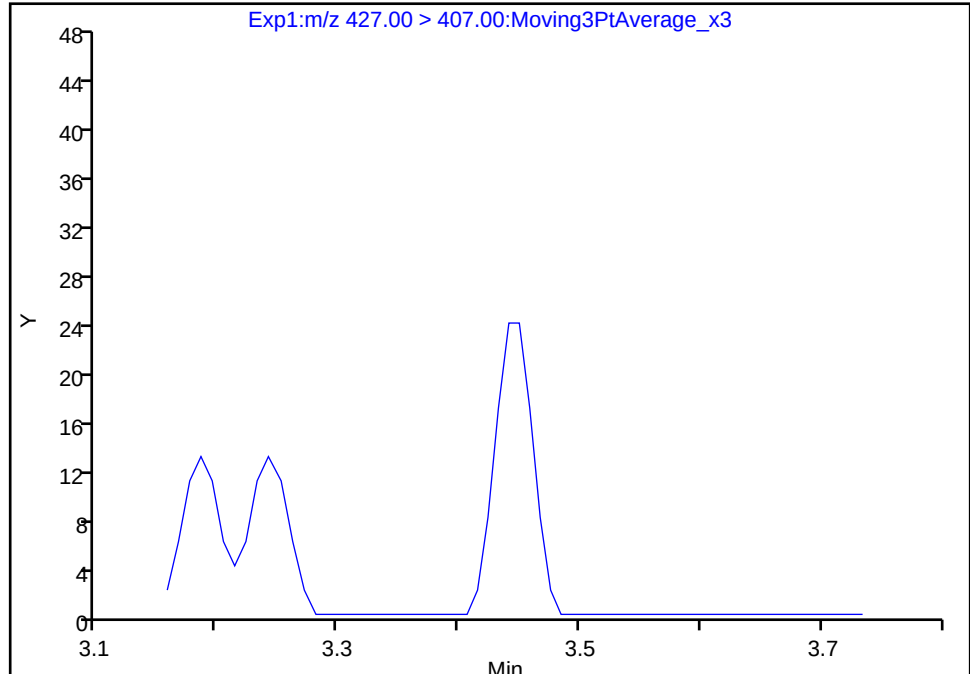
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

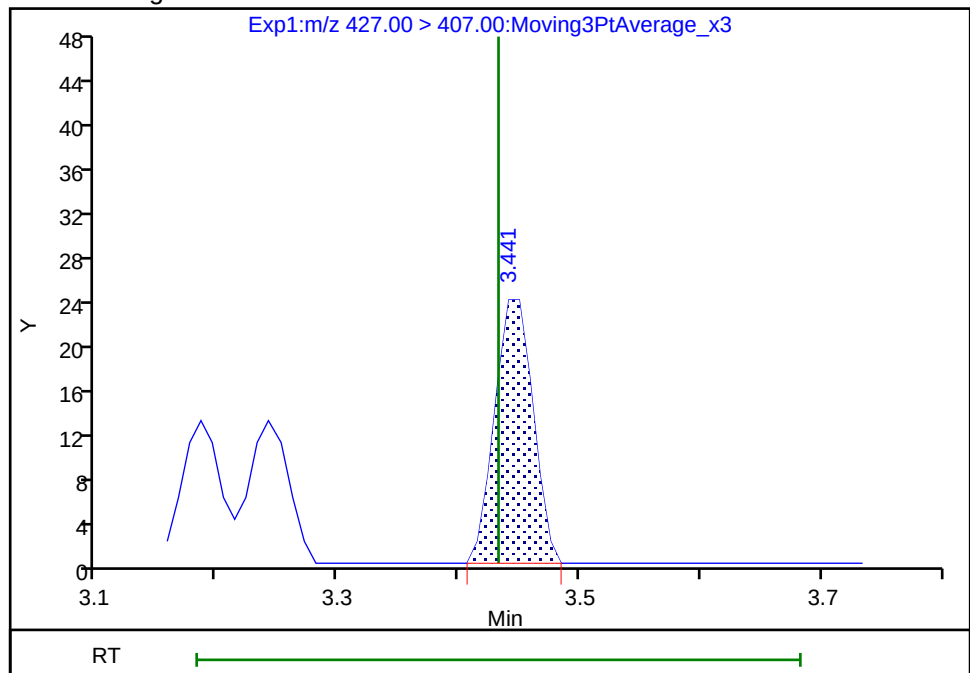
Not Detected
Expected RT: 3.43

Processing Integration Results



RT: 3.44
Area: 52
Amount: 0.000822
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:57:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

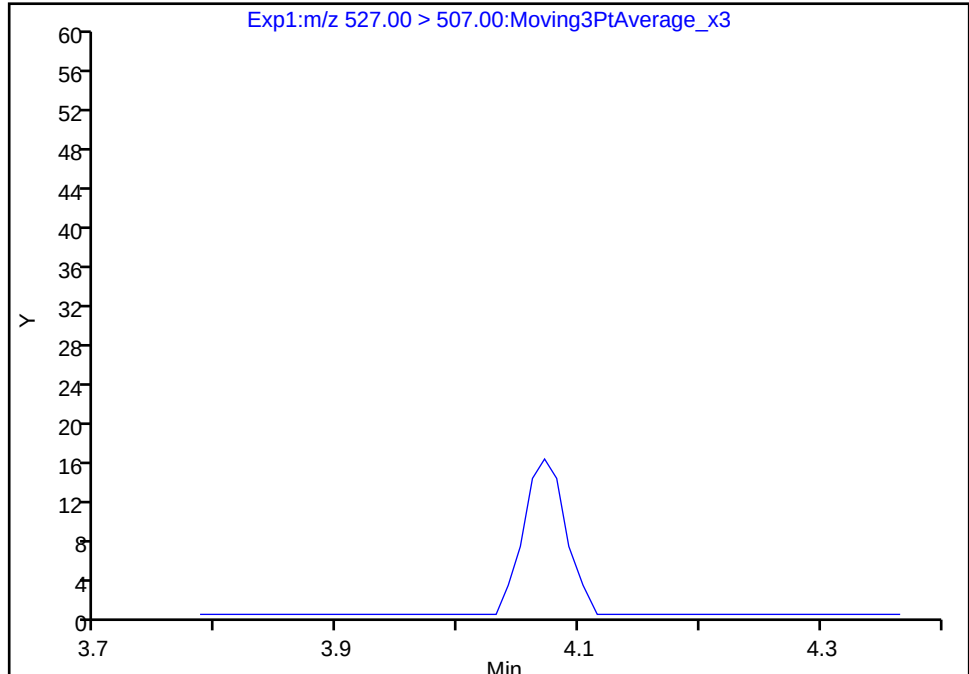
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B13.d
Injection Date: 24-Sep-2020 17:53:16 Instrument ID: LC812
Lims ID: 480-175175-C-2-A Lab Sample ID: 200-175175-2
Client ID: CC-MW-2
Operator ID: lc812tech ALS Bottle#: 13 Worklist Smp#: 13
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

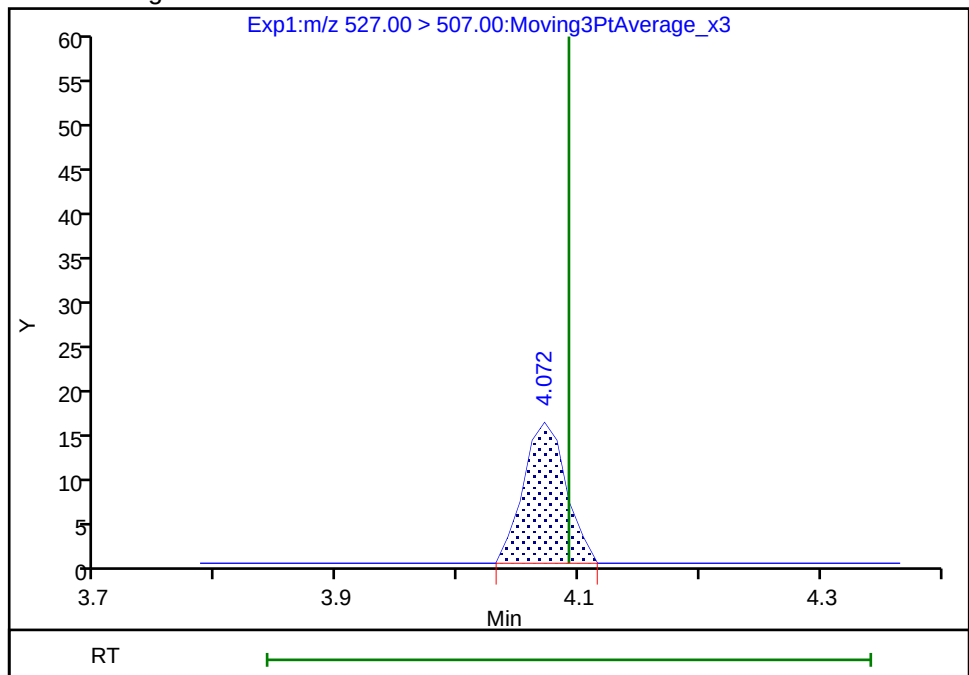
Not Detected
Expected RT: 4.09

Processing Integration Results



RT: 4.07
Area: 39
Amount: 0.001137
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:58:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: CC-MW-4 Lab Sample ID: 480-175175-5

Matrix: Water Lab File ID: PA200924B14.d

Analysis Method: 537 (modified) Date Collected: 09/15/2020 16:25

Extraction Method: 3535 Date Extracted: 09/24/2020 07:00

Sample wt/vol: 280.6(mL) Date Analyzed: 09/24/2020 18:01

Con. Extract Vol.: 10(mL) Dilution Factor: 1

Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 159169 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	3.1	J	4.5	1.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	5.1		1.8	0.96
307-24-4	Perfluorohexanoic acid (PFHxA)	4.2		1.8	0.74
375-85-9	Perfluoroheptanoic acid (PFHpA)	2.6		1.8	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	4.2		1.8	0.87
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.52
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.65
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.41
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.53
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.9		1.8	0.56
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	2.9		1.8	0.60
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.43
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.78
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.51
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.70
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.83
27619-97-2	6:2 FTS	ND		4.5	0.64
39108-34-4	8:2 FTS	ND		1.8	0.59

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-4 Lab Sample ID: 480-175175-5
 Matrix: Water Lab File ID: PA200924B14.d
 Analysis Method: 537 (modified) Date Collected: 09/15/2020 16:25
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 280.6(mL) Date Analyzed: 09/24/2020 18:01
 Con. Extract Vol.: 10(mL) Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	85		25-150
STL00992	13C4 PFBA	94		25-150
STL01893	13C5 PFPeA	100		25-150
STL00993	13C2 PFHxA	98		50-150
STL01892	13C4 PFHpA	101		50-150
STL00990	13C4 PFOA	99		50-150
STL00995	13C5 PFNA	97		50-150
STL00996	13C2 PFDA	87		50-150
STL00997	13C2 PFUnA	86		50-150
STL00998	13C2 PFDoA	77		50-150
STL02116	13C2 PFTeDA	79		50-150
STL02337	13C3 PFBS	93		50-150
STL00994	18O2 PFHxS	99		50-150
STL00991	13C4 PFOS	97		50-150
STL02118	d3-NMeFOSAA	76		50-150
STL02117	d5-NEtFOSAA	88		50-150
STL02279	M2-6:2 FTS	100		25-150
STL02280	M2-8:2 FTS	90		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
 Lims ID: 480-175175-D-5-A
 Client ID: CC-MW-4
 Sample Type: Client
 Inject. Date: 24-Sep-2020 18:01:34 ALS Bottle#: 14 Worklist Smp#: 14
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-175175-D-5-A
 Misc. Info.: 200-0042936-014 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 09:01:45

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.981	1.981	0.0	0.576	1030873	1.17		93.7	6153	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.981	1.990	-0.009	1.000	66917	0.0868			8.9	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.676	792821	1.26		100	3437	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.326	2.326	0.0	1.000	95904	0.1432			4.6	
D 47 13C3 PFBS										M
301.90 > 80.00	2.339	2.339	0.0	0.680	830123	1.08		92.9	60176	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.339	2.339	0.0	1.000	98092	0.1379	Target=2.07		34.3	M
298.90 > 99.00	2.339	2.339	0.0	1.000	45407		2.16(1.04-3.11)		43.0	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.691	2.691	0.0	0.782	799944	1.23		98.5	2668	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.691	2.691	0.0	1.000	76747	0.1191	Target=12.44		19.7	
313.00 > 119.00	2.691	2.691	0.0	1.000	6013		12.76(6.22-18.66)		21.2	
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.893	646994	1.17		99.2	3958	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	48932	0.0810	Target=4.60		51.3	
399.00 > 99.00	3.073	3.073	0.0	1.000	10775		4.54(2.30-6.91)		22.1	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.073	3.073	0.0	0.893	742925	1.26		101	3523	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.073	3.084	-0.011	1.000	42847	0.0719	Target=3.34		15.1	M
363.00 > 169.00	3.073	3.084	-0.011	1.000	10641		4.03(1.67-5.01)		40.4	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.424	3.433	-0.009	0.912	375	0.000738	Target=7.08	2.7		RM
449.00 > 99.00	3.415	3.433	-0.018	0.910	179		2.09(3.54-10.63)	1.7		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.008	1.003	153	0.002606		5.8		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.433	3.441	-0.008	0.997	87365	1.19		99.8	391	
D 14 13C4 PFOA										
417.00 > 372.00	3.441	3.441	0.0	1.000	749040	1.24		99.1	5744	
* 62 13C2 PFOA										
415.00 > 370.00	3.441	3.441	0.0		768130	1.25		3867		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.441	3.450	-0.009	1.000	72353	0.1170	Target=2.29	24.9		M
413.00 > 169.00	3.441	3.450	-0.009	1.000	35785		2.02(1.14-3.43)	63.9		M
D 18 13C4 PFOS										
503.00 > 80.00	3.755	3.765	-0.010	1.091	523965	1.16		97.2	2228	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.654	3.765	-0.111	0.973	7268	0.0153	Target=7.10	13.1		M
499.00 > 99.00	3.673	3.765	-0.092	0.978	1301		5.59(3.55-10.64)	6.2		M
D 19 13C5 PFNA										
468.00 > 423.00	3.776	3.786	-0.010	1.097	615705	1.21		96.6	3357	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.776	3.786	-0.010	1.000	2026	0.004039	Target=5.83	1.1		M
463.00 > 169.00	3.776	3.786	-0.010	1.000	405		5.00(2.91-8.74)	8.3		M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.082	0.0	1.186	530491	1.09		86.8	3107	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.092	4.092	0.0	1.000	41	0.001323				M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.189	93759	1.08		90.2	1031	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.203	833381	1.06		84.6	2673	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.139	4.139	0.0	1.000	3784	0.006071		17.1		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.224	0.0	1.228	26562	0.9543		76.3	619	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.257	4.224	0.033	1.008	40	0.001995		0.4		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.262	396986	1.08		86.1	3342	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.265	32840	1.10		87.8	504	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.343	4.366	-0.023	0.997	80	0.003326				M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.329	376218	0.9645		77.2	6122	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.573	4.573	0.0	1.000	834	0.002841	Target=5.16		1.6	RM
613.00 > 169.00	4.535	4.573	-0.038	0.992	39		21.38(2.58-7.75)		0.9	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.781	4.790	-0.009	1.045	305	0.001224	Target=3.30		0.4	M
663.00 > 169.00	4.781	4.790	-0.009	1.045	140		2.18(1.65-4.95)		5.3	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.978	0.001	1.447	272861	0.9820		78.6	2673	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.960	4.978	-0.018	0.996	49	0.000980	Target=1.06		2.7	RM
713.00 > 219.00	4.969	4.978	-0.009	0.998	166		0.30(0.53-1.59)		7.0	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d

Injection Date: 24-Sep-2020 18:01:34

Instrument ID: LC812

Lims ID: 480-175175-D-5-A

Lab Sample ID: 200-175175-5

Client ID: CC-MW-4

Operator ID: lc812tech

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

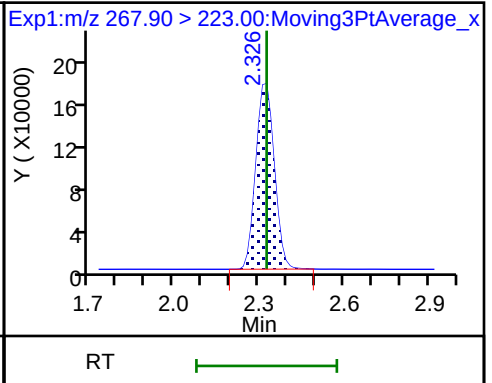
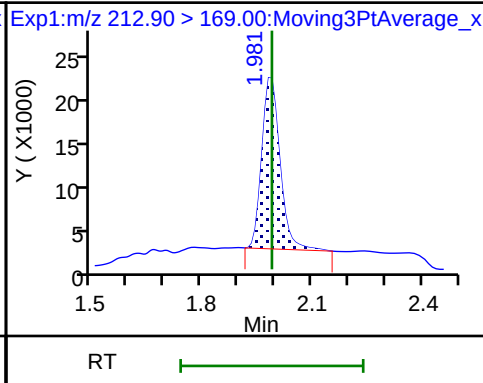
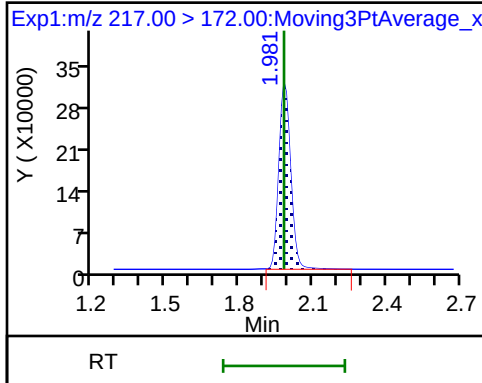
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

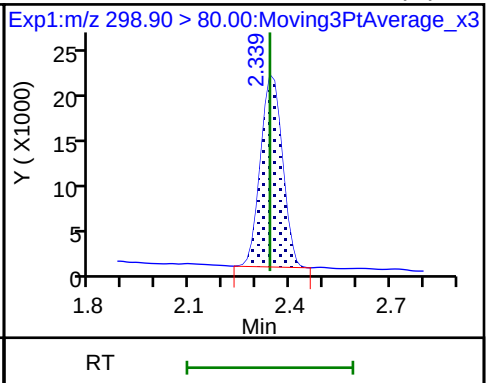
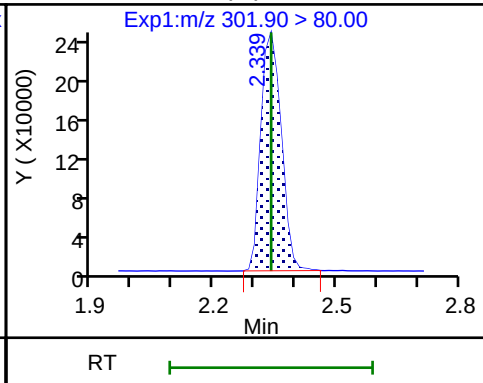
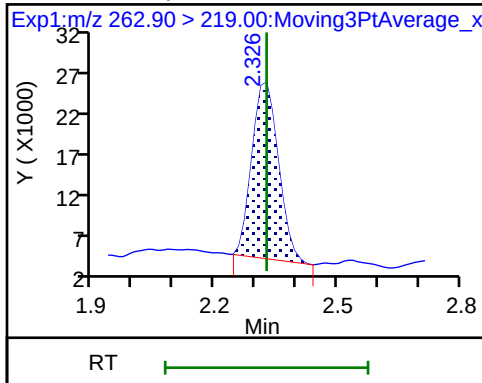
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

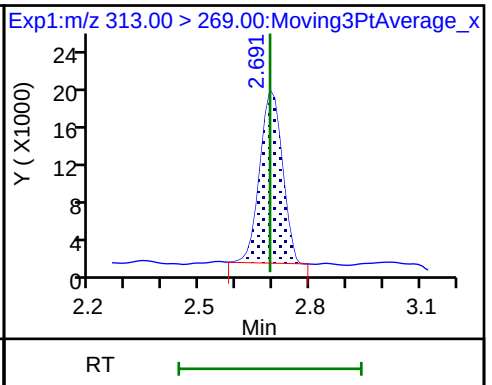
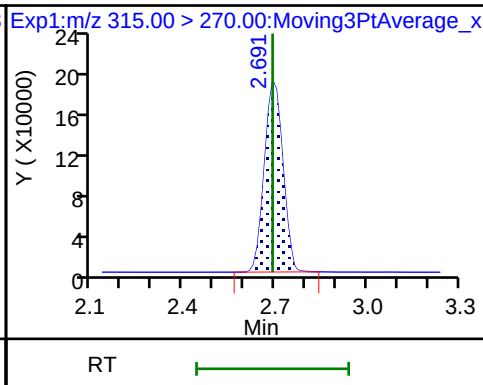
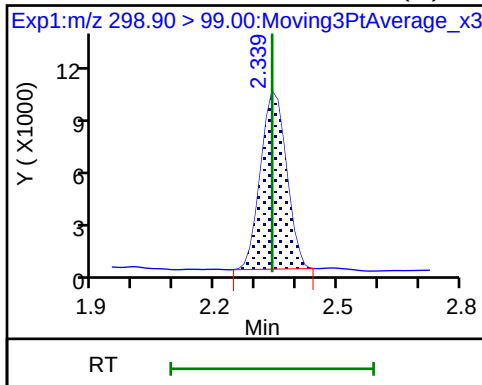
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

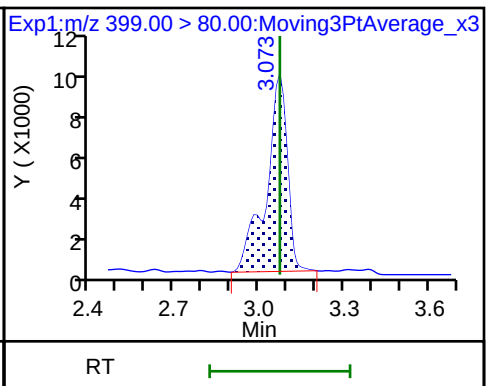
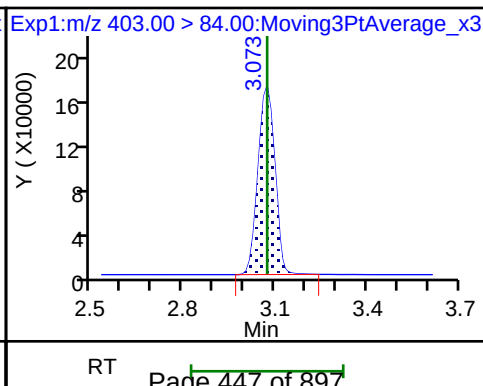
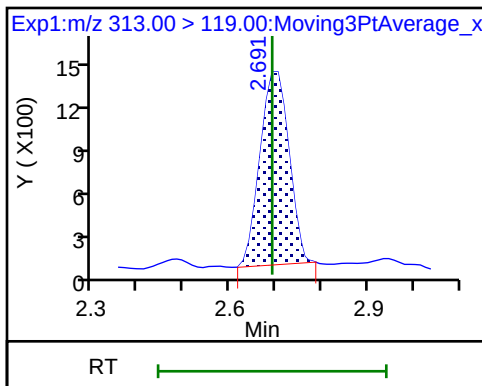
6 Perfluorohexanoic acid

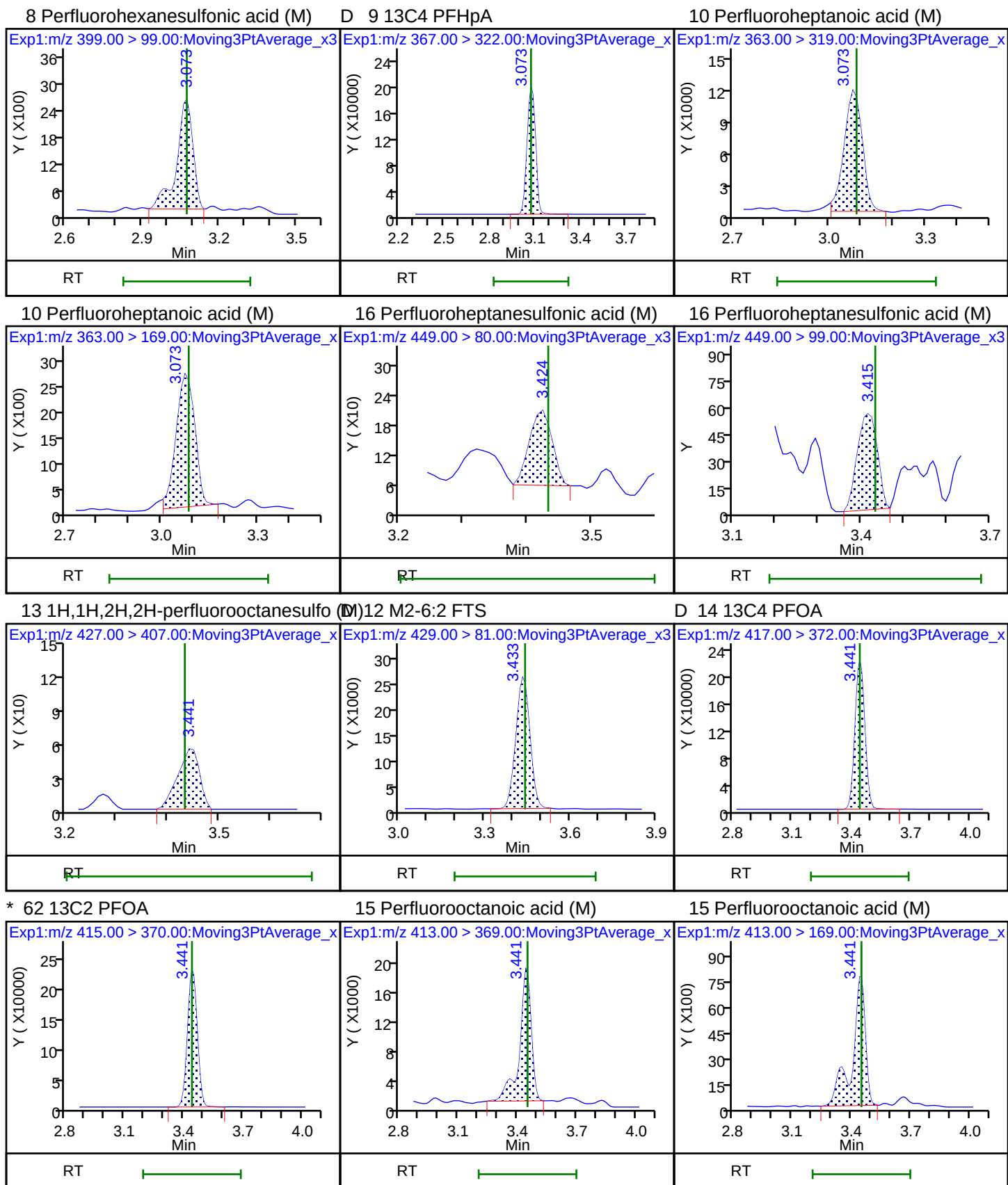


6 Perfluorohexanoic acid

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid

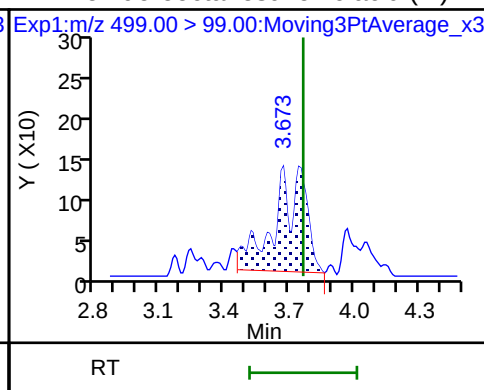
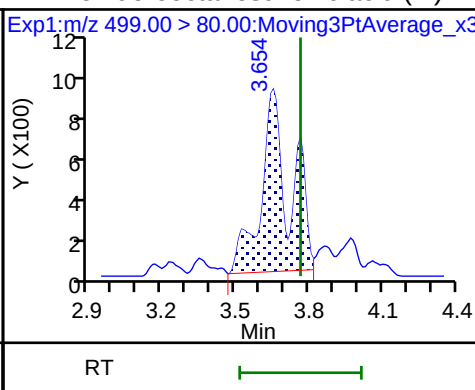
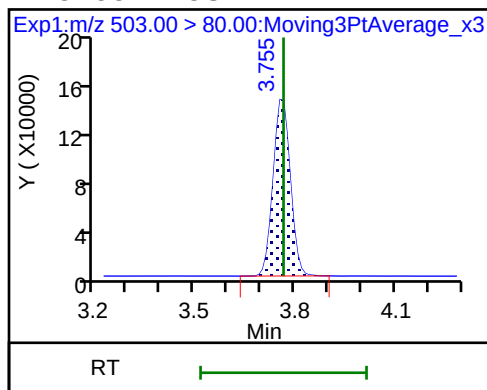




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

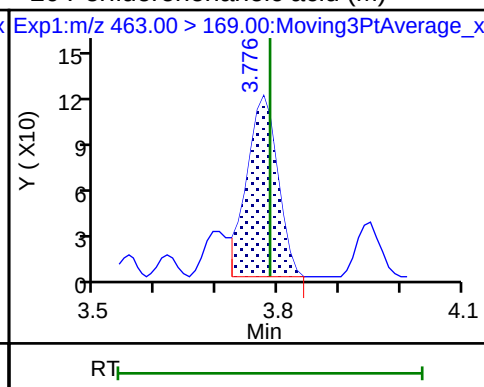
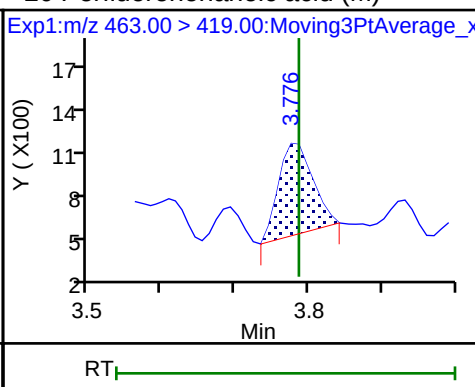
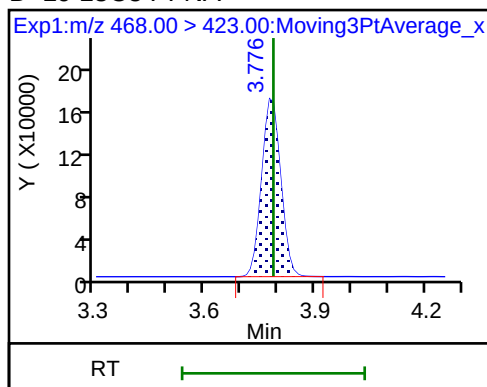
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

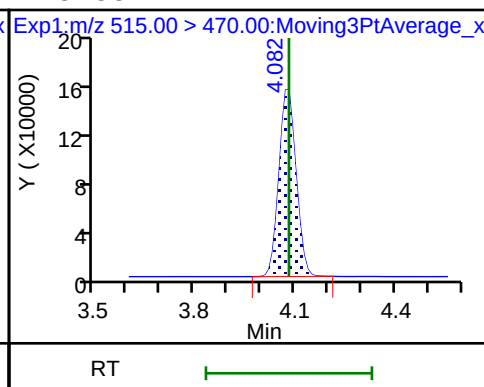
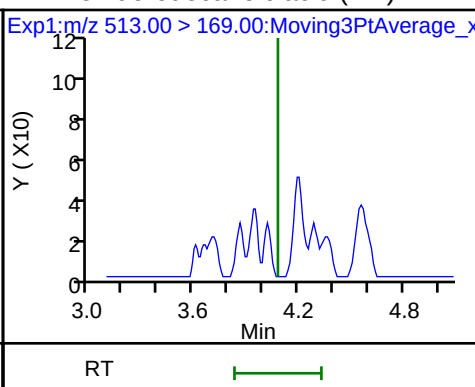
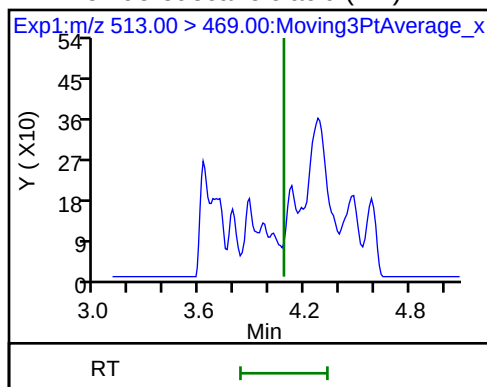
20 Perfluorononanoic acid (M)



24 Perfluorodecanoic acid (ND)

24 Perfluorodecanoic acid (ND)

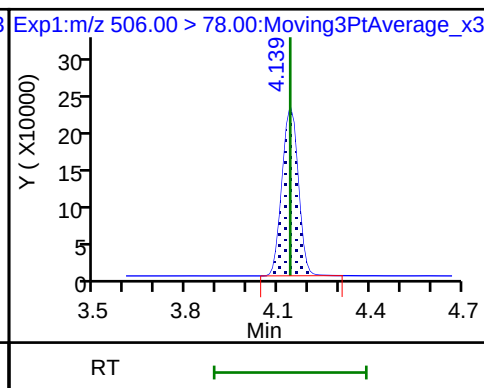
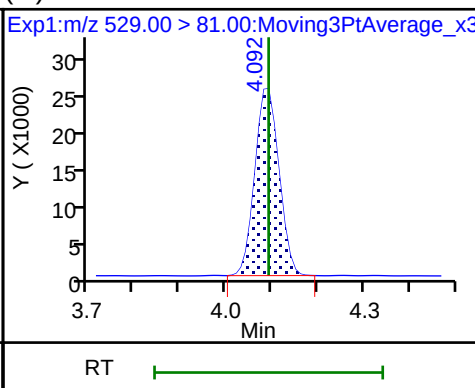
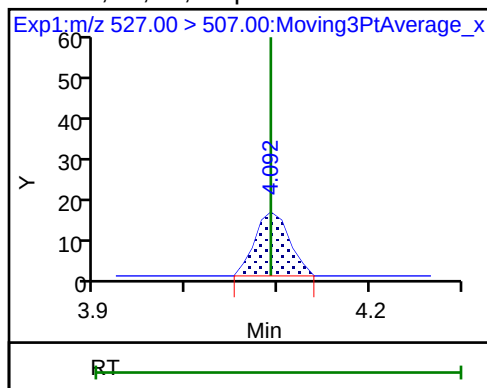
D 23 13C2 PFDA

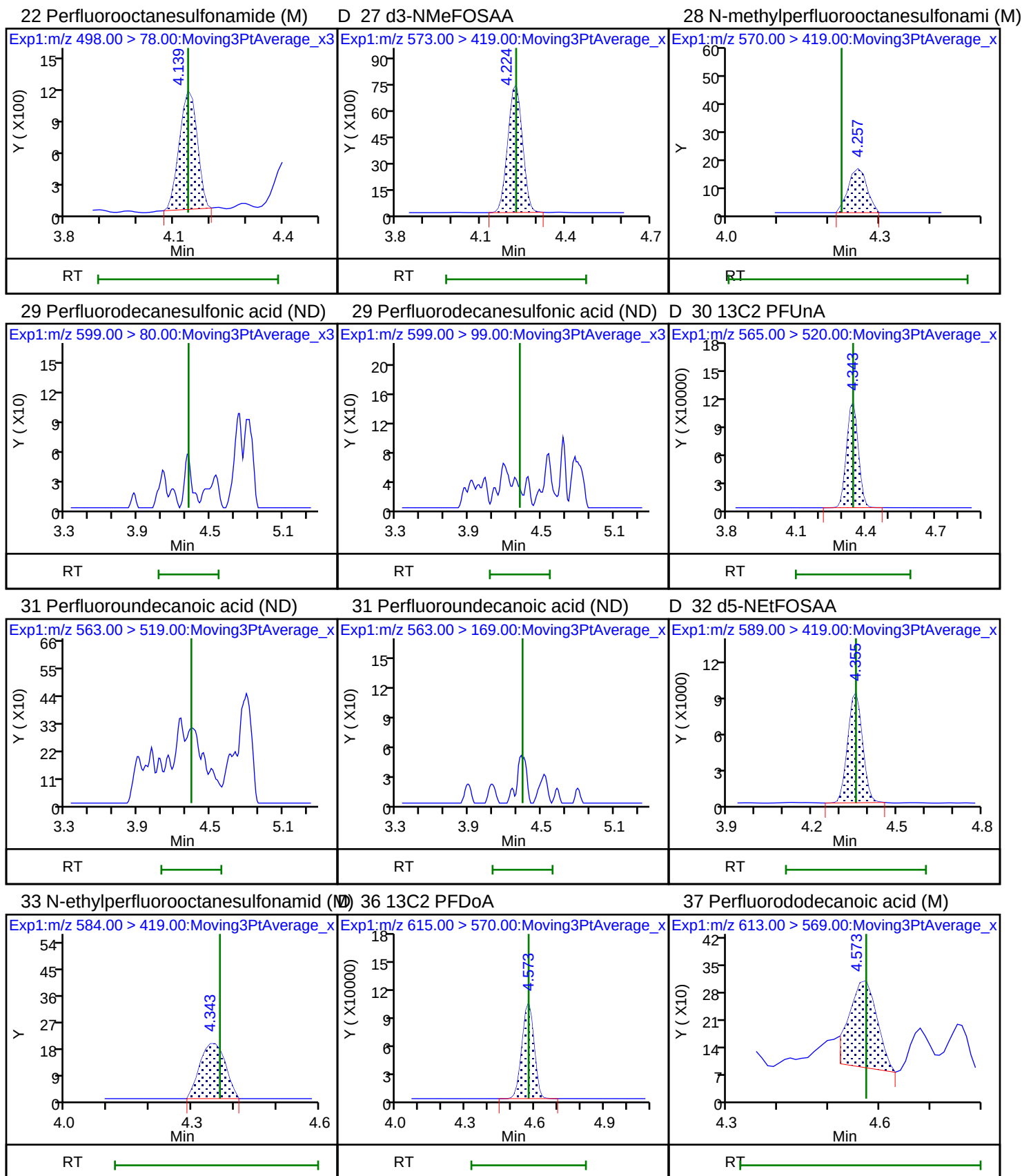


25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

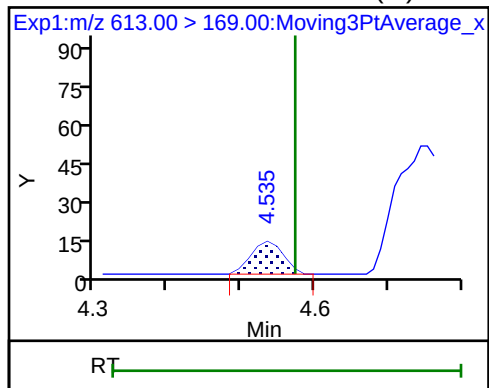
D 26 M2-8:2 FTS

D 21 13C8 FOSA

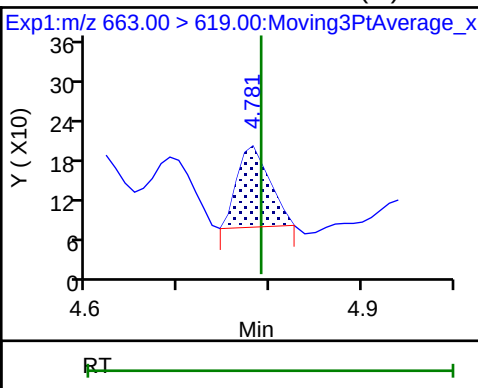




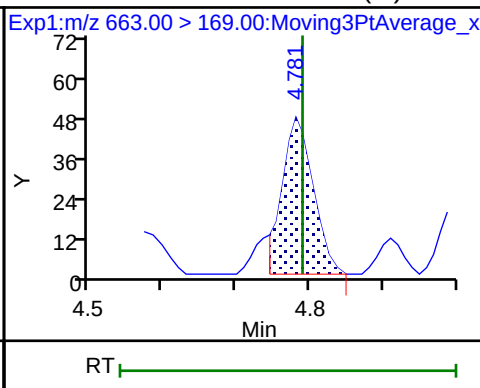
37 Perfluorododecanoic acid (M)



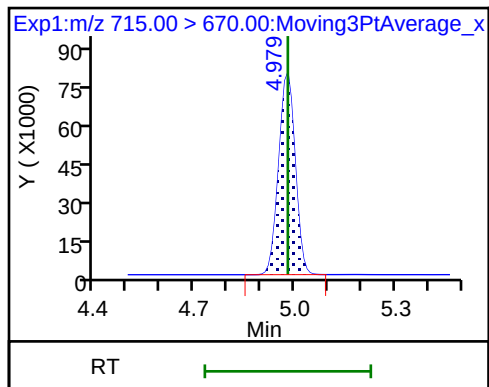
41 Perfluorotridecanoic acid (M)



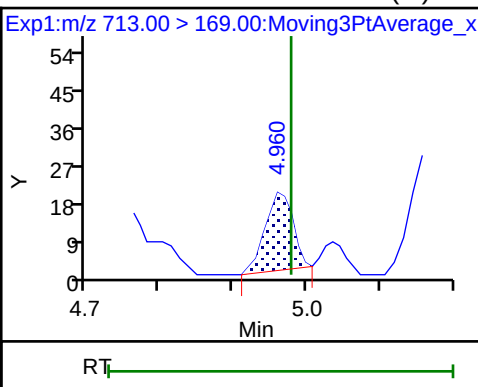
41 Perfluorotridecanoic acid (M)



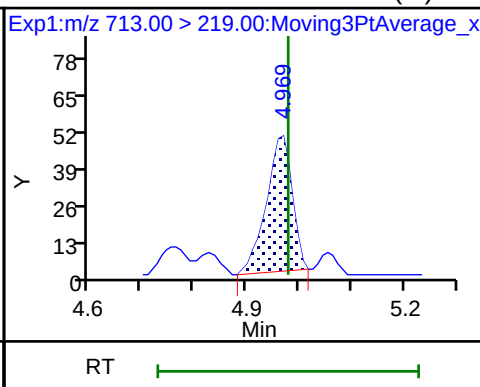
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

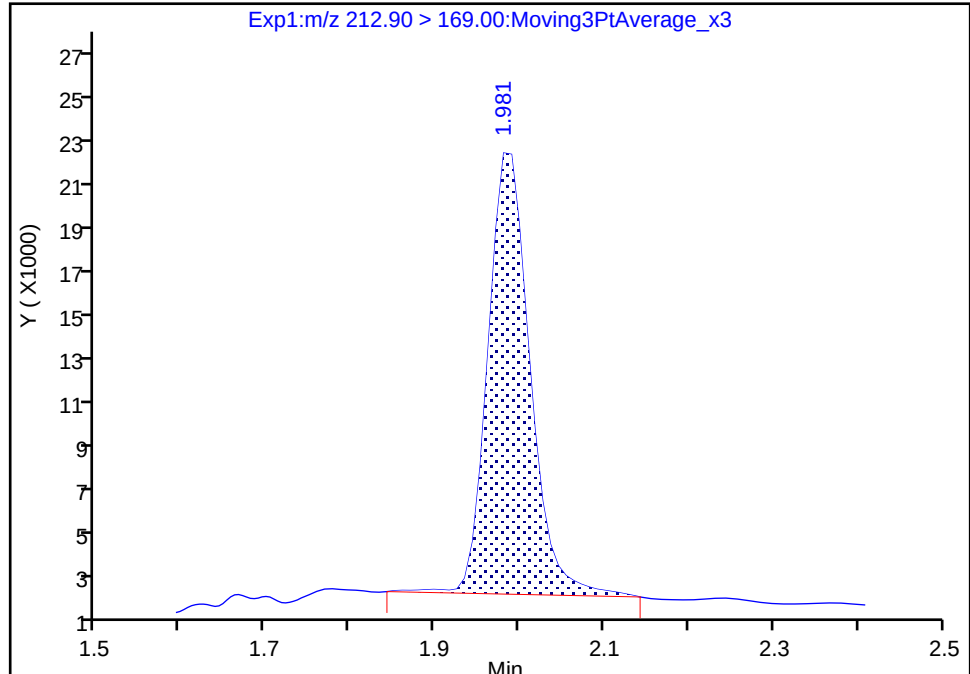
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

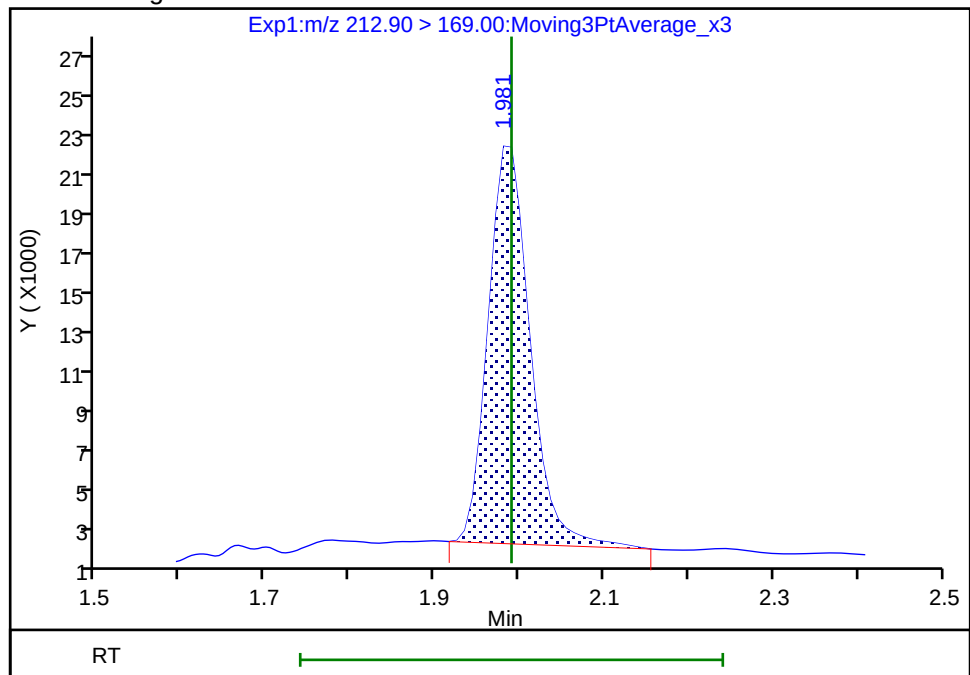
RT: 1.98
Area: 67689
Amount: 0.087807
Amount Units: ng/ml

Processing Integration Results



RT: 1.98
Area: 66917
Amount: 0.086806
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:59:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

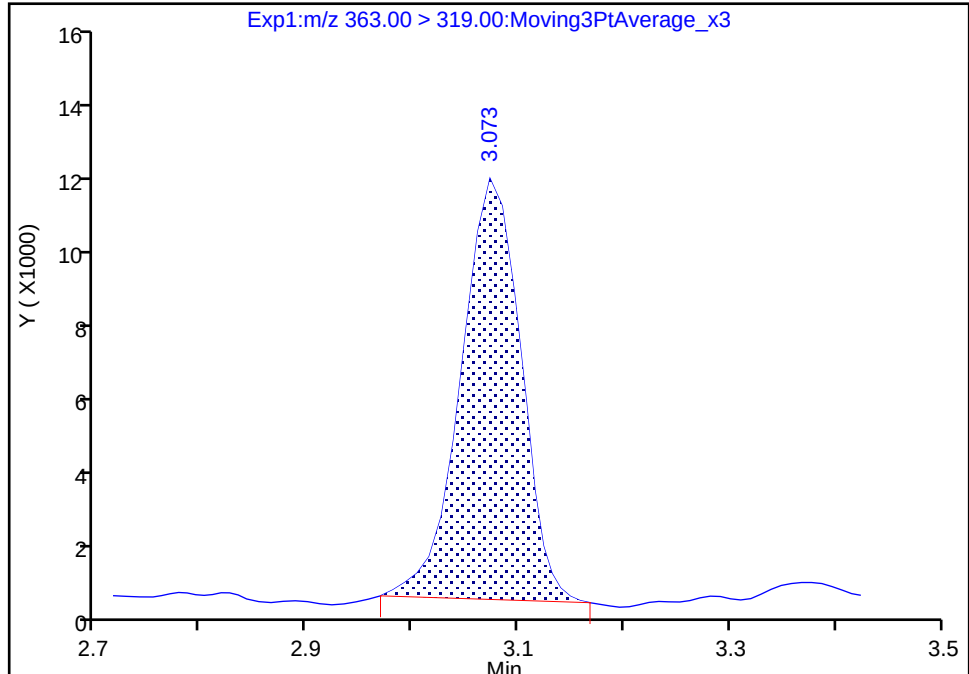
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector:	EXP1
		Worklist Smp#:	14

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

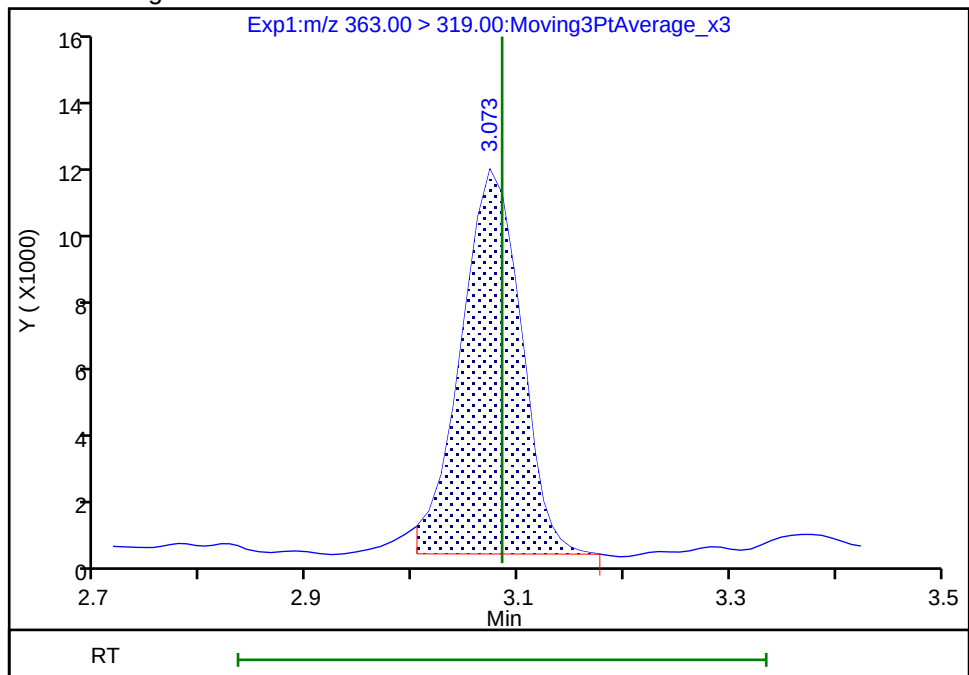
RT: 3.07
Area: 42331
Amount: 0.071077
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 42847
Amount: 0.071944
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:41:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

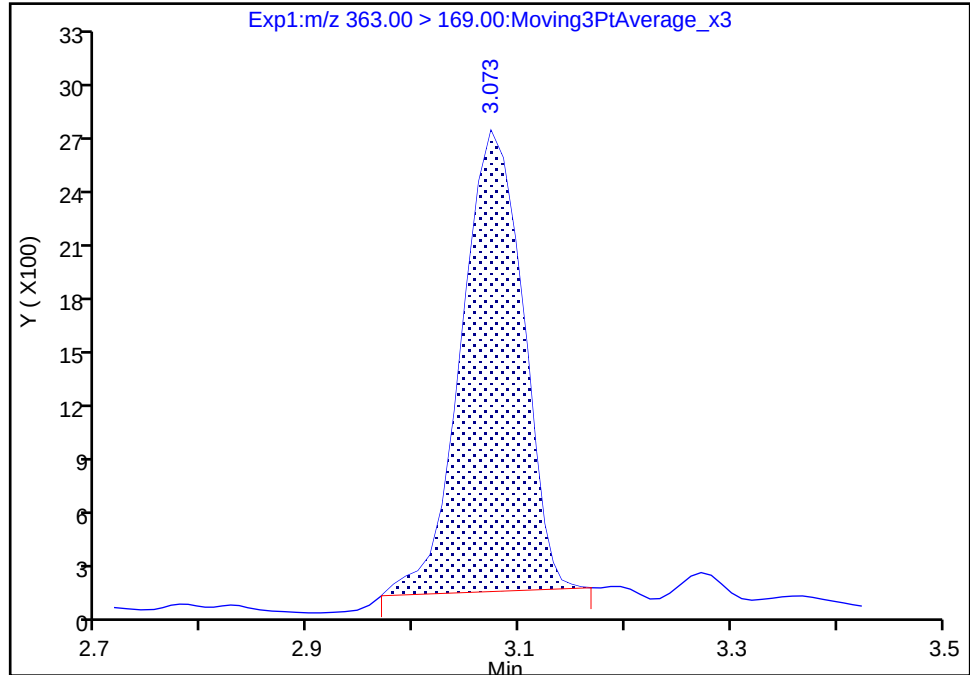
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

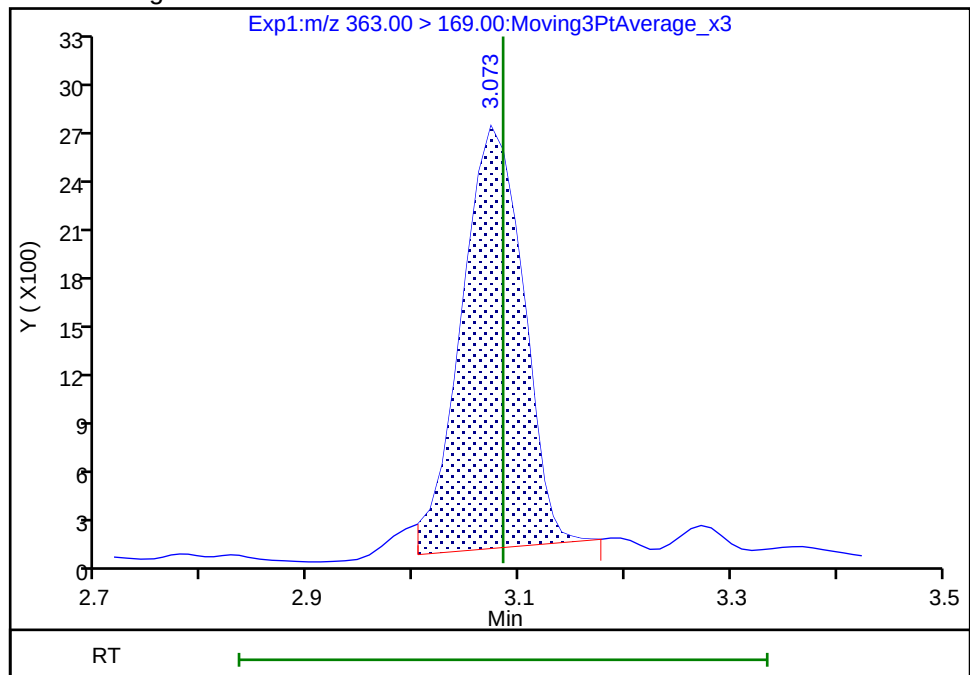
RT: 3.07
Area: 10480
Amount: 0.071077
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 10641
Amount: 0.071944
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:41:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

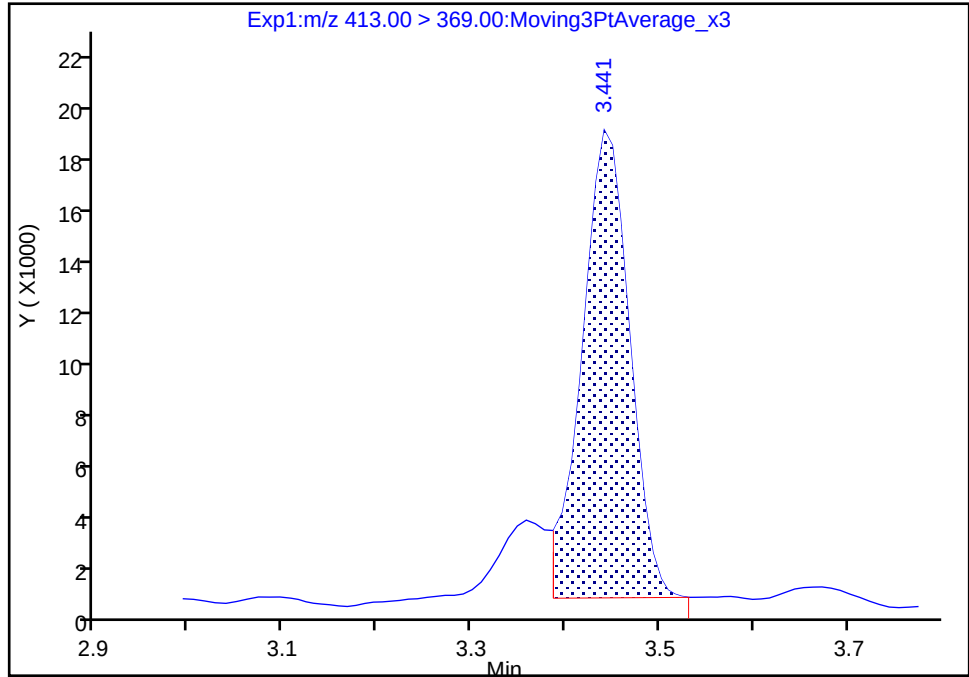
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

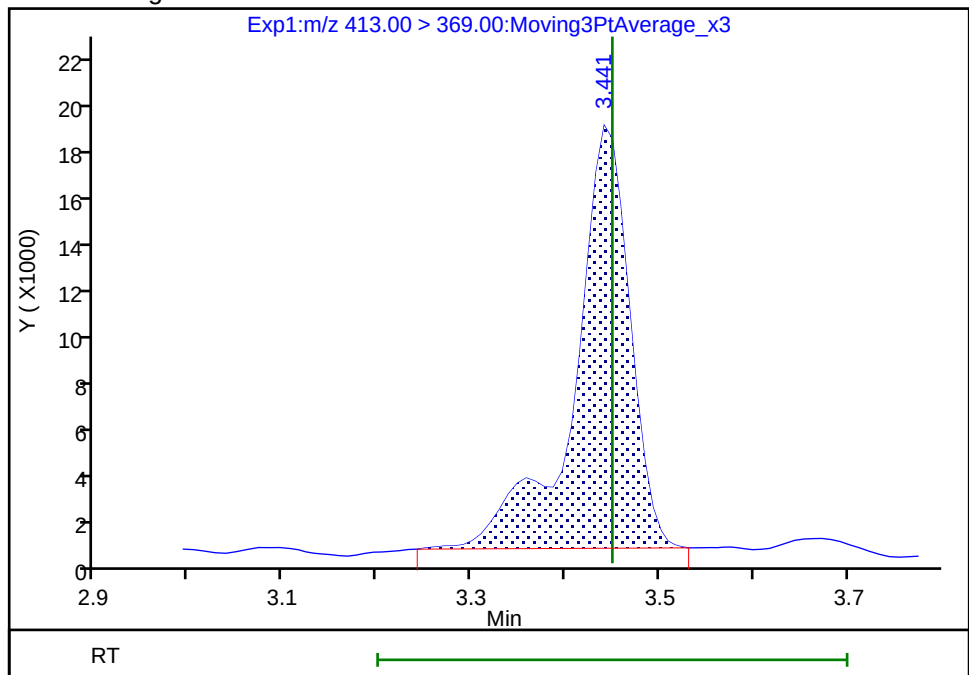
RT: 3.44
Area: 61584
Amount: 0.099544
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 72353
Amount: 0.116951
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:00:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

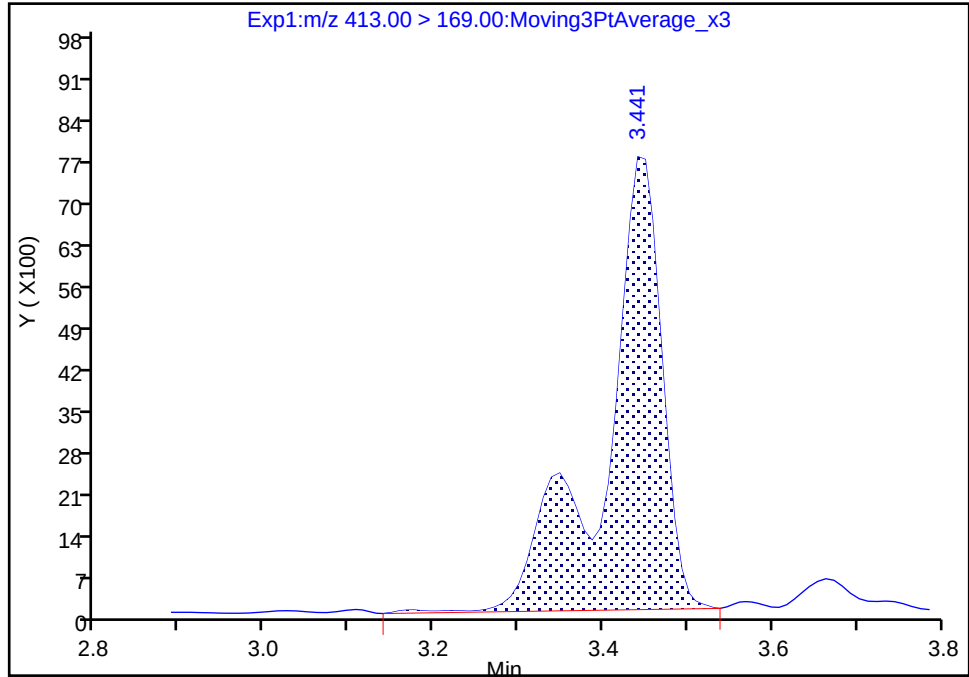
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

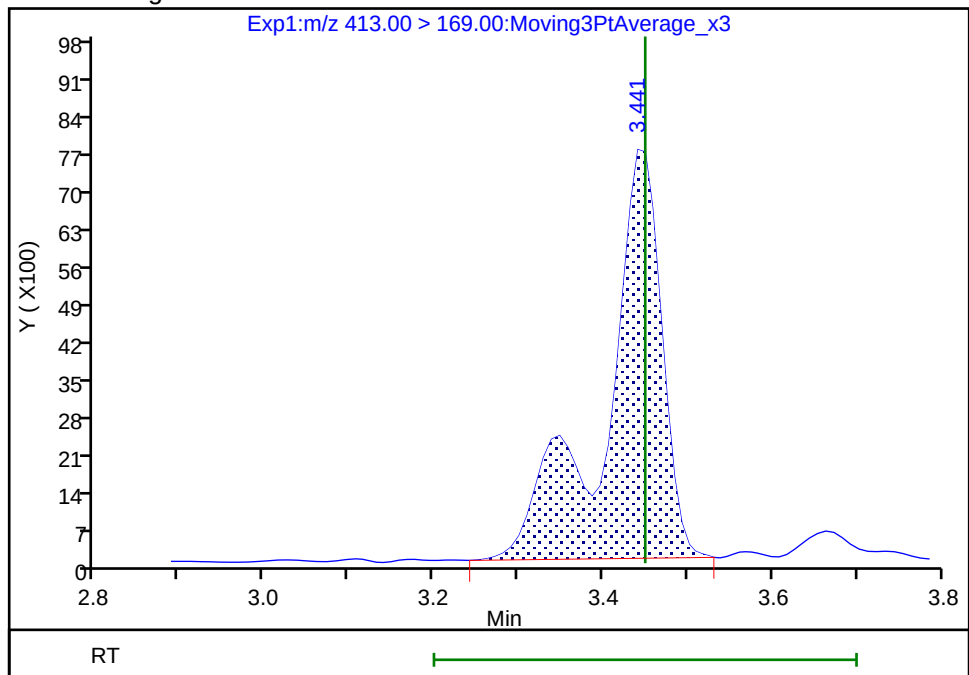
RT: 3.44
Area: 36206
Amount: 0.099544
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 35785
Amount: 0.116951
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:00:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

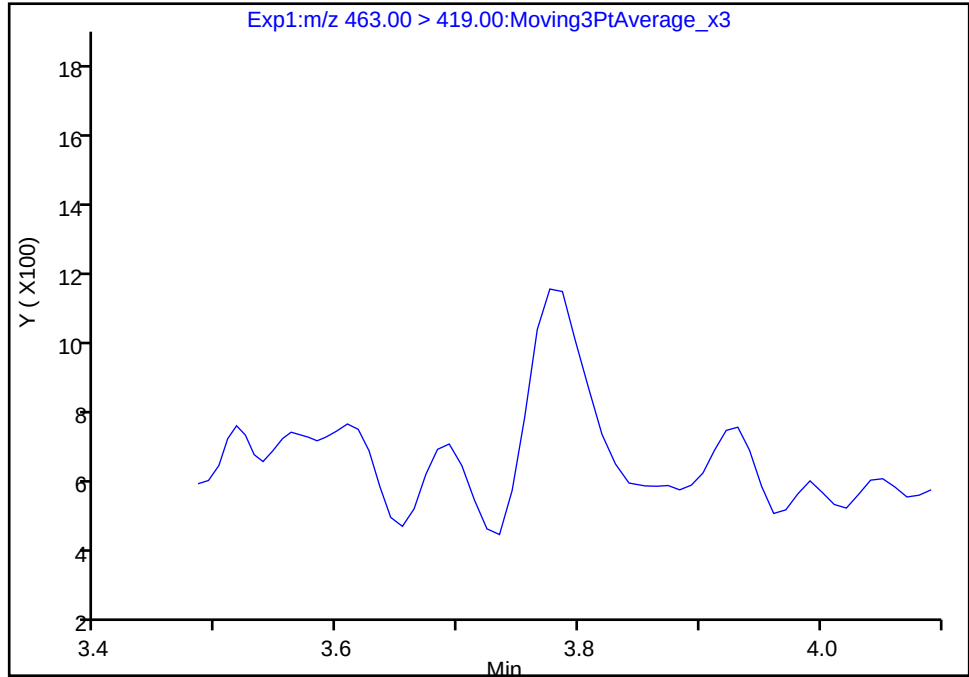
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

20 Perfluorononanoic acid, CAS: 375-95-1

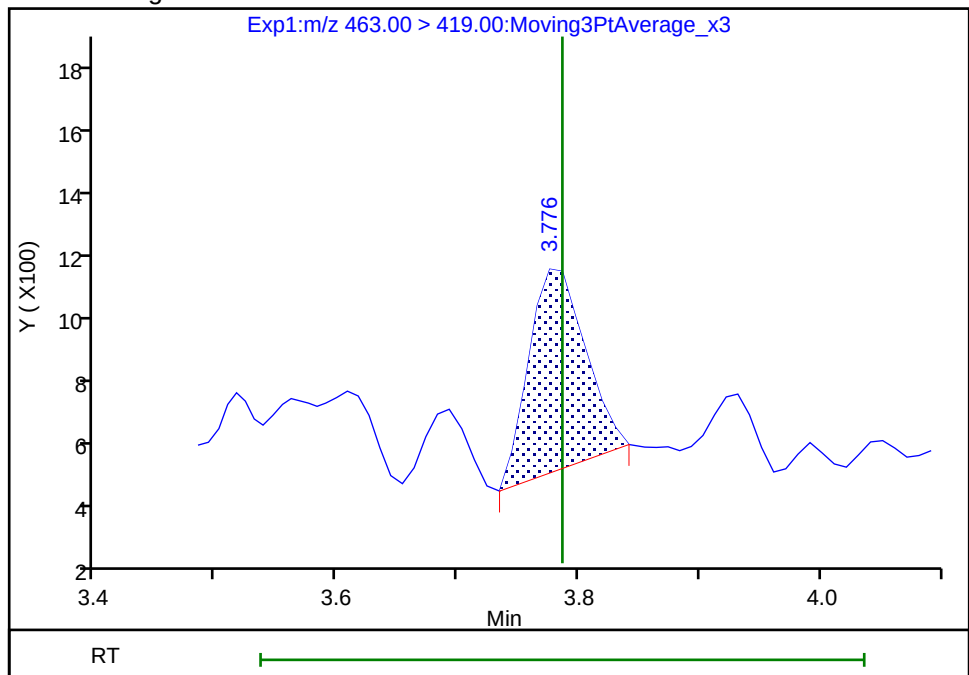
Signal: 1

Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results



RT: 3.78
Area: 2026
Amount: 0.004039
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:00:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

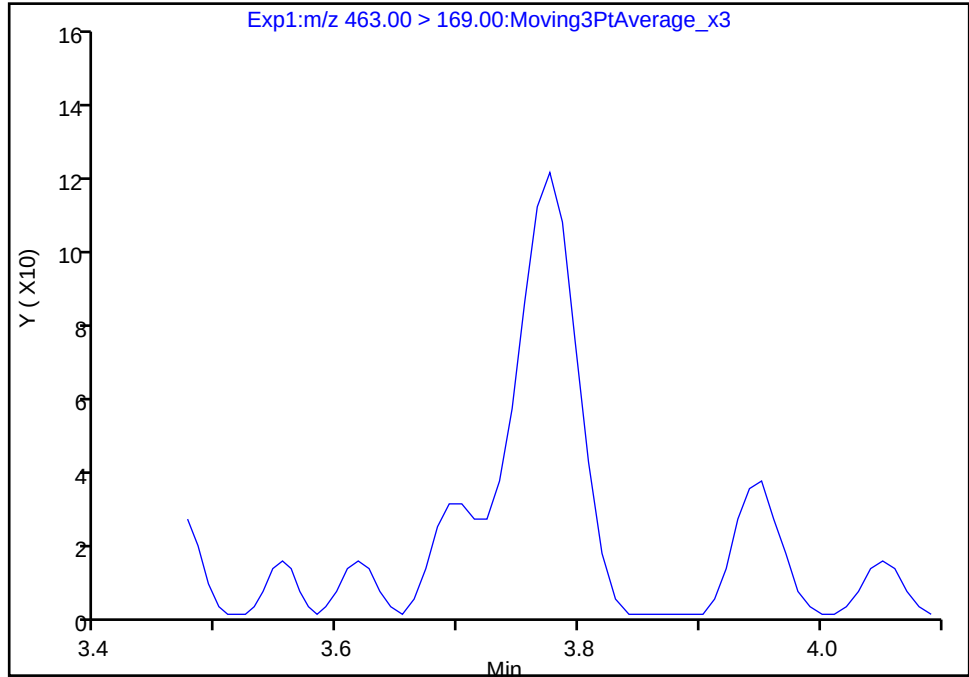
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

20 Perfluorononanoic acid, CAS: 375-95-1

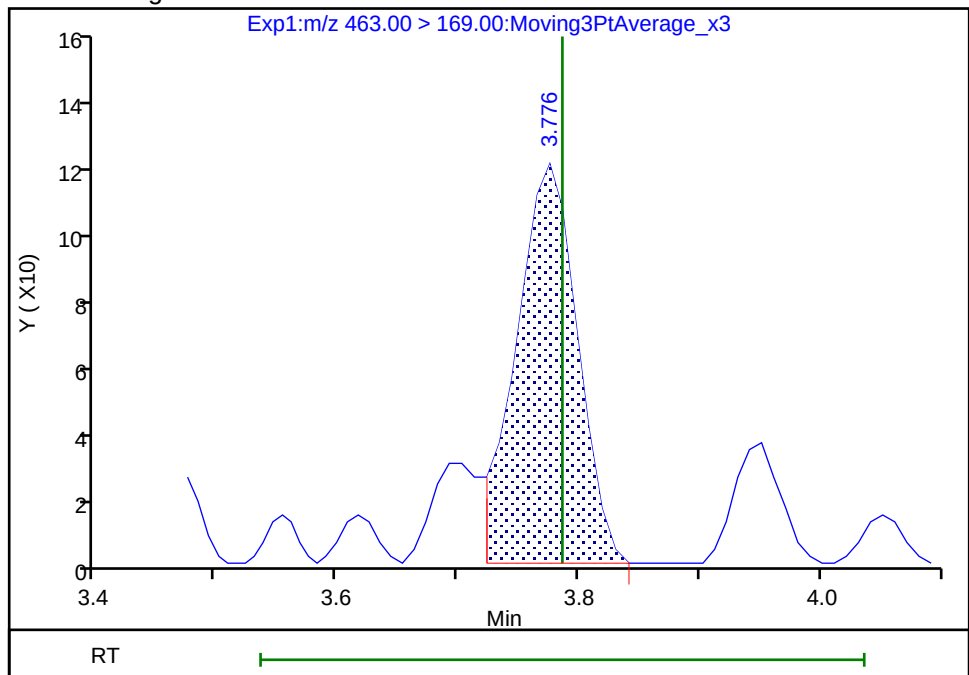
Signal: 2

Not Detected
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.78
Area: 405
Amount: 0.004039
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:00:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

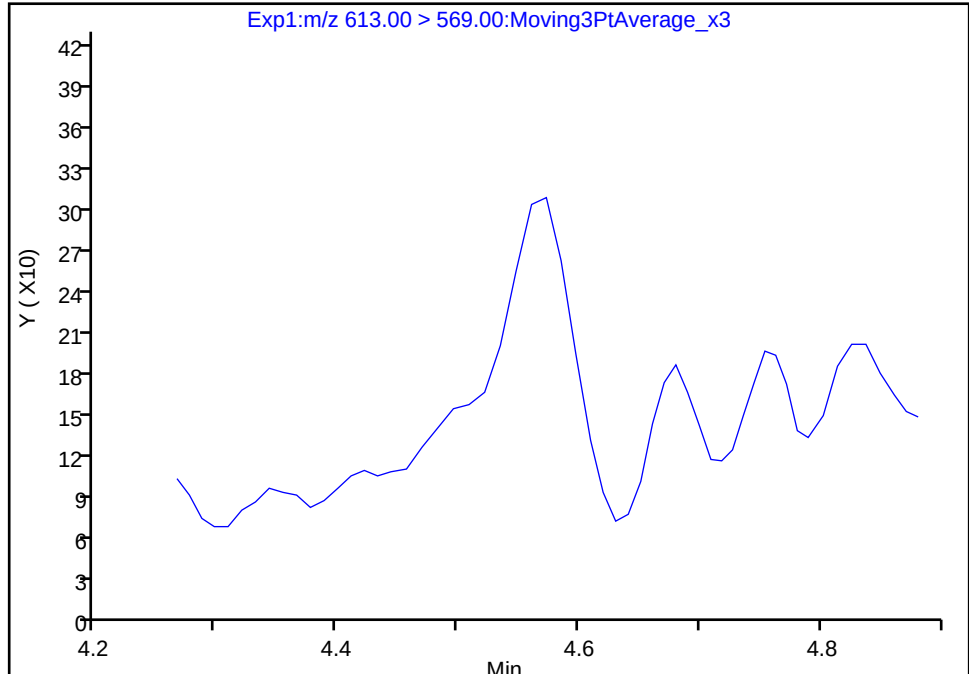
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

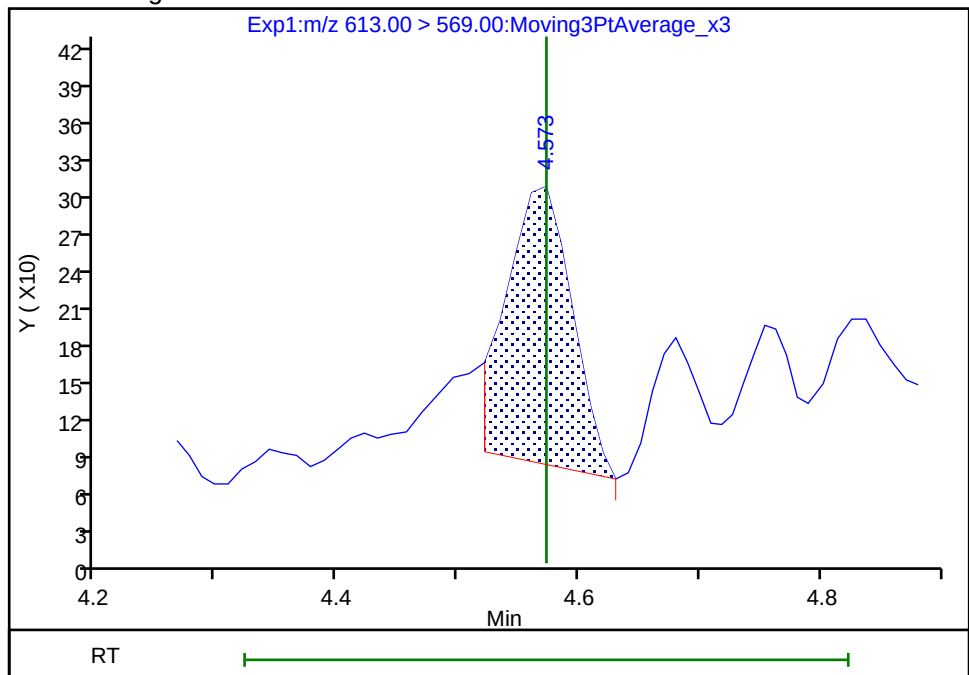
Signal: 1

Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results



RT: 4.57
Area: 834
Amount: 0.002841
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

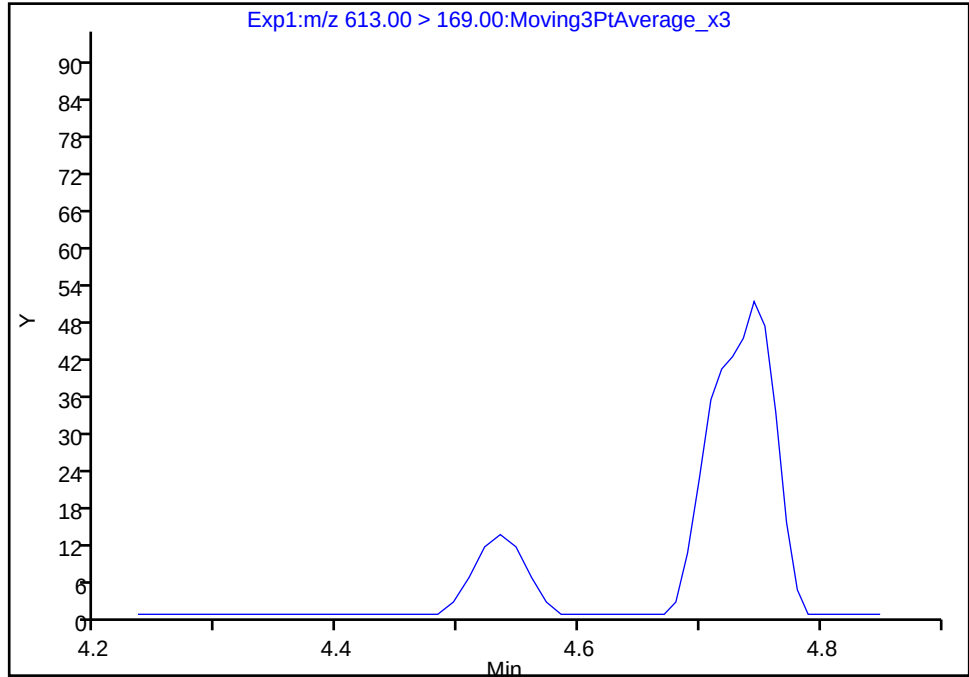
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

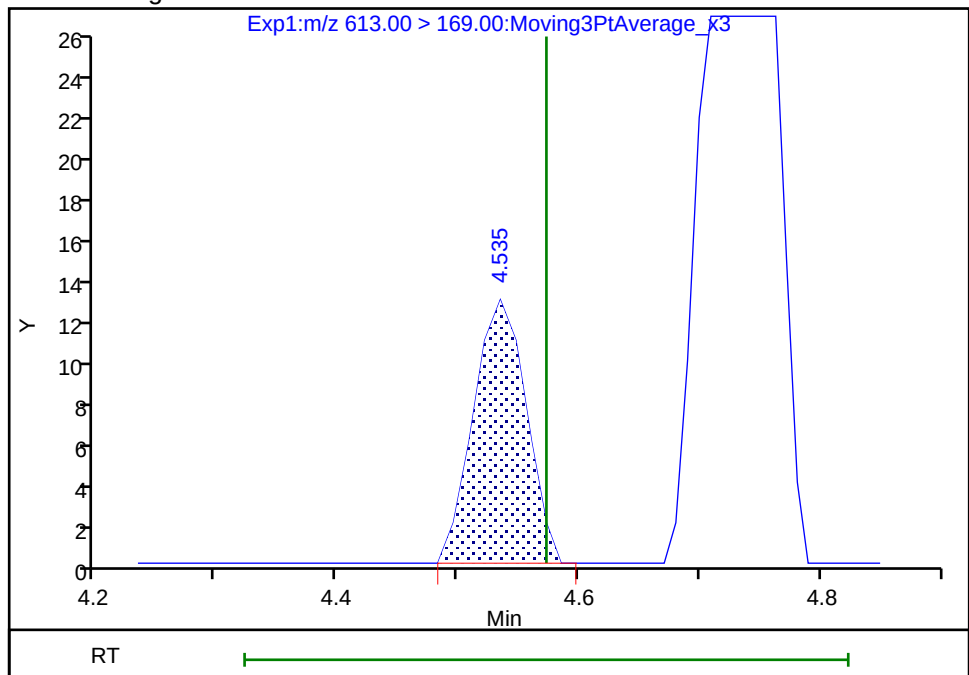
Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.53
Area: 39
Amount: 0.002841
Amount Units: ng/ml



Reviewer: chirgwinb, 25-Sep-2020 10:43:18

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

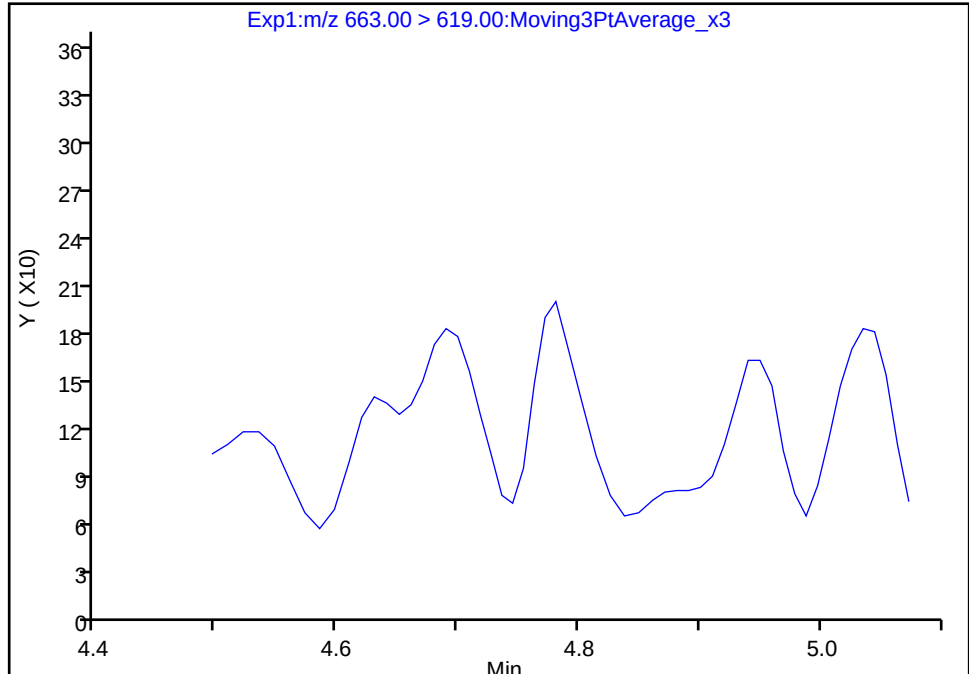
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

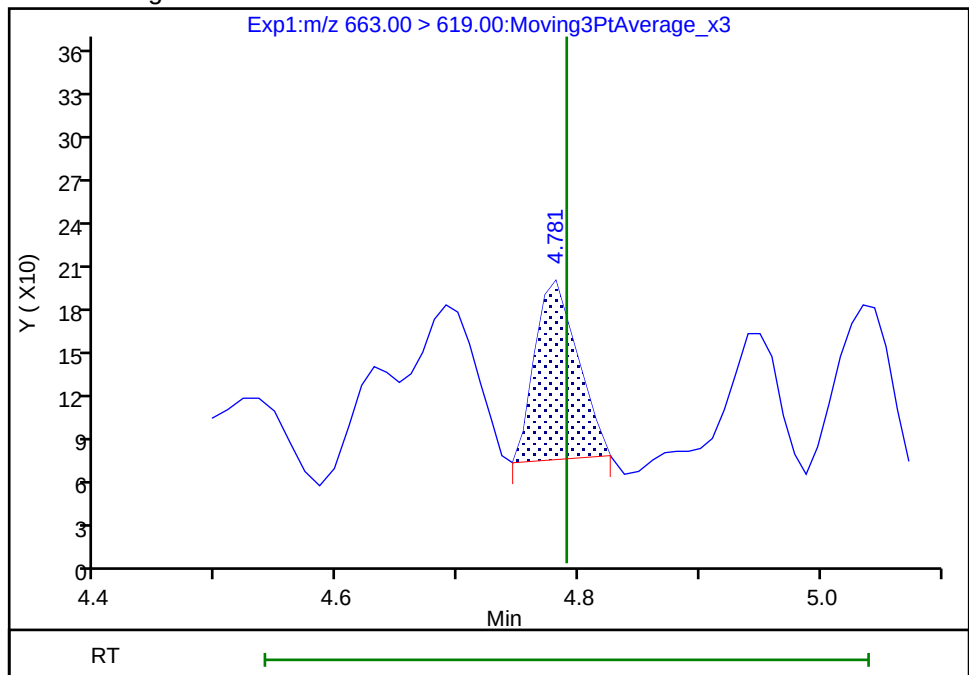
Signal: 1

Not Detected
Expected RT: 4.79

Processing Integration Results



Manual Integration Results



RT: 4.78
Area: 305
Amount: 0.001224
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

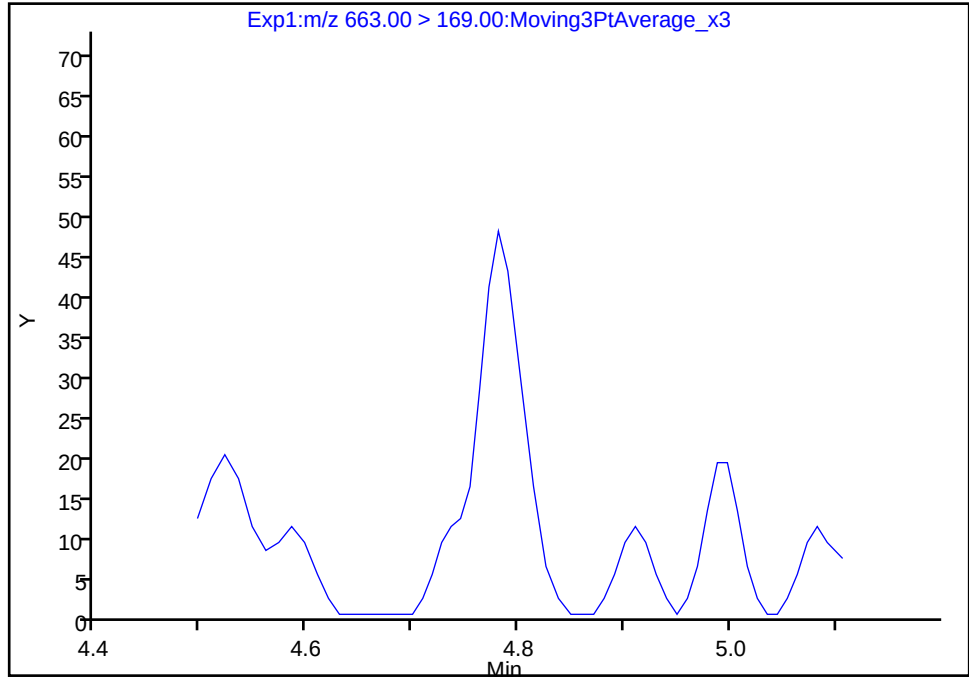
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

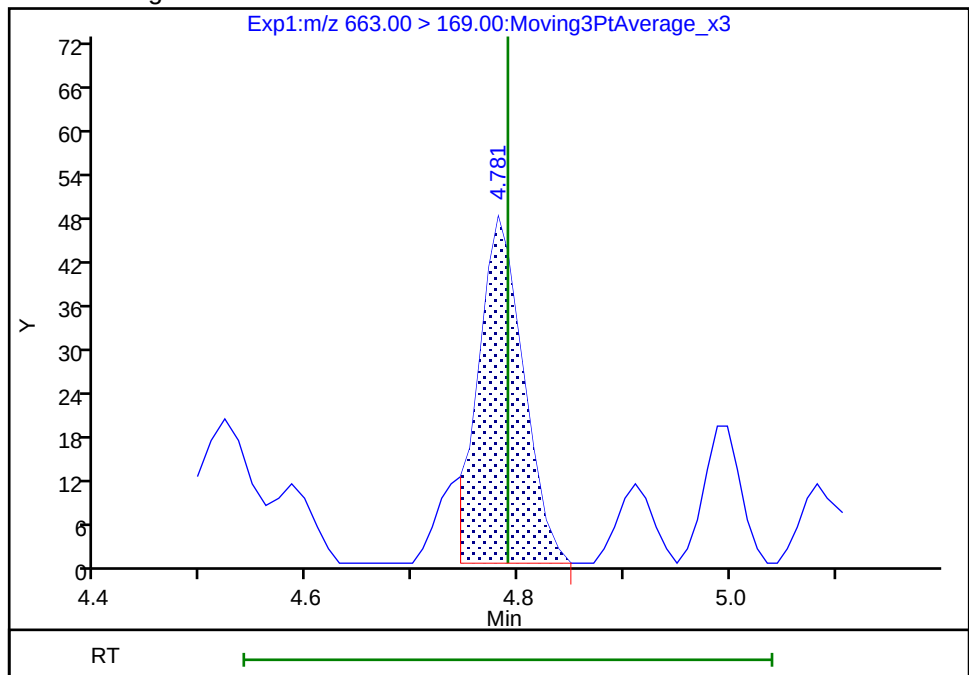
Not Detected
Expected RT: 4.79

Processing Integration Results



Manual Integration Results

RT: 4.78
Area: 140
Amount: 0.001224
Amount Units: ng/ml



Reviewer: chirgwinb, 25-Sep-2020 10:42:51

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

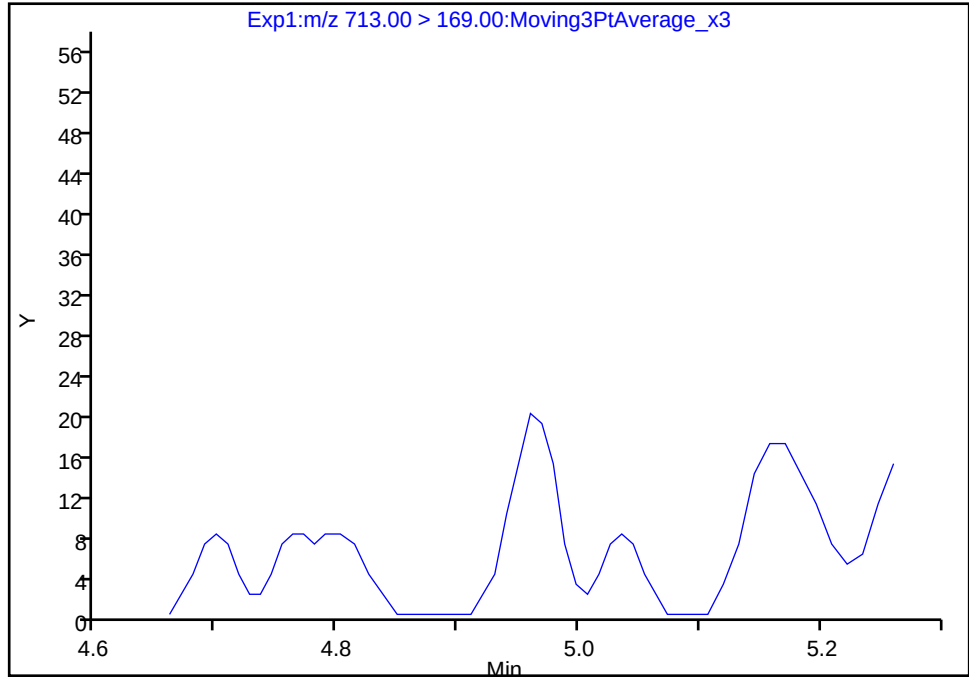
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

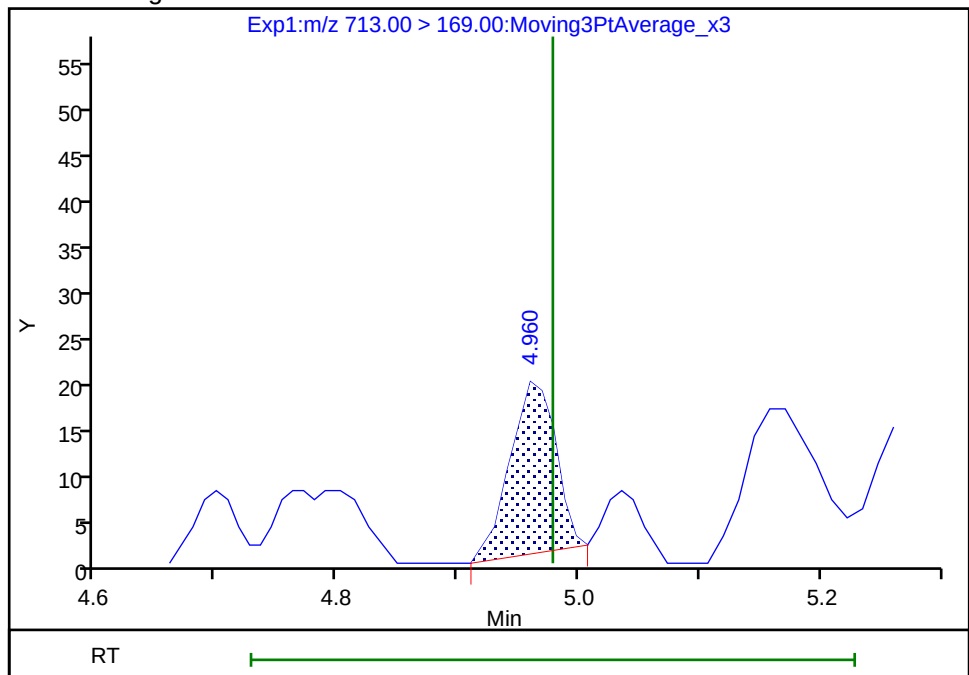
Signal: 1

Not Detected
Expected RT: 4.98

Processing Integration Results



Manual Integration Results



RT: 4.96
Area: 49
Amount: 0.000980
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:01:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

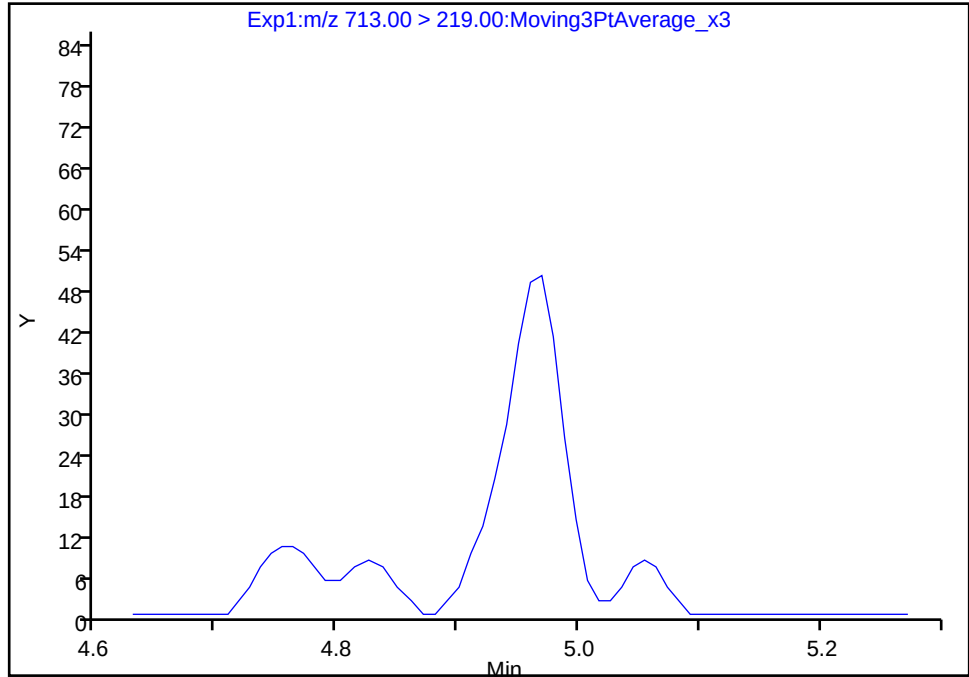
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

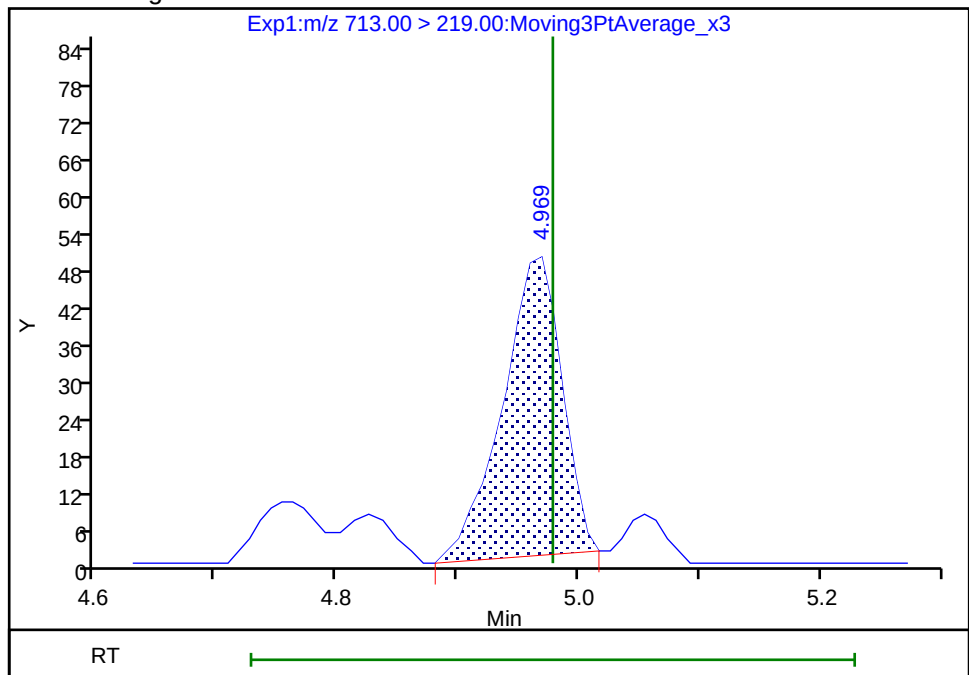
Not Detected
Expected RT: 4.98

Processing Integration Results



RT: 4.97
Area: 166
Amount: 0.000980
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:01:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

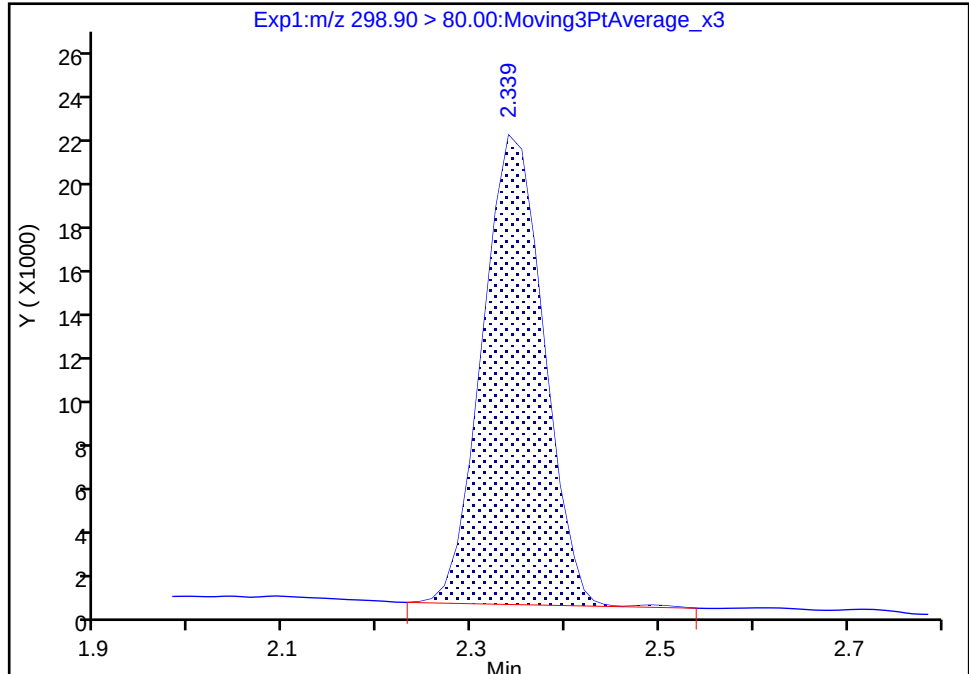
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

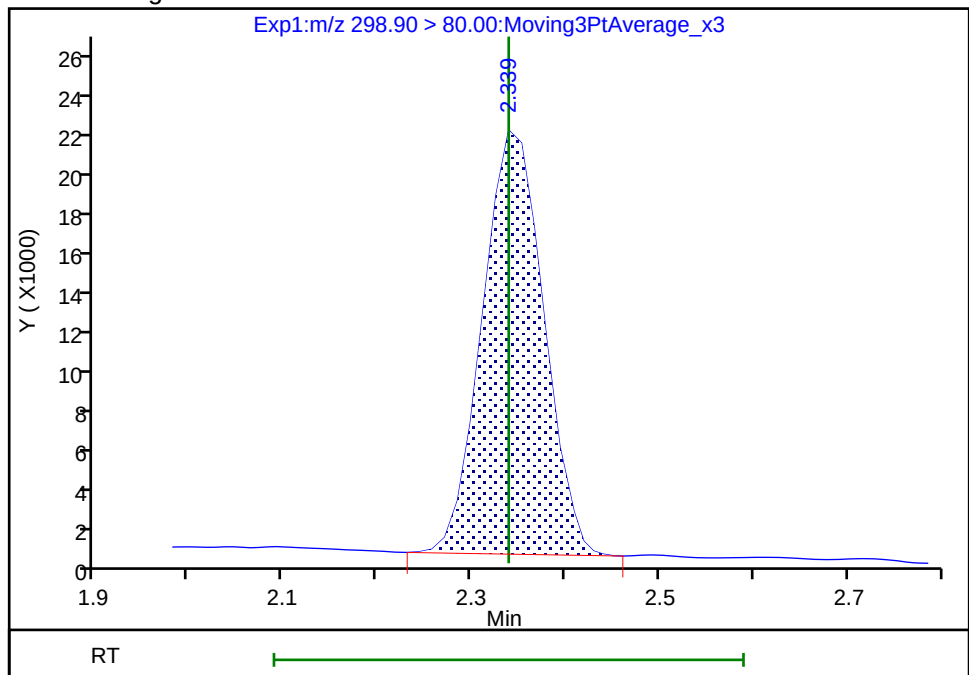
RT: 2.34
Area: 98450
Amount: 0.138365
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 98092
Amount: 0.137862
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:59:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

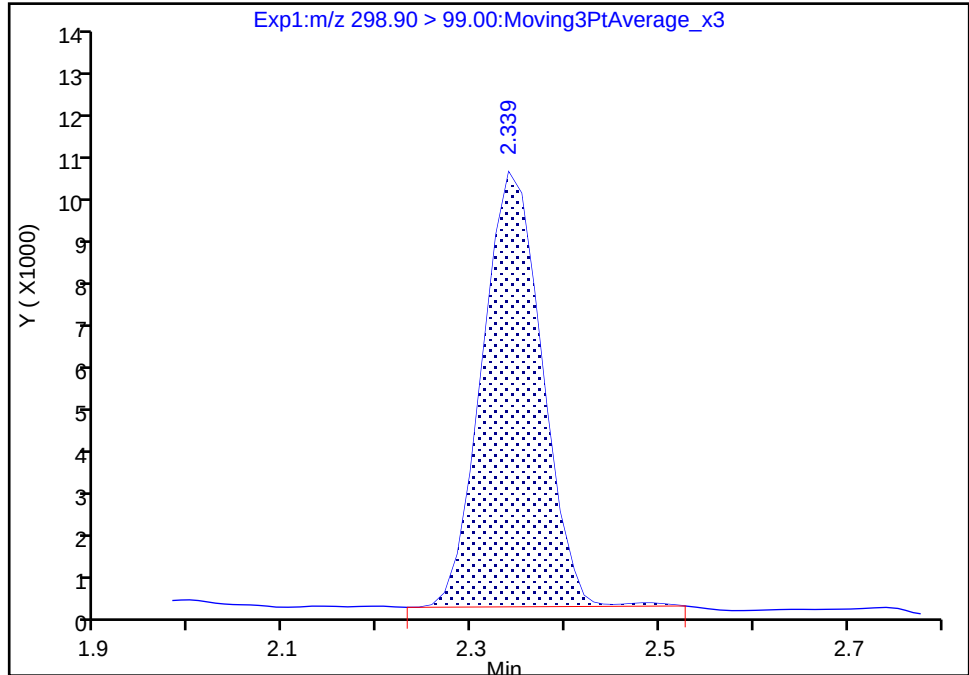
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

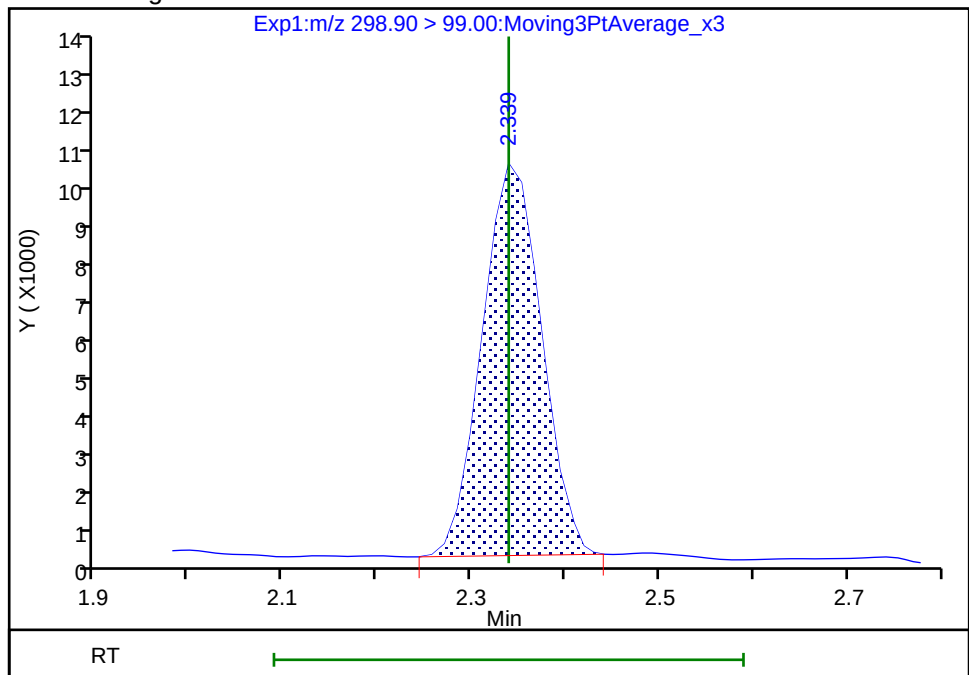
RT: 2.34
Area: 45941
Amount: 0.138365
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 45407
Amount: 0.137862
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:59:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

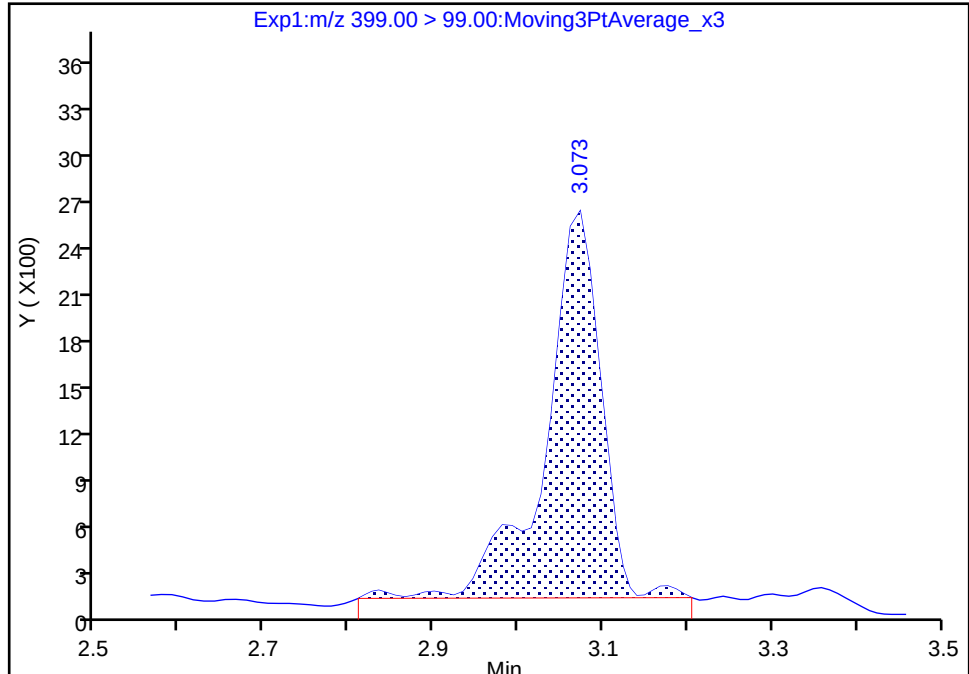
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

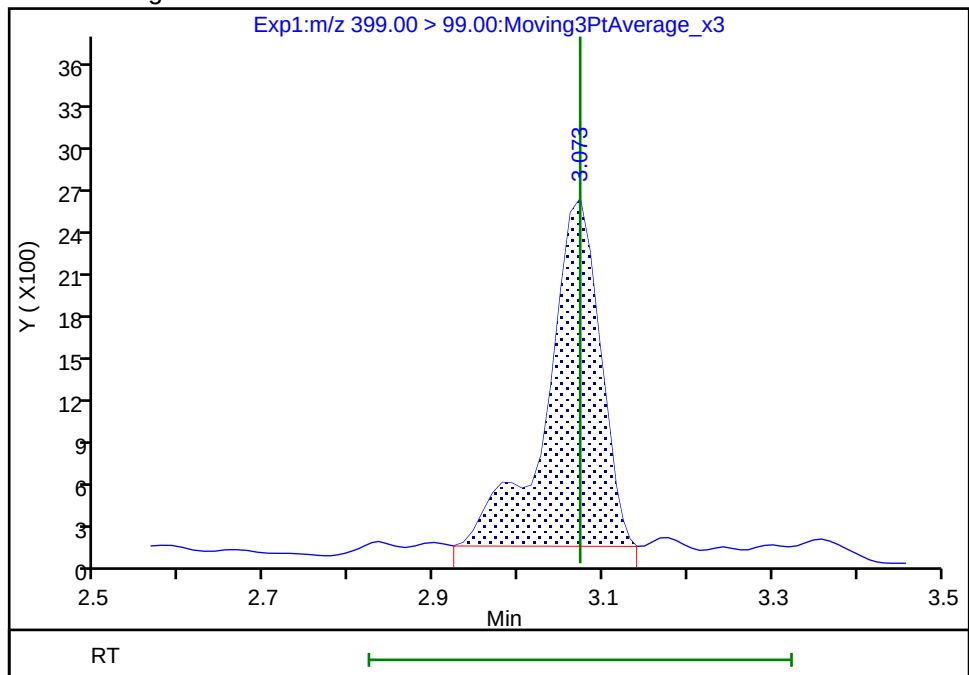
RT: 3.07
Area: 11340
Amount: 0.080977
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 10775
Amount: 0.080977
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:59:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

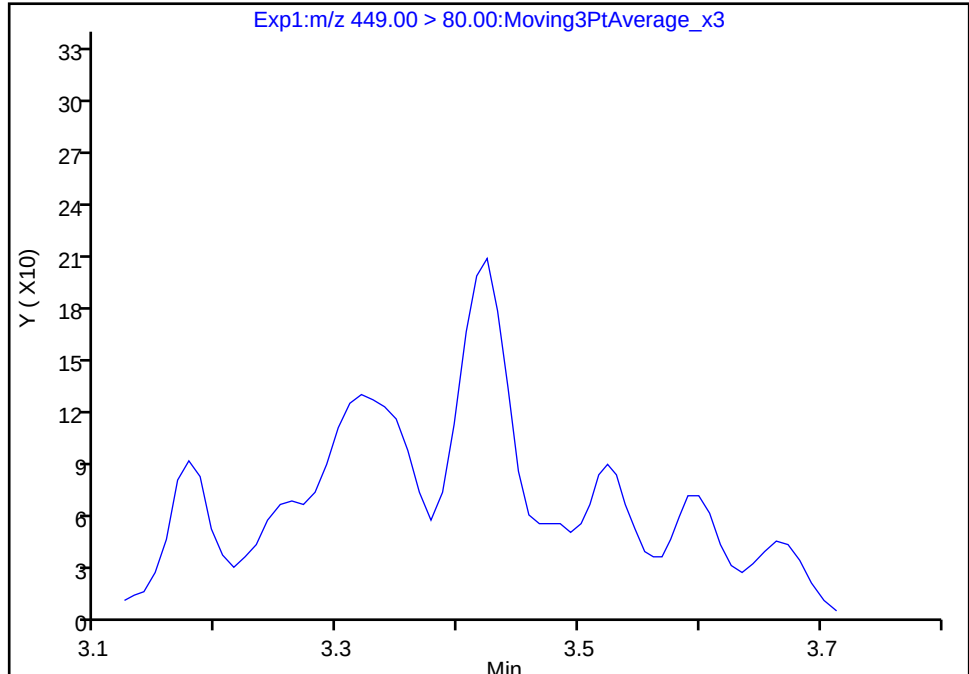
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

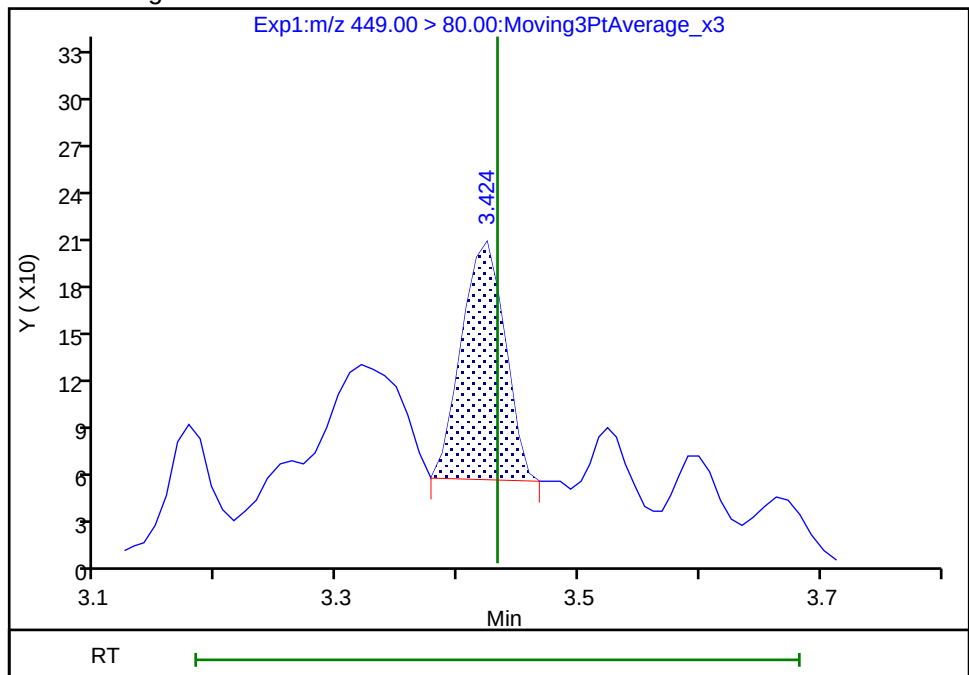
Not Detected
Expected RT: 3.43

Processing Integration Results



RT: 3.42
Area: 375
Amount: 0.000738
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:59:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

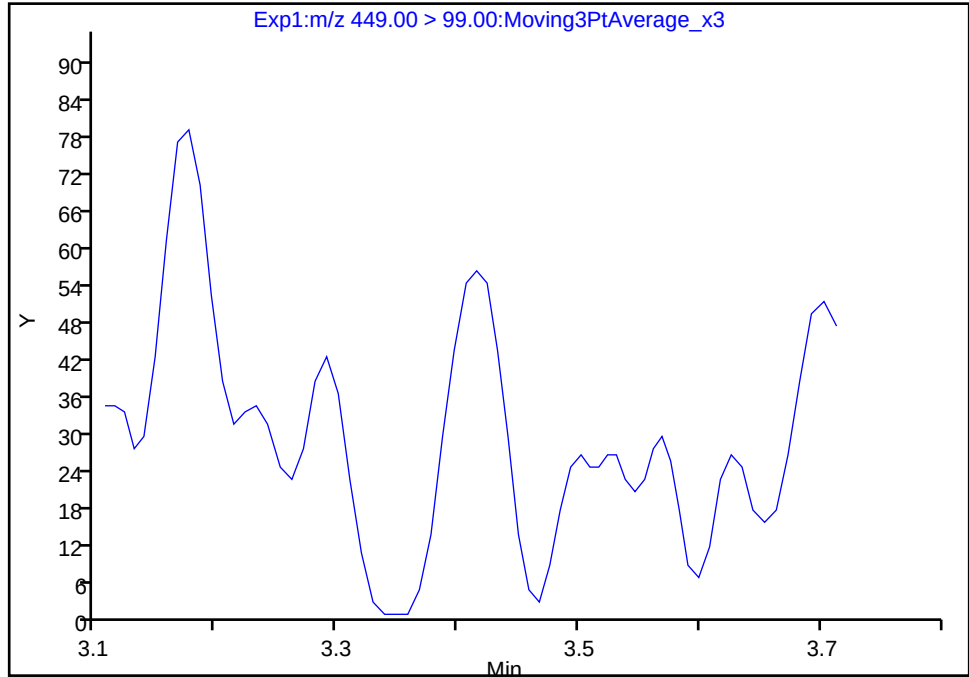
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

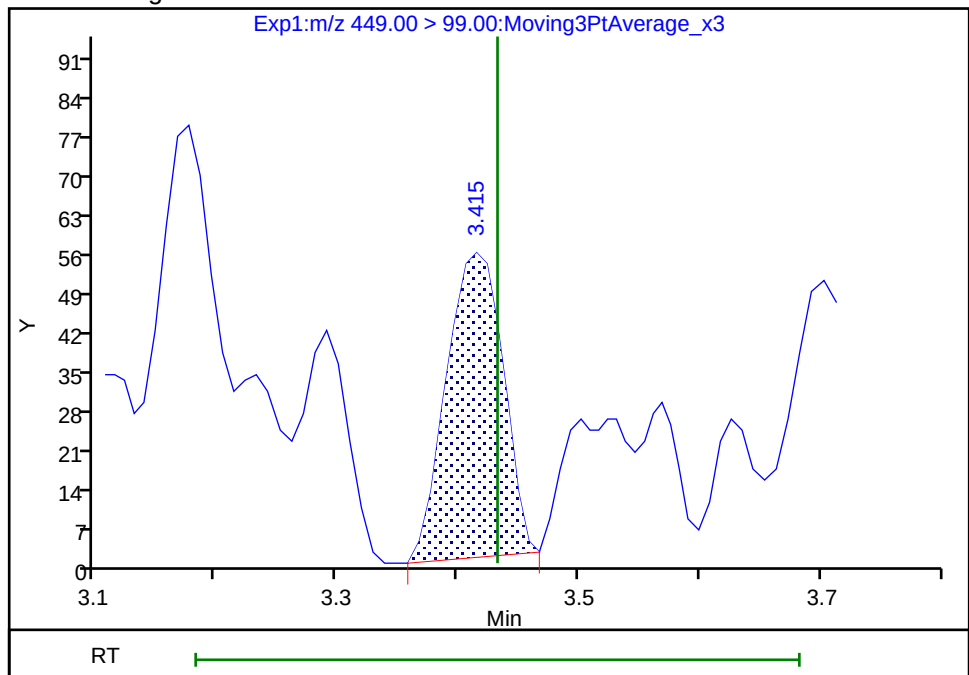
Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.42
Area: 179
Amount: 0.000738
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:59:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

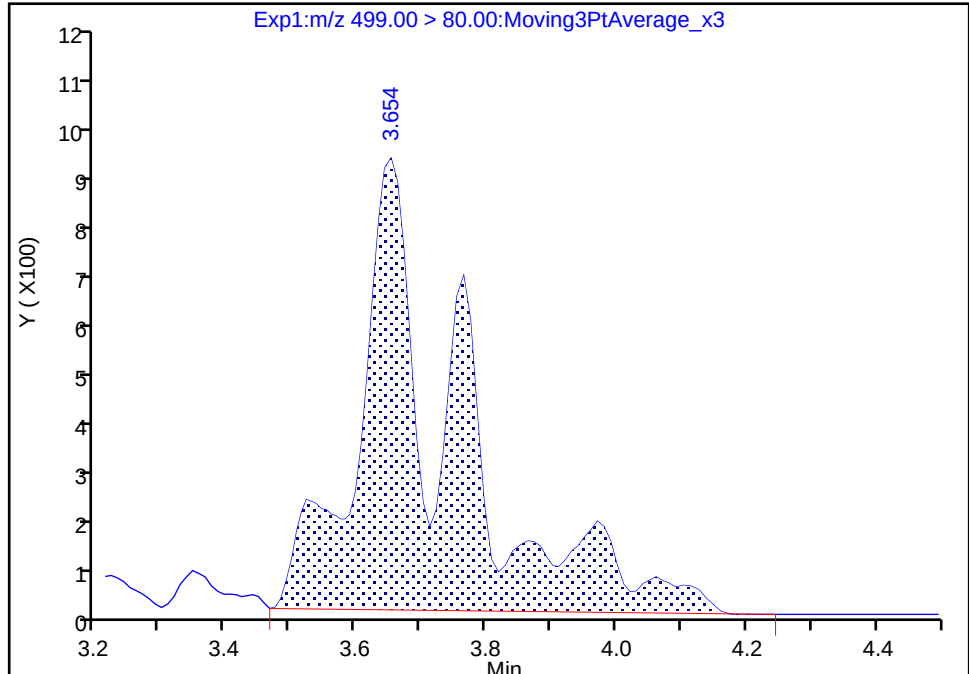
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

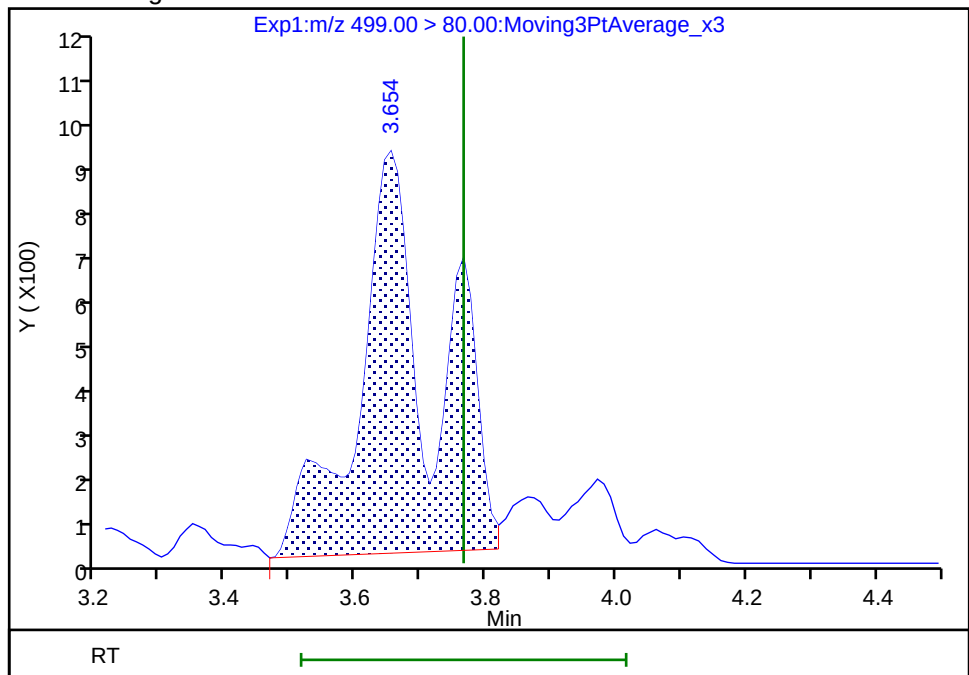
RT: 3.65
Area: 9445
Amount: 0.019823
Amount Units: ng/ml

Processing Integration Results



RT: 3.65
Area: 7268
Amount: 0.015254
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:00:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

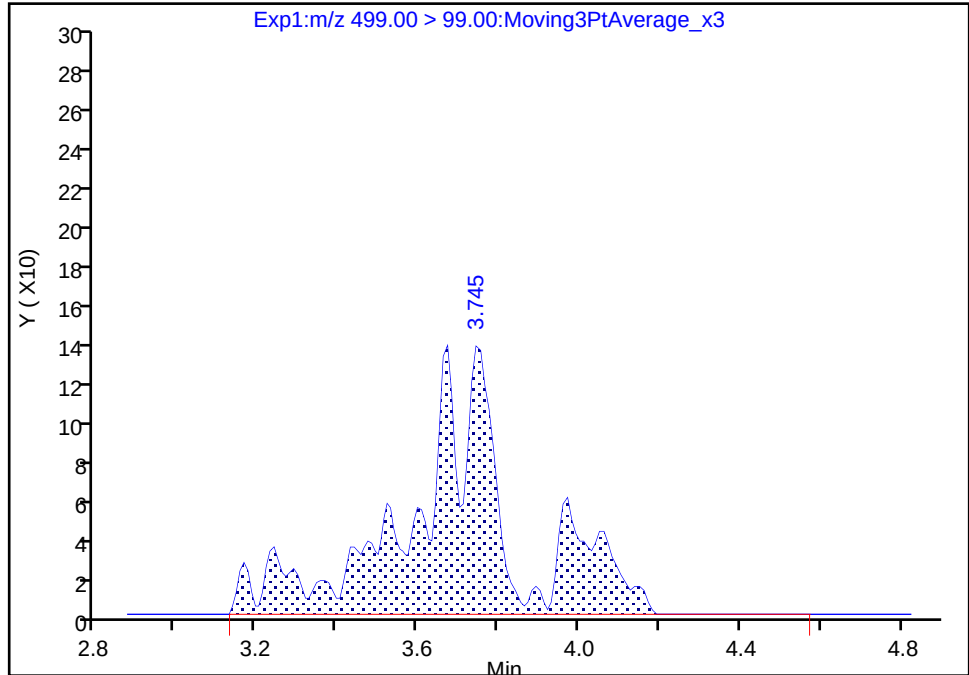
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

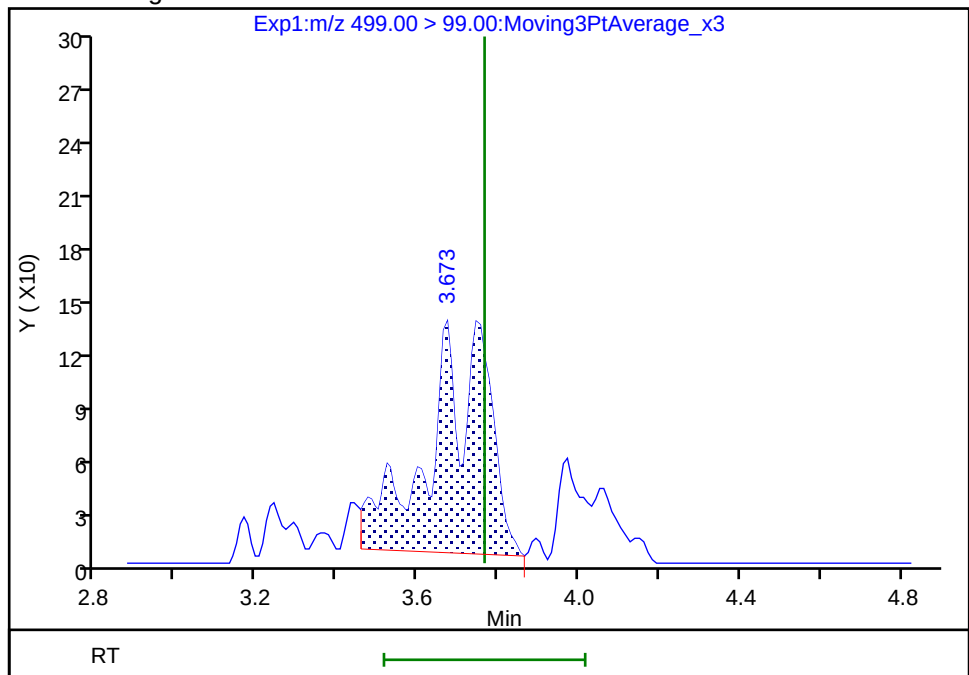
RT: 3.74
Area: 2269
Amount: 0.019823
Amount Units: ng/ml

Processing Integration Results



RT: 3.67
Area: 1301
Amount: 0.015254
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:00:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

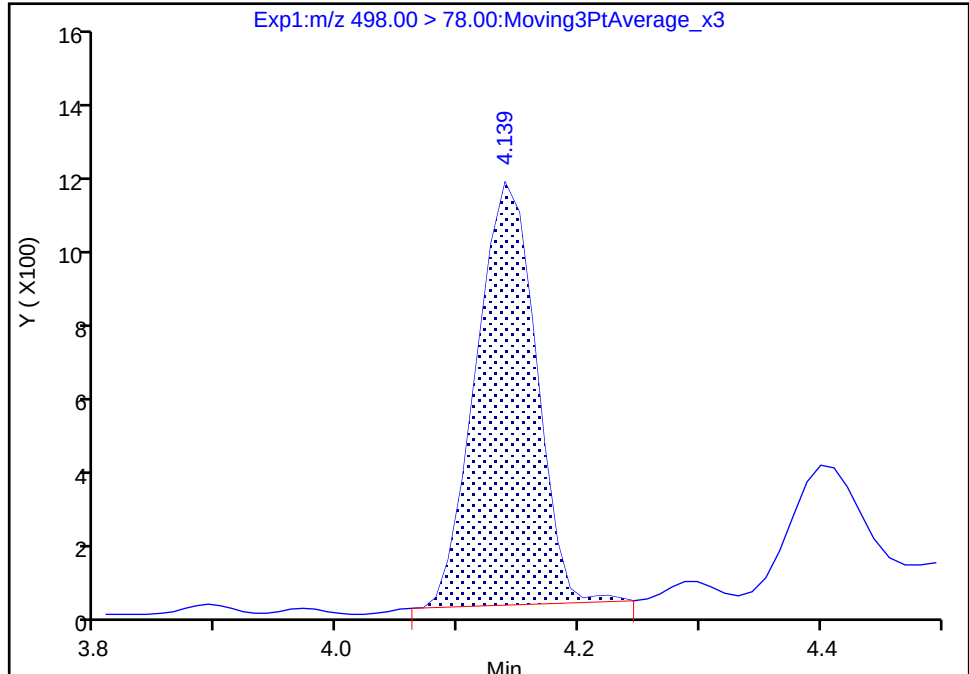
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

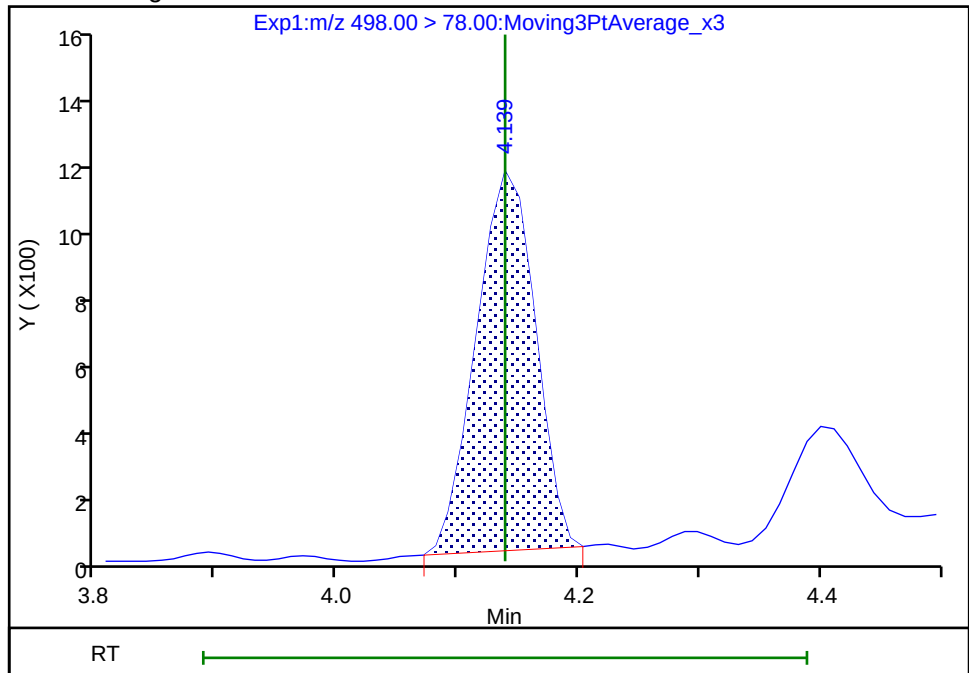
RT: 4.14
Area: 3862
Amount: 0.006196
Amount Units: ng/ml

Processing Integration Results



RT: 4.14
Area: 3784
Amount: 0.006071
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:01:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

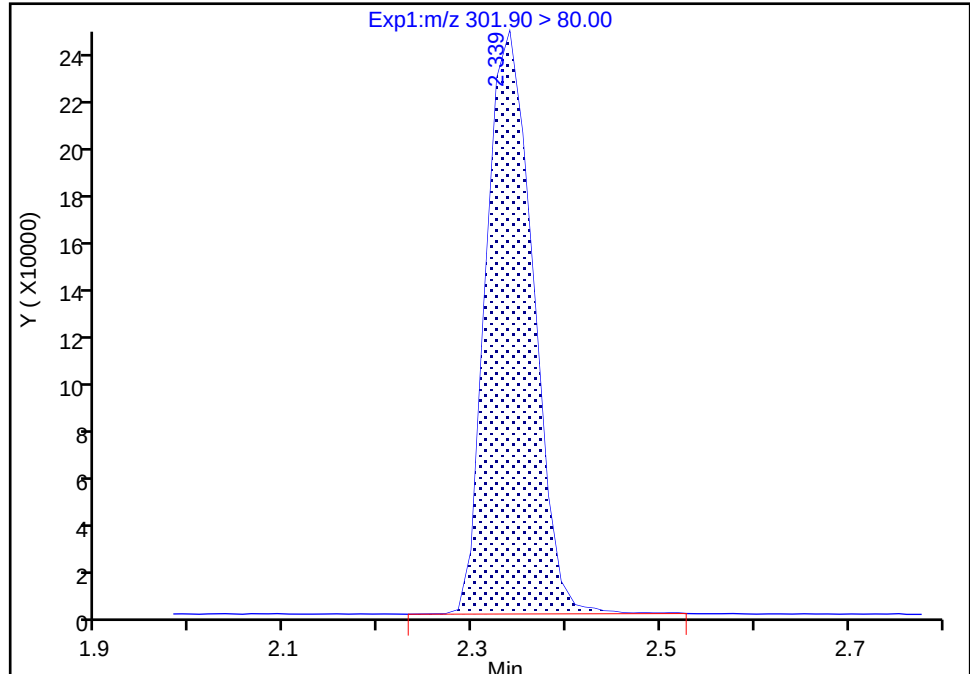
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

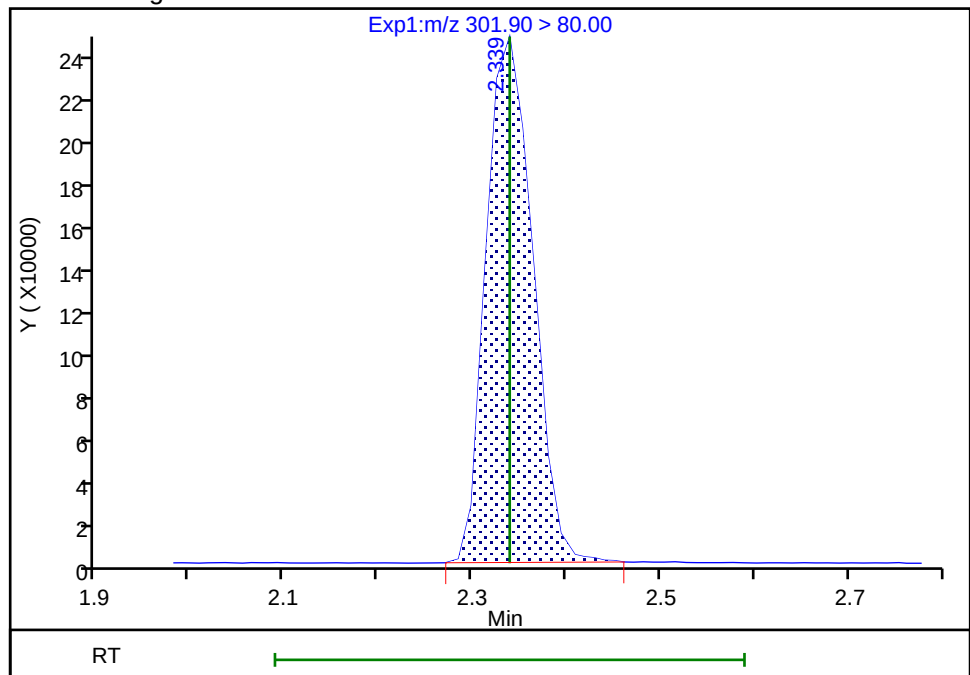
RT: 2.34
Area: 833754
Amount: 1.084826
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 830123
Amount: 1.080102
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:59:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

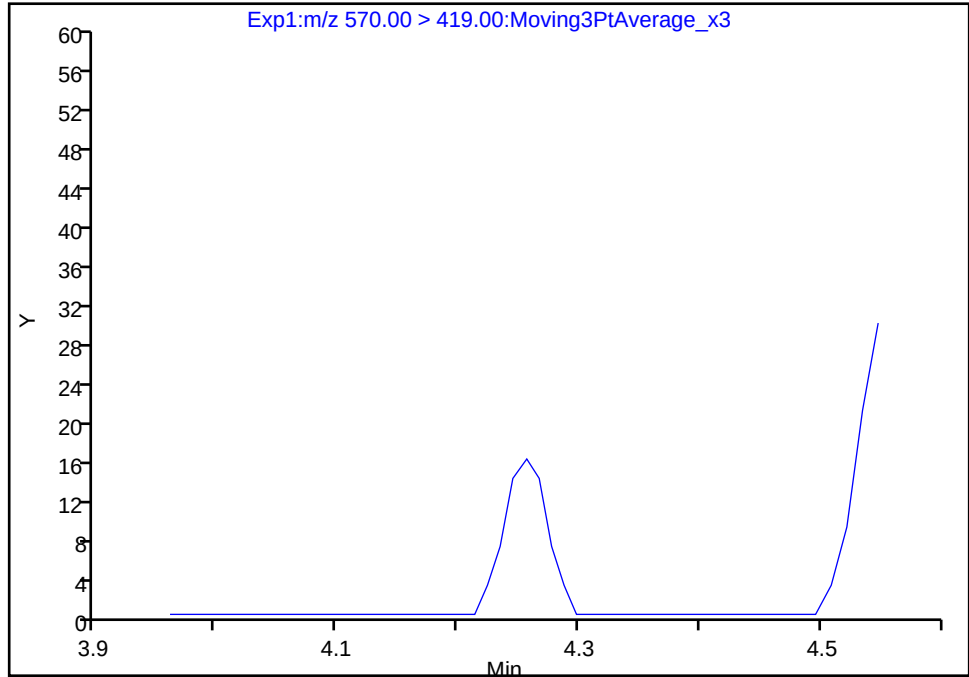
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d		
Injection Date:	24-Sep-2020 18:01:34	Instrument ID:	LC812
Lims ID:	480-175175-D-5-A	Lab Sample ID:	200-175175-5
Client ID:	CC-MW-4		
Operator ID:	lc812tech	ALS Bottle#:	14
Injection Vol:	20.0 ul	Dil. Factor:	1.0000
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL
Column:	C-18 (4.60 mm)	Detector	EXP1
		Worklist Smp#:	14

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

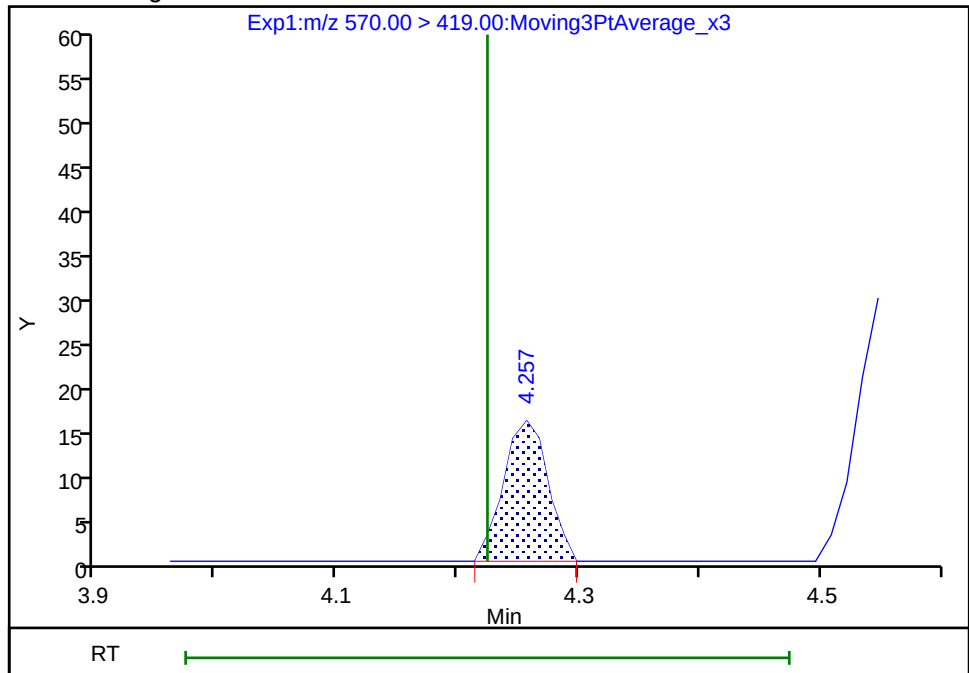
Signal: 1

Not Detected
Expected RT: 4.22

Processing Integration Results

RT: 4.26
Area: 40
Amount: 0.001995
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:01:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

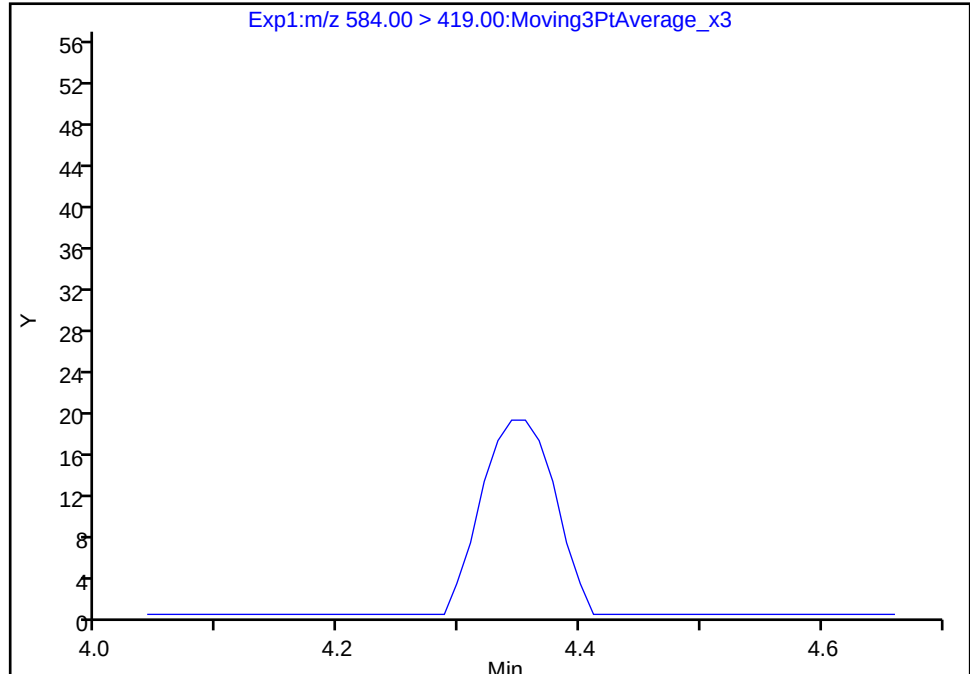
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

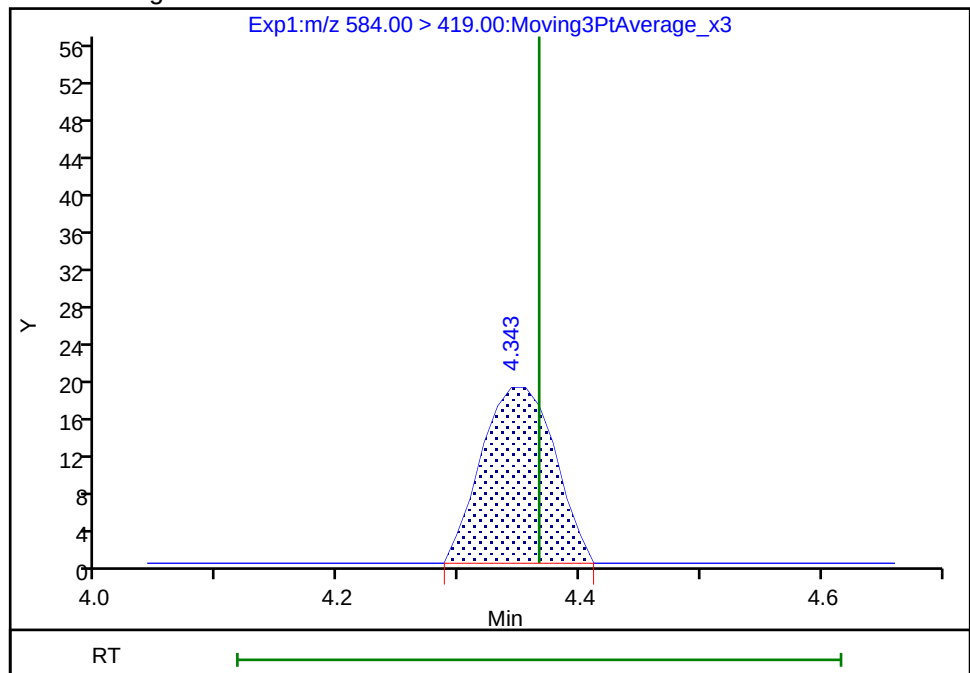
Not Detected
Expected RT: 4.37

Processing Integration Results



RT: 4.34
Area: 80
Amount: 0.003326
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:01:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

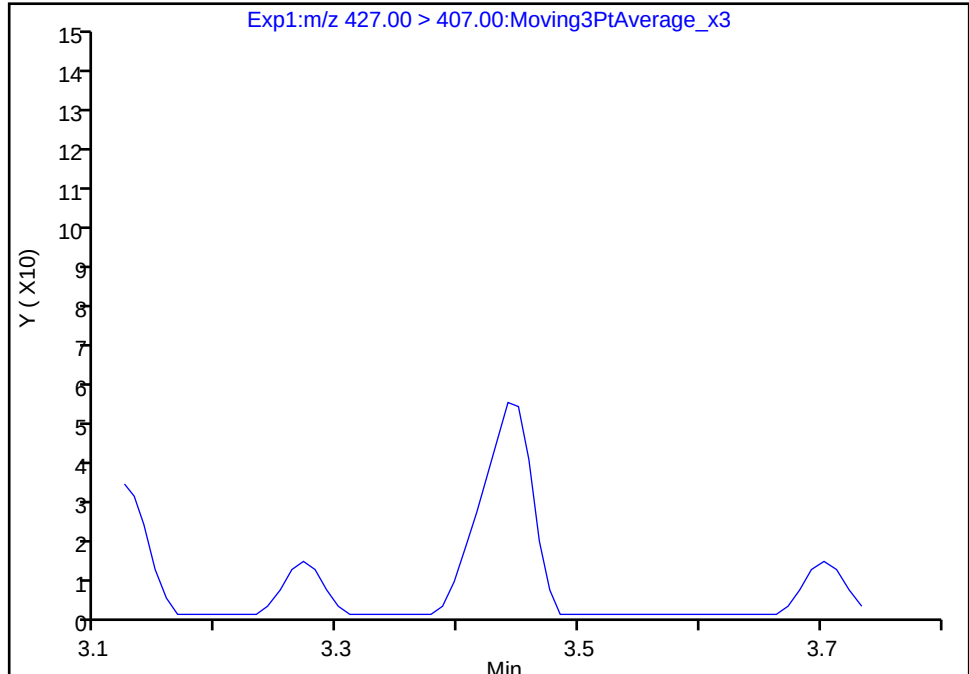
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

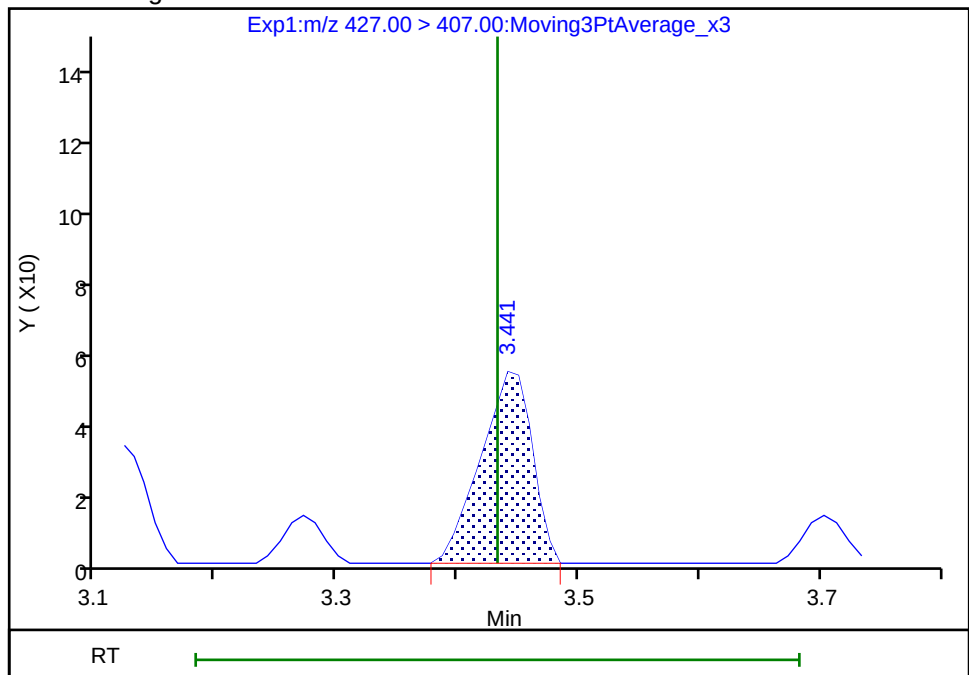
Signal: 1

Not Detected
Expected RT: 3.43

Processing Integration Results



Manual Integration Results



RT: 3.44
Area: 153
Amount: 0.002606
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:00:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

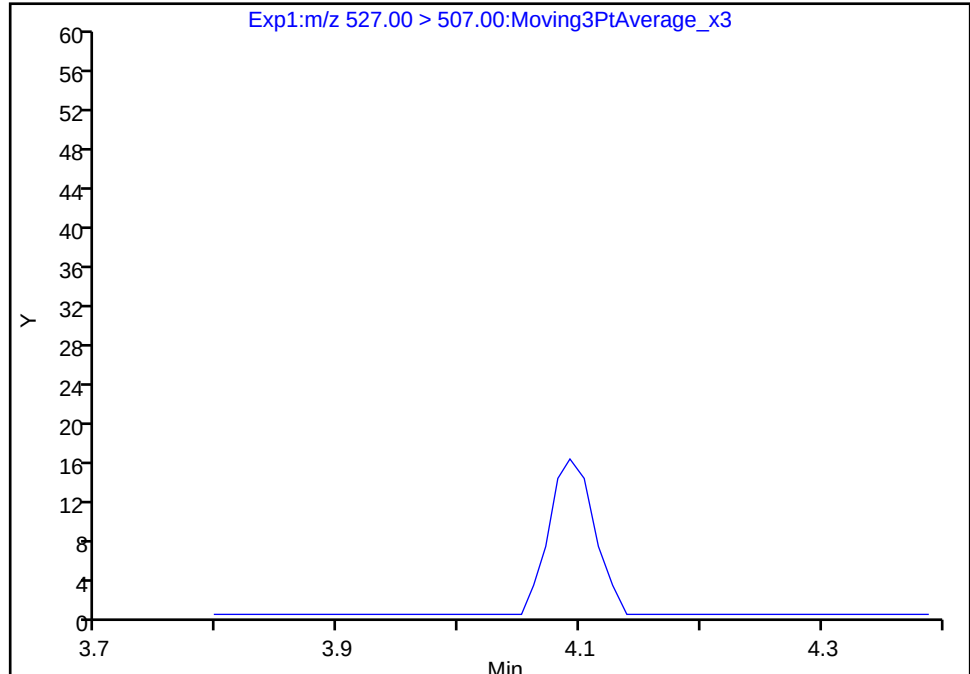
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B14.d
Injection Date: 24-Sep-2020 18:01:34 Instrument ID: LC812
Lims ID: 480-175175-D-5-A Lab Sample ID: 200-175175-5
Client ID: CC-MW-4
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

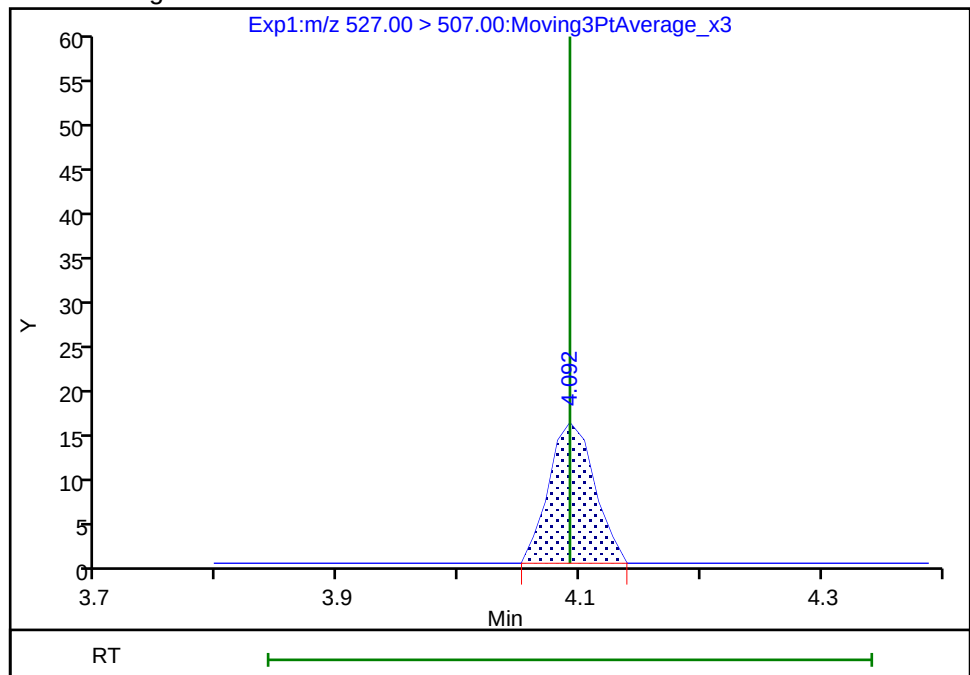
Not Detected
Expected RT: 4.09

Processing Integration Results



RT: 4.09
Area: 41
Amount: 0.001323
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:01:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Burlington</u>	Job No.: <u>480-175175-1</u>
SDG No.: _____	
Client Sample ID: <u>CC-EQUIPMENT BLANK</u>	Lab Sample ID: <u>480-175175-7</u>
Matrix: <u>Water</u>	Lab File ID: <u>PA200924B15.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: <u>09/16/2020 08:55</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>09/24/2020 07:00</u>
Sample wt/vol: <u>279.5 (mL)</u>	Date Analyzed: <u>09/24/2020 18:09</u>
Con. Extract Vol.: <u>10 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20 (uL)</u>	GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>159169</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.5	1.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.8	0.97
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.8	0.74
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.8	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.8	0.88
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.8	0.52
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.8	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.8	0.65
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.8	0.41
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.8	0.38
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.8	0.53
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.8	0.56
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.8	0.60
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.8	0.35
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.8	0.43
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.8	0.78
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		1.8	0.51
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.5	0.71
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.5	0.83
27619-97-2	6:2 FTS	ND		4.5	0.64
39108-34-4	8:2 FTS	ND		1.8	0.59

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-EQUIPMENT BLANK Lab Sample ID: 480-175175-7
 Matrix: Water Lab File ID: PA200924B15.d
 Analysis Method: 537 (modified) Date Collected: 09/16/2020 08:55
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 279.5 (mL) Date Analyzed: 09/24/2020 18:09
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	79		25-150
STL00992	13C4 PFBA	78		25-150
STL01893	13C5 PFPeA	104		25-150
STL00993	13C2 PFHxA	105		50-150
STL01892	13C4 PFHpA	108		50-150
STL00990	13C4 PFOA	103		50-150
STL00995	13C5 PFNA	105		50-150
STL00996	13C2 PFDA	101		50-150
STL00997	13C2 PFUnA	92		50-150
STL00998	13C2 PFDoA	93		50-150
STL02116	13C2 PFTeDA	78		50-150
STL02337	13C3 PFBS	98		50-150
STL00994	18O2 PFHxS	104		50-150
STL00991	13C4 PFOS	100		50-150
STL02118	d3-NMeFOSAA	81		50-150
STL02117	d5-NEtFOSAA	94		50-150
STL02279	M2-6:2 FTS	105		25-150
STL02280	M2-8:2 FTS	99		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
 Lims ID: 480-175175-A-7-A
 Client ID: CC-EQUIPMENT BLANK
 Sample Type: Client
 Inject. Date: 24-Sep-2020 18:09:51 ALS Bottle#: 15 Worklist Smp#: 15
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-175175-A-7-A
 Misc. Info.: 200-0042936-015 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 09:04:58

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.990	1.981	0.009	0.577	781810	0.9806		78.4	3733	
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.674	739478	1.29		104	2997	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	4899	0.007841		0.2		M
D 47 13C3 PFBS										M
301.90 > 80.00	2.353	2.339	0.014	0.682	794903	1.14		98.3	233692	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.339	0.014	1.000	2453	0.003600	Target=2.07	9.3		
298.90 > 99.00	2.339	2.339	0.0	0.994	1252		1.96(1.04-3.11)	2.1		M
D 7 13C2 PFHxA										
315.00 > 270.00	2.703	2.691	0.012	0.784	768701	1.31		105	4050	
6 Perfluorohexanoic acid										RM
313.00 > 269.00	2.703	2.691	0.012	1.000	8174	0.0132	Target=12.44	2.7		RM
313.00 > 119.00	2.716	2.691	0.025	1.005	421		19.42(6.22-18.66)	1.1		M
D 11 18O2 PFHxS										
403.00 > 84.00	3.084	3.073	0.011	0.894	613804	1.23		104	2234	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.000	3311	0.005776	Target=4.60	10.9		M
399.00 > 99.00	3.073	3.073	0.0	0.996	622		5.32(2.30-6.91)	0.9		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.073	0.011	0.894	722908	1.35		108	4203	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	1417	0.002445	Target=3.34	0.7		M
363.00 > 169.00	3.096	3.084	0.012	1.004	341		4.16(1.67-5.01)	1.5		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.424	3.433	-0.009	0.995	82	0.001465		3.6		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.441	0.0	0.997	83259	1.25		105	664	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	706502	1.29		103	3928	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.441	0.009		695514	1.25			3139	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.458	3.450	0.008	1.003	1790	0.003068	Target=2.29	1.1		M
413.00 > 169.00	3.441	3.450	-0.009	0.997	881		2.03(1.14-3.43)	2.7		M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	488516	1.20		100	2859	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.745	3.765	-0.020	0.994	710	0.001598	Target=7.10	2.0		RM
499.00 > 99.00	3.755	3.765	-0.010	0.997	574		1.24(3.55-10.64)	4.9		M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.786	0.0	1.098	605038	1.31		105	3527	
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.082	0.0	1.183	556954	1.26		101	4821	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	92724	1.18		98.5	958	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.139	0.012	1.203	708722	0.99		79.5	2658	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.151	4.139	0.012	1.000	126	0.000238		0.6		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.224	0.0	1.224	25578	1.01		81.2	7228	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.203	4.224	-0.021	0.995	163	0.008441		3.0		M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.321	4.321	0.0	1.147	41	0.000140	Target=3.31	0.5		RM
599.00 > 99.00	4.343	4.321	0.022	1.154	111		0.37(1.66-4.97)	1.5		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	384039	1.15		91.9	4917	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.343	4.343	0.0	1.000	1045	0.003449	Target=6.57	1.3		M
563.00 > 169.00	4.332	4.343	-0.011	0.997	125		8.36(3.28-9.85)	3.2		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	31705	1.17		93.6	571	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	411109	1.16		93.1	3450	
37 Perfluorododecanoic acid										RM
613.00 > 569.00	4.573	4.573	0.0	1.000	703	0.002192	Target=5.16	1.1		RM
613.00 > 169.00	4.561	4.573	-0.012	0.997	76		9.25(2.58-7.75)	2.7		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.978	0.001	1.443	243927	0.9696		77.6	3324	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.988	4.978	0.010	1.002	85	0.001902	Target=1.06		3.1	RM
713.00 > 219.00	4.988	4.978	0.010	1.002	36		2.36(0.53-1.59)		2.3	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d

Injection Date: 24-Sep-2020 18:09:51

Instrument ID: LC812

Lims ID: 480-175175-A-7-A

Lab Sample ID: 200-175175-7

Client ID: CC-EQUIPMENT BLANK

Operator ID: lc812tech

ALS Bottle#: 15

Worklist Smp#: 15

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

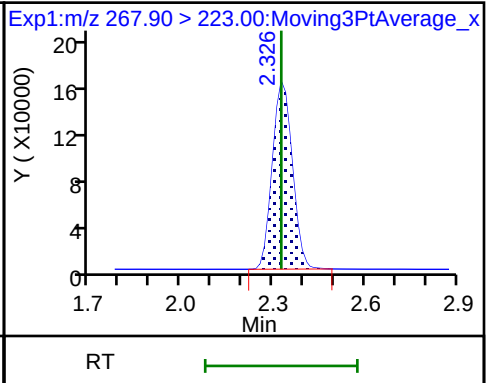
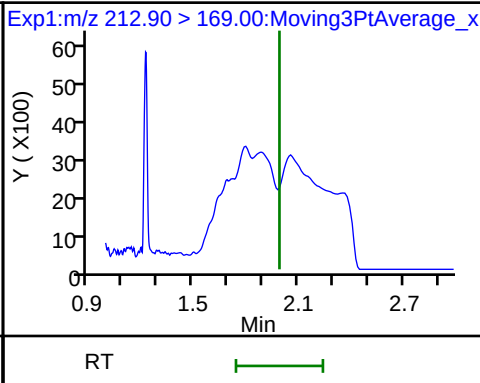
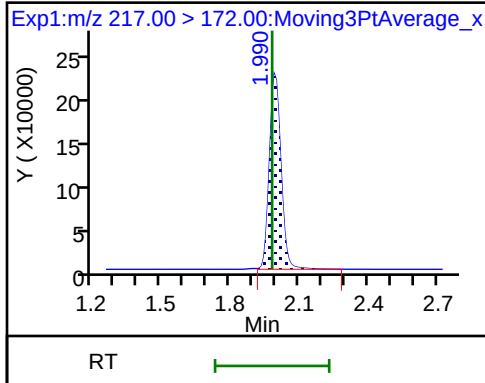
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (ND)

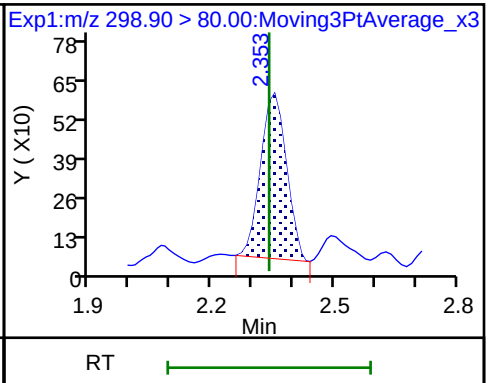
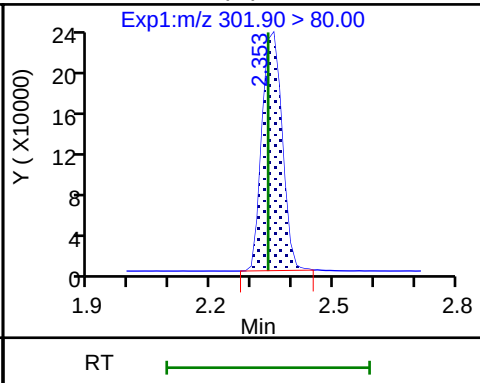
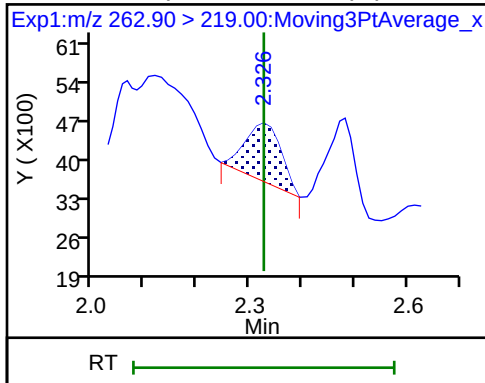
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

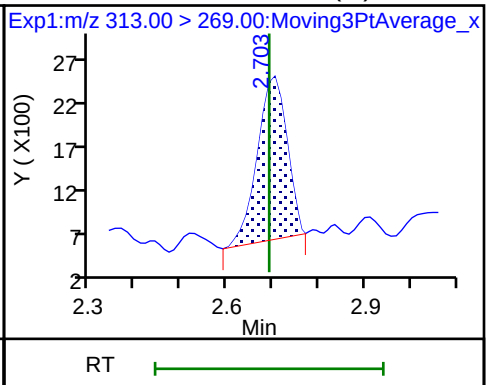
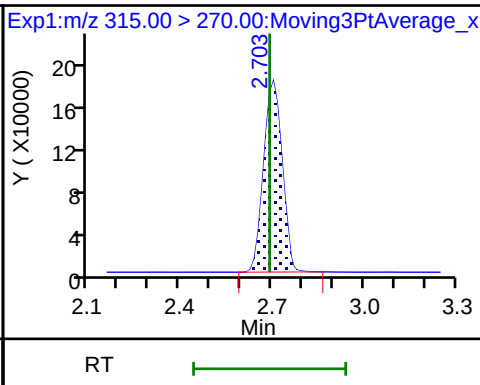
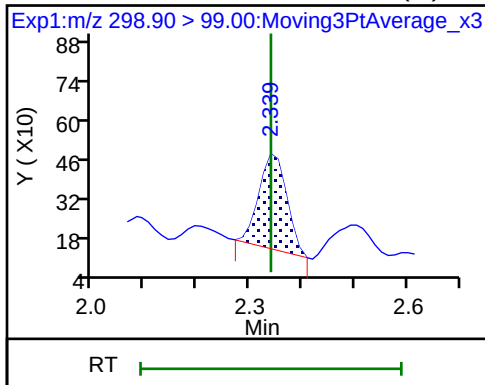
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

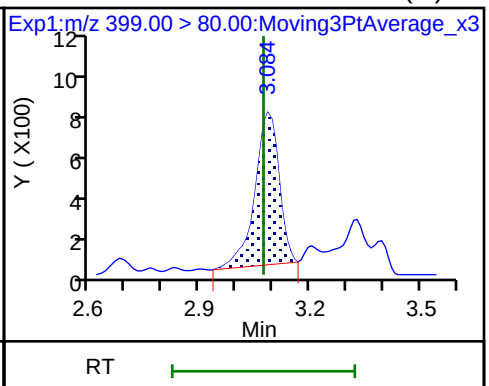
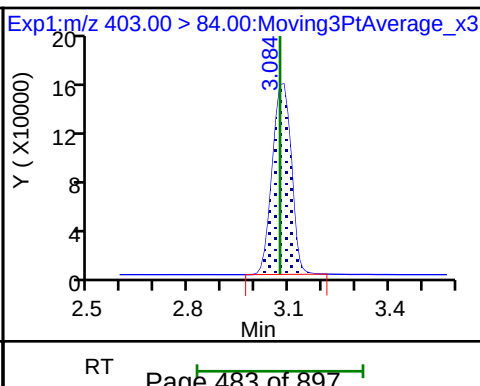
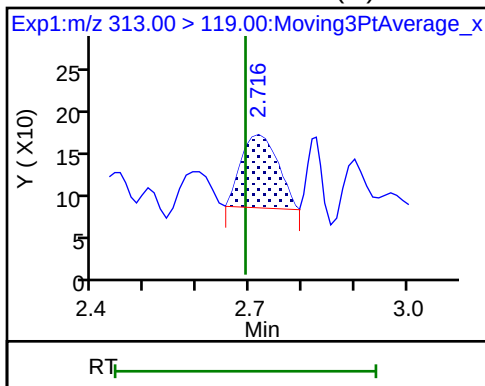
6 Perfluorohexanoic acid (M)

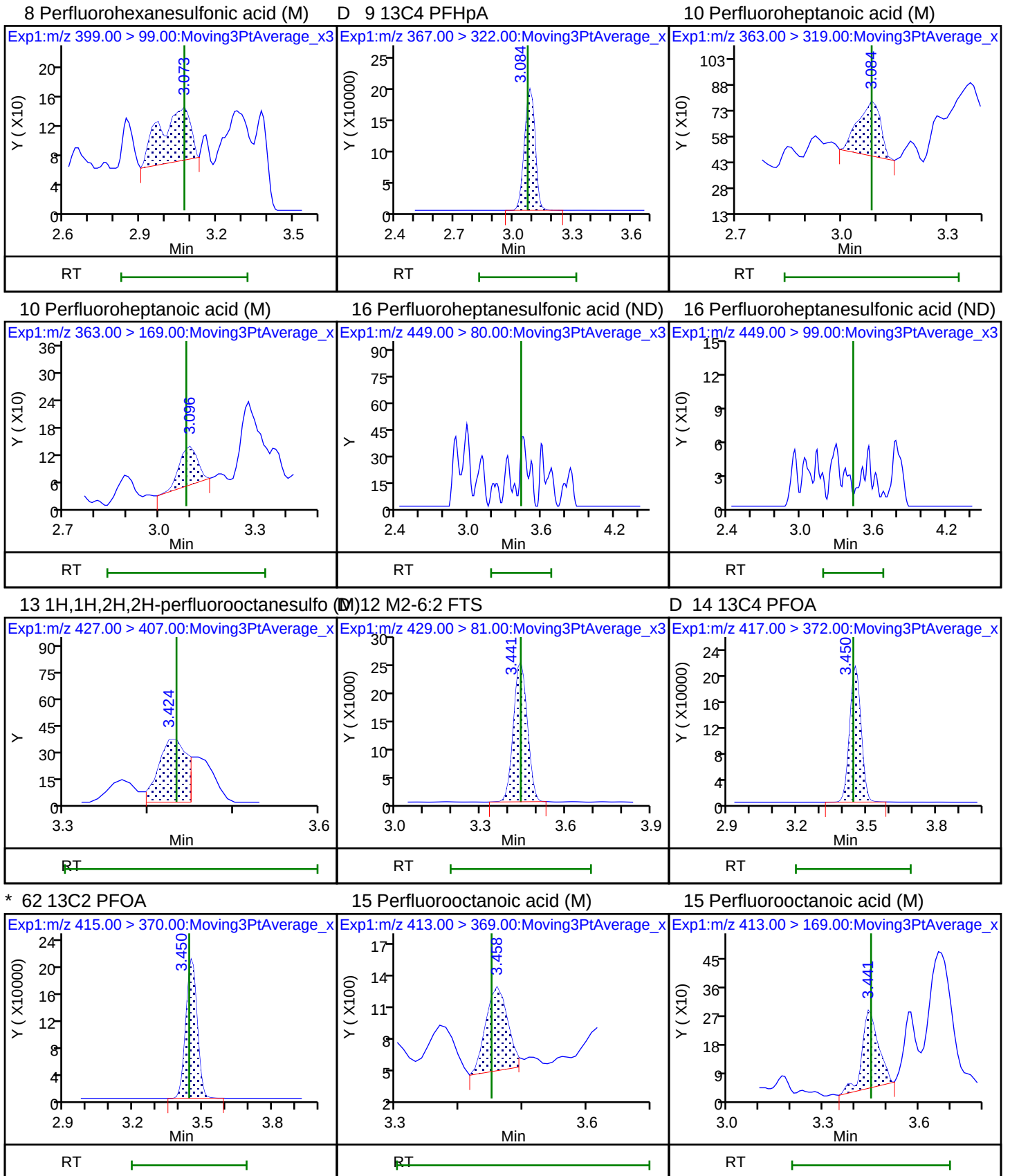


6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)

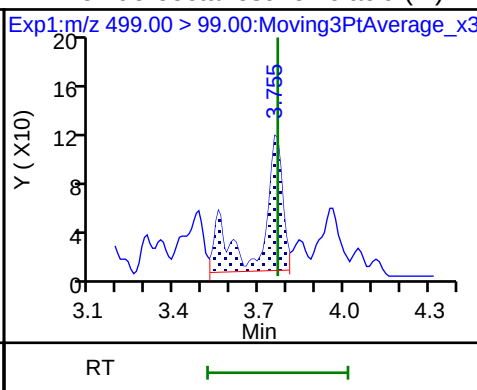
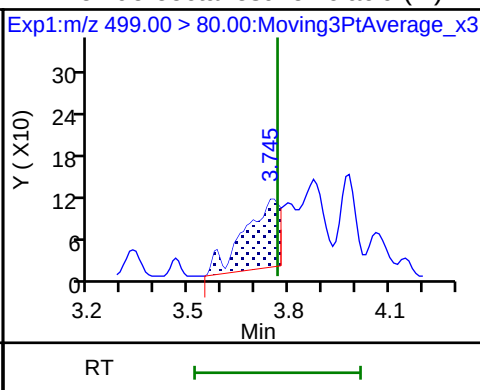
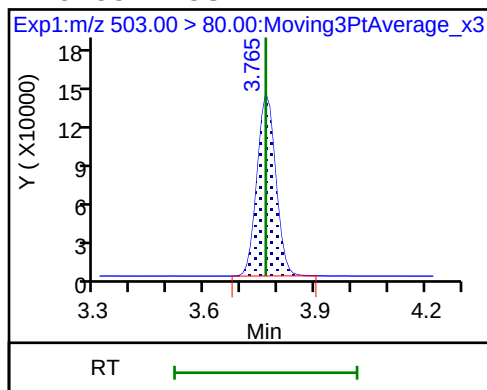




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

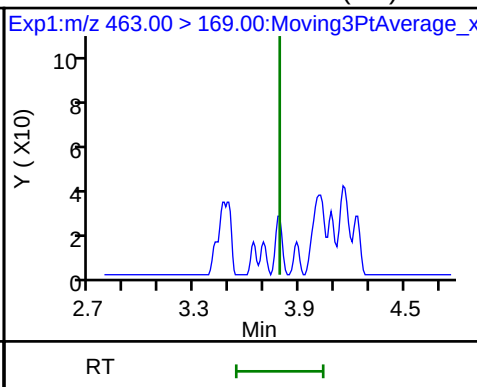
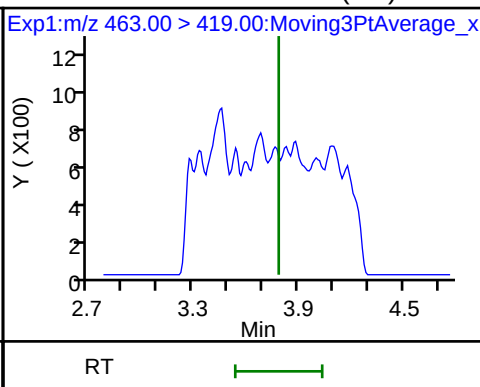
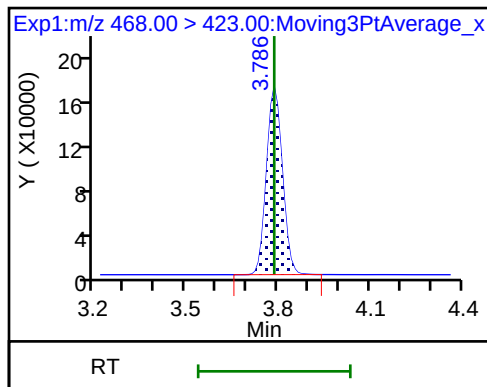
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (ND)

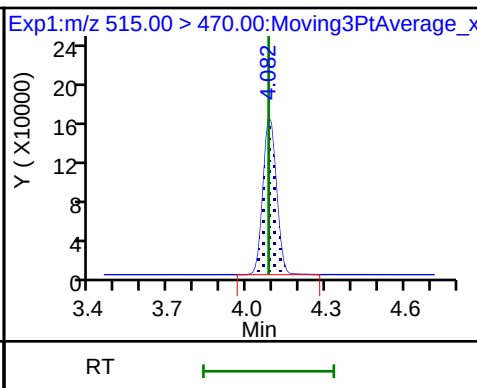
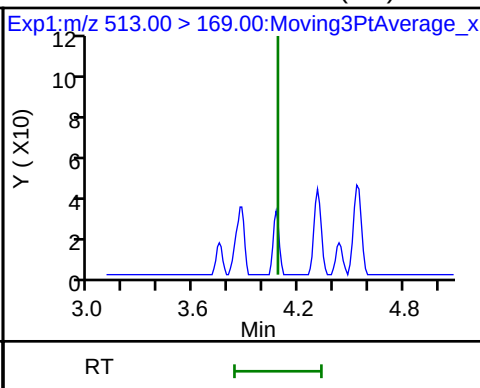
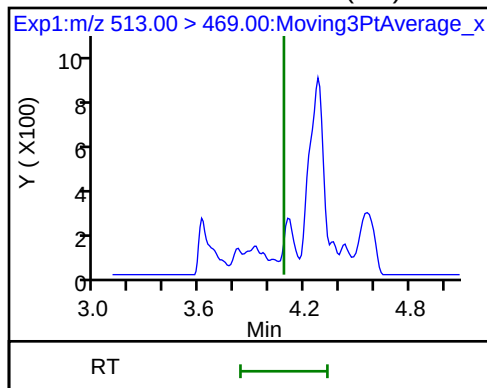
20 Perfluorononanoic acid (ND)



24 Perfluorodecanoic acid (ND)

24 Perfluorodecanoic acid (ND)

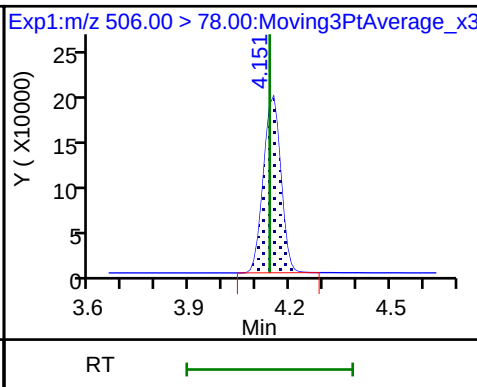
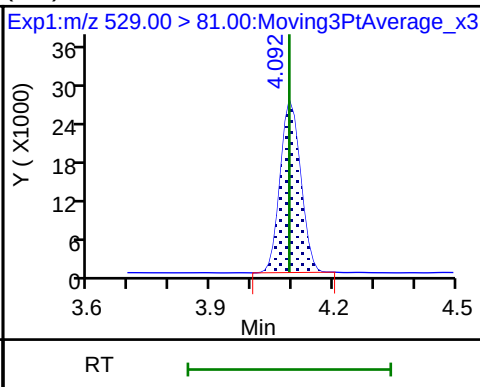
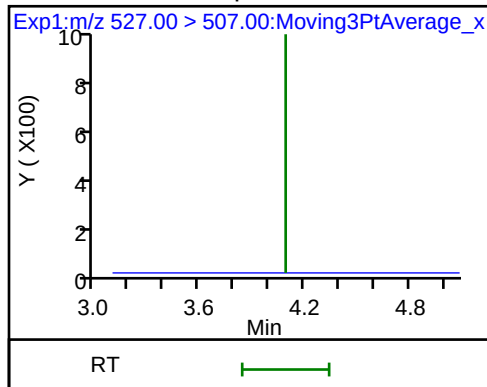
D 23 13C2 PFDA

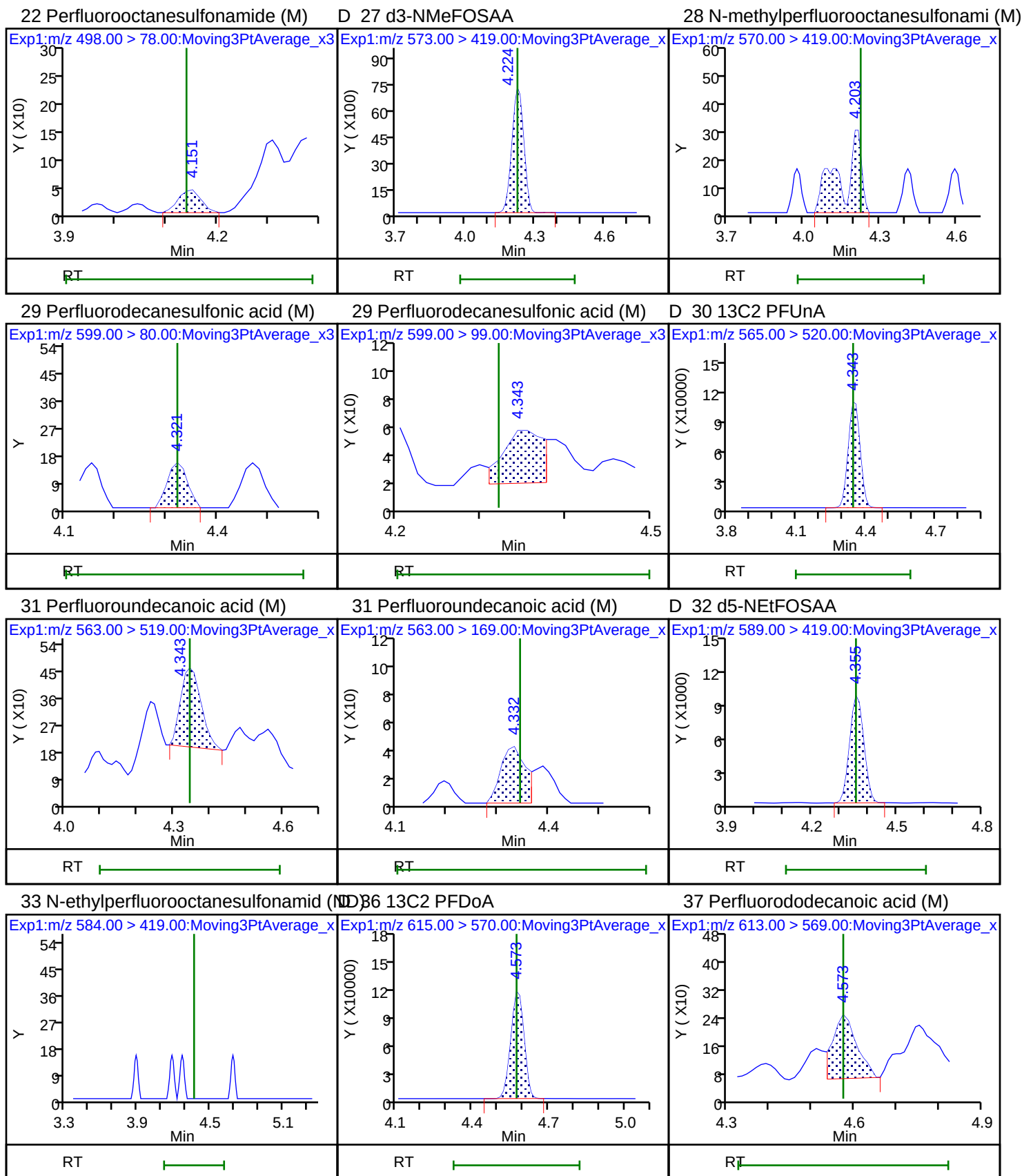


25 1H,1H,2H,2H-perfluorodecanesulfonic acid (ND)

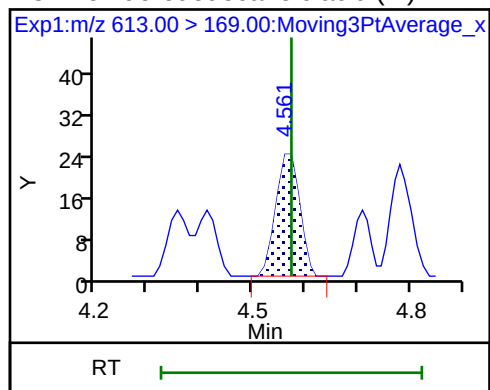
D 25 M2-8:2 FTS

D 21 13C8 FOSA

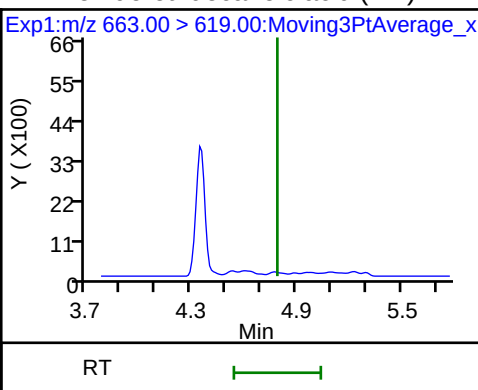




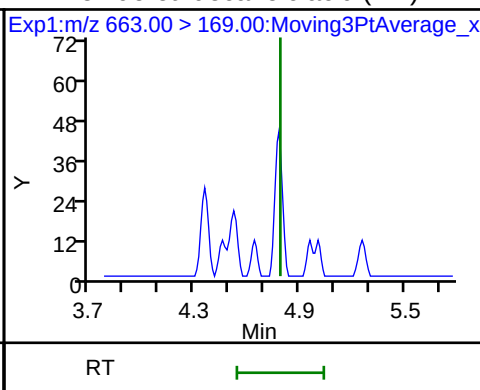
37 Perfluorododecanoic acid (M)



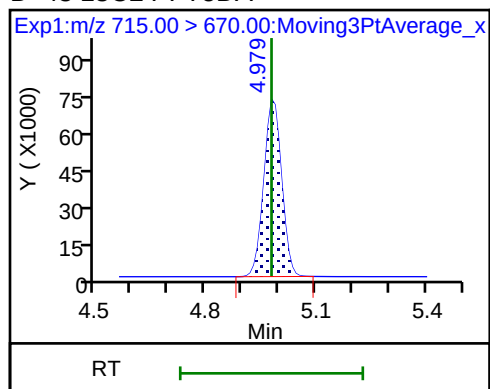
41 Perfluorotridecanoic acid (ND)



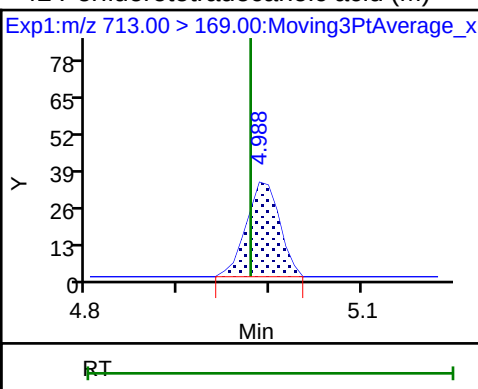
41 Perfluorotridecanoic acid (ND)



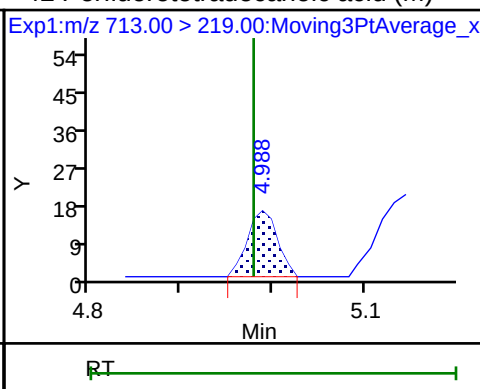
D 43 13C2 PFTeDA



42 Perfluorotetradecanoic acid (M)



42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

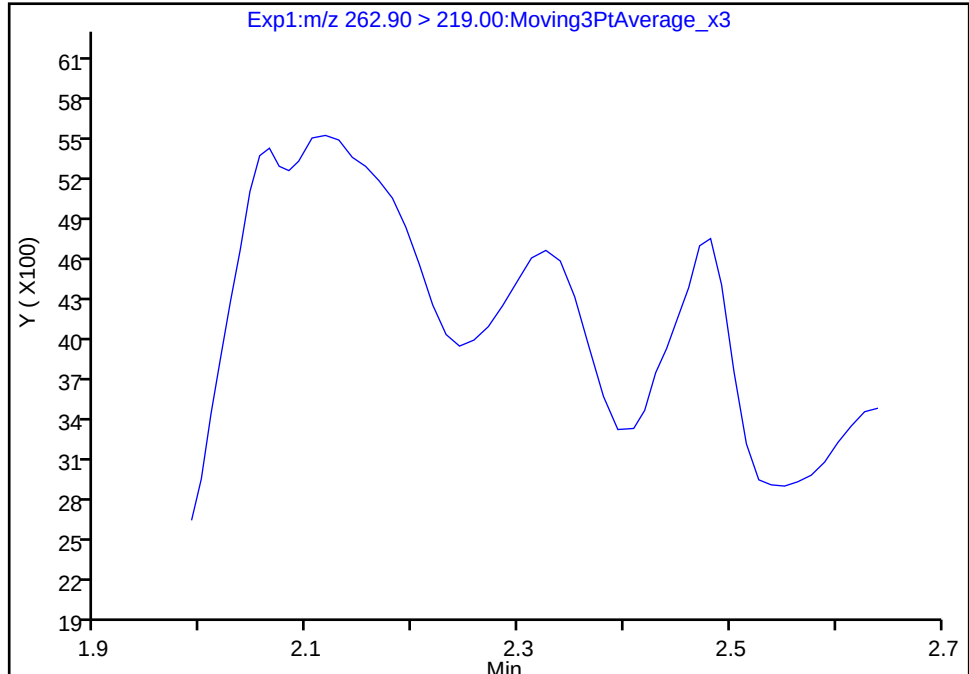
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d				
Injection Date:	24-Sep-2020 18:09:51	Instrument ID:	LC812		
Lims ID:	480-175175-A-7-A	Lab Sample ID:	200-175175-7		
Client ID:	CC-EQUIPMENT BLANK				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

4 Perfluoropentanoic acid, CAS: 2706-90-3

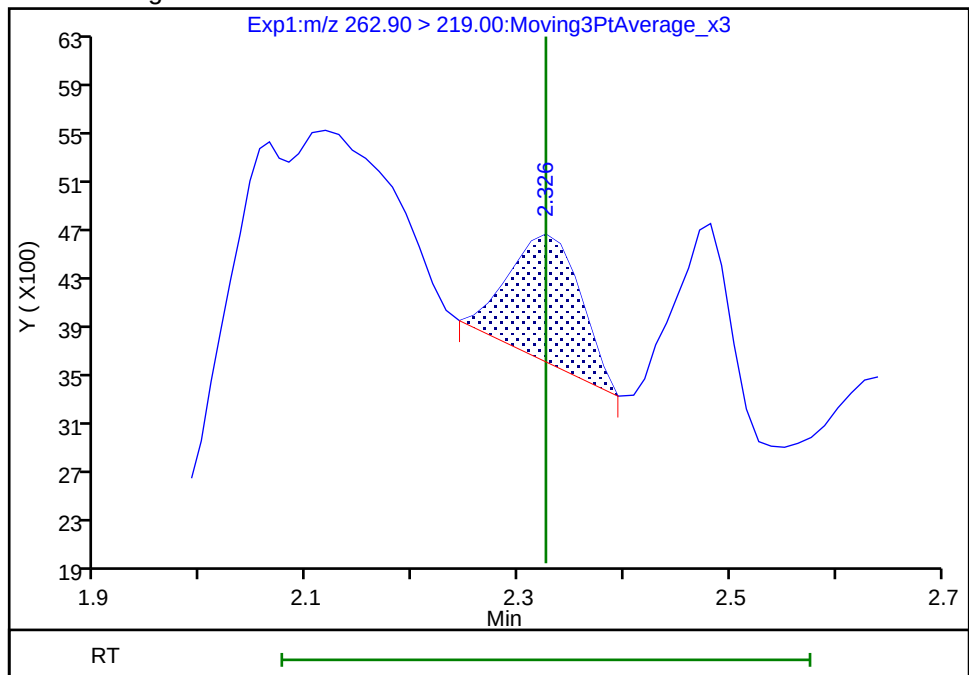
Signal: 1

Not Detected
Expected RT: 2.33

Processing Integration Results



Manual Integration Results

Reviewer: chirgwinb, 25-Sep-2020 10:43:45
Audit Action: Manually IntegratedAudit Reason: Missed Peak
Page 488 of 897

Eurofins TestAmerica, Burlington

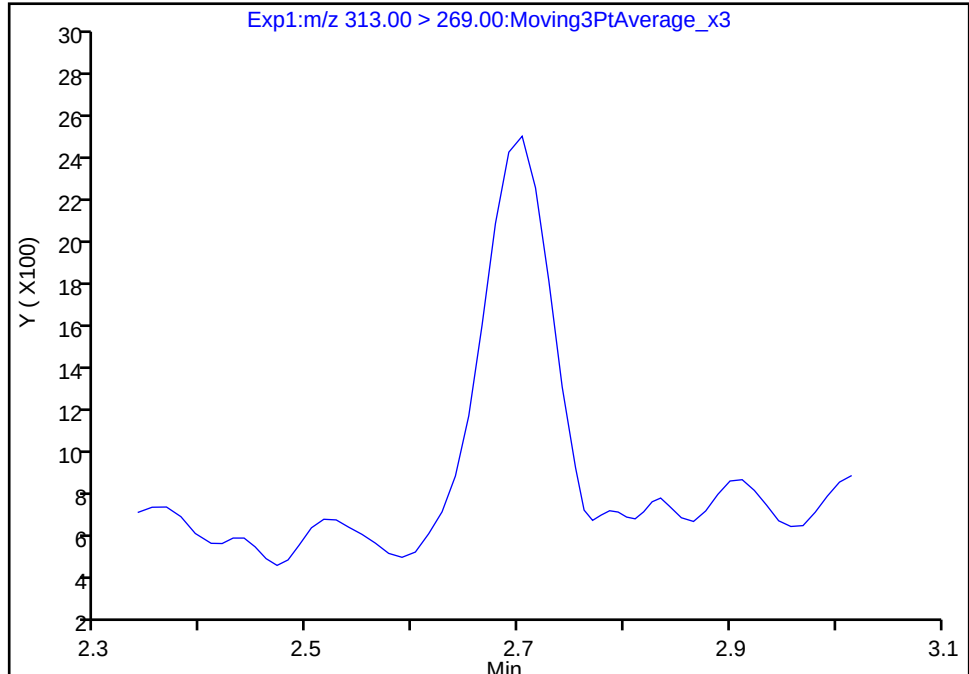
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d				
Injection Date:	24-Sep-2020 18:09:51	Instrument ID:	LC812		
Lims ID:	480-175175-A-7-A	Lab Sample ID:	200-175175-7		
Client ID:	CC-EQUIPMENT BLANK				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

6 Perfluorohexanoic acid, CAS: 307-24-4

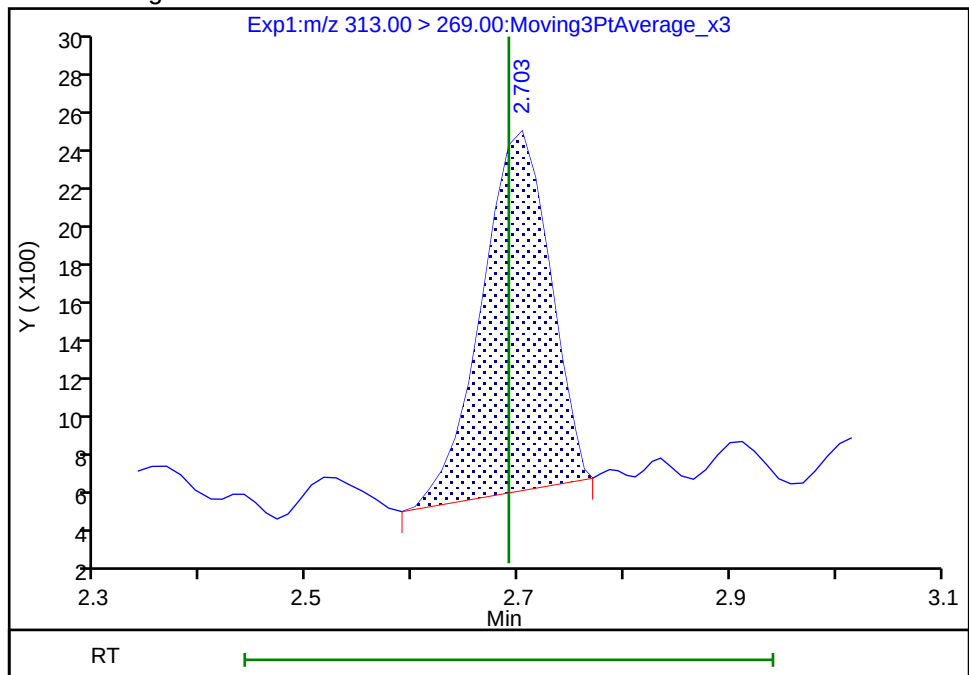
Signal: 1

Not Detected
Expected RT: 2.69

Processing Integration Results



Manual Integration Results

RT: 2.70
Area: 8174
Amount: 0.013200
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:02:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

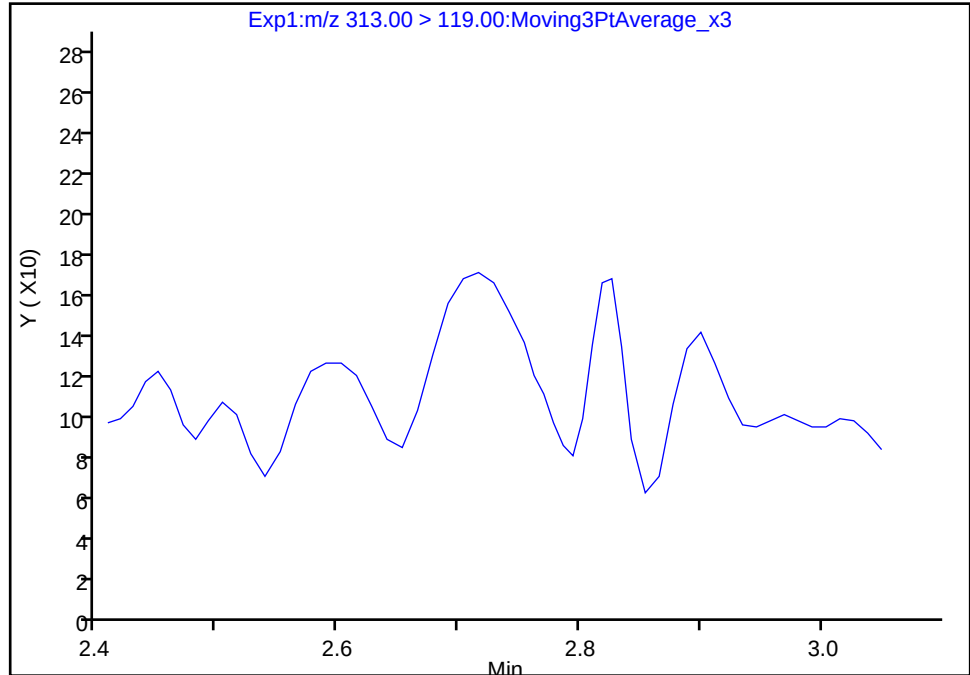
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

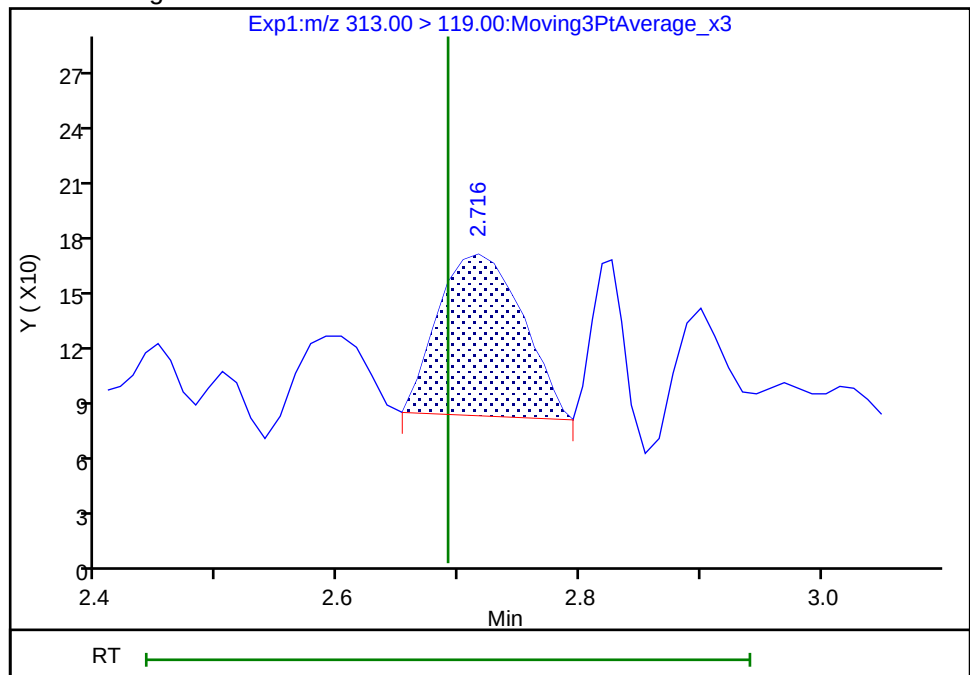
Signal: 2

Not Detected
Expected RT: 2.69

Processing Integration Results



Manual Integration Results



RT: 2.72
Area: 421
Amount: 0.013200
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:02:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 490 of 897

Eurofins TestAmerica, Burlington

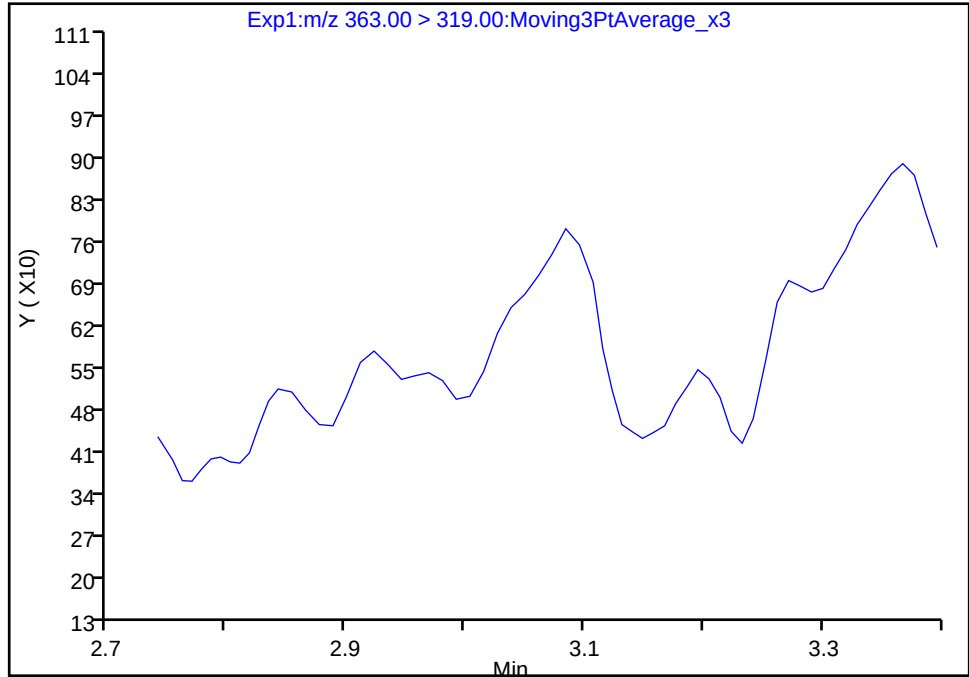
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

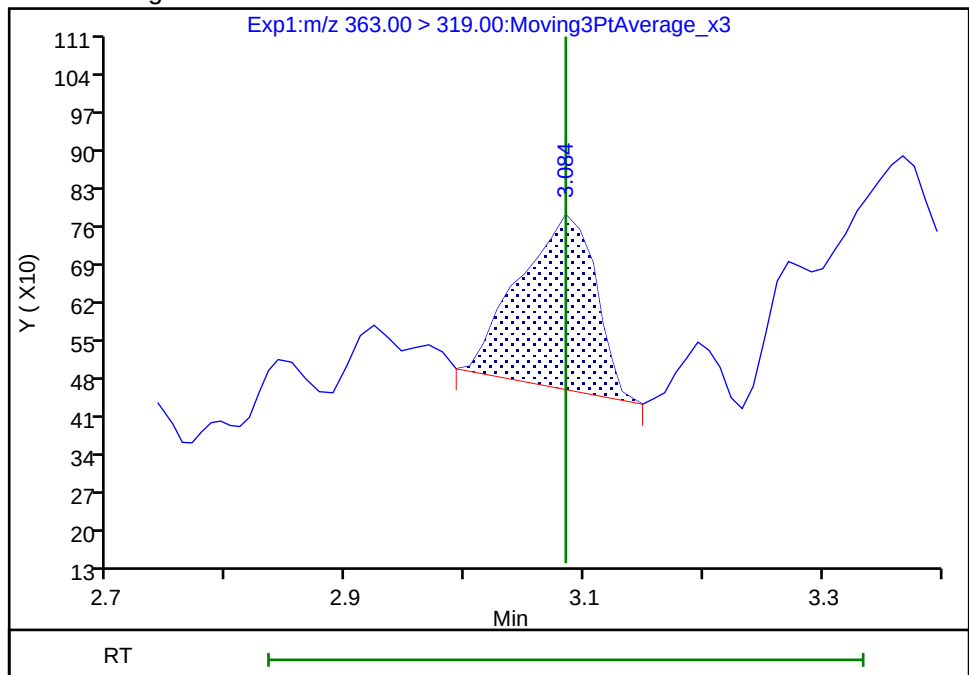
Signal: 1

Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results



RT: 3.08
Area: 1417
Amount: 0.002445
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:02:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

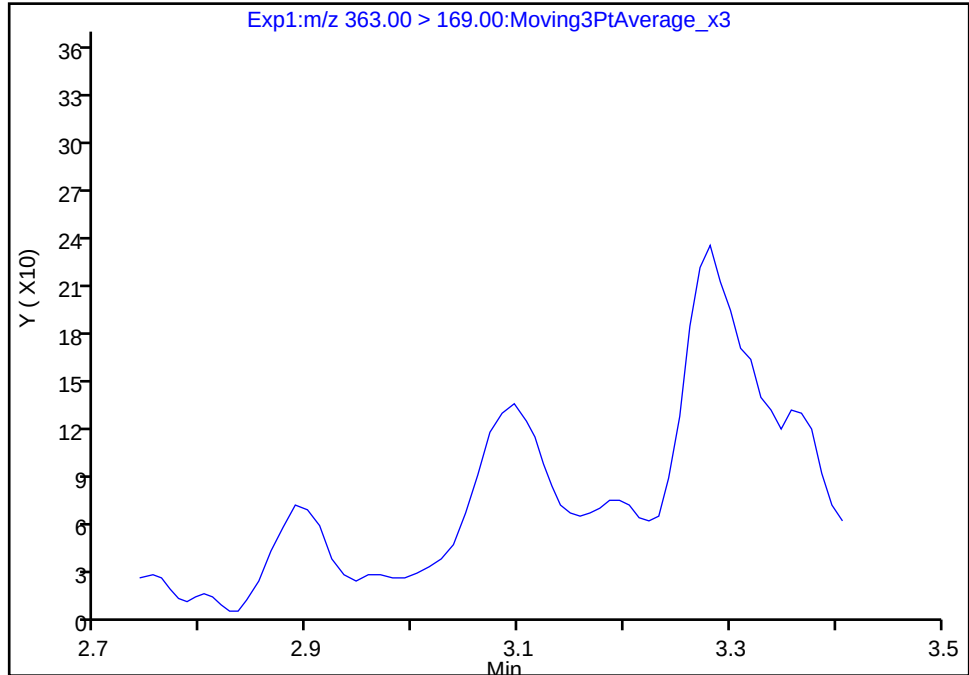
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

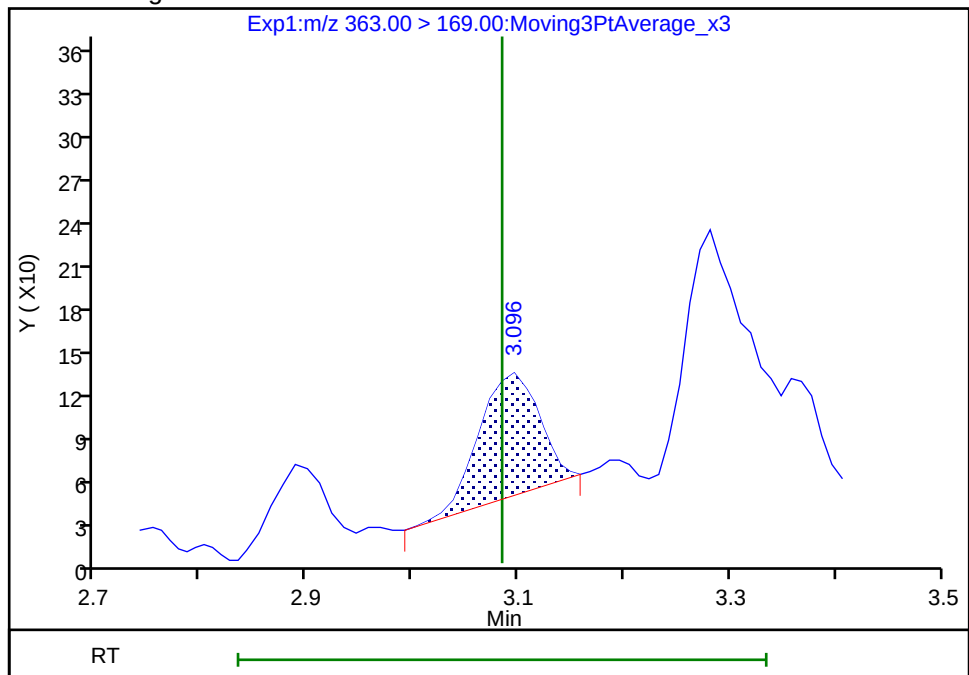
Not Detected
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 341
Amount: 0.002445
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 09:02:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

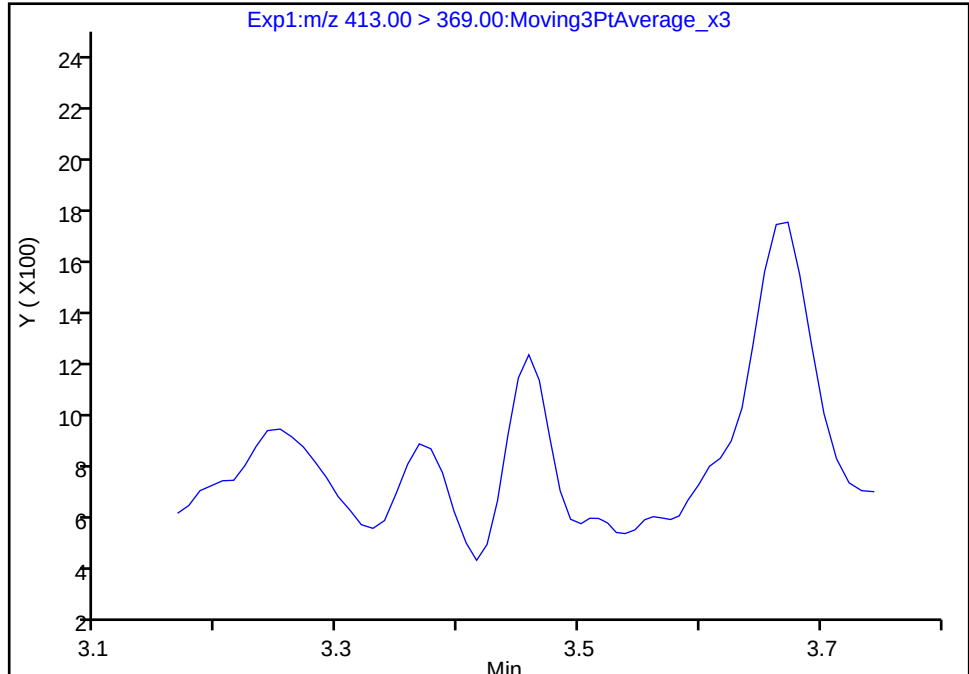
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

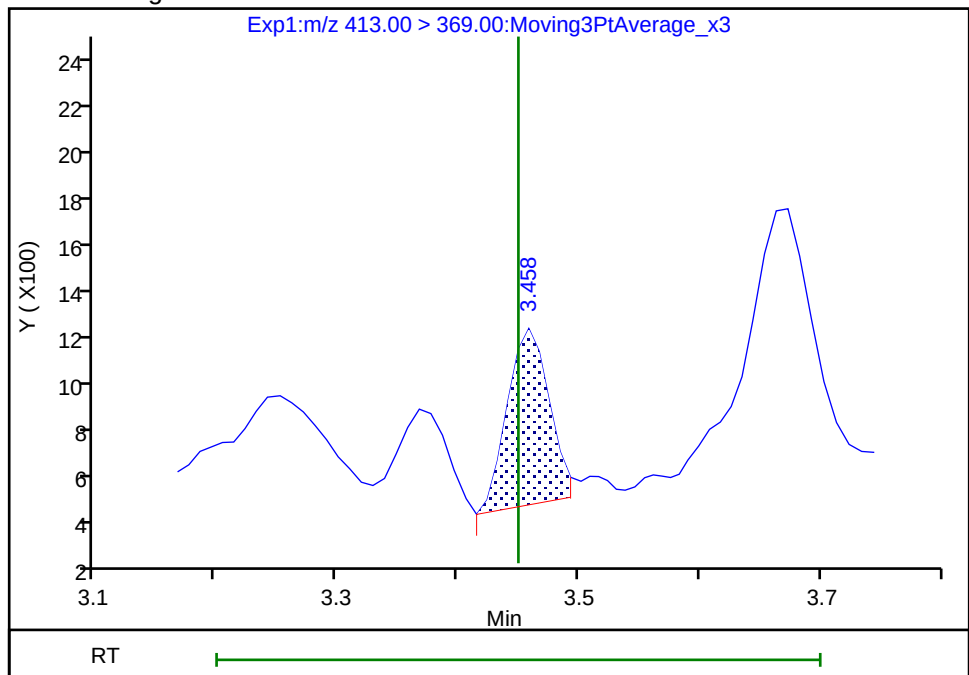
Not Detected
Expected RT: 3.45

Processing Integration Results



RT: 3.46
Area: 1790
Amount: 0.003068
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:03:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

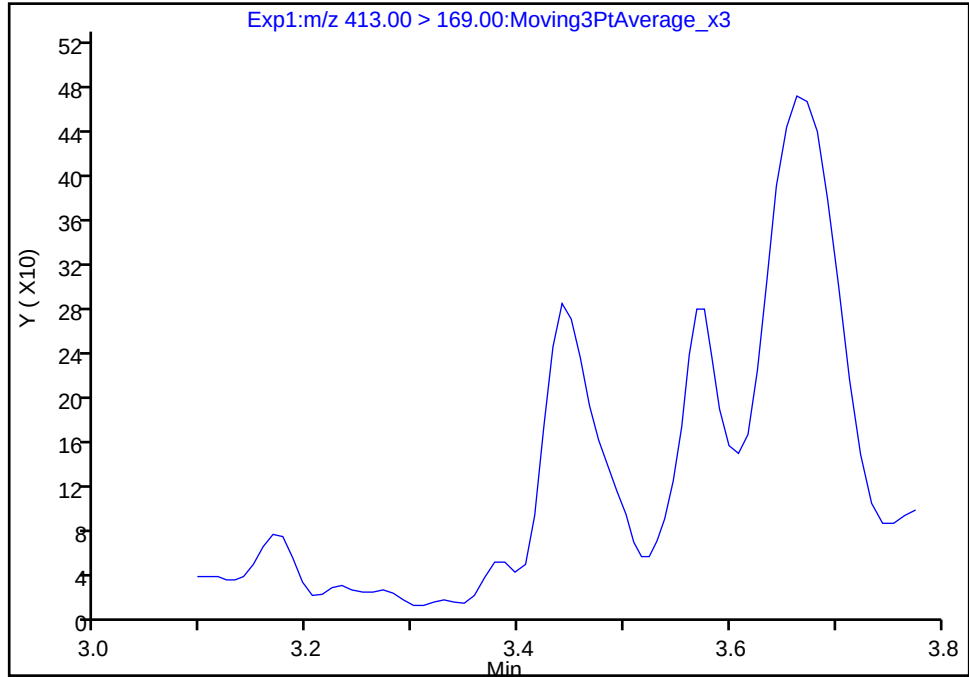
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

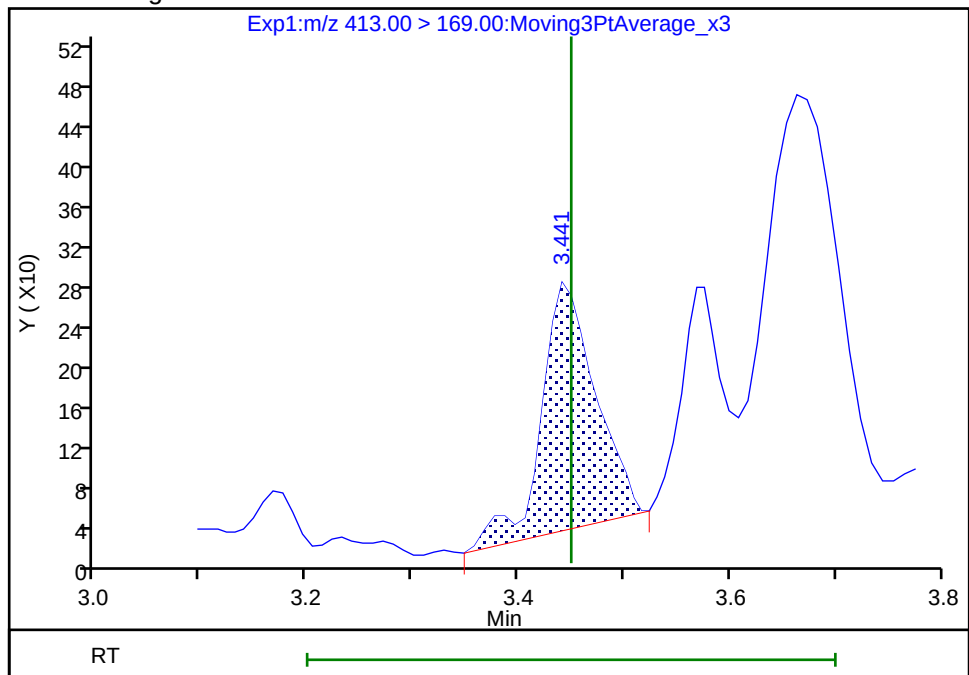
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.44
Area: 881
Amount: 0.003068
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 09:03:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

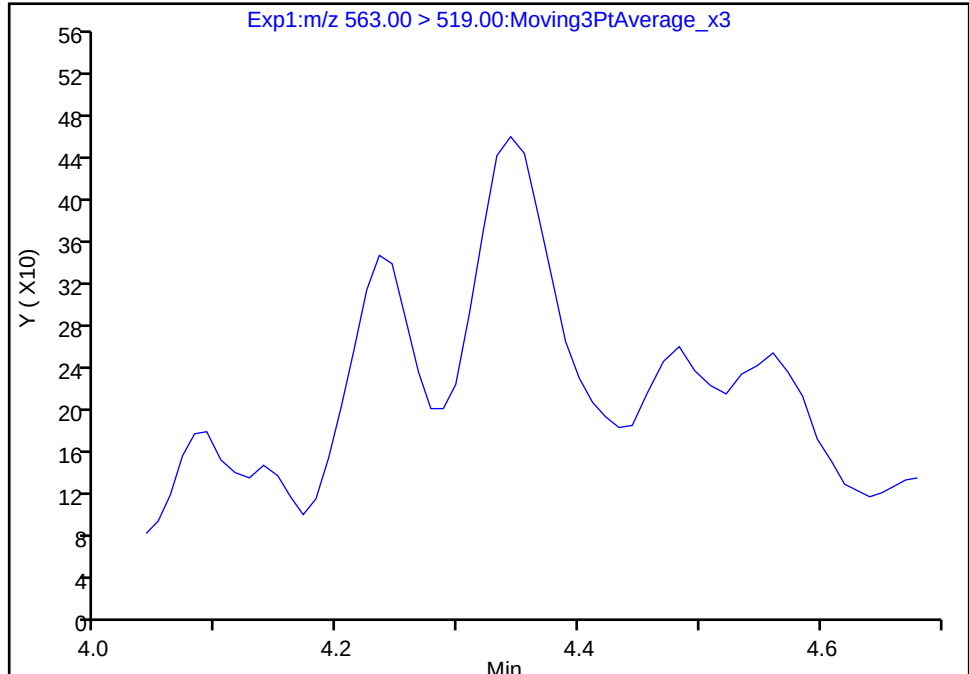
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

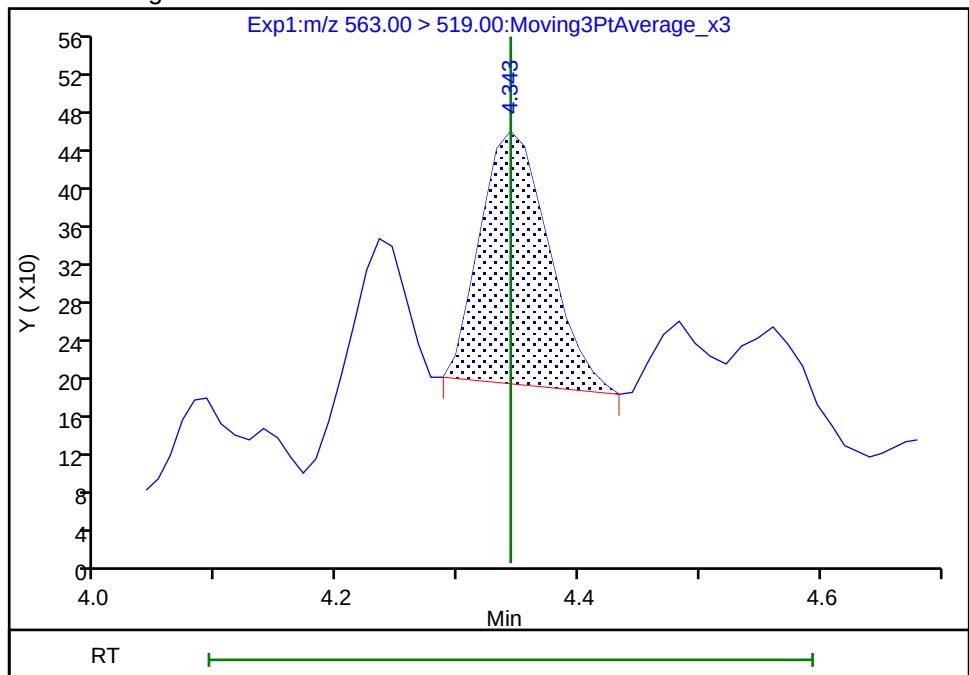
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 1045
Amount: 0.003449
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 09:04:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

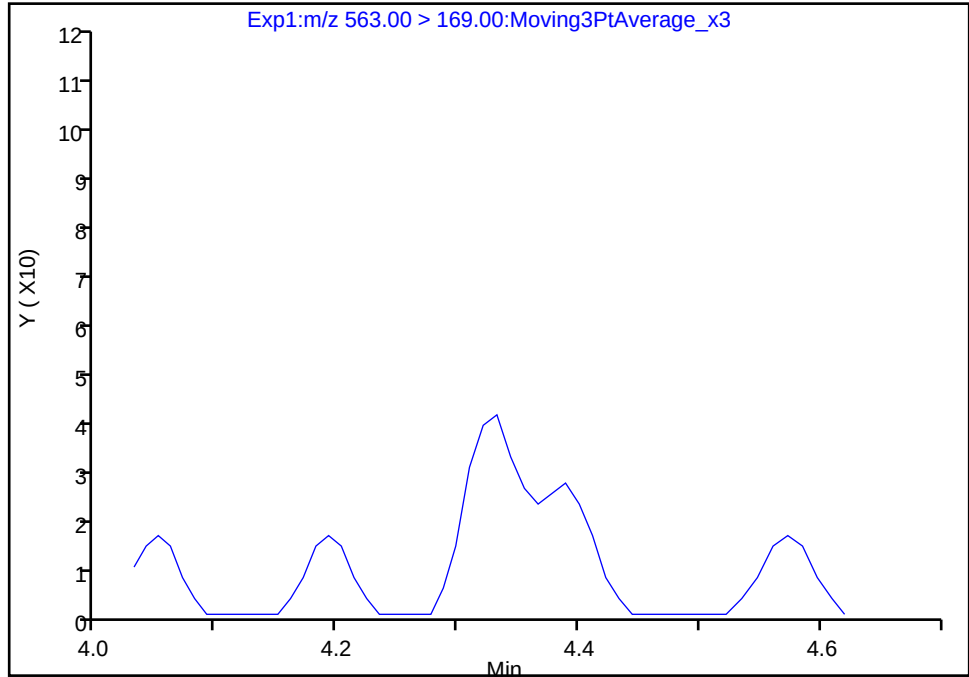
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

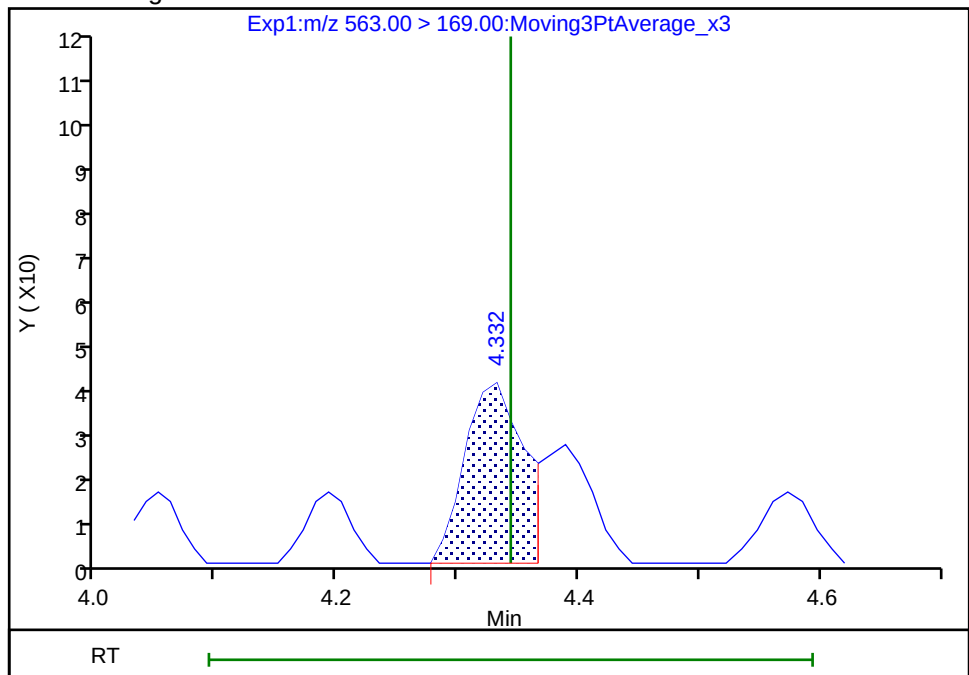
Signal: 2

Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results



RT: 4.33
Area: 125
Amount: 0.003449
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:04:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 496 of 897

Eurofins TestAmerica, Burlington

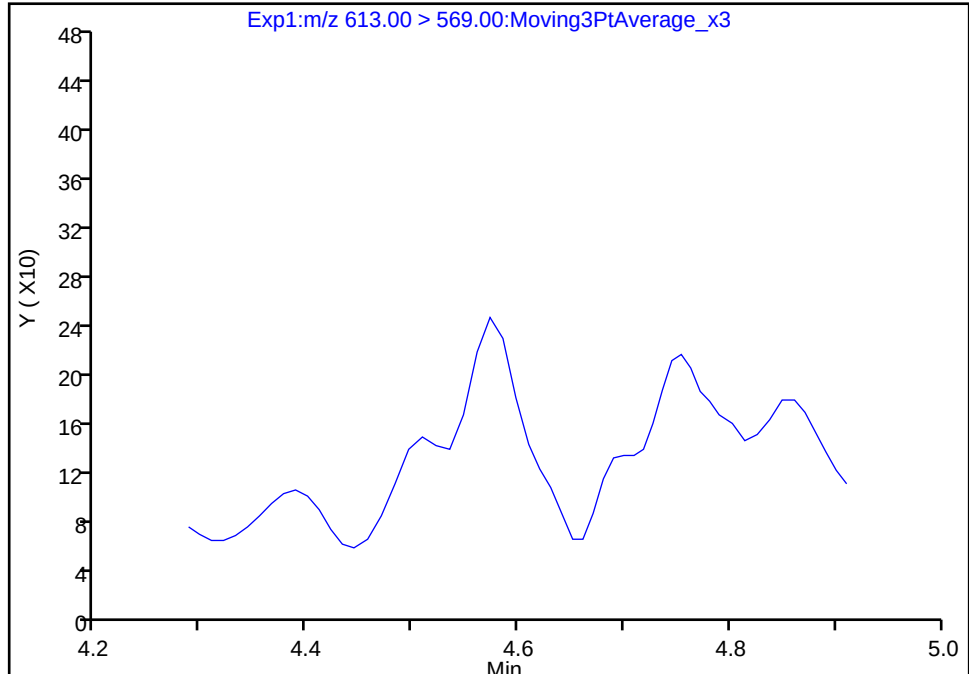
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

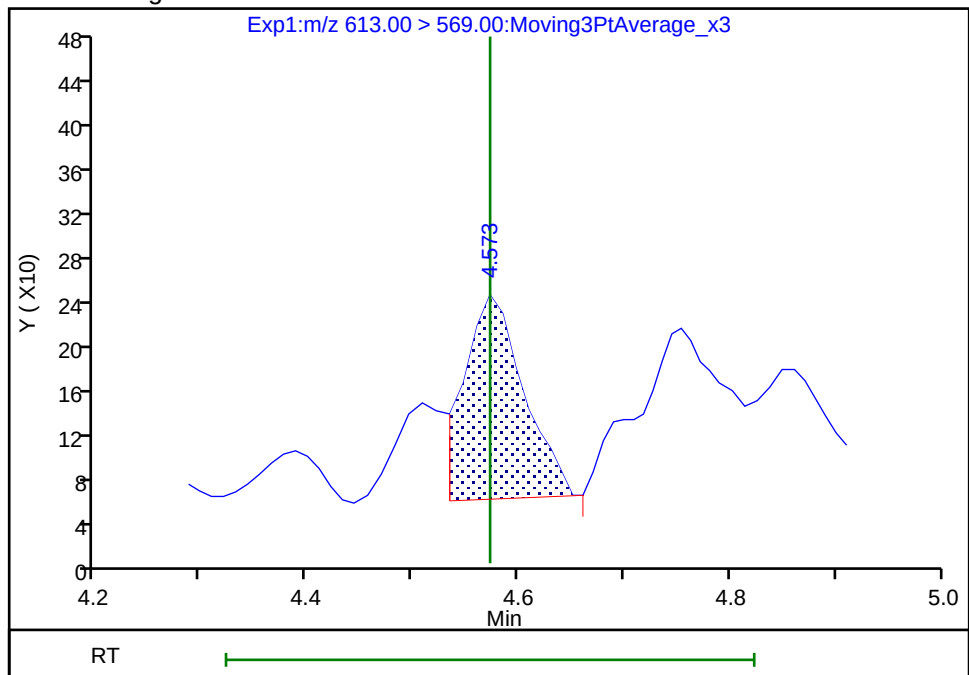
Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57
Area: 703
Amount: 0.002192
Amount Units: ng/ml



Reviewer: chirgwinb, 25-Sep-2020 10:44:35

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

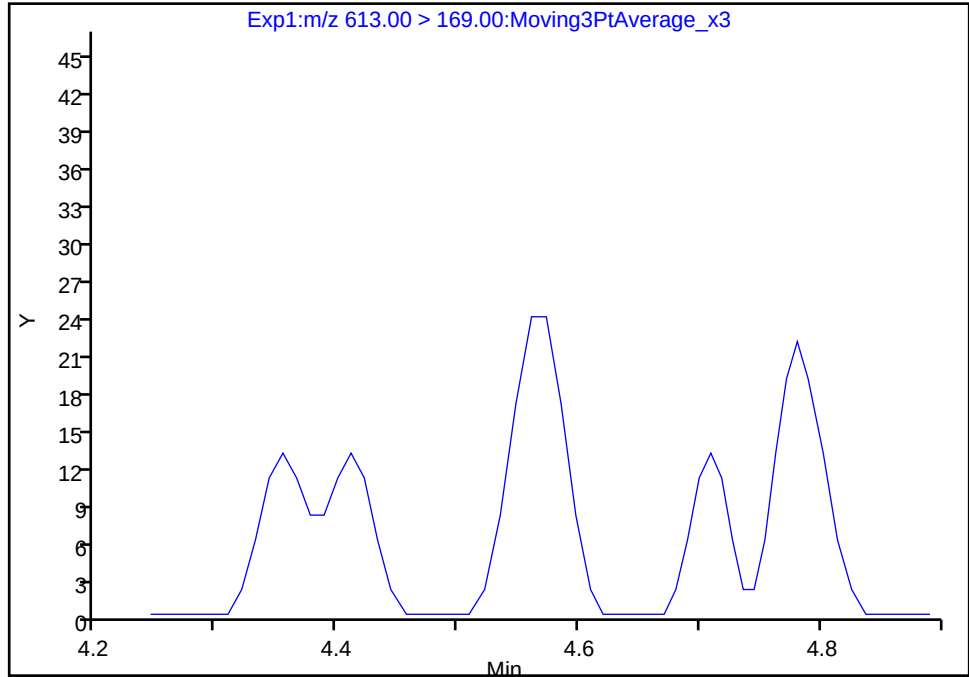
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

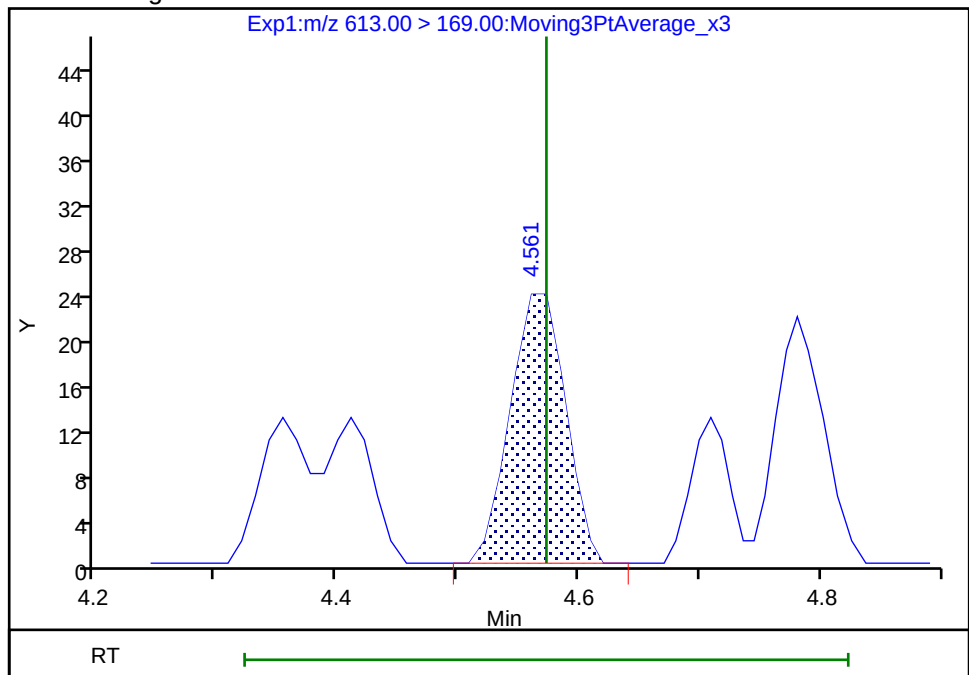
Not Detected
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.56
Area: 76
Amount: 0.002192
Amount Units: ng/ml



Reviewer: chirgwinb, 25-Sep-2020 10:44:40

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

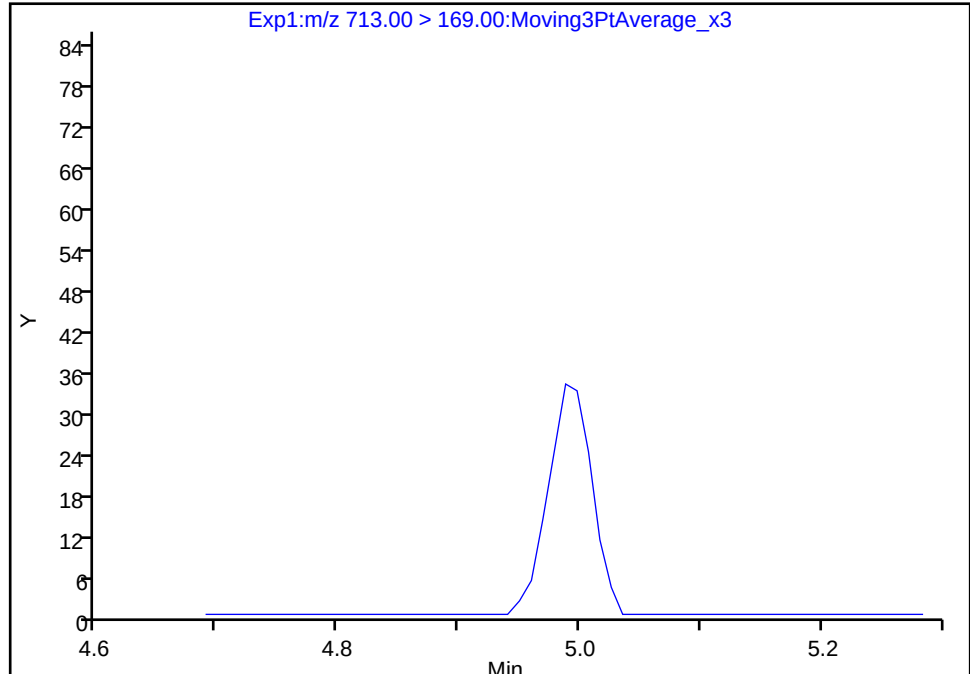
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

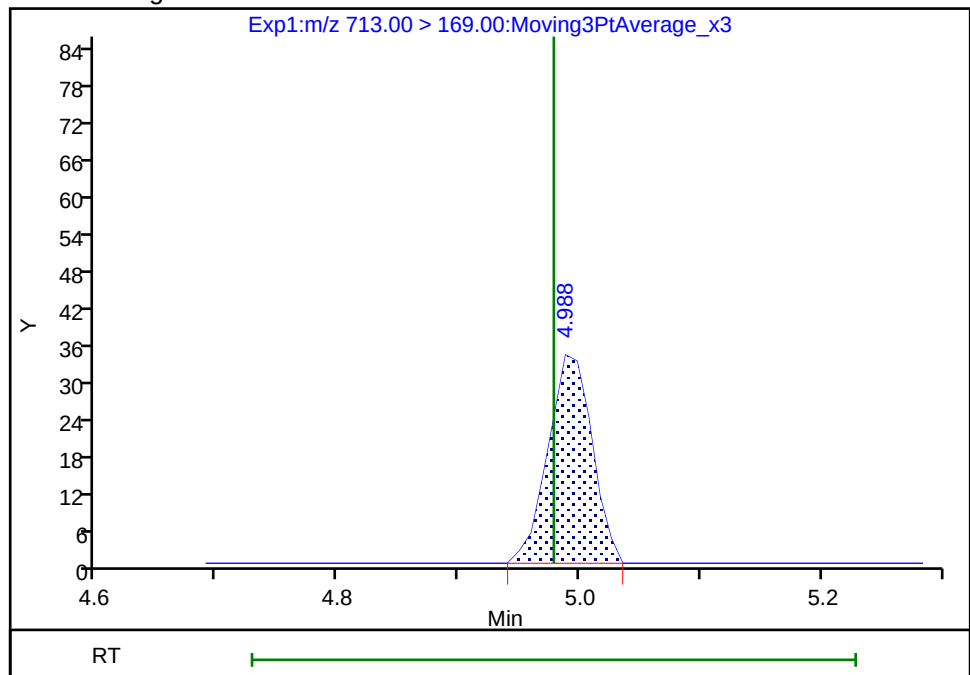
Not Detected
Expected RT: 4.98

Processing Integration Results



RT: 4.99
Area: 85
Amount: 0.001902
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:04:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

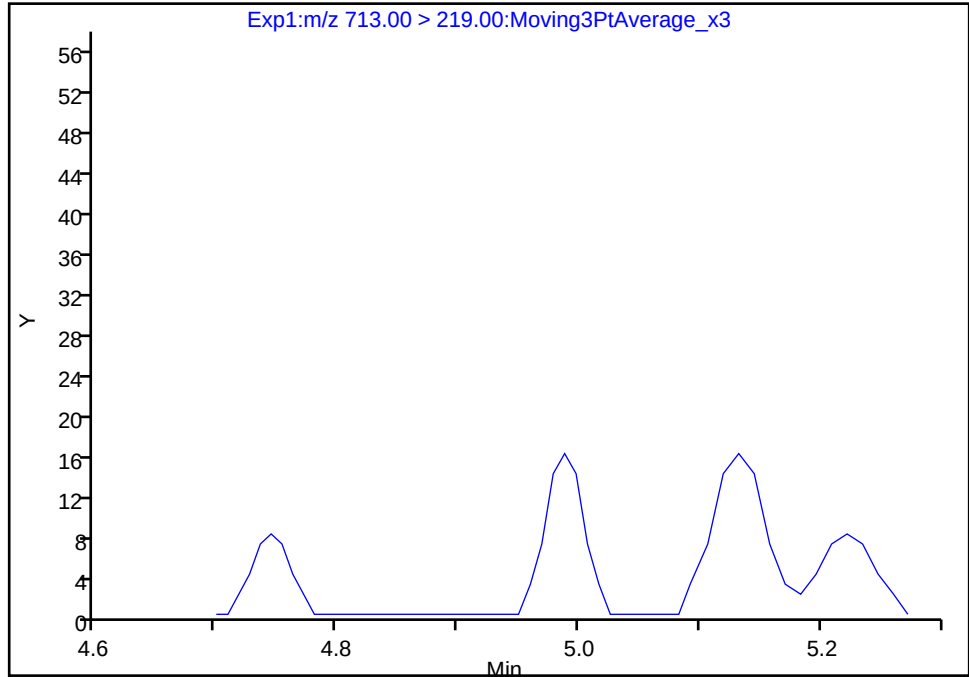
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

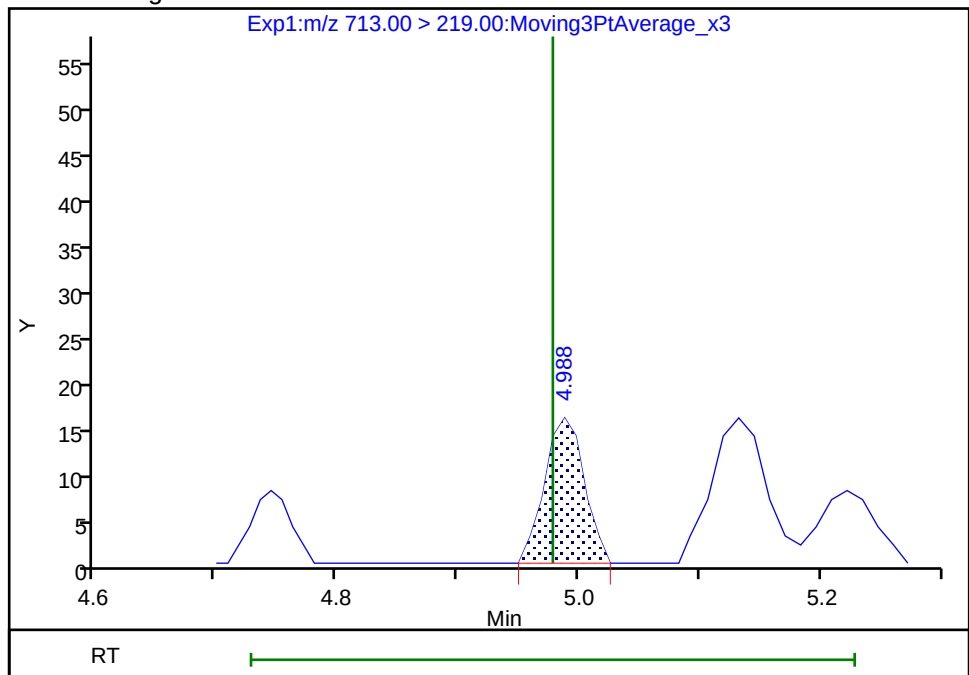
Not Detected
Expected RT: 4.98

Processing Integration Results



Manual Integration Results

RT: 4.99
Area: 36
Amount: 0.001902
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 09:04:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 500 of 897

Eurofins TestAmerica, Burlington

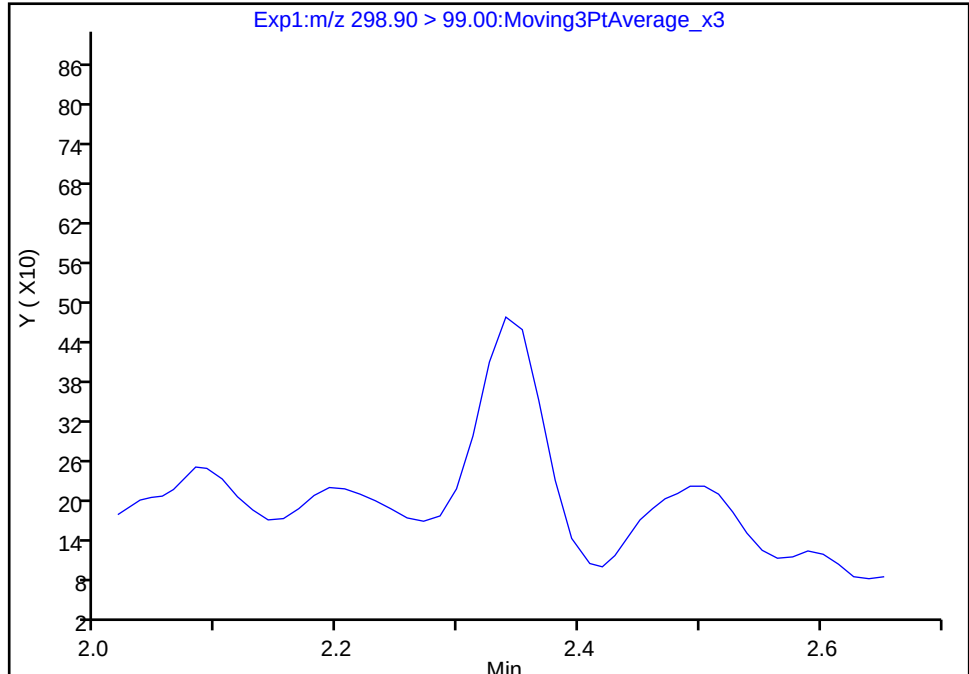
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

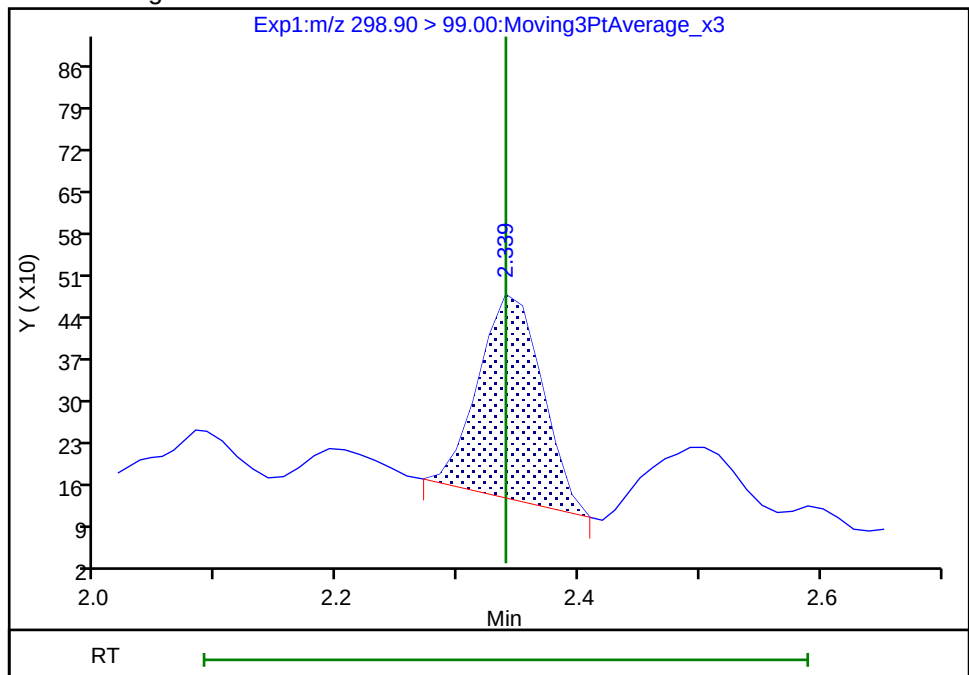
Signal: 2

Not Detected
Expected RT: 2.34

Processing Integration Results



Manual Integration Results



RT: 2.34
Area: 1252
Amount: 0.003600
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:02:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

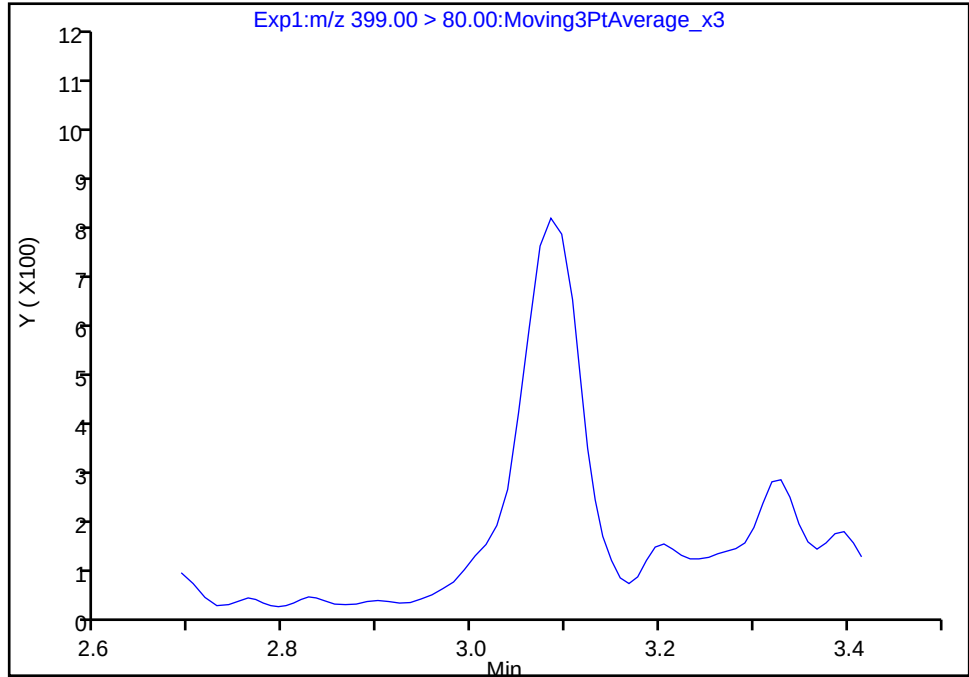
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

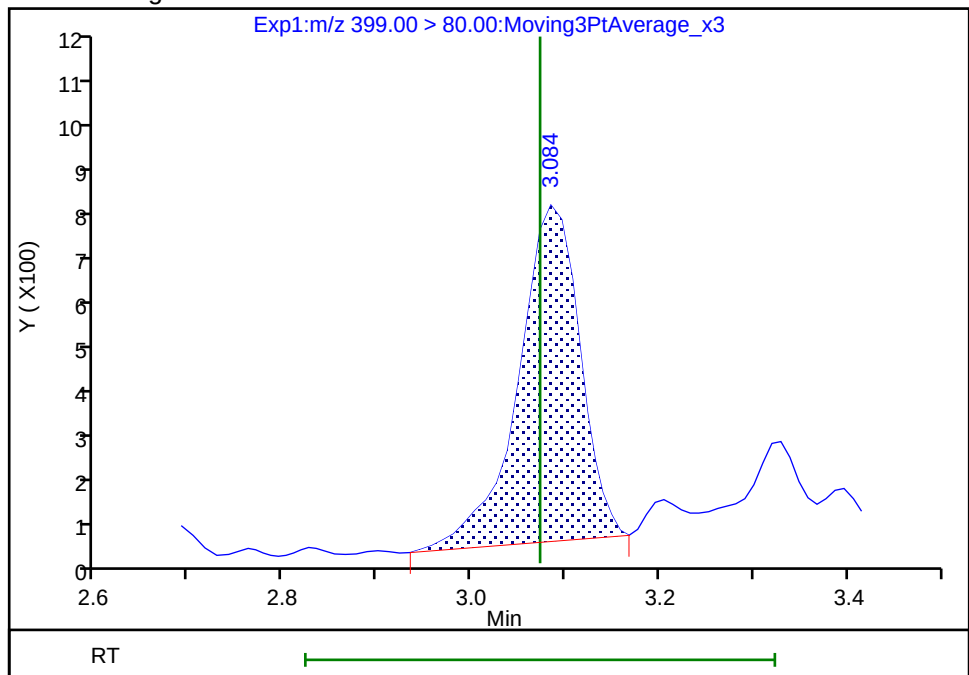
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08
Area: 3311
Amount: 0.005776
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 09:02:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

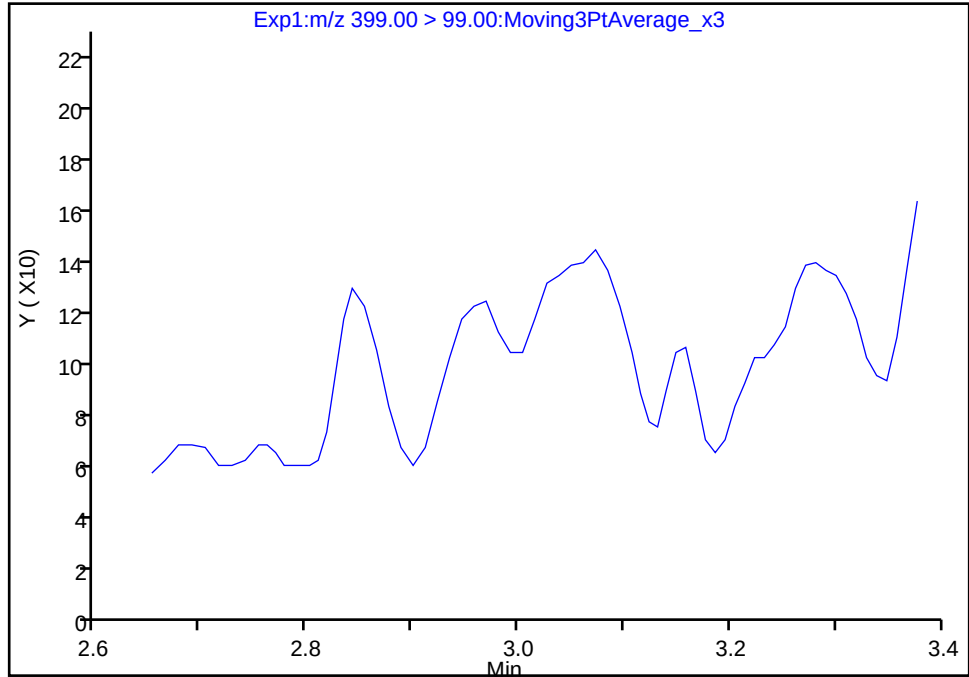
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

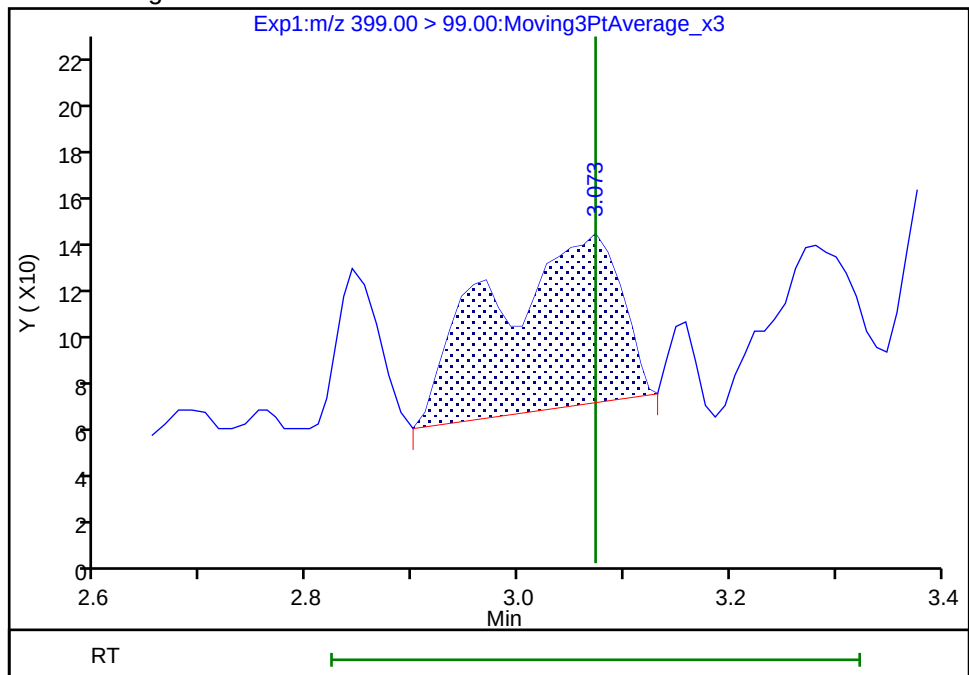
Not Detected
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.07
Area: 622
Amount: 0.005776
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 09:02:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

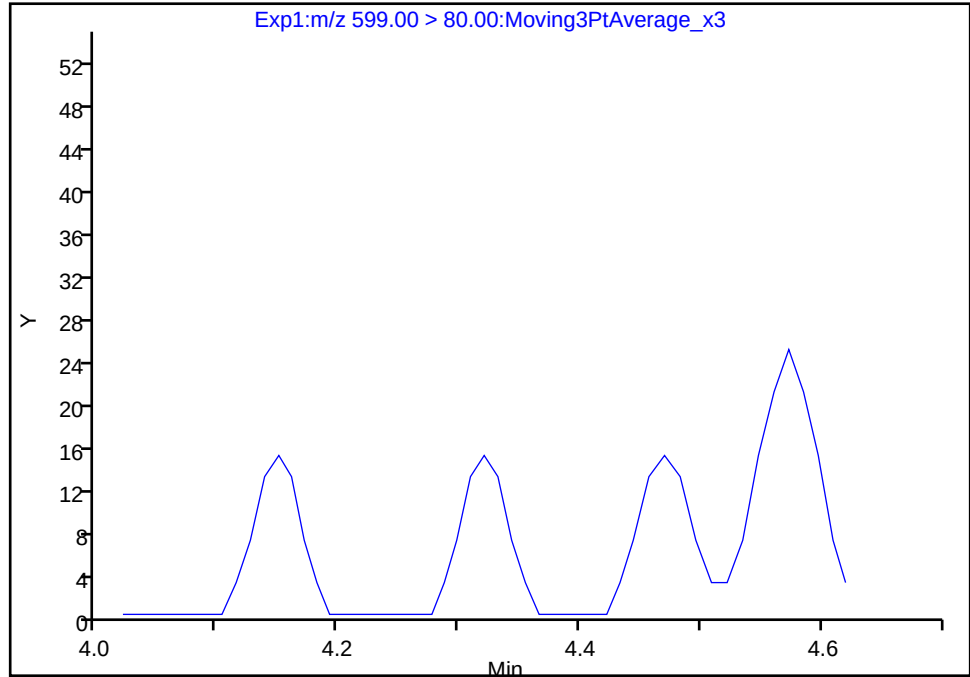
Data File:	\\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d				
Injection Date:	24-Sep-2020 18:09:51	Instrument ID:	LC812		
Lims ID:	480-175175-A-7-A	Lab Sample ID:	200-175175-7		
Client ID:	CC-EQUIPMENT BLANK				
Operator ID:	lc812tech	ALS Bottle#:	15	Worklist Smp#:	15
Injection Vol:	20.0 ul	Dil. Factor:	1.0000		
Method:	PFC_LC812	Limit Group:	LC_PFC_ICAL		
Column:	C-18 (4.60 mm)	Detector	EXP1		

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

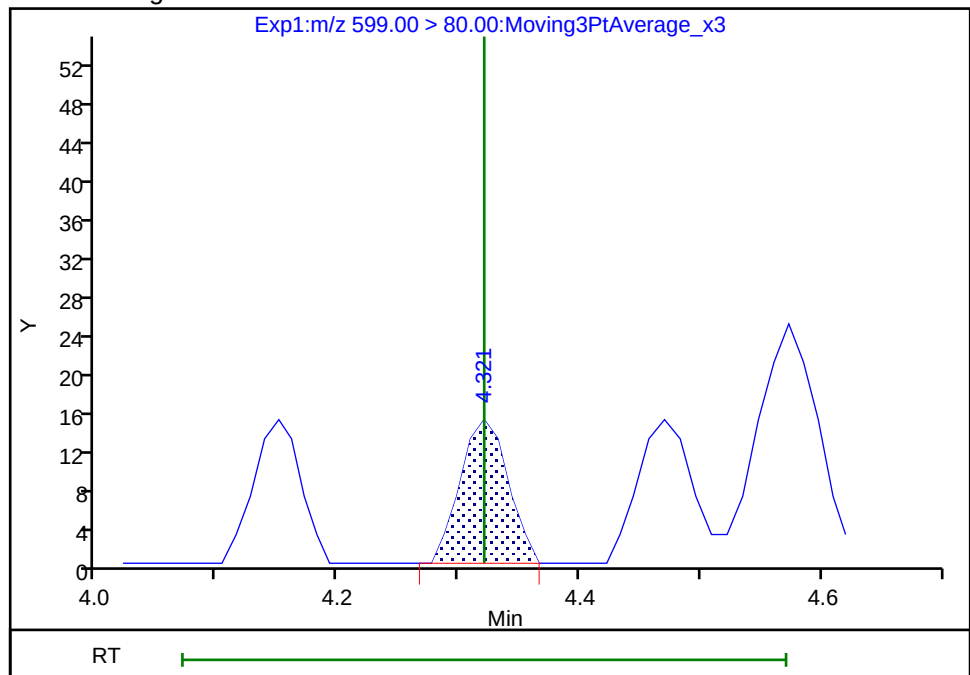
Signal: 1

Not Detected
Expected RT: 4.32

Processing Integration Results

RT: 4.32
Area: 41
Amount: 0.000140
Amount Units: ng/ml

Manual Integration Results

Reviewer: chirgwinb, 25-Sep-2020 10:44:05
Audit Action: Manually IntegratedAudit Reason: Missed Peak
Page 504 of 897

Eurofins TestAmerica, Burlington

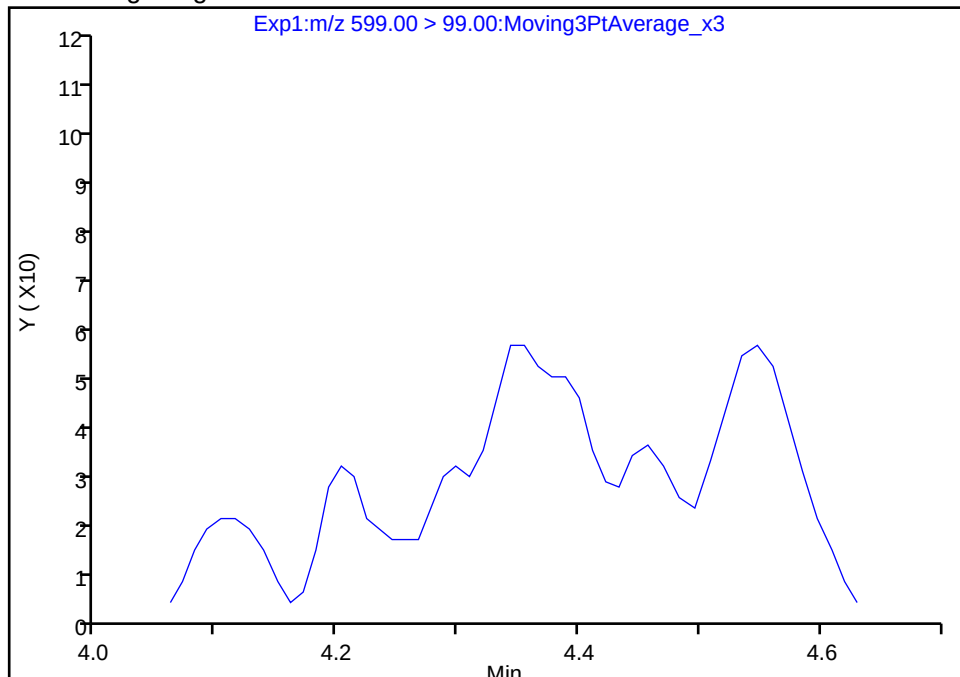
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

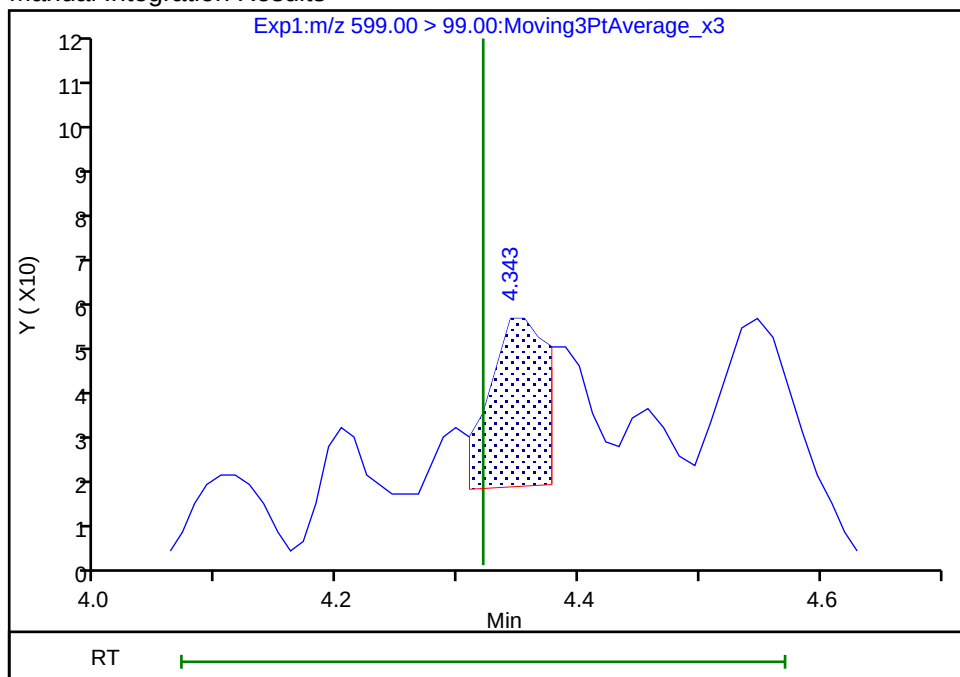
Not Detected
Expected RT: 4.32

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 111
Amount: 0.000140
Amount Units: ng/ml



Reviewer: chirgwinb, 25-Sep-2020 10:44:18

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

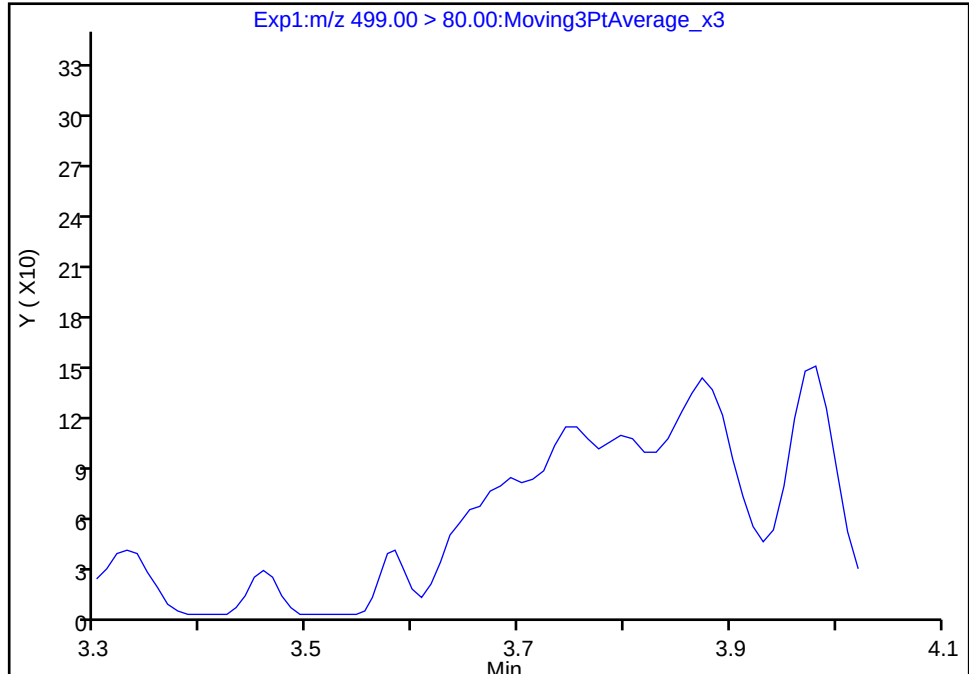
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

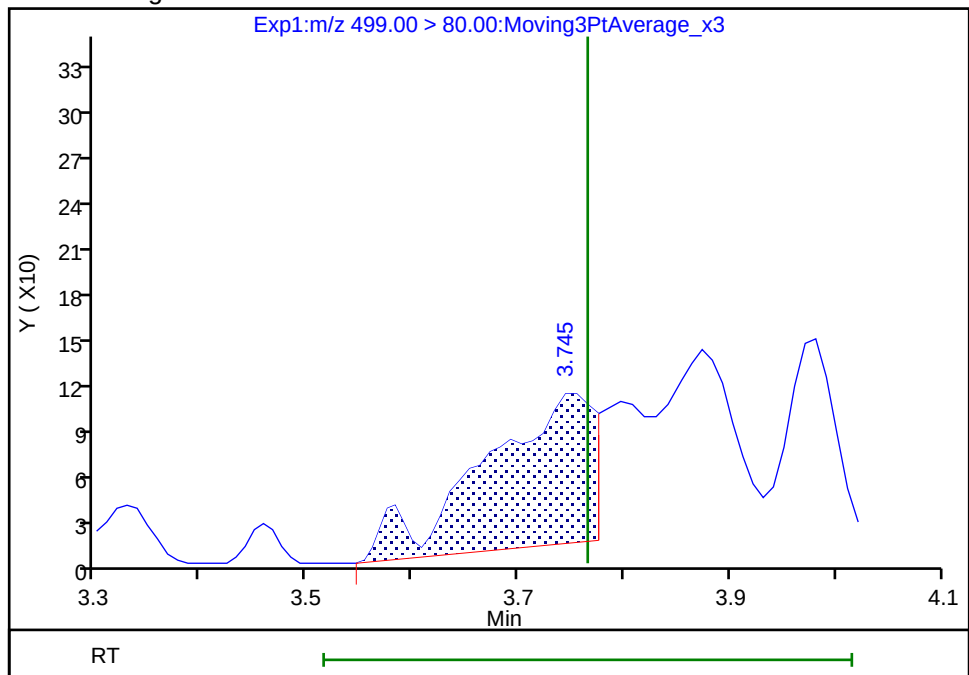
Signal: 1

Not Detected
Expected RT: 3.77

Processing Integration Results



Manual Integration Results



RT: 3.74
Area: 710
Amount: 0.001598
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:03:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

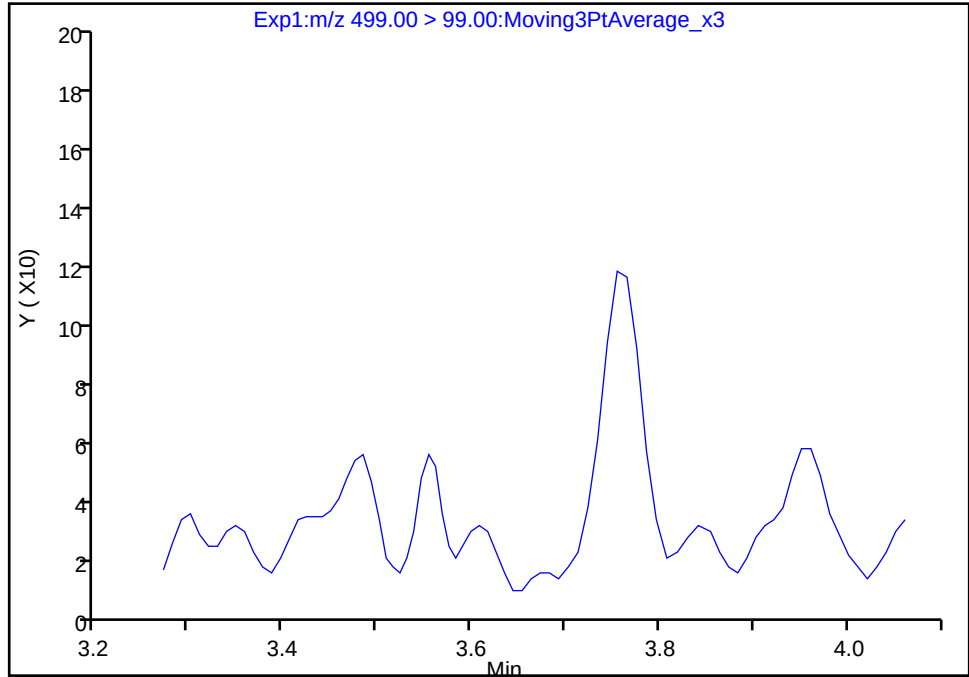
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

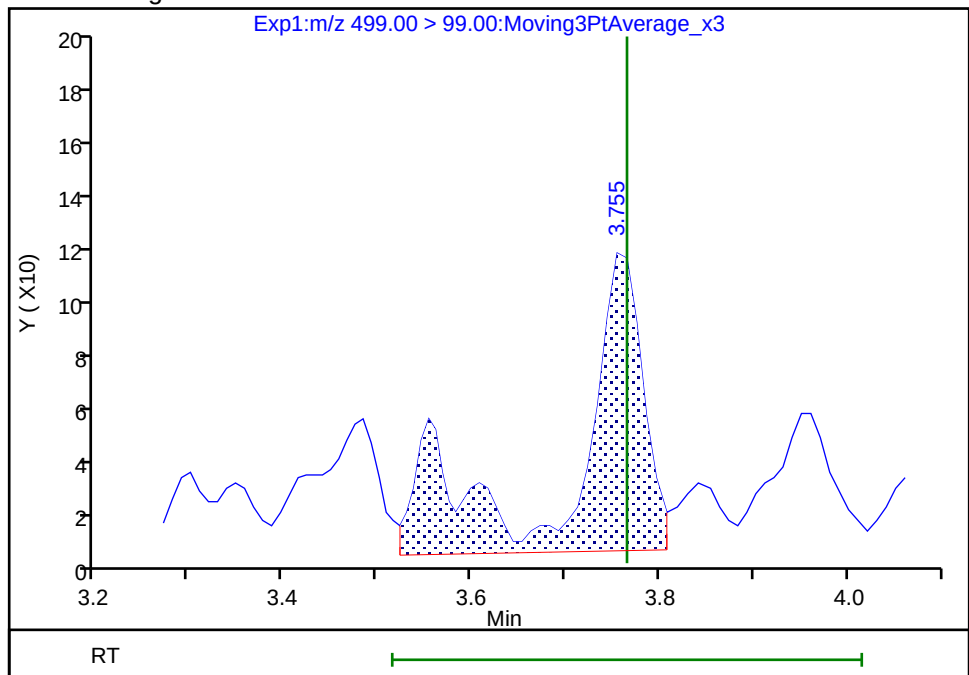
Not Detected
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.75
Area: 574
Amount: 0.001598
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 09:03:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 507 of 897

Eurofins TestAmerica, Burlington

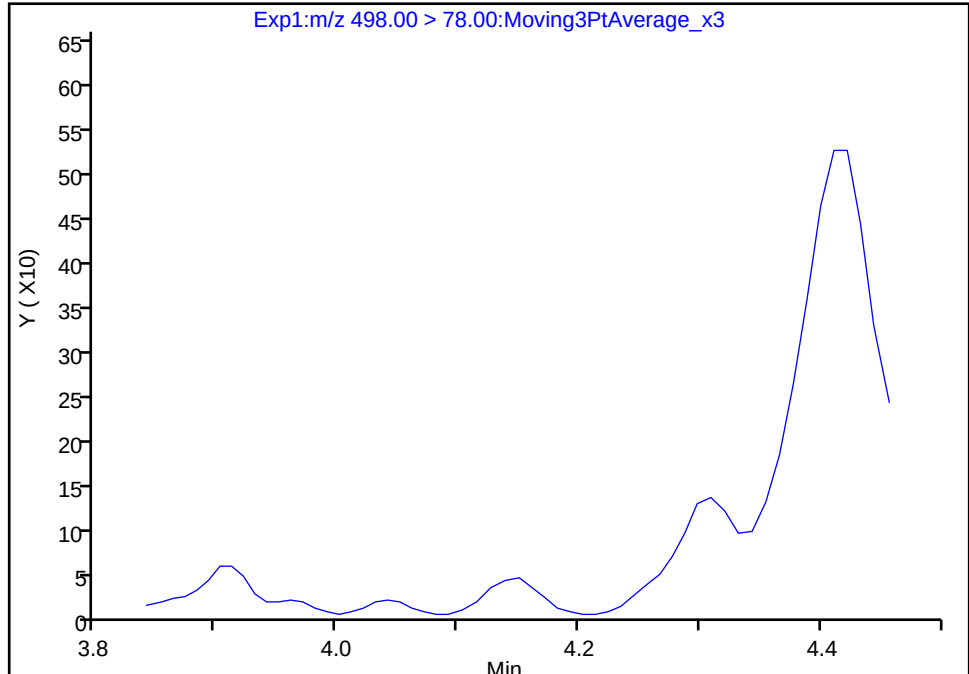
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

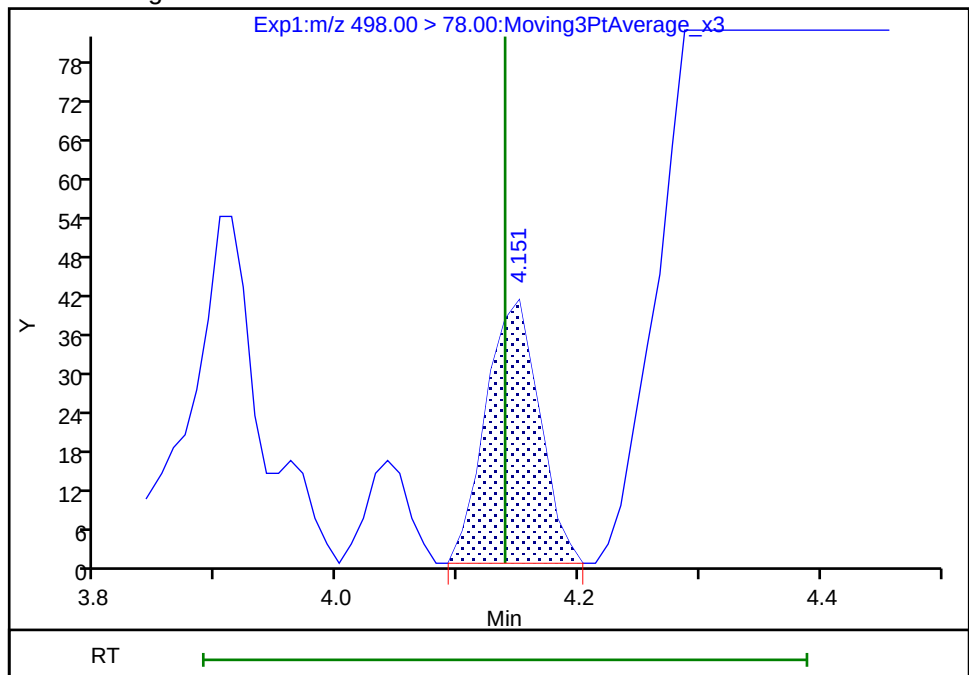
Not Detected
Expected RT: 4.14

Processing Integration Results



RT: 4.15
Area: 126
Amount: 0.000238
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:04:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

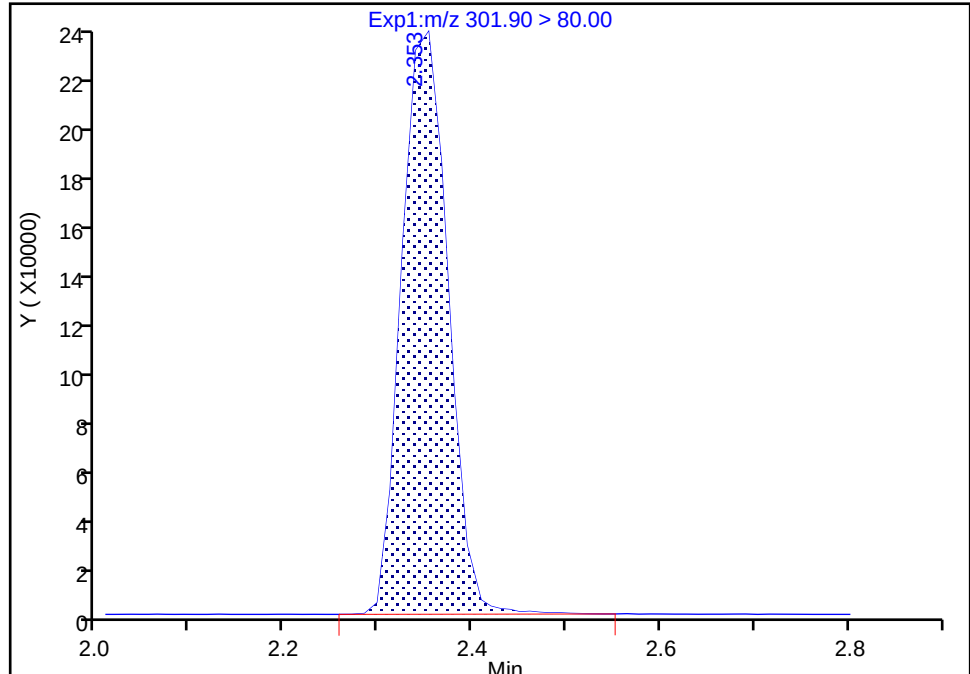
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

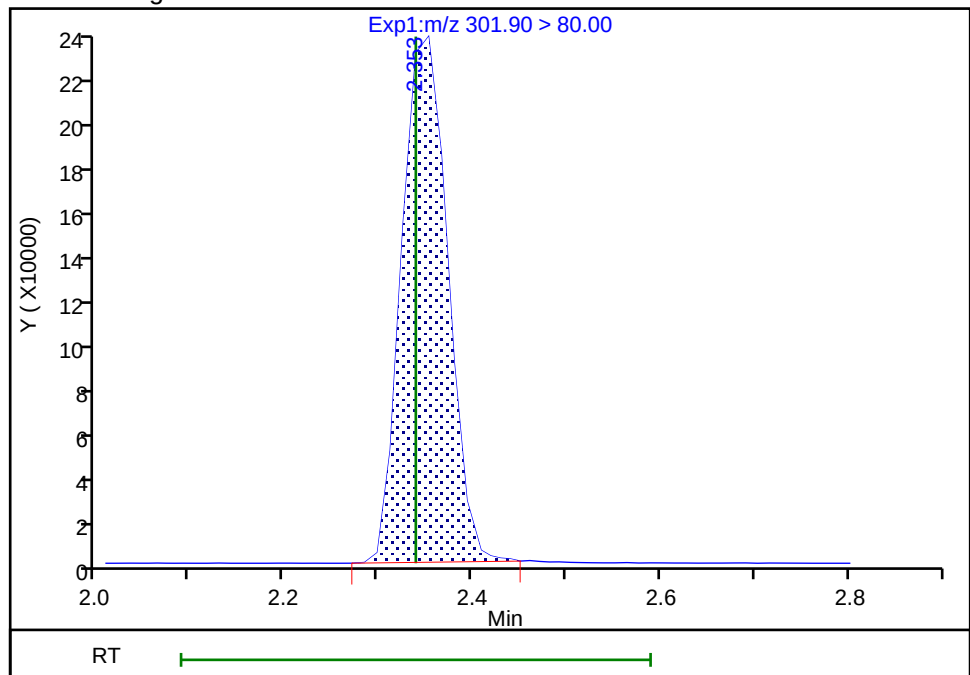
RT: 2.35
Area: 801804
Amount: 1.152177
Amount Units: ng/ml

Processing Integration Results



RT: 2.35
Area: 794903
Amount: 1.142260
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:01:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

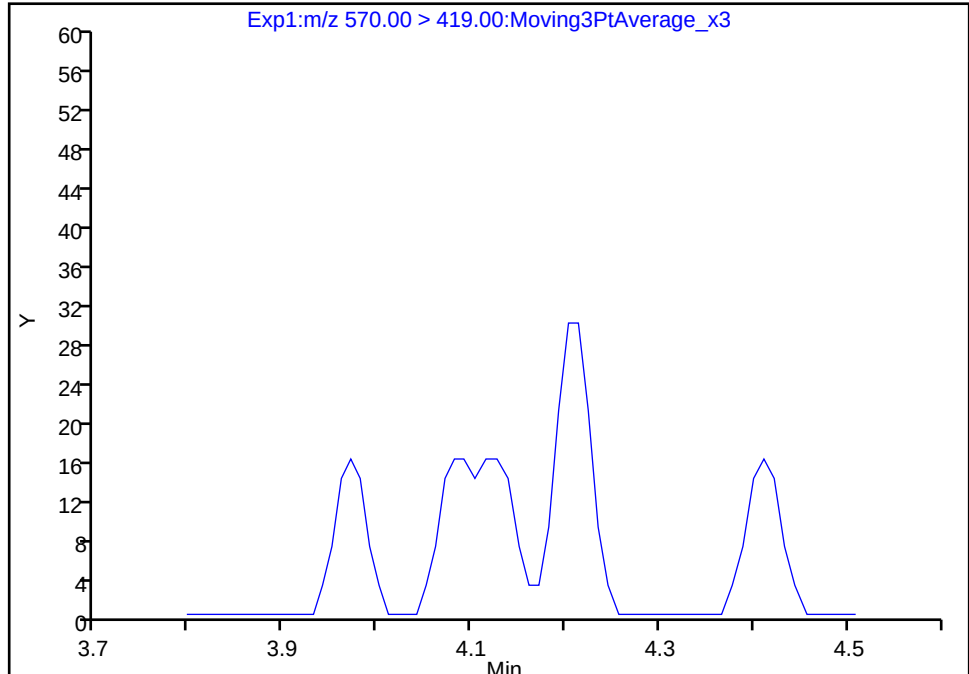
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

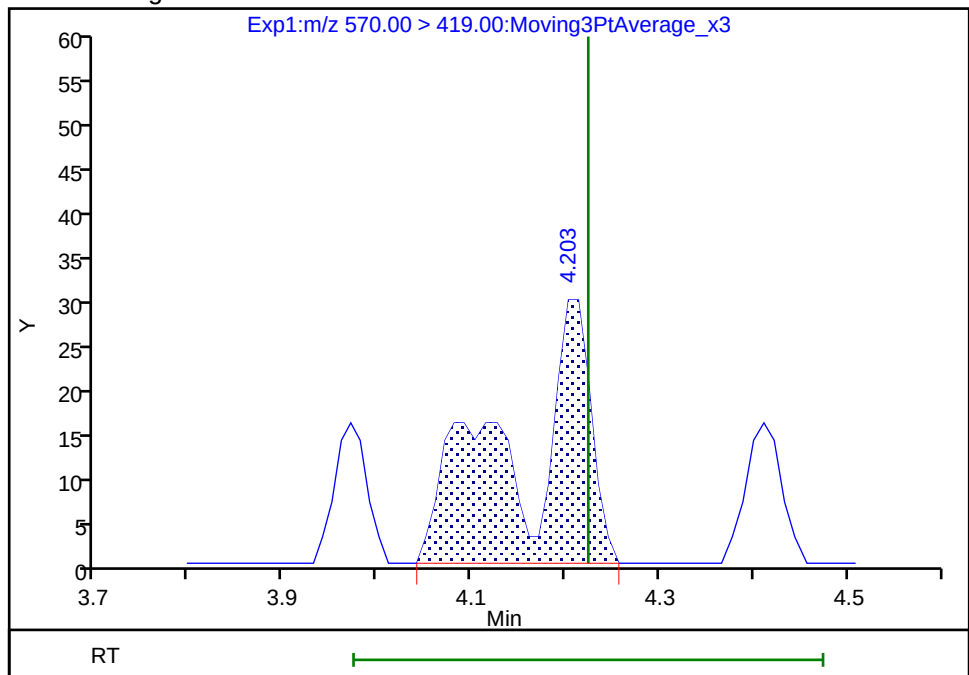
Signal: 1

Not Detected
Expected RT: 4.22

Processing Integration Results



Manual Integration Results



RT: 4.20
Area: 163
Amount: 0.008441
Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 09:04:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

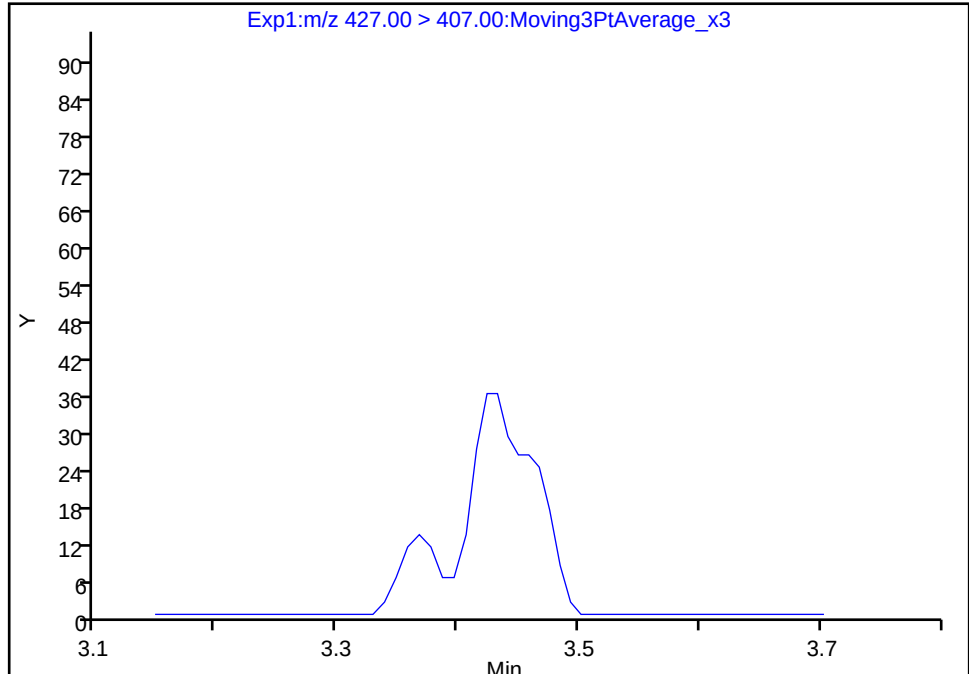
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B15.d
Injection Date: 24-Sep-2020 18:09:51 Instrument ID: LC812
Lims ID: 480-175175-A-7-A Lab Sample ID: 200-175175-7
Client ID: CC-EQUIPMENT BLANK
Operator ID: lc812tech ALS Bottle#: 15 Worklist Smp#: 15
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

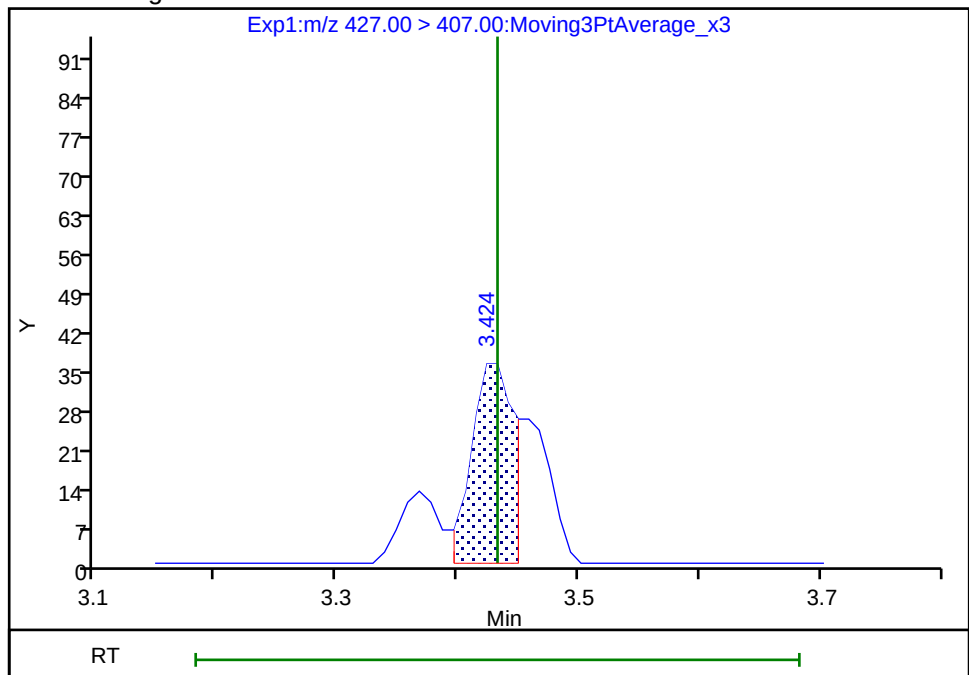
Not Detected
Expected RT: 3.43

Processing Integration Results



RT: 3.42
Area: 82
Amount: 0.001465
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:03:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1 Analy Batch No.: 159115

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2020 19:30 Calibration End Date: 09/22/2020 20:11 Calibration ID: 44168

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-159115/5	PA200922ICAL05.d
Level 2	IC 200-159115/6	PA200922ICAL06.d
Level 3	IC 200-159115/7	PA200922ICAL07.d
Level 4	ICIS 200-159115/8	PA200922ICAL08.d
Level 5	IC 200-159115/9	PA200922ICAL09.d
Level 6	IC 200-159115/10	PA200922ICAL10.d

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
Perfluorobutanoic acid (PFBA)	1.2083 0.8035	0.9978	0.8634	0.8614	0.8741	AveID		0.9347				15.9		35.0			
Perfluoropentanoic acid (PFPeA)	1.2995 0.9733	1.1375	0.9850	0.9625	0.9787	AveID		1.0561				12.9		35.0			
Perfluorobutanesulfonic acid (PFBS)	1.0838 0.9012	1.0127	1.0295	0.9965	0.9549	AveID		0.9964				6.3		35.0			
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	1.8089 1.5890	1.5881	1.6169	1.4887	1.6051	AveID		1.6161				6.5		50.0			
Perfluorohexanoic acid (PFHxA)	1.1216 0.9380	1.0657	0.9202	1.0209	0.9753	AveID		1.0069				7.7		35.0			
Perfluoropentanesulfonic acid	1.3290 1.1183	1.1236	1.2530	1.1146	1.1656	AveID		1.1840				7.5		50.0			
HFPO-DA	2.7225 2.0166	2.4495	2.0764	1.7772	1.7247	AveID		2.1278				18.3		35.0			
Perfluorohexanesulfonic acid (PFHxS)	1.3246 1.0154	1.1226	1.0942	0.9972	1.0724	AveID		1.1044				10.7		35.0			
Perfluoroheptanoic acid (PFHpA)	1.1437 0.8574	1.0435	0.9474	1.0076	1.0127	AveID		1.0021				9.6		35.0			
DONA	3.7938 2.7242	3.2737	3.0009	2.9578	2.7363	AveID		3.0811				13.1		50.0			
Perfluoroheptanesulfonic Acid (PFHpS)	1.3225 1.0784	1.2015	1.1080	1.1425	1.0985	AveID		1.1586				7.9		50.0			
6:2 FTS	0.8641 0.7494	0.9393	0.7624	0.7368	0.7365	AveID		0.7981				10.6		35.0			
Perfluorooctanoic acid (PFOA)	1.1756 0.9411	1.1035	0.9678	1.0175	0.9890	AveID		1.0324				8.7		35.0			
Perfluorooctanesulfonic acid (PFOS)	1.3525 0.9728	1.0907	1.0121	1.0742	1.0179	AveID		1.0867				12.6		35.0			
Perfluorononanoic acid (PFNA)	1.1609 0.9603	1.1017	0.9162	0.9298	1.0412	AveID		1.0183				9.8		35.0			

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

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1 Analy Batch No.: 159115

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2020 19:30 Calibration End Date: 09/22/2020 20:11 Calibration ID: 44168

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	1.1121 0.8489	1.0180	0.9534	0.9255	0.8803	AveID		0.9564				10.1		50.0			
Perfluorononanesulfonic acid	1.0337 0.7988	0.8912	0.8101	0.8301	0.7889	AveID		0.8588				10.8		50.0			
Perfluorodecanoic acid (PFDA)	1.2065 0.9631	1.0288	0.9137	0.9537	0.8705	AveID		0.9894				12.0		35.0			
8:2 FTS	0.4624 0.3778	0.3502	0.4096	0.3888	0.3863	AveID		0.3958				9.6		35.0			
Perfluorooctanesulfonamide (FOSA)	1.0206 0.8312	1.0384	0.8915	0.9408	0.8866	AveID		0.9348				8.7		35.0			
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	0.9747 0.9064	1.1460	0.8412	0.8874	0.9066	AveID		0.9437				11.4		35.0			
Perfluorodecanesulfonic acid (PFDS)	0.8407 0.6152	0.7849	0.6999	0.7282	0.6425	AveID		0.7186				11.8		50.0			
Perfluoroundecanoic acid (PFUnA)	1.1117 0.9053	0.9606	0.9534	1.0207	0.9662	AveID		0.9863				7.3		35.0			
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	1.0617 0.8184	1.1522	0.7389	0.9026	0.8192	AveID		0.9155				17.4		35.0			
11-Chloroeicosafuoro-3-oxaundecane-1-sulfonic acid	0.9803 0.7478	0.8664	0.8074	0.8198	0.7280	AveID		0.8250				11.0		50.0			
Perfluorododecanoic acid (PFDoA)	1.1540 0.8629	0.9695	0.9667	0.9850	0.9132	AveID		0.9752				10.1		35.0			
10:2 FTS	0.2054 0.2123	0.2115	0.2277	0.2390	0.2237	AveID		0.2199				5.7		50.0			
Perfluorododecanesulfonic acid (PFDoS)	0.3158 0.2093	0.2283	0.2065	0.2164	0.2071	AveID		0.2306				18.5		50.0			
Perfluorotridecanoic acid (PFTriA)	0.9081 0.7085	0.9448	0.8643	0.7874	0.7560	AveID		0.8282				11.1		50.0			
Perfluorotetradecanoic acid (PFTeA)	0.2689 0.2123	0.2520	0.2146	0.2077	0.2188	AveID		0.2290				11.0		35.0			
Perfluoro-n-hexadecanoic acid (PFHxDA)	1.2824 0.8285	1.0543	0.9277	0.9025	0.9001	L2ID	0.0204	0.8689							0.9990		0.9900
Perfluoro-n-octadecanoic acid (PFODA)	0.8164 0.6447	0.8541	0.7595	0.7232	0.6861	AveID		0.7473				10.6		50.0			
13C4 PFBA	1.5248 1.3700	1.4630	1.3682	1.4402	1.4316	Ave		1.4330				4.1		30.0			
13C5 PFPeA	1.0994 0.9256	1.0628	1.0120	1.0519	1.0106	Ave		1.0270				5.8		30.0			
13C3 PFBS	1.3231 1.2412	1.2620	1.1630	1.2619	1.2531	Ave		1.2507				4.1		30.0			

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

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
CURVE EVALUATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1 Analy Batch No.: 159115

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2020 19:30 Calibration End Date: 09/22/2020 20:11 Calibration ID: 44168

ANALYTE	RRF					CURVE TYPE	COEFFICIENT			#	MIN RRF	%RSD	#	MAX %RSD	R^2 OR COD	#	MIN R^2 OR COD
	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
M2-4:2 FTS	0.1063 0.0845	0.0936	0.0882	0.0952	0.0958	Ave		0.0939				8.0		30.0			
13C2 PFHxA	1.0863 0.9857	1.1075	1.0207	1.0819	1.0636	Ave		1.0576				4.3		30.0			
13C3 HFPO-DA	0.1052 0.0884	0.0884	0.0864	0.1126	0.1104	Ave		0.0985				12.3		30.0			
18O2 PFHxS	0.9509 0.8790	0.9231	0.7905	0.9473	0.8933	Ave		0.8974				6.6		30.0			
13C4 PFHpA	1.0568 0.9309	0.9894	0.9437	0.9360	0.9152	Ave		0.9620				5.5		30.0			
M2-6:2 FTS	0.1332 0.1085	0.1191	0.1122	0.1240	0.1227	Ave		0.1199				7.4		30.0			
13C4 PFOA	1.0514 0.9053	1.0188	0.9465	0.9962	0.9885	Ave		0.9845				5.3		30.0			
13C4 PFOS	0.7868 0.6970	0.7311	0.6909	0.7273	0.7712	Ave		0.7341				5.3		30.0			
13C5 PFNA	0.8750 0.7521	0.8635	0.8157	0.8644	0.8071	Ave		0.8296				5.7		30.0			
13C2 PFDA	0.8379 0.7097	0.8527	0.7437	0.8145	0.8149	Ave		0.7956				7.1		30.0			
M2-8:2 FTS	0.1609 0.1239	0.1534	0.1378	0.1347	0.1367	Ave		0.1413				9.5		30.0			
13C8 FOSA	1.3941 1.2571	1.2721	1.1994	1.2573	1.3122	Ave		1.2820				5.1		30.0			
d3-NMeFOSAA	0.0473 0.0426	0.0463	0.0459	0.0440	0.0456	Ave		0.0453				3.7		30.0			
13C2 PFUnA	0.6591 0.5648	0.6448	0.5746	0.5917	0.5685	Ave		0.6006				6.8		30.0			
d5-NEtFOSAA	0.0568 0.0420	0.0506	0.0491	0.0467	0.0470	Ave		0.0487				10.1		30.0			
13C2 PFDoA	0.6890 0.5886	0.6274	0.6043	0.6566	0.6427	Ave		0.6348				5.7		30.0			
13C2 PFTeDA	0.4928 0.4174	0.4552	0.4187	0.4873	0.4414	Ave		0.4522				7.2		30.0			
13C2 PFHxDA	0.5684 0.4890	0.5051	0.4775	0.5083	0.5264	Ave		0.5124				6.3		30.0			

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

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1 Analy Batch No.: 159115

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2020 19:30 Calibration End Date: 09/22/2020 20:11 Calibration ID: 44168

Calibration Files:

LEVEL:	LAB SAMPLE ID:	LAB FILE ID:
Level 1	IC 200-159115/5	PA200922ICAL05.d
Level 2	IC 200-159115/6	PA200922ICAL06.d
Level 3	IC 200-159115/7	PA200922ICAL07.d
Level 4	ICIS 200-159115/8	PA200922ICAL08.d
Level 5	IC 200-159115/9	PA200922ICAL09.d
Level 6	IC 200-159115/10	PA200922ICAL10.d

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorobutanoic acid (PFBA)		AveID	49507 7000037	82833	365041	699180	1812801	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanoic acid (PFPeA)		AveID	38390 5728704	68603	308001	570602	1432994	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorobutanesulfonic acid (PFBS)		AveID	34062 6287596	64112	327034	626454	1532425	0.0442 8.84	0.0884	0.442	0.884	2.21
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)		AveID	4825 797633	7881	41137	74642	208163	0.0467 9.34	0.0934	0.467	0.934	2.34
Perfluorohexanoic acid (PFHxA)		AveID	32740 5879765	66975	290233	622517	1502717	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoropentanesulfonic acid		AveID	31854 5863855	55204	287082	558214	1414996	0.0469 9.38	0.0938	0.469	0.938	2.35
HFPO-DA		AveID	7693 1133832	12283	55438	112753	275773	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorohexanesulfonic acid (PFHxS)		AveID	30800 5165337	53509	243221	484522	1262935	0.0455 9.10	0.0910	0.455	0.910	2.28
Perfluoroheptanoic acid (PFHpA)		AveID	32477 5075336	58588	276267	531540	1342731	0.0500 10.0	0.100	0.500	1.00	2.50
DONA		AveID	75560 11374670	127932	603498	1142080	2879997	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluoroheptanesulfonic Acid (PFHpS)		AveID	26620 4550478	47450	225184	445834	1168488	0.0476 9.52	0.0952	0.476	0.952	2.38
6:2 FTS		AveID	2932 490337	6017	25048	48798	124081	0.0474 9.48	0.0948	0.474	0.948	2.37
Perfluorooctanoic acid (PFOA)		AveID	33216 5418021	63800	283046	571265	1416297	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorooctanesulfonic acid (PFOS)		AveID	26536 4001517	41988	200516	408627	1055393	0.0464 9.28	0.0928	0.464	0.928	2.32
Perfluorononanoic acid (PFNA)		AveID	27295 4592773	53981	230931	452952	1217403	0.0500 10.0	0.100	0.500	1.00	2.50
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid		AveID	21915 3507025	39360	189704	353549	916716	0.0466 9.32	0.0932	0.466	0.932	2.33

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1 Analy Batch No.: 159115

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2020 19:30 Calibration End Date: 09/22/2020 20:11 Calibration ID: 44168

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
Perfluorononanesulfonic acid		AveID	20981 3398939	35491	166030	326652	846240	0.0480 9.60	0.0960	0.480	0.960	2.40
Perfluorodecanoic acid (PFDA)		AveID	27164 4346718	49783	209970	437800	1027763	0.0500 10.0	0.100	0.500	1.00	2.50
8:2 FTS		AveID	1915 285233	2921	16715	28279	73312	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (FOSA)		AveID	38232 6644752	74962	330389	666683	1685296	0.0500 10.0	0.100	0.500	1.00	2.50
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		AveID	1238 245746	3014	11937	22030	59827	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorodecanesulfonic acid (PFDS)		AveID	17135 2628599	31388	144034	287760	692018	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluoroundecanoic acid (PFUnA)		AveID	19690 3251975	35149	169269	340391	795804	0.0500 10.0	0.100	0.500	1.00	2.50
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		AveID	1619 218696	3309	11209	23746	55787	0.0500 10.0	0.100	0.500	1.00	2.50
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid		AveID	19524 3122376	33859	162373	316530	766255	0.0471 9.42	0.0942	0.471	0.942	2.36
Perfluorododecanoic acid (PFDoA)		AveID	21364 3229716	34516	180494	364468	850316	0.0500 10.0	0.100	0.500	1.00	2.50
10:2 FTS		AveID	856 161243	1775	9351	17497	42726	0.0482 9.64	0.0964	0.482	0.964	2.41
Perfluorododecanesulfonic acid (PFDoS)		AveID	6464 898184	9167	42682	85863	223973	0.0484 9.68	0.0968	0.484	0.968	2.42
Perfluorotridecanoic acid (PFTriA)		AveID	16813 2651985	33638	161376	291377	703958	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluorotetradecanoic acid (PFTeA)		AveID	3561 563548	6510	27765	57042	139913	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-hexadecanoic acid (PFHxDA)		L2ID	19587 2576342	30217	136875	258509	686432	0.0500 10.0	0.100	0.500	1.00	2.50
Perfluoro-n-octadecanoic acid (PFODA)		AveID	12470 2004833	24480	112069	207162	523242	0.0500 10.0	0.100	0.500	1.00	2.50
13C4 PFBA	13PF OA	Ave	1024350 1089016	1037724	1056932	1014598	1036961	1.25 1.25	1.25	1.25	1.25	1.25
13C5 PFPeA	13PF OA	Ave	738570 735752	753884	781757	741010	732056	1.25 1.25	1.25	1.25	1.25	1.25
13C3 PFBS	13PF OA	Ave	826626 917546	832503	835513	826748	844132	1.16 1.16	1.16	1.16	1.16	1.16
M2-4:2 FTS	13PF OA	Ave	66683 62748	62030	63606	62673	64846	1.17 1.17	1.17	1.17	1.17	1.17
13C2 PFHxA	13PF OA	Ave	729773 783524	785597	788477	762210	770416	1.25 1.25	1.25	1.25	1.25	1.25

FORM VI
LCMS BY ISOTOPIC DILUTION - INITIAL CALIBRATION DATA
RESPONSE AND CONCENTRATION

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1 Analy Batch No.: 159115

SDG No.: _____

Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm) Heated Purge: (Y/N) N

Calibration Start Date: 09/22/2020 19:30 Calibration End Date: 09/22/2020 20:11 Calibration ID: 44168

ANALYTE	IS REF	CURVE TYPE	RESPONSE					CONCENTRATION (NG/ML)				
			LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5	LVL 1 LVL 6	LVL 2	LVL 3	LVL 4	LVL 5
13C3 HFPO-DA	13PF OA	Ave	70643 70282	62681	66748	79305	79948	1.25 1.25	1.25	1.25	1.25	1.25
18O2 PFHxS	13PF OA	Ave	604303 661019	619406	577663	631349	612150	1.18 1.18	1.18	1.18	1.18	1.18
13C4 PFHpA	13PF OA	Ave	709918 739938	701789	729002	659408	662941	1.25 1.25	1.25	1.25	1.25	1.25
M2-6:2 FTS	13PF OA	Ave	85009 81966	80244	82305	82963	84414	1.19 1.19	1.19	1.19	1.19	1.19
13C4 PFOA	13PF OA	Ave	706333 719638	722671	731192	701817	716010	1.25 1.25	1.25	1.25	1.25	1.25
13C4 PFOS	13PF OA	Ave	505317 529677	495742	510243	489827	534075	1.20 1.20	1.20	1.20	1.20	1.20
13C5 PFNA	13PF OA	Ave	587790 597837	612495	630136	608945	584597	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDA	13PF OA	Ave	562880 564176	604855	574488	573806	590304	1.25 1.25	1.25	1.25	1.25	1.25
M2-8:2 FTS	13PF OA	Ave	103546 94366	104254	102015	90925	94893	1.20 1.20	1.20	1.20	1.20	1.20
13C8 FOSA	13PF OA	Ave	936537 999304	902363	926529	885746	950469	1.25 1.25	1.25	1.25	1.25	1.25
d3-NMeFOSAA	13PF OA	Ave	31753 33892	32875	35476	31030	32996	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFUnA	13PF OA	Ave	442772 449002	457385	443846	416873	411827	1.25 1.25	1.25	1.25	1.25	1.25
d5-NEtFOSAA	13PF OA	Ave	38124 33401	35898	37925	32884	34049	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFDoA	13PF OA	Ave	462842 467874	445040	466792	462535	465565	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFTeDA	13PF OA	Ave	331051 331810	322915	323465	343318	319736	1.25 1.25	1.25	1.25	1.25	1.25
13C2 PFHxDA	13PF OA	Ave	381852 388694	358275	368871	358063	381324	1.25 1.25	1.25	1.25	1.25	1.25

Curve Type Legend:

Ave = Average ISTD
AveID = Average isotope dilution
L2ID = Linear 1/conc^2 IsoDil

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 1
 Inject. Date: 22-Sep-2020 19:30:30 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0042904-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 23-Sep-2020 10:27:00 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1050

First Level Reviewer: chirgwinb

Date: 23-Sep-2020 10:26:59

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

D 1 13C4 PFBA

217.00 > 172.00 2.000 1.990 0.010 0.577 1024350 1.33 106 6859

2 Perfluorobutanoic acid

212.90 > 169.00 2.000 2.000 0.0 1.000 49507 0.0646 129 7.0 M

D 3 13C5 PFPeA

267.90 > 223.00 2.340 2.339 0.001 0.675 738570 1.34 107 3667

4 Perfluoropentanoic acid

262.90 > 219.00 2.340 2.339 0.001 1.000 38390 0.0615 123 2.2

D 47 13C3 PFBS

301.90 > 80.00 2.353 2.353 0.0 0.679 826626 1.23 106 245412

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.367 2.353 0.014 1.006 34062 0.0481 Target=1.99 109 112

298.90 > 99.00 2.367 2.353 0.014 1.006 18306 1.86(1.00-2.99) 109 26.9

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.678 2.678 0.0 1.000 4825 0.0523 112 124

D 60 M2-4:2 FTS

329.00 > 81.00 2.678 2.678 0.0 0.772 66683 1.32 113 174

D 7 13C2 PFHxA

315.00 > 270.00 2.716 2.716 0.0 0.783 729773 1.28 103 3182

6 Perfluorohexanoic acid

313.00 > 269.00 2.716 2.716 0.0 1.000 32740 0.0557 Target=11.58 111 12.7

313.00 > 119.00 2.716 2.716 0.0 1.000 3283 9.97(5.79-17.37) 111 8.5

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.716 2.716 0.0 0.877 31854 0.0526 Target=3.36 112 160

349.00 > 99.00 2.716 2.716 0.0 0.877 10345 3.08(1.68-5.05) 112 53.4

D 64 13C3 HFPO-DA

332.10 > 287.00 2.827 2.818 0.009 0.815 70643 1.33 107 922

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.827	2.826	0.001	1.000	7693	0.0640		128	2.0	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.096	3.084	0.012	0.893	604303	1.25		106	4623	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.096	3.096	0.0	1.000	30800	0.0546	Target=4.59	120	120	
399.00 > 99.00	3.096	3.096	0.0	1.000	6717		4.59(2.29-6.88)	120	17.5	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.096	3.096	0.0	1.000	32477	0.0571	Target=3.29	114	16.7	
363.00 > 169.00	3.096	3.096	0.0	1.000	10524		3.09(1.65-4.94)	114	52.3	
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.096	0.0	0.893	709918	1.37		110	3745	
77 DONA										
377.00 > 251.00	3.140	3.132	0.008	0.829	75560	0.0580	Target=2.40	123	289	
377.00 > 85.00	3.132	3.132	0.0	0.827	31570		2.39(1.20-3.60)	123	88.2	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.450	3.450	0.0	0.911	26620	0.0543	Target=6.94	114	424	
449.00 > 99.00	3.450	3.450	0.0	0.911	3978		6.69(3.47-10.41)	114	51.6	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.459	3.450	0.009	0.998	85009	1.32		111	715	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.467	3.450	0.017	1.003	2932	0.0513		108	92.0	
D 14 13C4 PFOA										
417.00 > 372.00	3.467	3.458	0.009	1.000	706333	1.34		107	6743	
* 62 13C2 PFOA										
415.00 > 370.00	3.467	3.458	0.009		671785	1.25			2130	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.467	3.458	0.009	1.000	33216	0.0569	Target=2.26	114	16.3	
413.00 > 169.00	3.467	3.458	0.009	1.000	15083		2.20(1.13-3.38)	114	43.4	
D 18 13C4 PFOS										
503.00 > 80.00	3.786	3.776	0.010	1.092	505317	1.28		107	2236	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.786	3.776	0.010	1.000	26536	0.0577	Target=6.66	124	93.9	M
499.00 > 99.00	3.776	3.776	0.0	0.997	3884		6.83(3.33-9.99)	124	38.8	M
20 Perfluorononanoic acid										
463.00 > 419.00	3.797	3.797	0.0	1.000	27295	0.0570	Target=6.07	114	10.4	
463.00 > 169.00	3.808	3.797	0.011	1.003	4876		5.60(3.03-9.10)	114	121	
D 19 13C5 PFNA										
468.00 > 423.00	3.797	3.797	0.0	1.095	587790	1.32		105	4550	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.941	3.941	0.0	1.041	21915	0.0542		116	311	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.072	4.072	0.0	1.075	20981	0.0578	Target=3.49	120	365	
549.00 > 99.00	4.072	4.072	0.0	1.075	5243		4.00(1.75-5.24)	120	39.1	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.104	4.092	0.012	1.003	27164	0.0610	Target=6.79	122	47.5	
513.00 > 169.00	4.104	4.092	0.012	1.003	3866		7.03(3.39-10.18)	122	83.4	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.180	562880	1.32		105	4086	
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.104	4.103	0.001	1.000	1915	0.0559		117	67.0	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.103	0.001	1.184	103546	1.36		114	882	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.151	0.0	1.197	936537	1.36		109	2839	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.161	4.151	0.010	1.003	38232	0.0546		109	108	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.221	31753	1.30		104	966	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.245	4.245	0.0	1.002	1238	0.0516		103	28.6	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.332	0.0	1.144	17135	0.0564	Target=3.11	117	106	
599.00 > 99.00	4.332	4.332	0.0	1.144	5769		2.97(1.55-4.66)	117	54.4	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.366	4.355	0.011	1.000	19690	0.0564	Target=6.33	113	25.1	
563.00 > 169.00	4.366	4.355	0.011	1.000	3737		5.27(3.17-9.50)	113	92.6	
D 30 13C2 PFUnA										
565.00 > 520.00	4.366	4.355	0.011	1.259	442772	1.37		110	3773	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.378	4.366	0.012	1.263	38124	1.46		117	510	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.378	4.378	0.0	1.000	1619	0.0580		116	44.6	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.457	4.444	0.013	1.177	19524	0.0560		119	409	
D 36 13C2 PFDoA										
615.00 > 570.00	4.597	4.585	0.012	1.326	462842	1.36		109	2982	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.597	4.585	0.012	1.000	21364	0.0592	Target=5.23	118	16.2	
613.00 > 169.00	4.597	4.585	0.012	1.000	3433		6.22(2.62-7.85)	118	75.1	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.620	4.610	0.010	1.126	856	0.0450		93.4	37.0	
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.772	4.763	0.009	1.260	6464	0.0663	Target=0.47	137	20.4	M
699.00 > 99.00	4.763	4.763	0.0	1.258	11268		0.57(0.23-0.70)	137	199	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.802	4.802	0.0	1.045	16813	0.0548	Target=3.57	110	10.8	
663.00 > 169.00	4.802	4.802	0.0	1.045	4510		3.73(1.78-5.35)	110	213	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.441	331051	1.36		109	4024	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	5.007	4.998	0.009	1.002	3561	0.0587	Target=1.07	117	180	
713.00 > 219.00	4.988	4.998	-0.010	0.998	2848		1.25(0.54-1.61)	117	157	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

D 44 13C2 PFHxDA

815.00 > 770.00	5.372	5.361	0.011	1.549	381852	1.39		111	3776	

45 Perfluorohexadecanoic acid

813.00 > 769.00	5.372	5.372	0.0	1.000	19587	0.0504	Target=3.00	101	18.0	

813.00 > 169.00	5.372	5.372	0.0	1.000	6427		3.05(1.50-4.49)	101	280	

46 Perfluorooctadecanoic acid

913.00 > 869.00	5.764	5.756	0.008	1.073	12470	0.0546	Target=2.88	109	14.7	

913.00 > 169.00	5.764	5.756	0.008	1.073	4088		3.05(1.44-4.32)	109	152	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC1_00005

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d

Injection Date: 22-Sep-2020 19:30:30

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

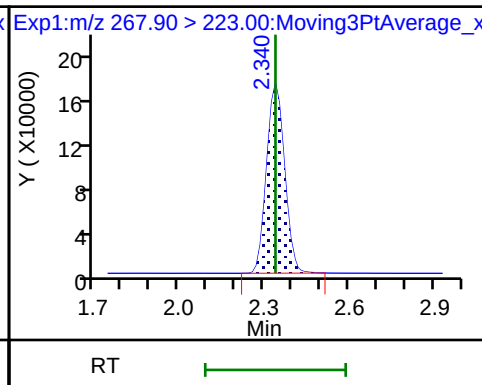
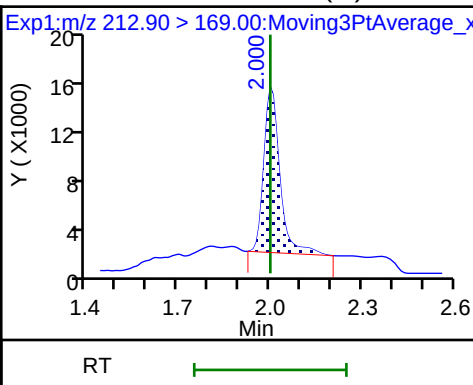
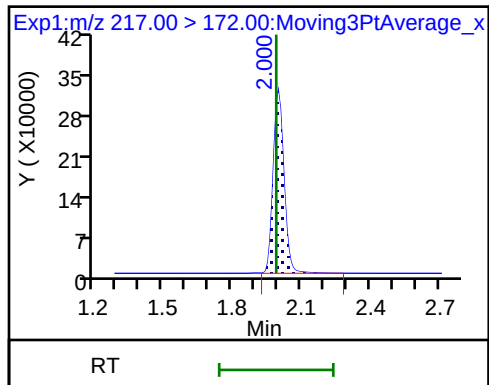
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

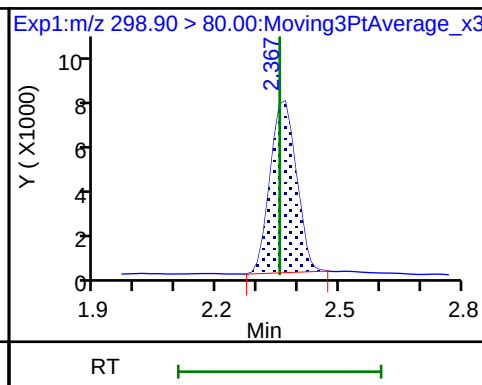
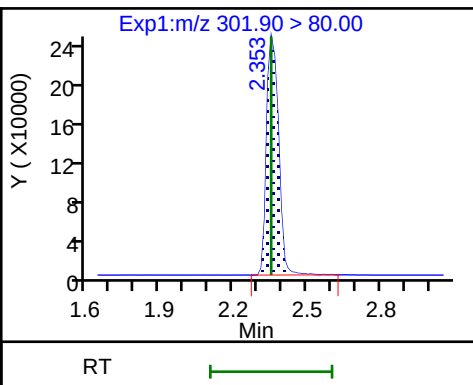
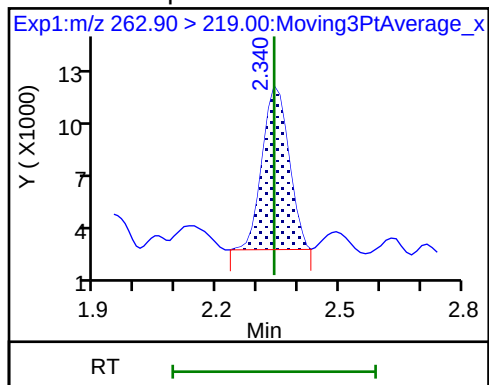
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

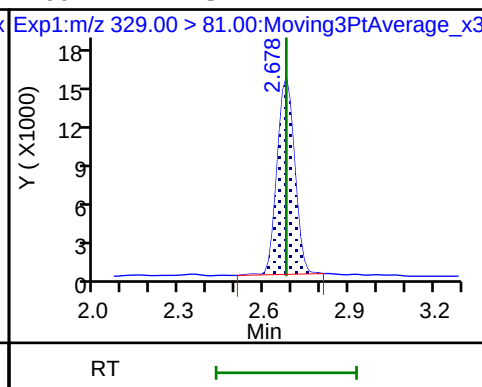
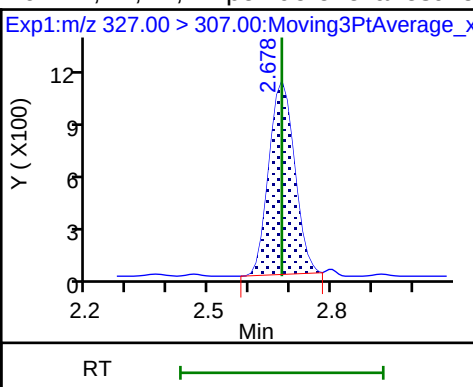
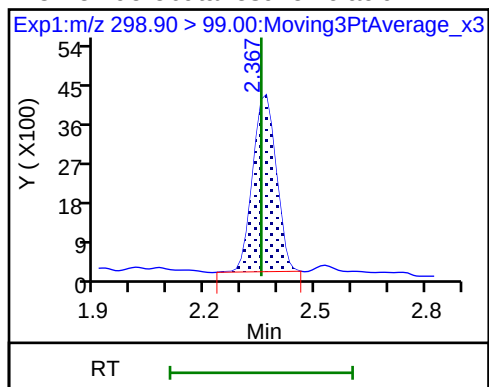
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

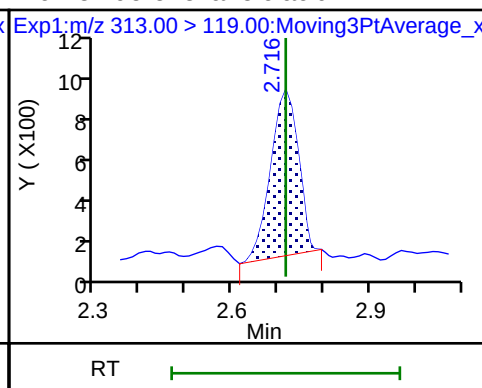
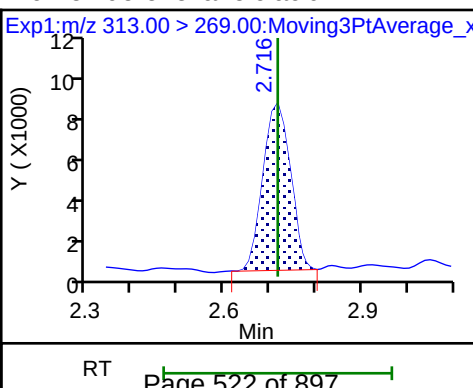
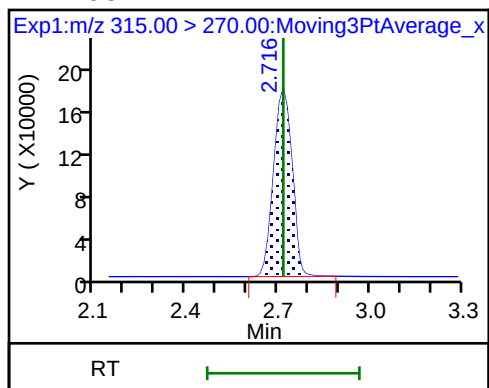
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

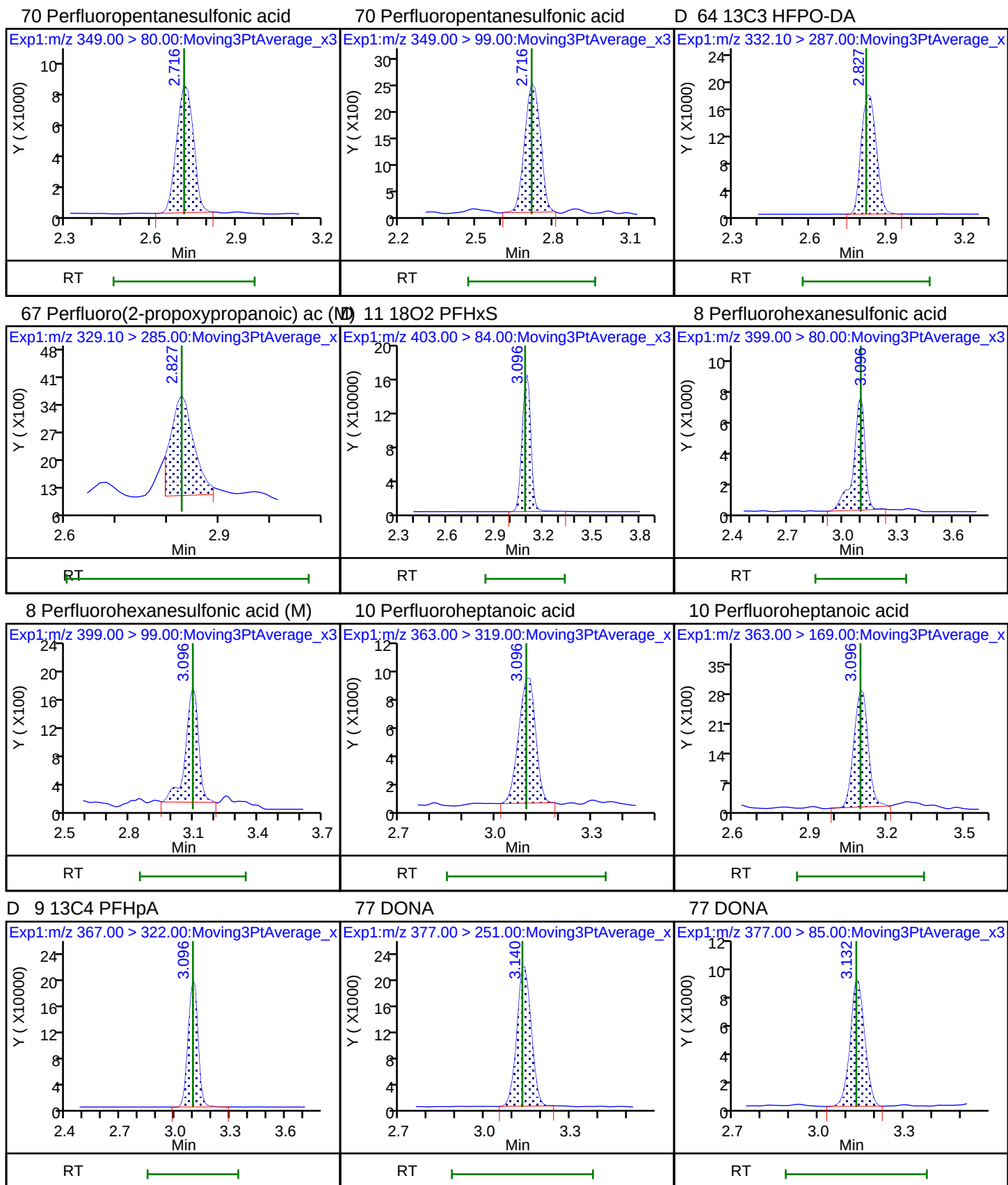


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid



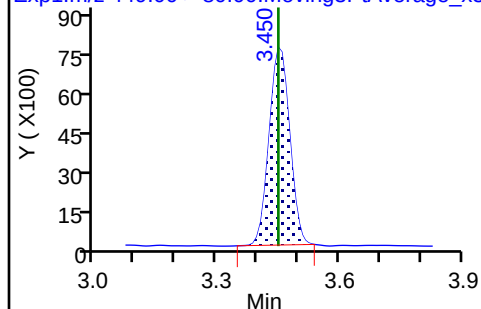


16 Perfluoroheptanesulfonic acid

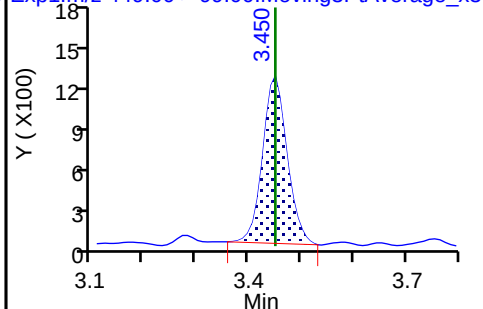
16 Perfluoroheptanesulfonic acid (M)

D 12 M2-6:2 FTS

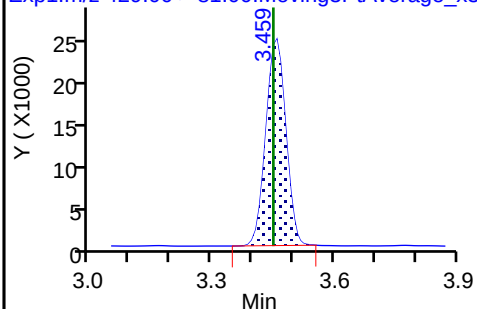
Exp1:m/z 449.00 > 80.00:Moving3PtAverage_x3



Exp1:m/z 449.00 > 99.00:Moving3PtAverage_x3



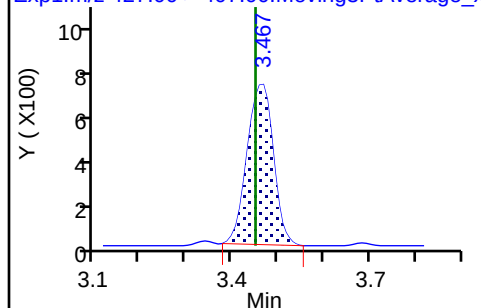
Exp1:m/z 429.00 > 81.00:Moving3PtAverage_x3



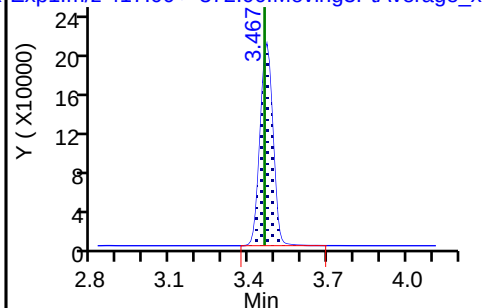
13 1H,1H,2H,2H-perfluorooctanesulfo

* 62 13C2 PFOA

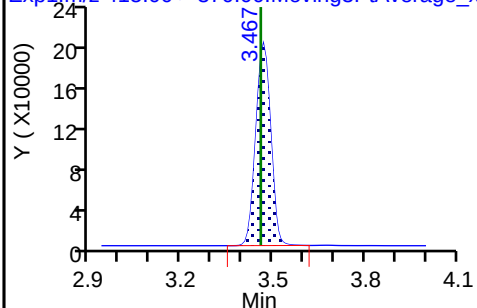
Exp1:m/z 427.00 > 407.00:Moving3PtAverage_x3



Exp1:m/z 417.00 > 372.00:Moving3PtAverage_x3



Exp1:m/z 415.00 > 370.00:Moving3PtAverage_x3

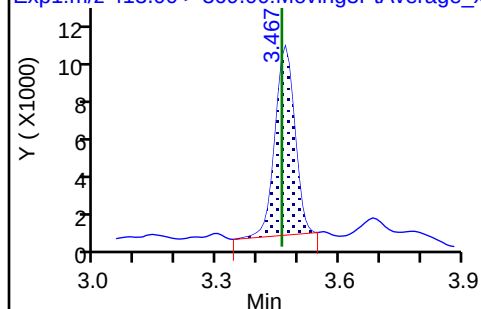


15 Perfluorooctanoic acid

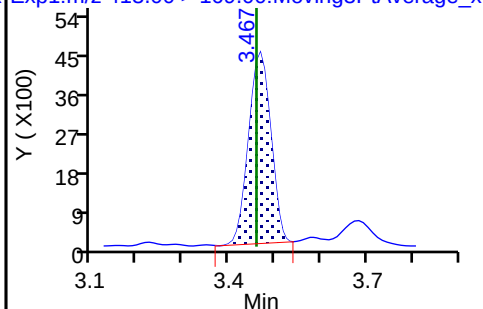
15 Perfluorooctanoic acid

D 18 13C4 PFOS

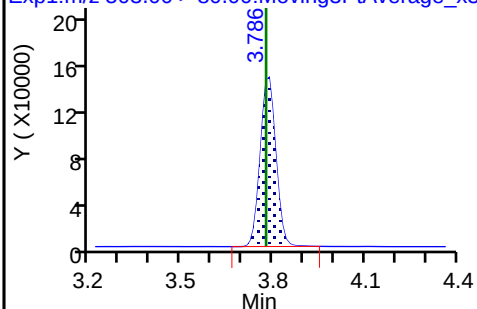
Exp1:m/z 413.00 > 369.00:Moving3PtAverage_x3



Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x3



Exp1:m/z 503.00 > 80.00:Moving3PtAverage_x3

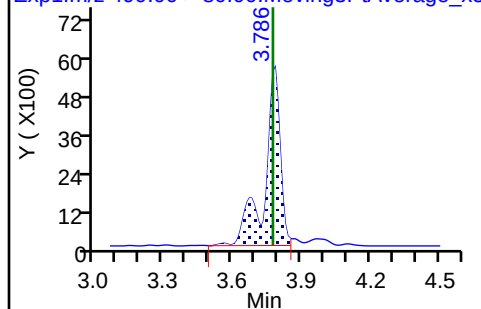


17 Perfluorooctanesulfonic acid (M)

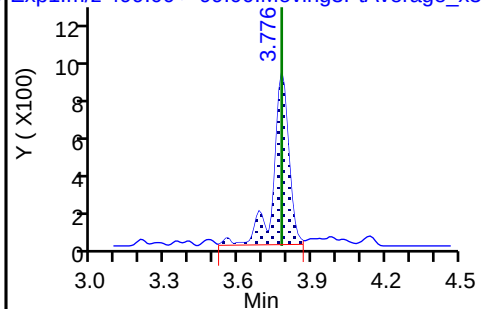
17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

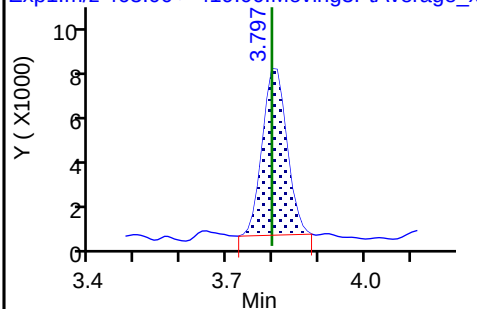
Exp1:m/z 499.00 > 80.00:Moving3PtAverage_x3

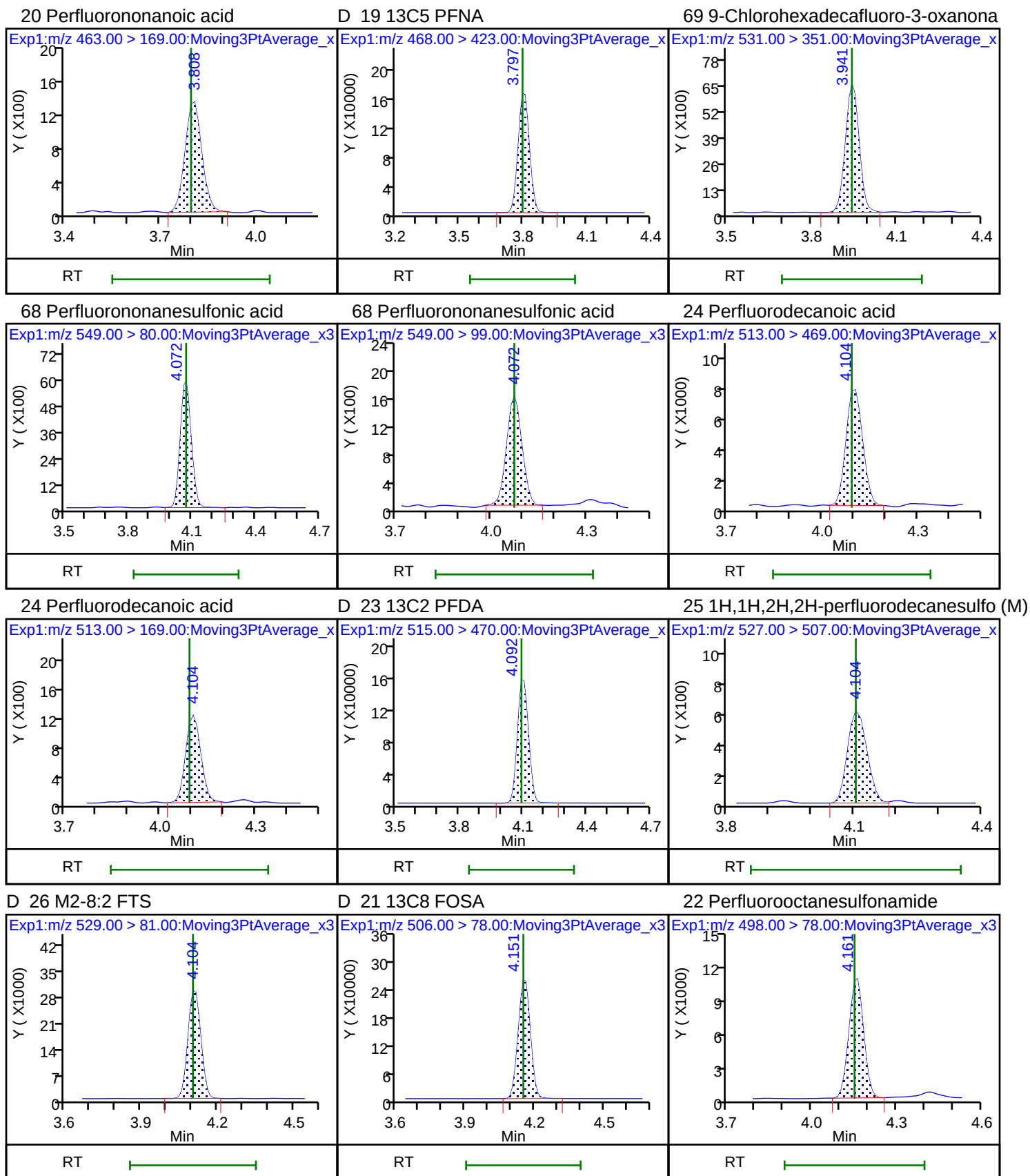


Exp1:m/z 499.00 > 99.00:Moving3PtAverage_x3



Exp1:m/z 463.00 > 419.00:Moving3PtAverage_x3

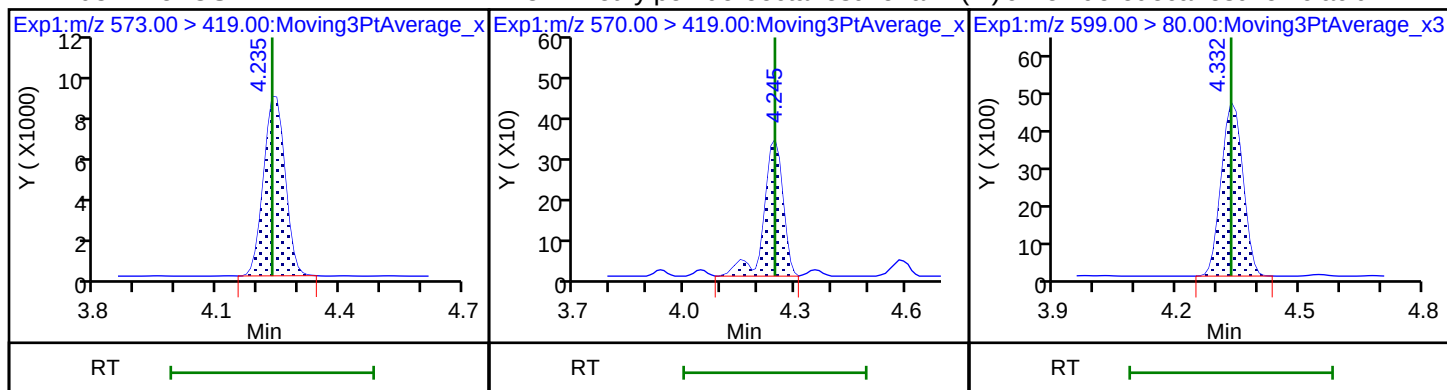




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M₂)

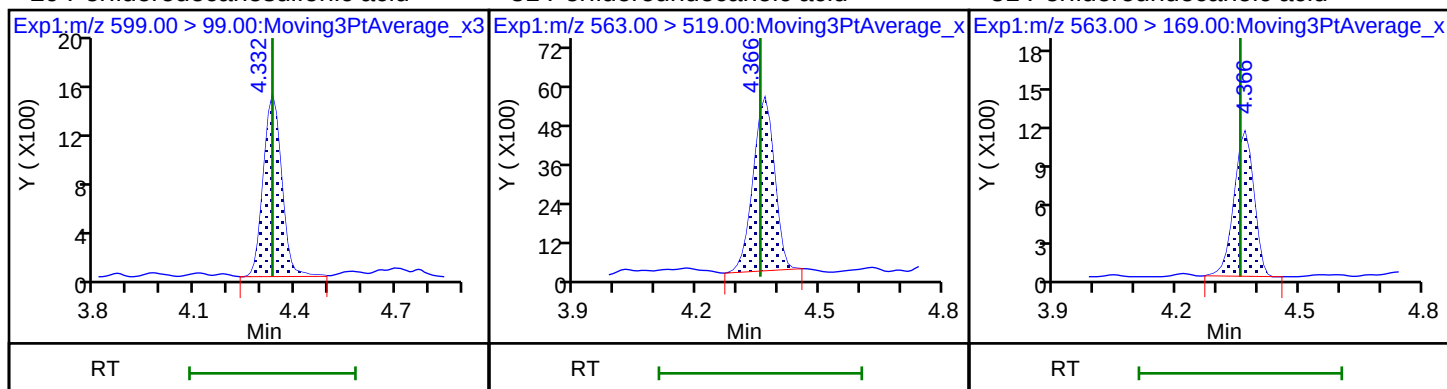
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

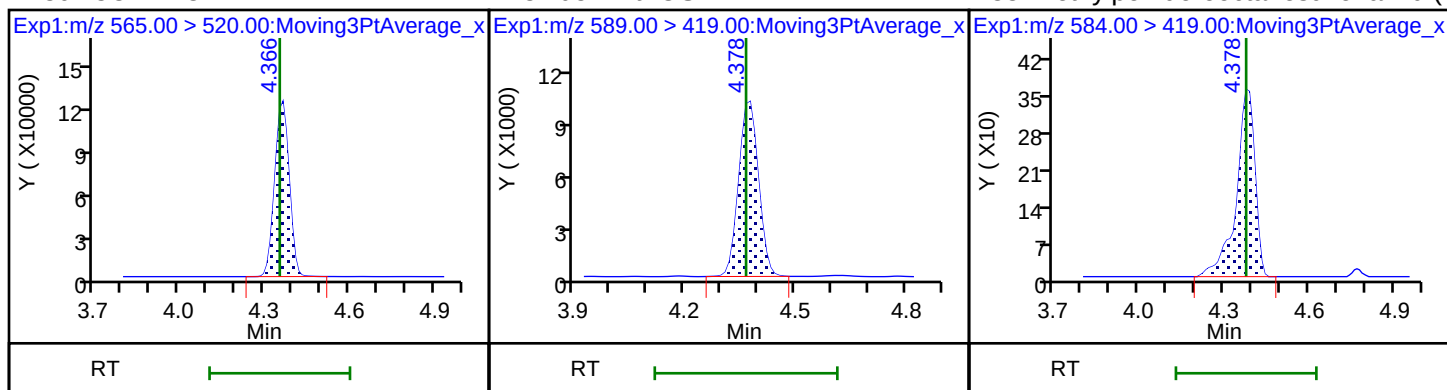
31 Perfluoroundecanoic acid

31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

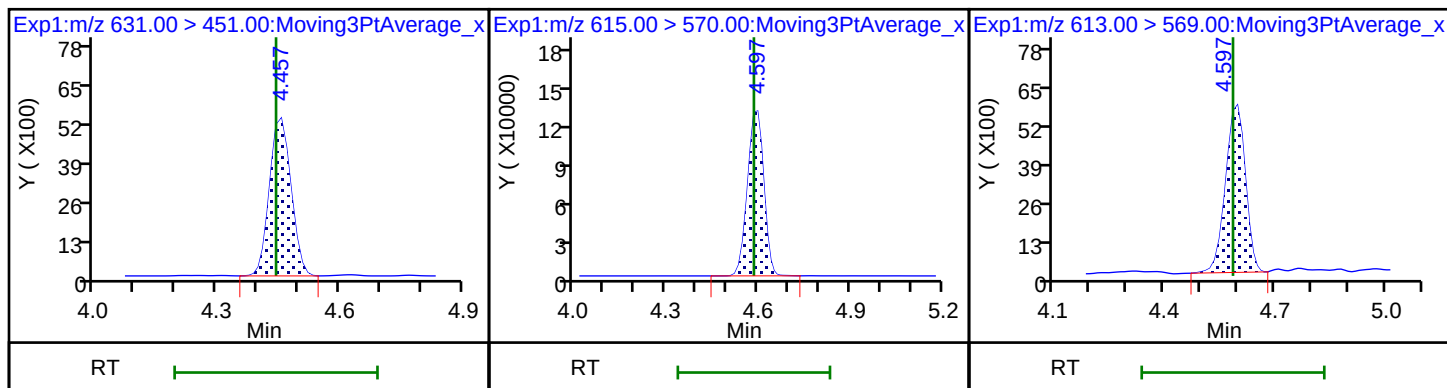
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid (M₂)

66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

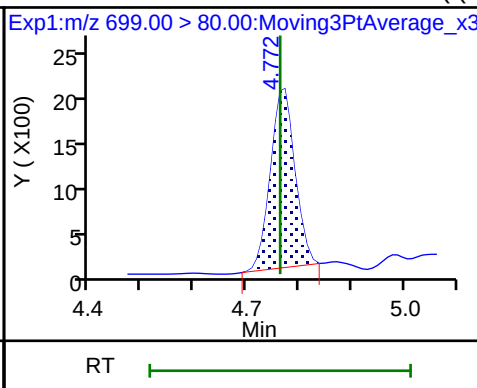
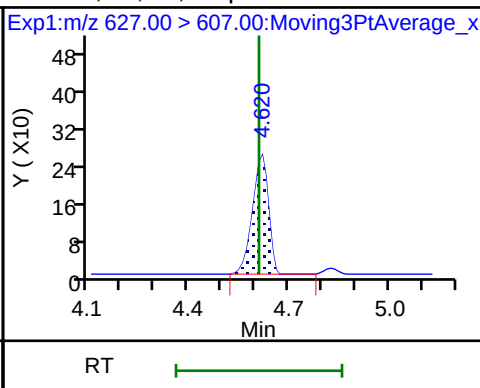
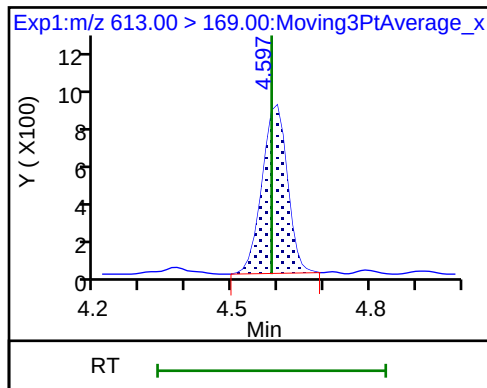
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

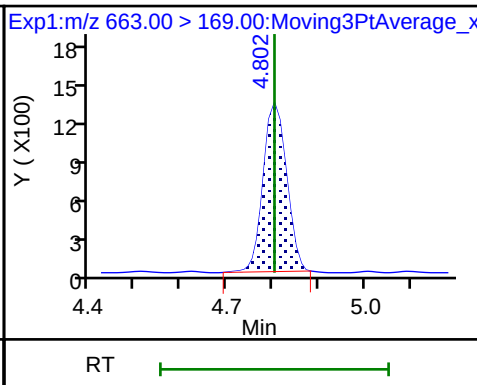
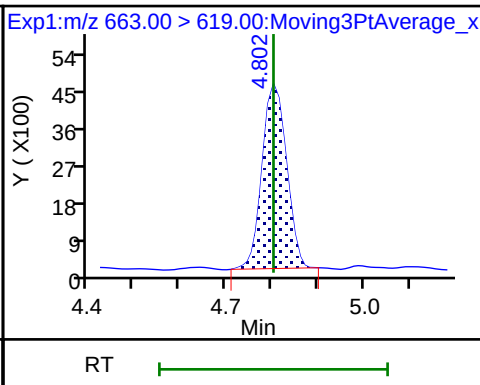
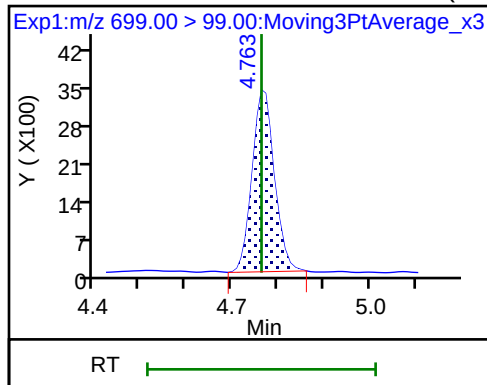
75 Perfluorododecanesulfonic acid ((M)



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

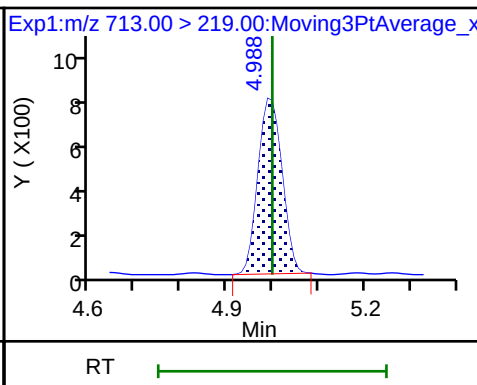
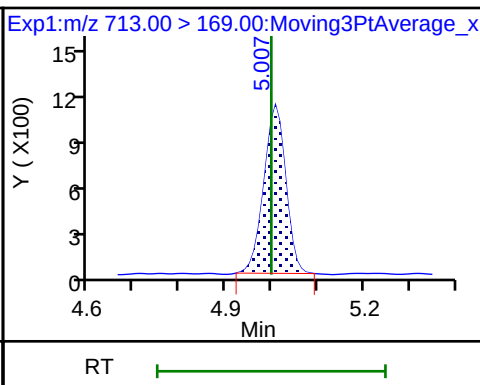
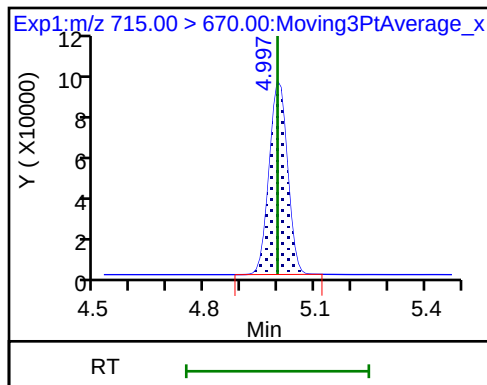
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

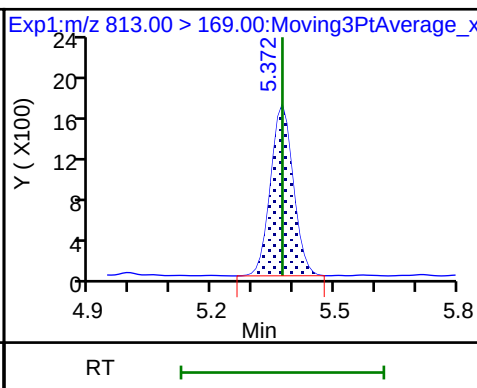
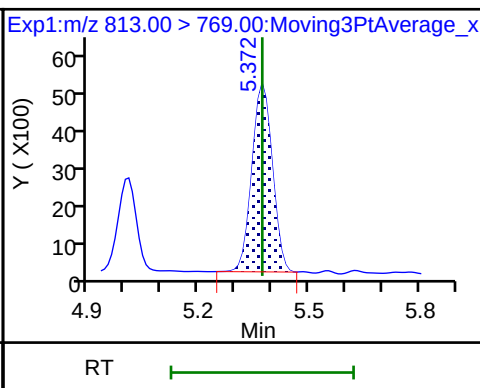
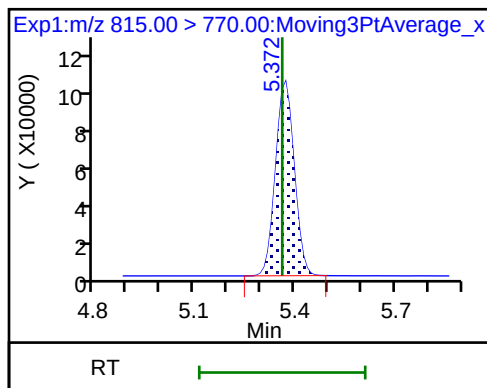
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

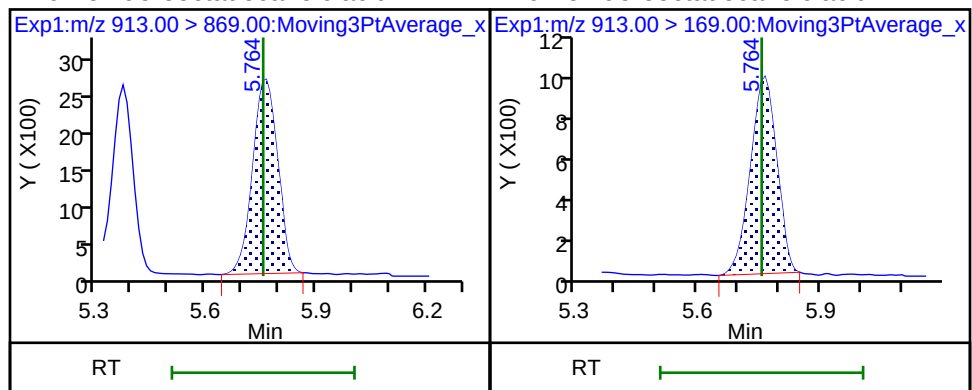
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d

Injection Date: 22-Sep-2020 19:30:30

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

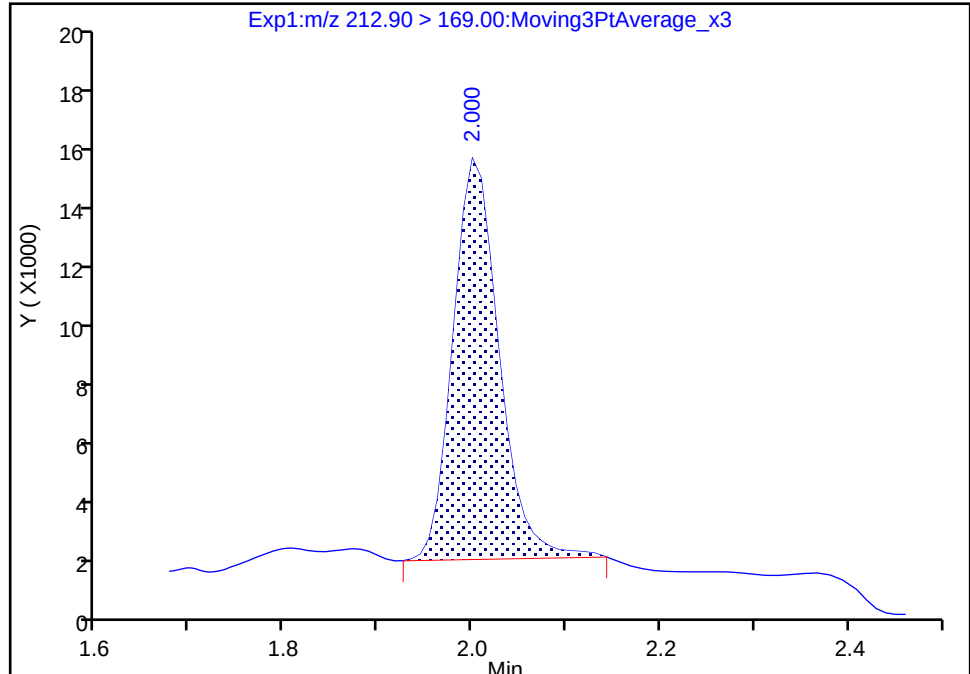
EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

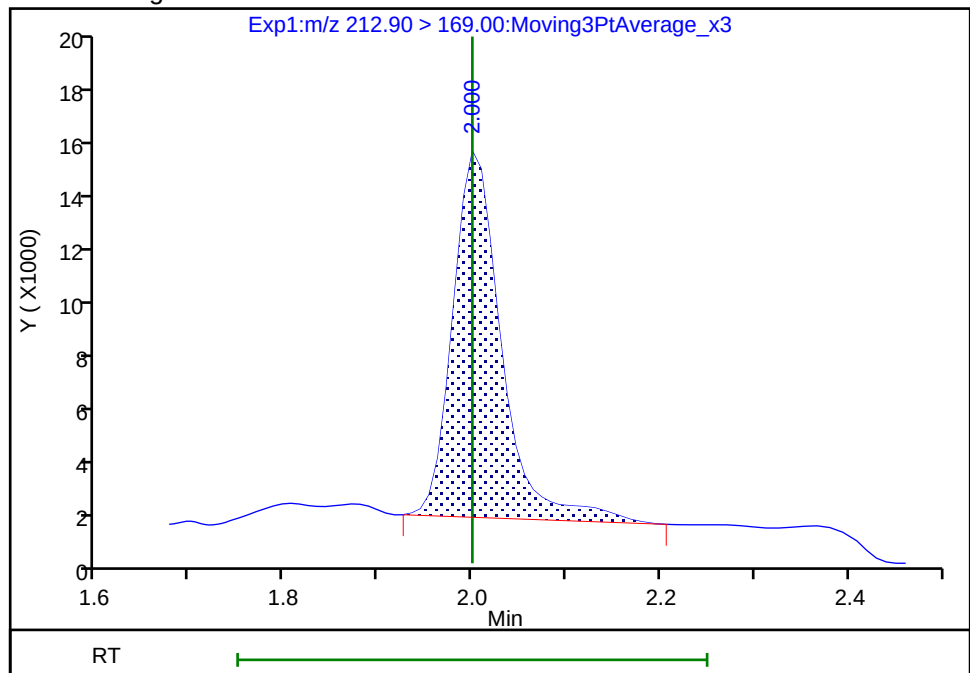
RT: 2.00
Area: 46383
Amount: 0.061387
Amount Units: ng/ml

Processing Integration Results



RT: 2.00
Area: 49507
Amount: 0.064630
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:36:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

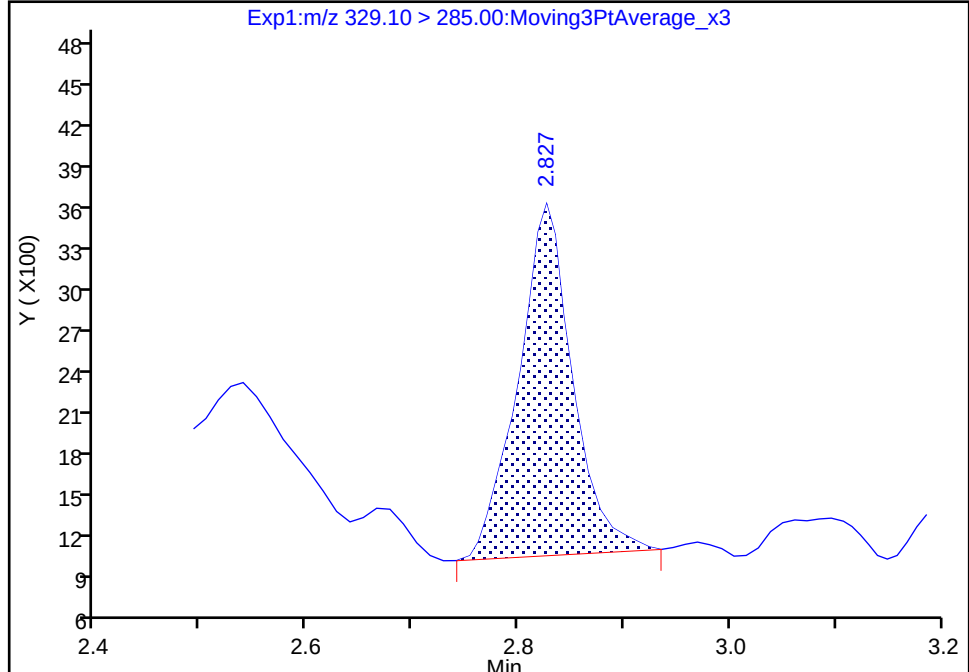
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

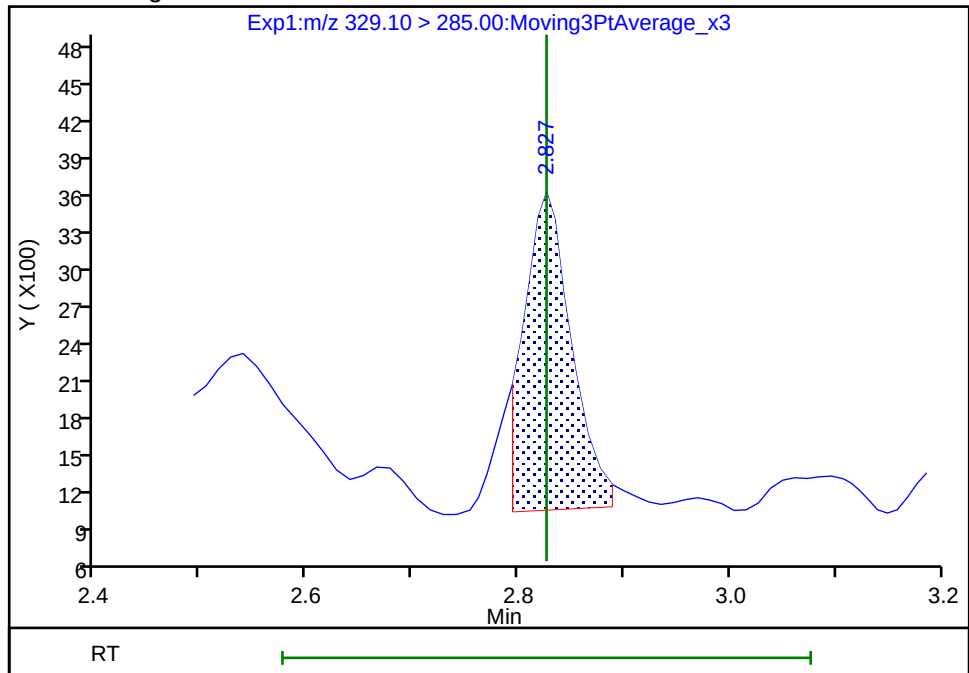
RT: 2.83
Area: 9024
Amount: 0.072437
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 7693
Amount: 0.063974
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:51:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

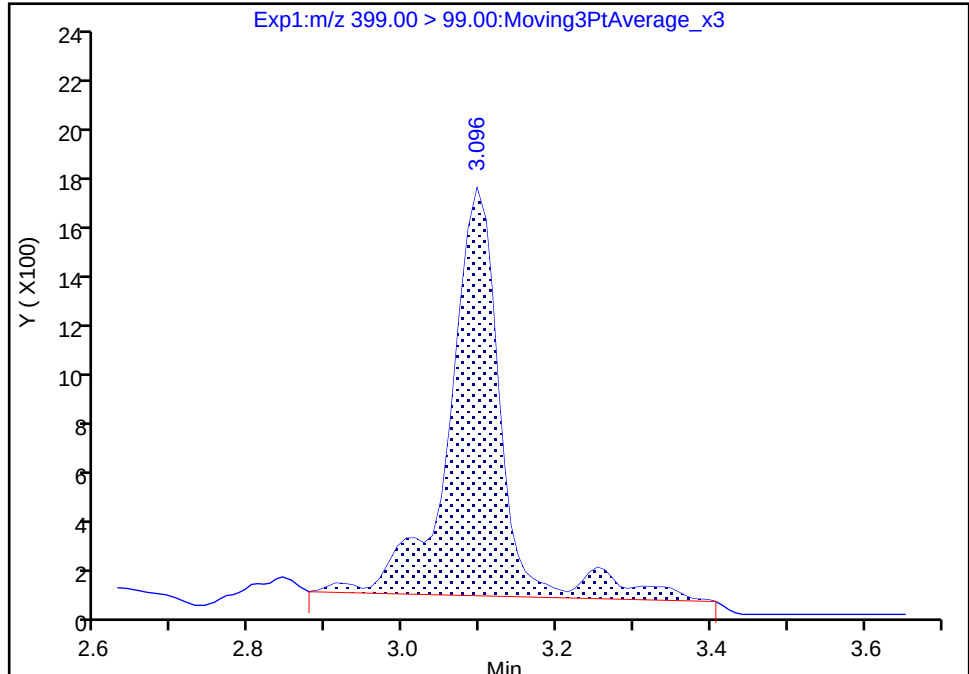
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

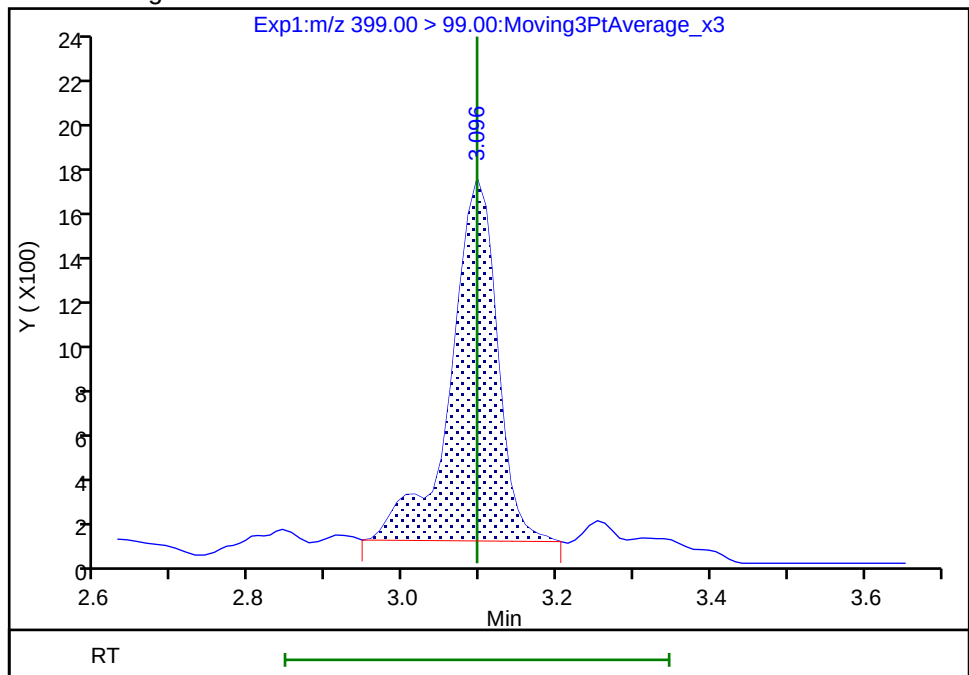
RT: 3.10
Area: 7770
Amount: 0.054572
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 6717
Amount: 0.054572
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:36:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

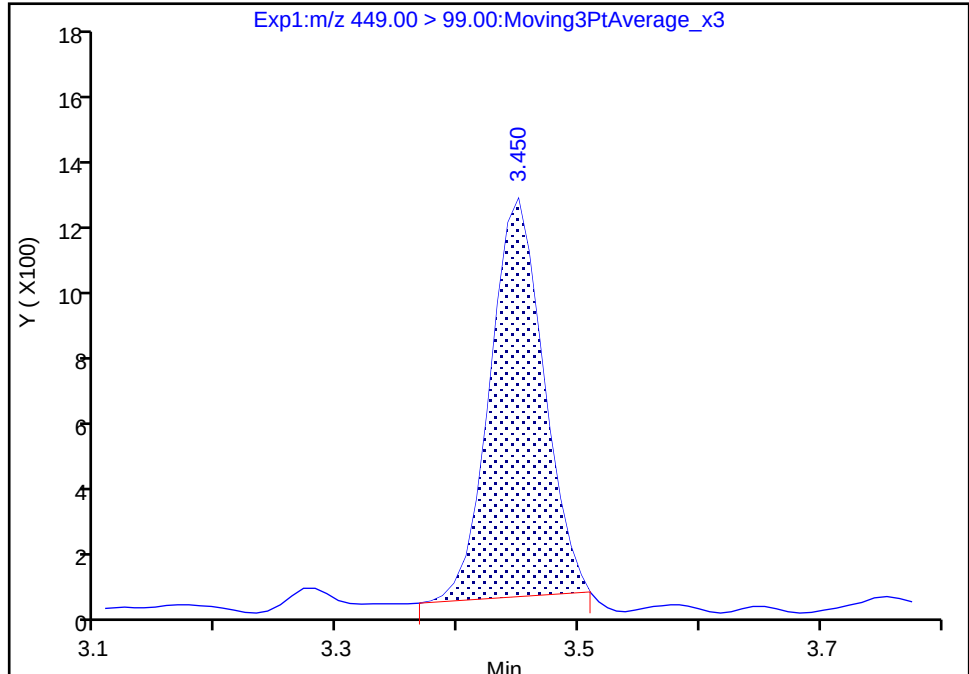
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

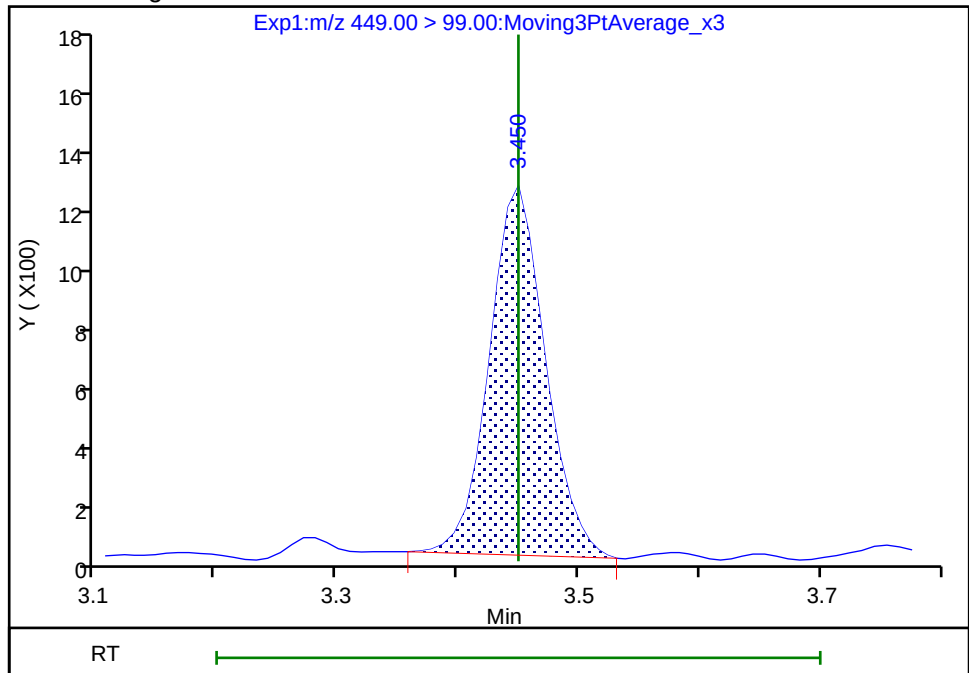
RT: 3.45
Area: 3702
Amount: 0.054337
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 3978
Amount: 0.054337
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:36:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

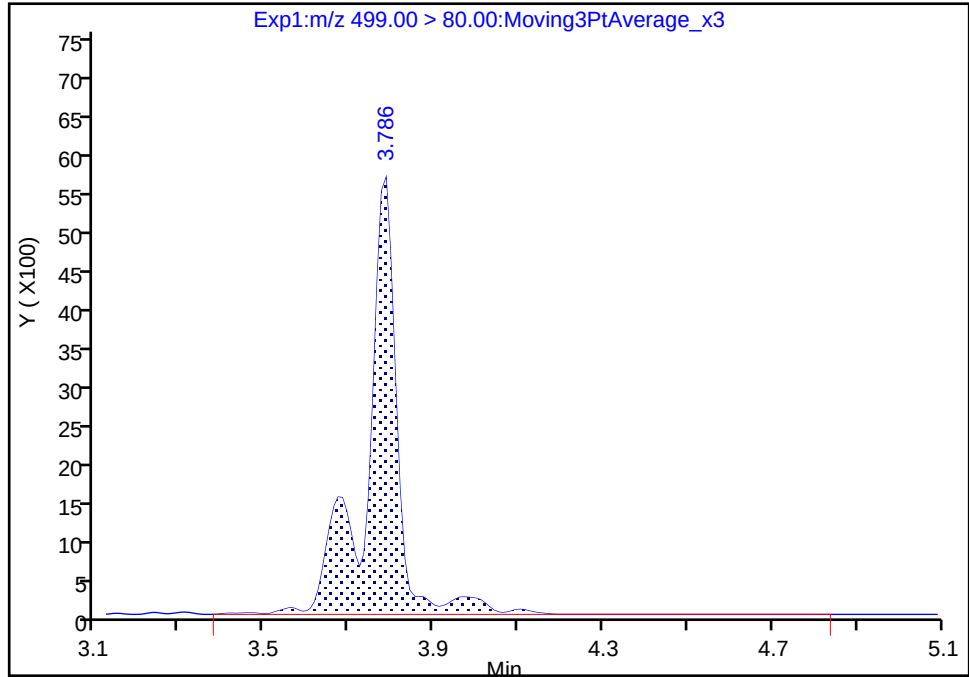
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

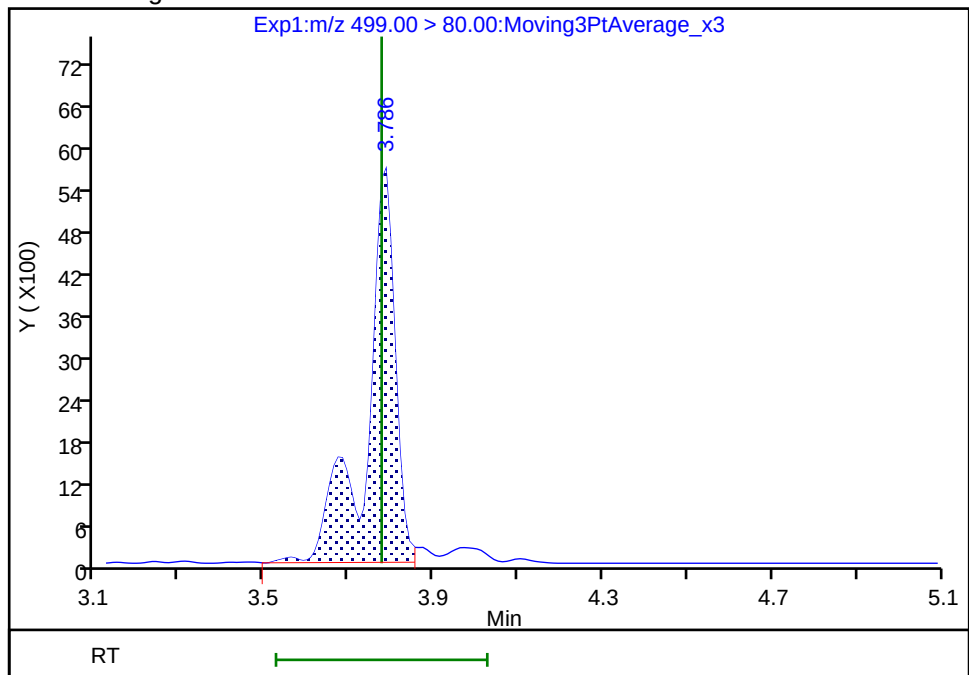
RT: 3.79
Area: 29070
Amount: 0.061062
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 26536
Amount: 0.057748
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:37:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

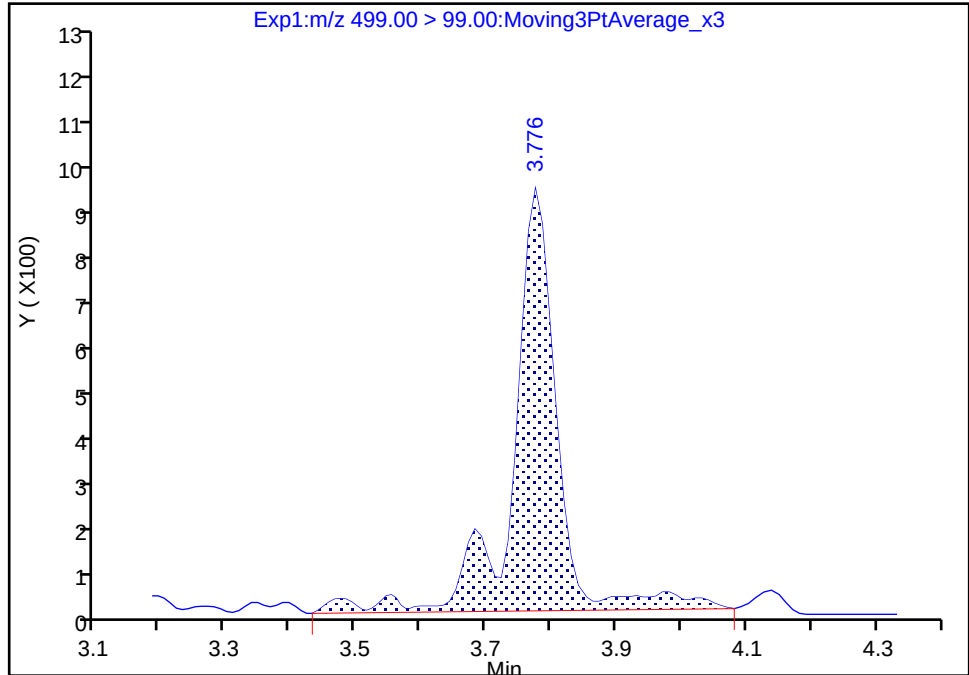
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

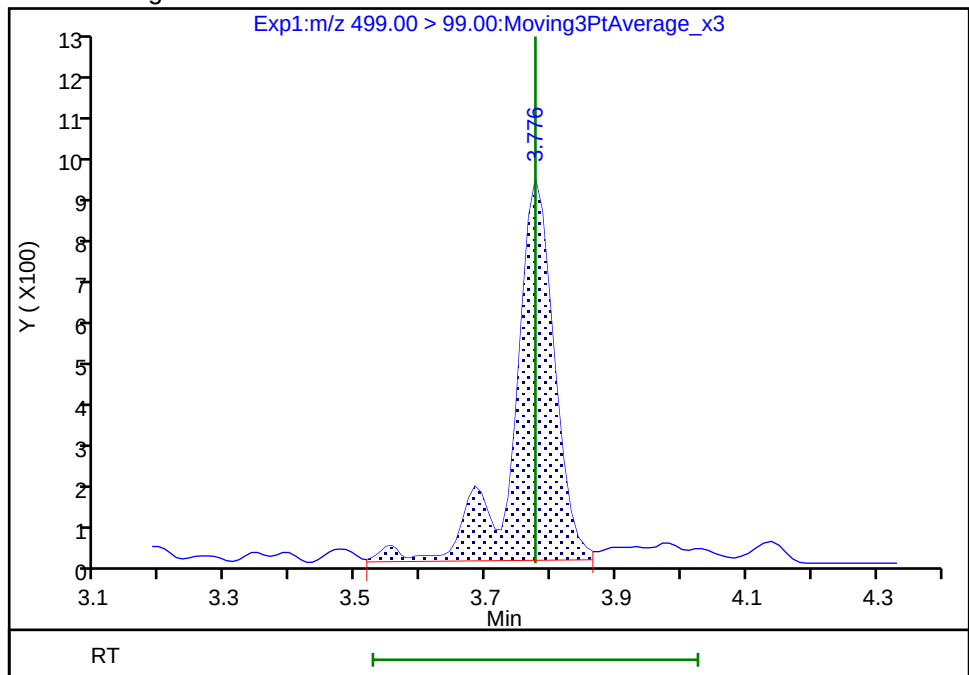
RT: 3.78
Area: 4261
Amount: 0.061062
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 3884
Amount: 0.057748
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:37:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d

Injection Date: 22-Sep-2020 19:30:30

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

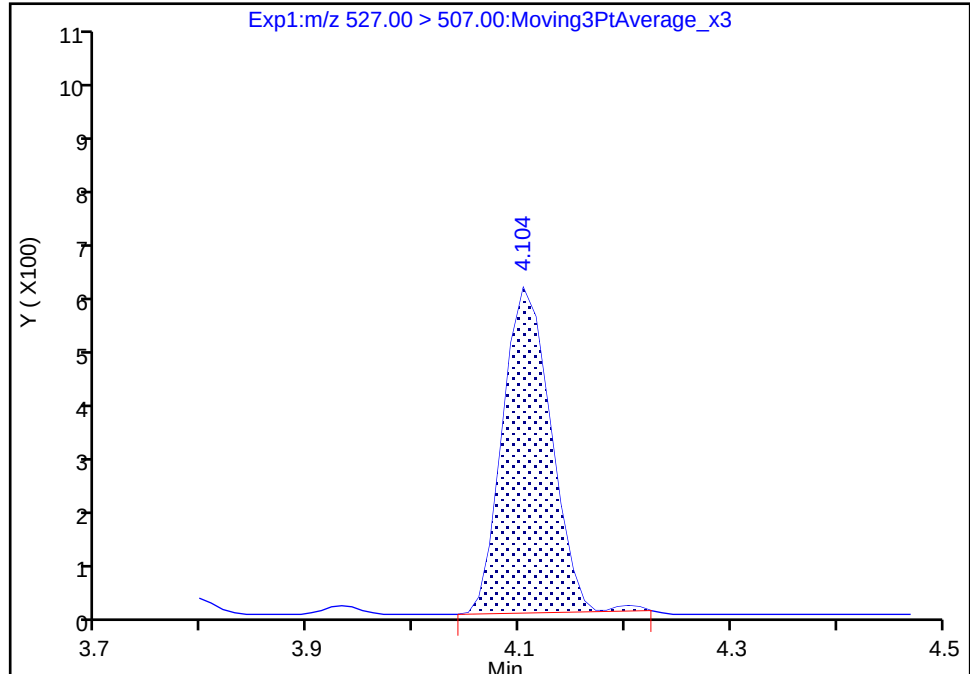
Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

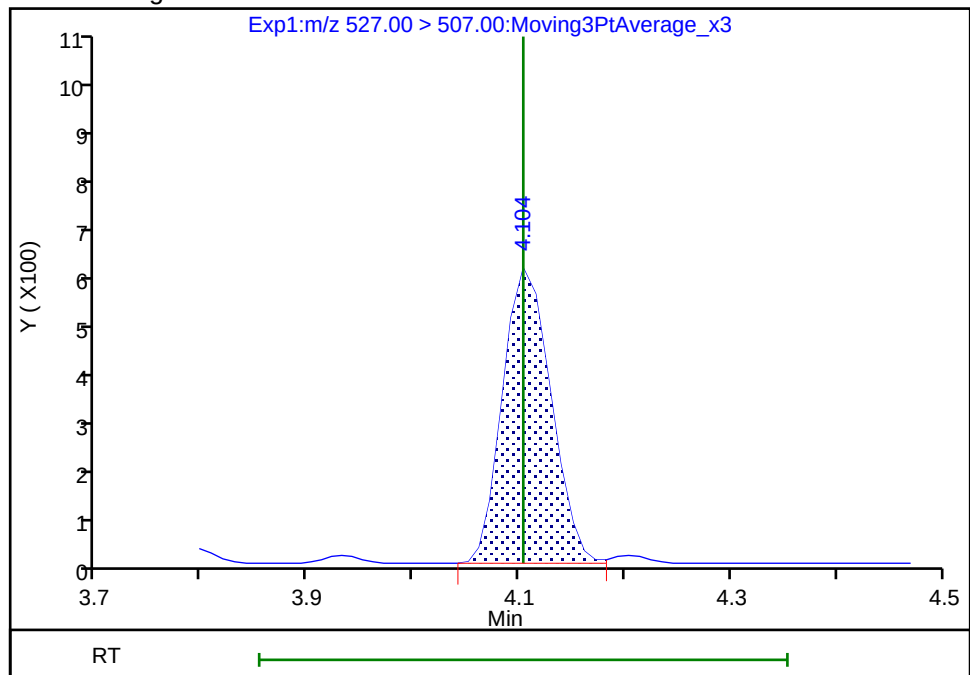
RT: 4.10
Area: 1909
Amount: 0.055807
Amount Units: ng/ml

Processing Integration Results



RT: 4.10
Area: 1915
Amount: 0.055948
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:37:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

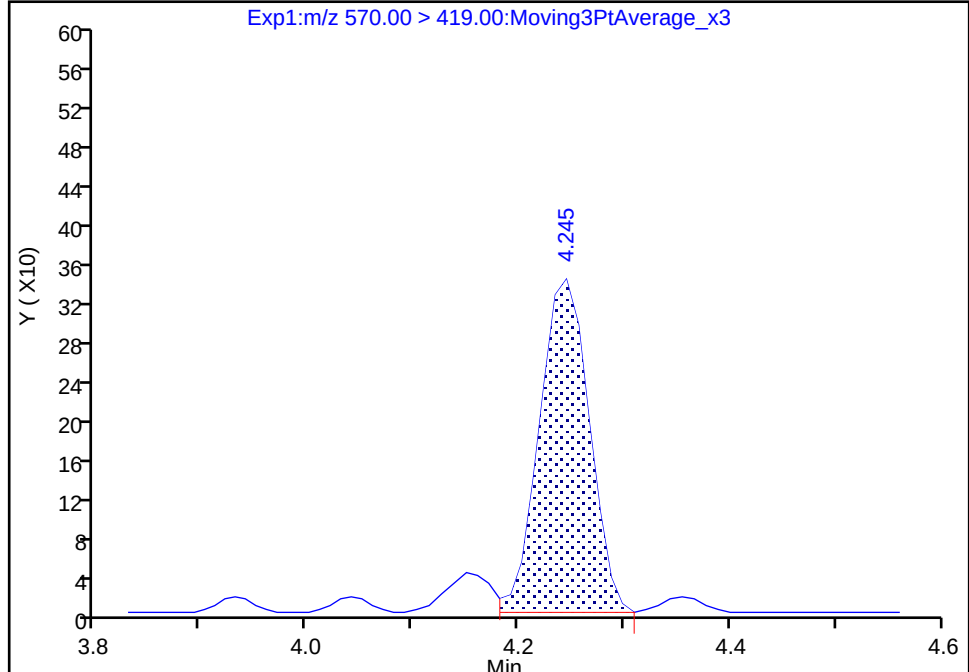
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

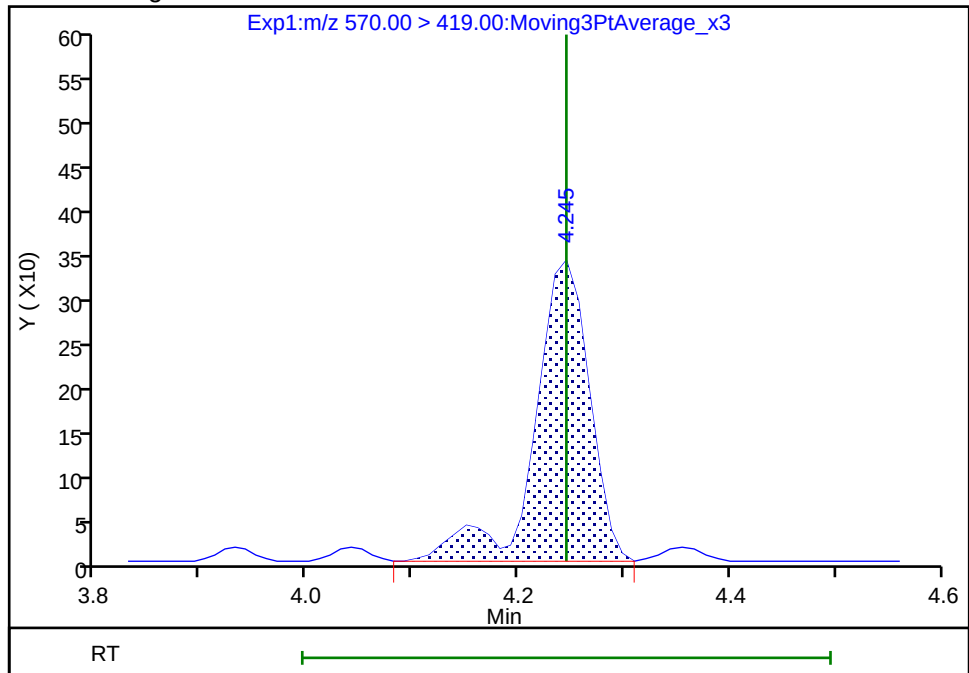
RT: 4.25
Area: 1121
Amount: 0.049832
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 1238
Amount: 0.051642
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:37:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

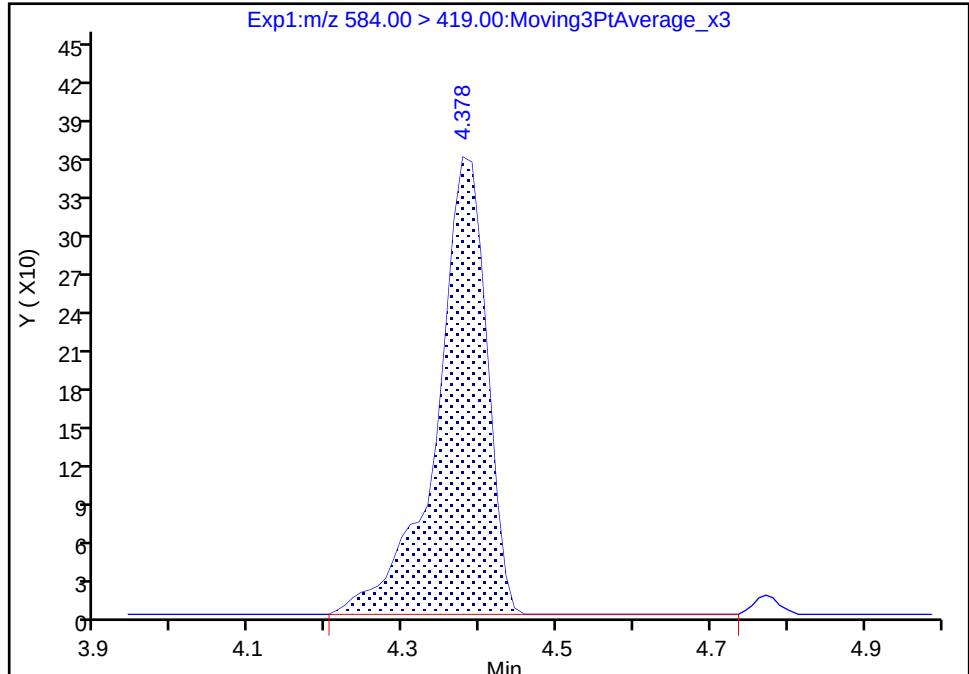
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

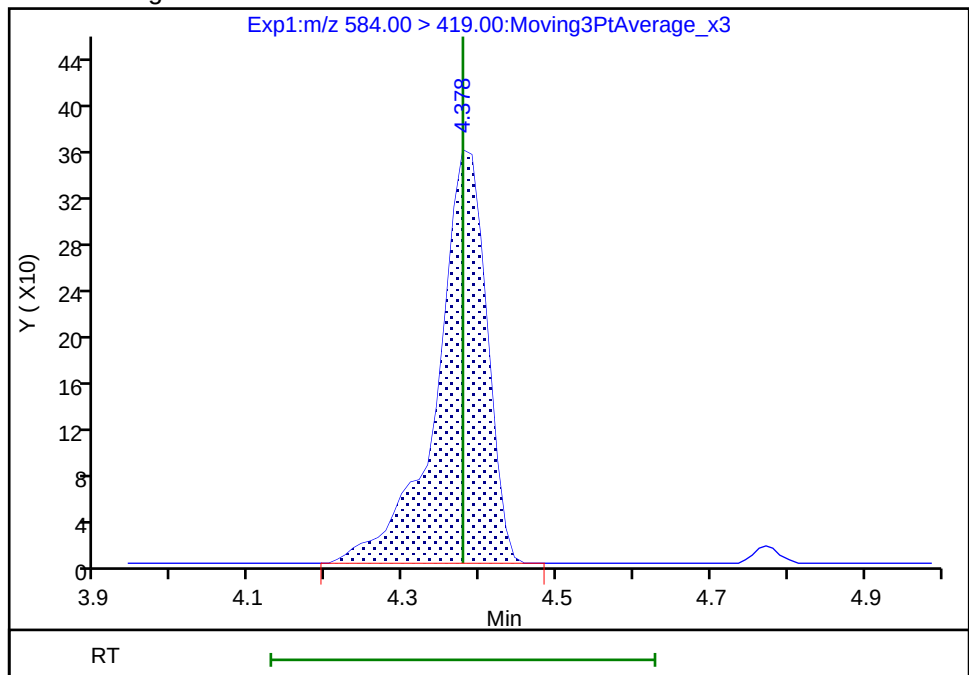
RT: 4.38
Area: 1619
Amount: 0.057422
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 1619
Amount: 0.057982
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:37:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

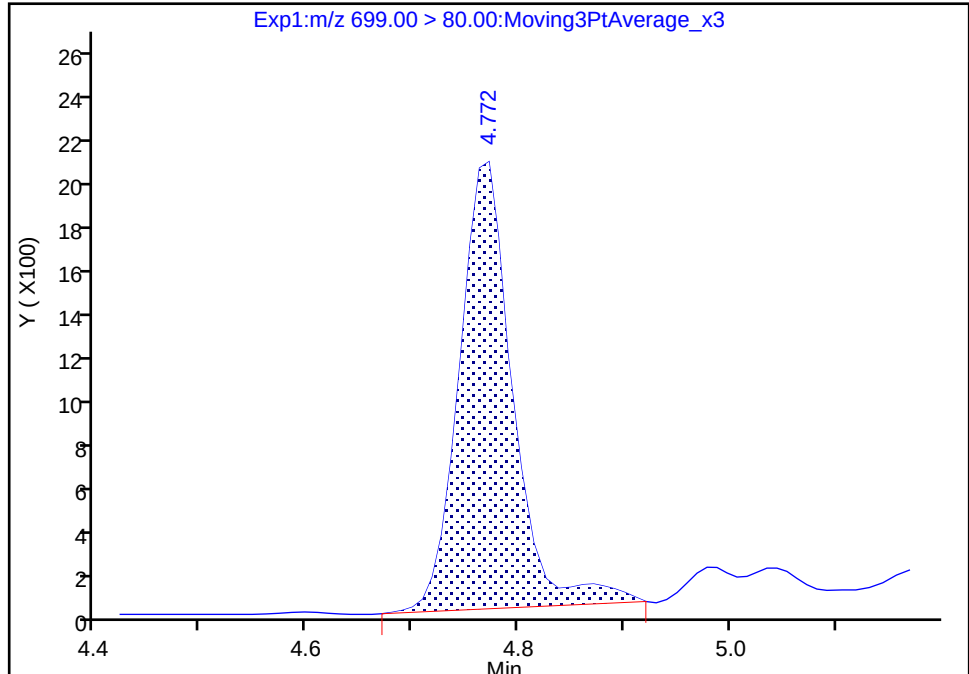
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

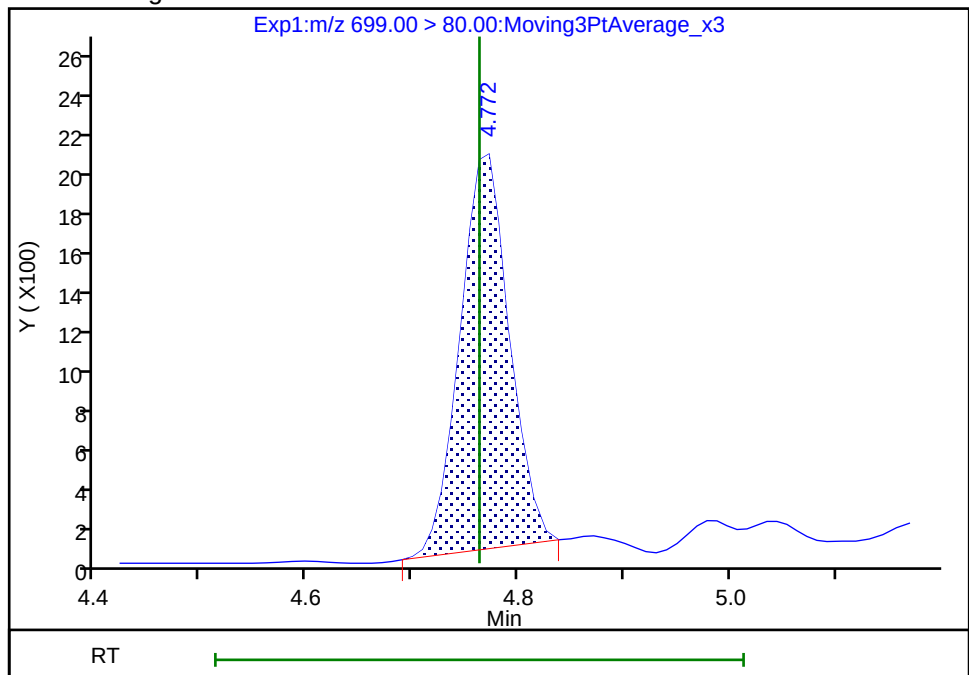
RT: 4.77
Area: 7187
Amount: 0.071876
Amount Units: ng/ml

Processing Integration Results



RT: 4.77
Area: 6464
Amount: 0.066296
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 2
 Inject. Date: 22-Sep-2020 19:38:46 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0042904-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 23-Sep-2020 10:27:04 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1050

First Level Reviewer: chirgwinb

Date: 23-Sep-2020 09:32:19

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.990	1.990	0.0	0.575	1037724	1.28		102	7294	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.999	2.000	-0.001	1.005	82833	0.1067		107	12.7	
D 3 13C5 PFPeA										
267.90 > 223.00	2.339	2.339	0.0	0.676	753884	1.29		103	3312	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.339	2.339	0.0	1.000	68603	0.1077		108	4.0	M
D 47 13C3 PFBS										
301.90 > 80.00	2.339	2.353	-0.014	0.676	832503	1.17		101	223348	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.353	2.353	0.0	1.006	64112	0.0898	Target=1.99	102	212	
298.90 > 99.00	2.353	2.353	0.0	1.006	33725		1.90(1.00-2.99)	102	54.5	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.665	2.678	-0.013	1.000	7881	0.0918		98.3	233	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.665	2.678	-0.013	0.771	62030	1.16		99.7	164	
D 7 13C2 PFHxA										
315.00 > 270.00	2.703	2.716	-0.013	0.782	785597	1.31		105	4060	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.703	2.716	-0.013	1.000	66975	0.1058	Target=11.58	106	25.1	
313.00 > 119.00	2.703	2.716	-0.013	1.000	6288		10.65(5.79-17.37)	106	18.9	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.881	55204	0.0890	Target=3.36	94.9	277	
349.00 > 99.00	2.716	2.716	0.0	0.881	17854		3.09(1.68-5.05)	94.9	103	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.818	2.818	0.0	0.815	62681	1.12		89.7	811	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.818	2.826	-0.008	1.000	12283	0.1151		115	2.6	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.084	3.084	0.0	0.892	619406	1.22		103	2344	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.084	3.096	-0.012	1.000	53509	0.0925	Target=4.59	102	194	
399.00 > 99.00	3.084	3.096	-0.012	1.000	11593		4.62(2.29-6.88)	102	29.2	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.096	3.096	0.0	1.000	58588	0.1041	Target=3.29	104	31.1	M
363.00 > 169.00	3.096	3.096	0.0	1.000	16759		3.50(1.65-4.94)	104	73.0	
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.096	0.0	0.895	701789	1.29		103	6009	
77 DONA										
377.00 > 251.00	3.131	3.132	-0.001	0.830	127932	0.1001	Target=2.40	106	448	
377.00 > 85.00	3.131	3.132	-0.001	0.830	51074		2.50(1.20-3.60)	106	144	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.450	3.450	0.0	0.914	47450	0.0987	Target=6.94	104	466	
449.00 > 99.00	3.450	3.450	0.0	0.914	6479		7.32(3.47-10.41)	104	73.6	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.450	0.0	0.998	80244	1.18		99.3	693	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.450	3.450	0.0	1.000	6017	0.1116		118	174	
D 14 13C4 PFOA										
417.00 > 372.00	3.458	3.458	0.0	1.000	722671	1.29		103	3143	
* 62 13C2 PFOA										
415.00 > 370.00	3.458	3.458	0.0		709327	1.25			2377	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.458	3.458	0.0	1.000	63800	0.1069	Target=2.26	107	32.2	
413.00 > 169.00	3.458	3.458	0.0	1.000	28315		2.25(1.13-3.38)	107	79.3	
D 18 13C4 PFOS										
503.00 > 80.00	3.775	3.776	-0.001	1.092	495742	1.19		99.6	1775	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.775	3.776	-0.001	1.000	41988	0.0931	Target=6.66	100	106	M
499.00 > 99.00	3.775	3.776	-0.001	1.000	6947		6.04(3.33-9.99)	100	83.2	M
D 19 13C5 PFNA										
468.00 > 423.00	3.796	3.797	-0.001	1.098	612495	1.30		104	5209	
20 Perfluorononanoic acid										
463.00 > 419.00	3.796	3.797	-0.001	1.000	53981	0.1082	Target=6.07	108	21.6	
463.00 > 169.00	3.796	3.797	-0.001	1.000	8067		6.69(3.03-9.10)	108	203	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.940	3.941	-0.001	1.044	39360	0.0992		106	443	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.072	-0.011	1.076	35491	0.0996	Target=3.49	104	487	
549.00 > 99.00	4.061	4.072	-0.011	1.076	10838		3.27(1.75-5.24)	104	97.1	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.091	4.092	-0.001	1.000	49783	0.1040	Target=6.79	104	84.4	
513.00 > 169.00	4.091	4.092	-0.001	1.000	8088		6.16(3.39-10.18)	104	138	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.091	4.092	-0.001	1.183	604855	1.34		107	5318	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.114	4.103	0.011	1.003	2921	0.0848		88.5	80.6	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.103	4.103	-0.001	1.186	104254	1.30		109	1163	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.151	-0.001	1.200	902363	1.24		99.2	3493	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.151	-0.001	1.000	74962	0.1111		111	232	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.225	32875	1.28		102	1041	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.235	4.245	-0.010	1.000	3014	0.1214		121	15.6	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.332	0.0	1.148	31388	0.1053	Target=3.11	109	258	
599.00 > 99.00	4.332	4.332	0.0	1.148	9919		3.16(1.55-4.66)	109	94.6	
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.259	457385	1.34		107	3673	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.355	0.0	1.000	35149	0.0974	Target=6.33	97.4	47.5	
563.00 > 169.00	4.355	4.355	0.0	1.000	5421		6.48(3.17-9.50)	97.4	117	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.263	35898	1.30		104	509	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.366	4.378	-0.012	1.000	3309	0.1259		126	101	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.444	4.444	0.0	1.177	33859	0.0989		105	855	
D 36 13C2 PFDaA										
615.00 > 570.00	4.585	4.585	0.0	1.326	445040	1.24		98.8	3504	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.585	4.585	0.0	1.000	34516	0.0994	Target=5.23	99.4	30.7	
613.00 > 169.00	4.585	4.585	0.0	1.000	6911		4.99(2.62-7.85)	99.4	216	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.610	4.610	0.0	1.124	1775	0.0927		96.2	65.1	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.763	4.763	0.0	1.262	9167	0.0958	Target=0.47	99.0	37.4	
699.00 > 99.00	4.763	4.763	0.0	1.262	21918		0.42(0.23-0.70)	99.0	394	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.790	4.802	-0.012	1.045	33638	0.1141	Target=3.57	114	23.9	
663.00 > 169.00	4.803	4.802	0.001	1.047	8975		3.75(1.78-5.35)	114	208	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.445	322915	1.26		101	4114	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.997	4.998	-0.001	1.000	6510	0.1100	Target=1.07	110	209	
713.00 > 219.00	4.988	4.998	-0.010	0.998	6300		1.03(0.54-1.61)	110	233	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.361	5.361	0.0	1.550	358275	1.23		98.6	3397	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.372	5.372	0.0	1.002	30217	0.0979	Target=3.00	97.9	24.5	
813.00 > 169.00	5.372	5.372	0.0	1.002	10469		2.89(1.50-4.49)	97.9	374	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.755	5.756	-0.001	1.073	24480	0.1143	Target=2.88	114	28.2	M
913.00 > 169.00	5.747	5.756	-0.009	1.072	8210		2.98(1.44-4.32)	114	293	M

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC2_00005

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d

Injection Date: 22-Sep-2020 19:38:46

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

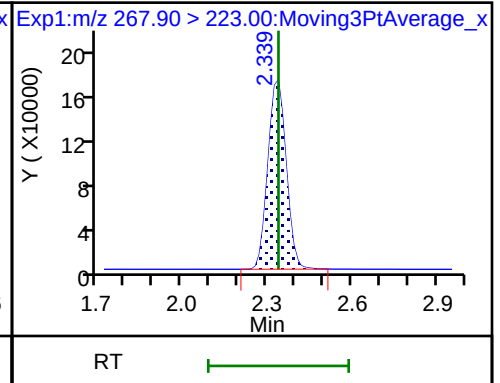
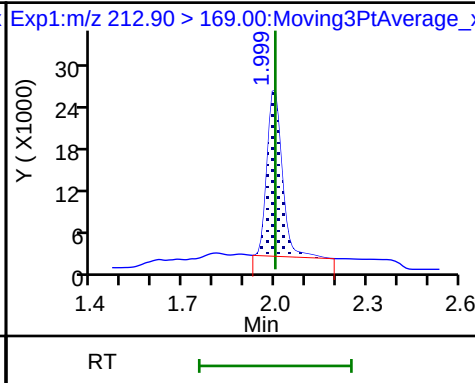
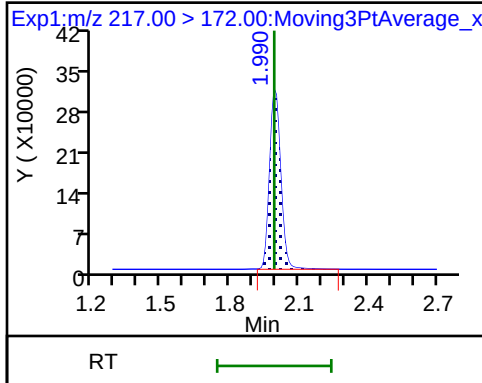
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

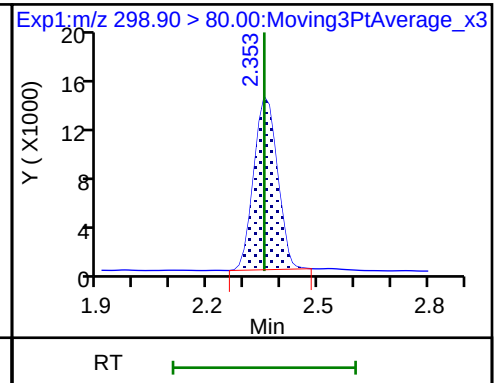
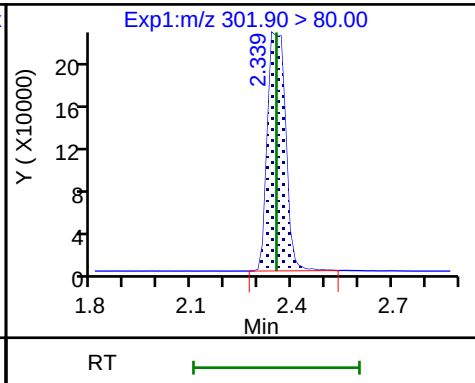
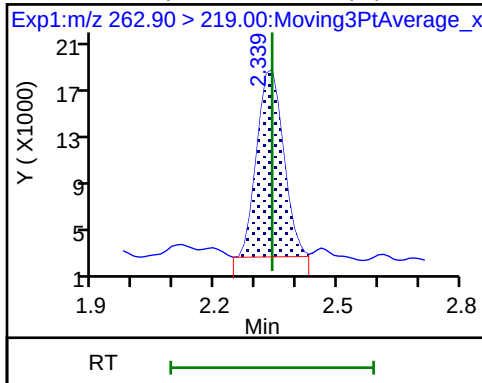
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

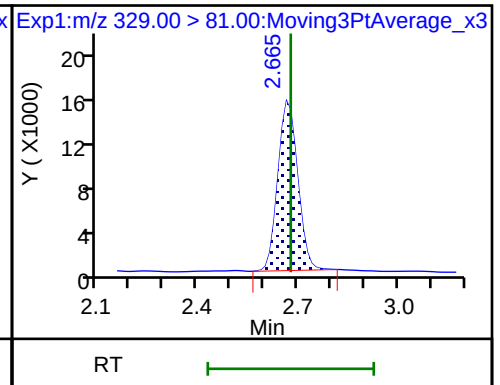
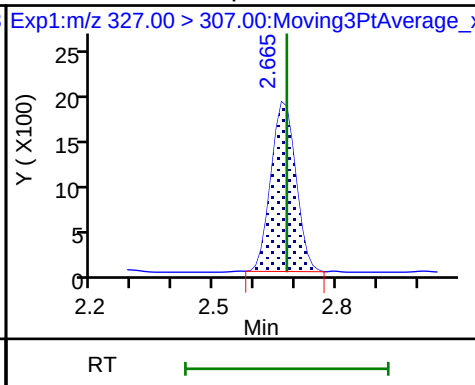
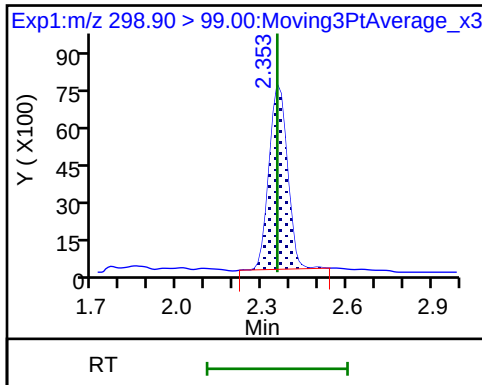
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

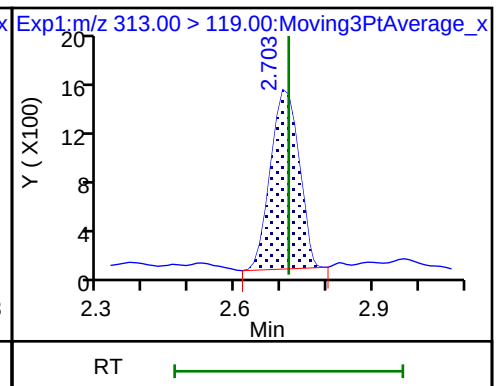
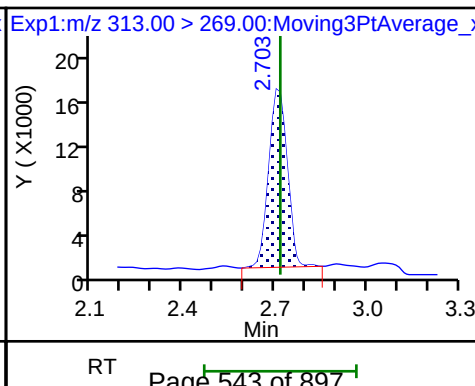
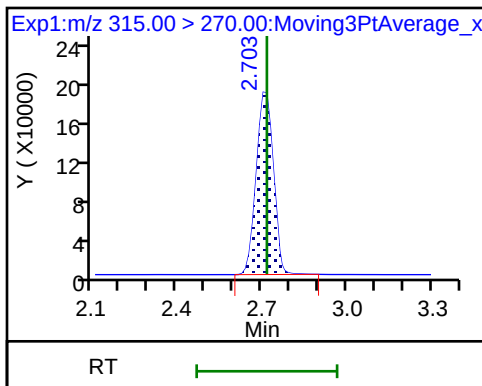
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

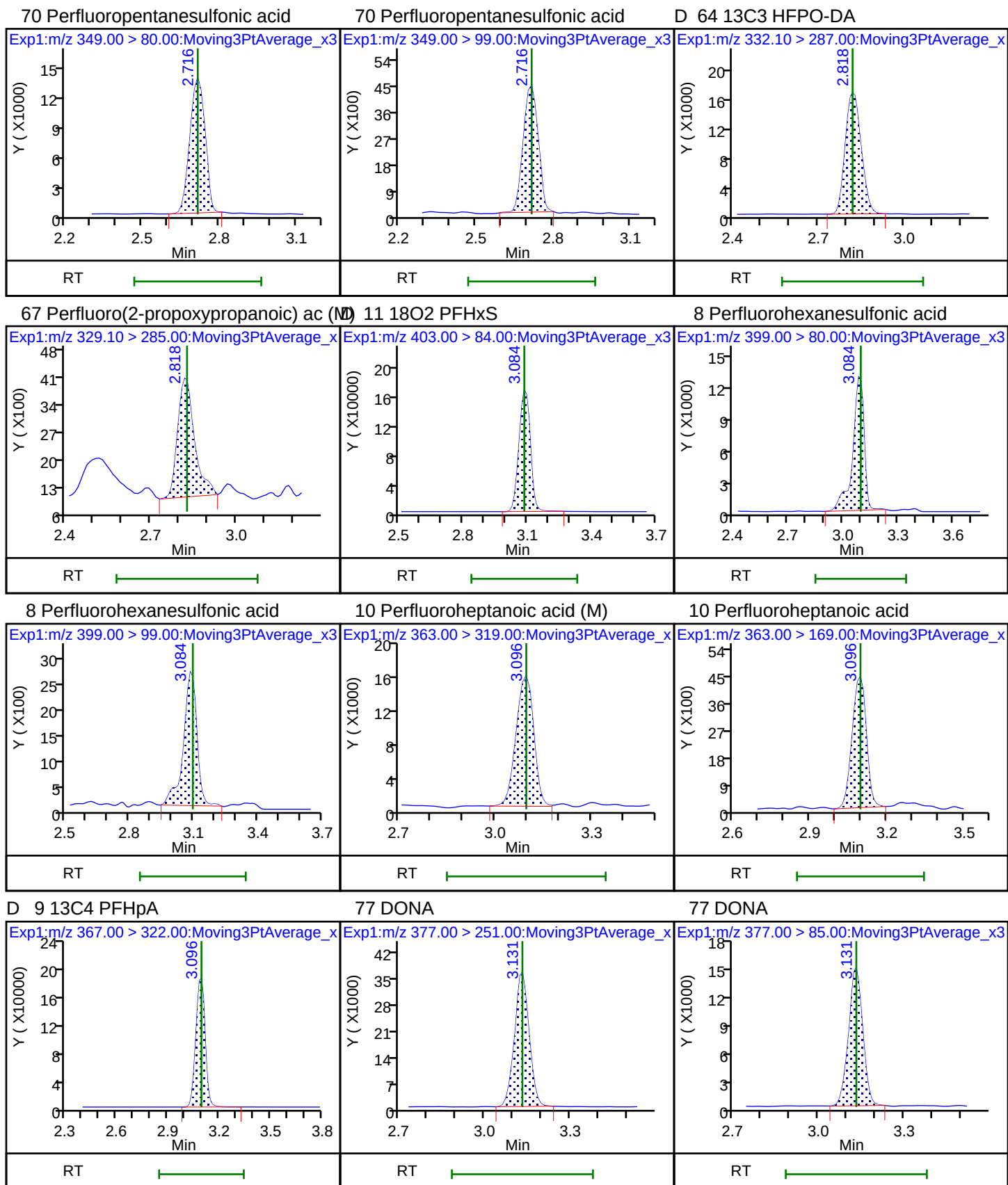


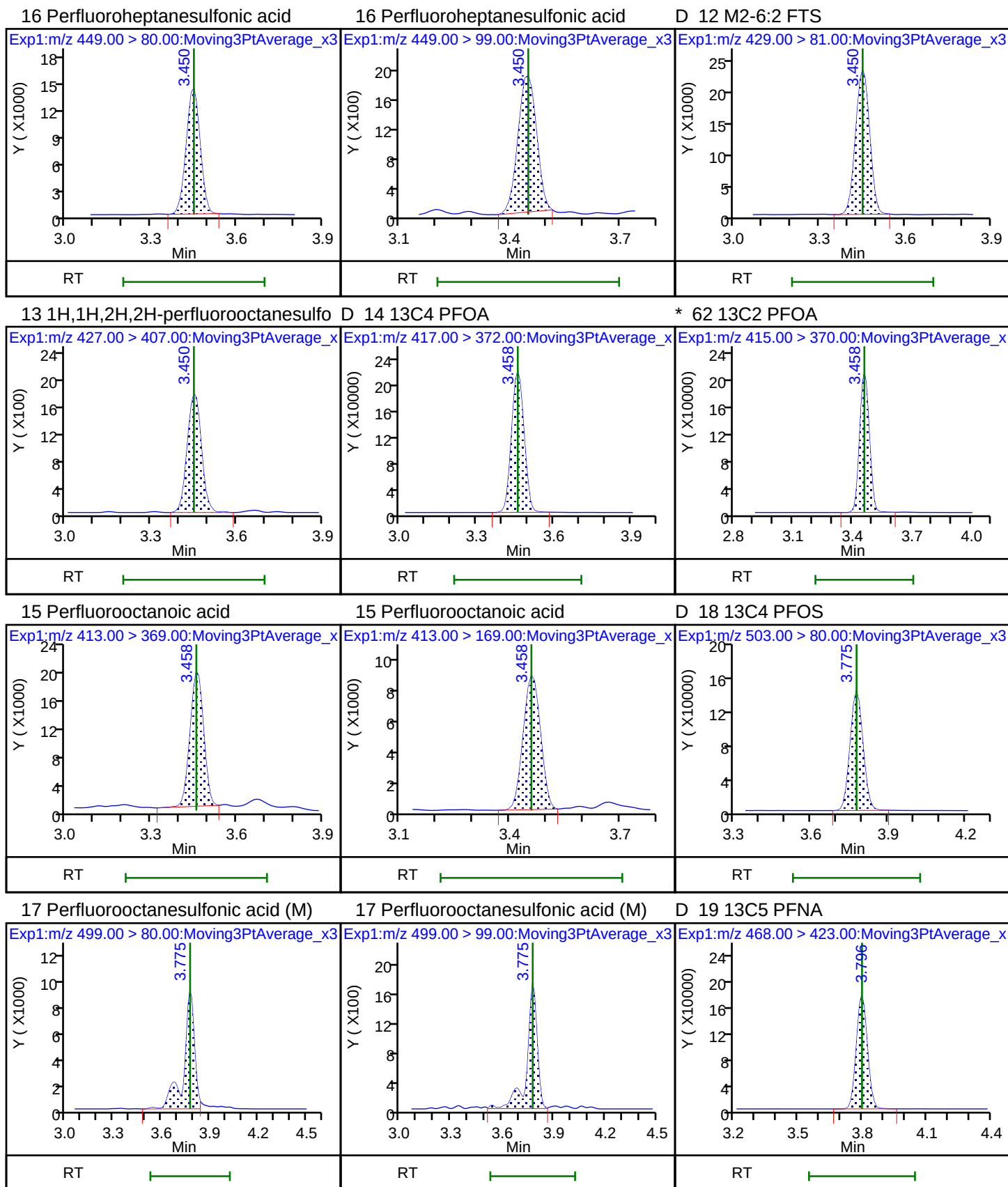
D 7 13C2 PFHxA

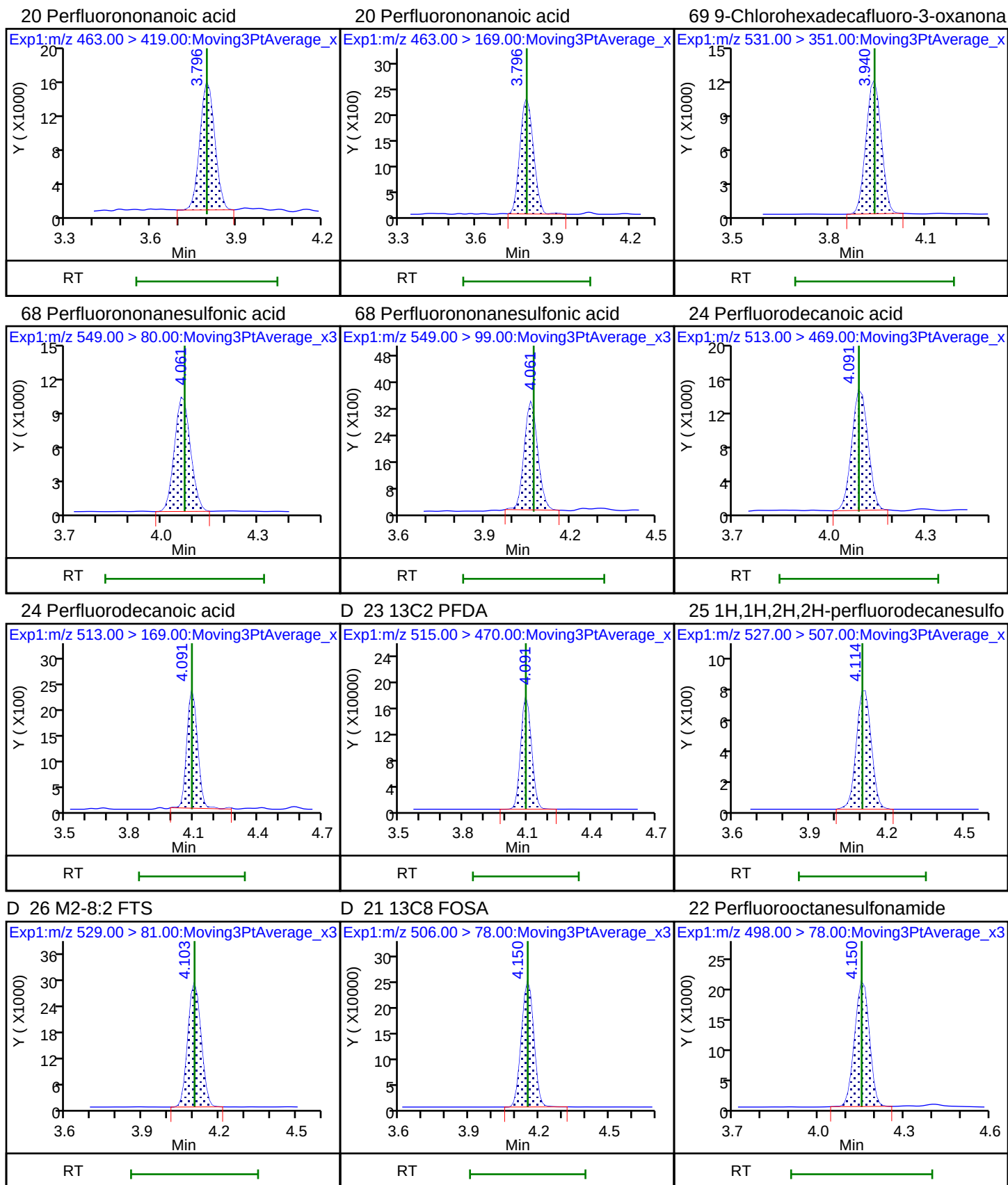
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





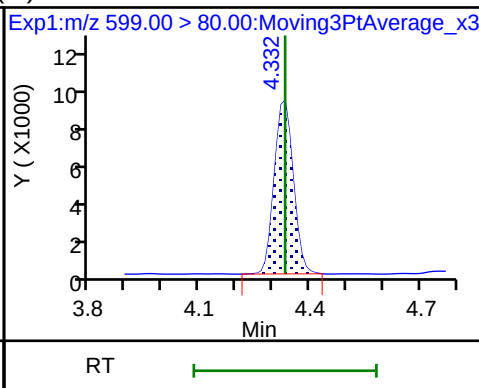
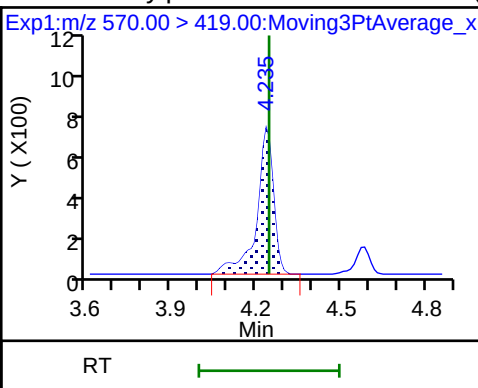
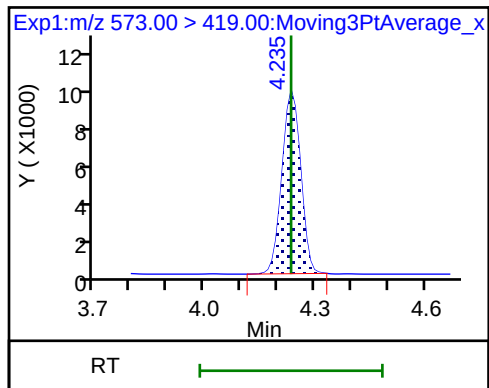




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M

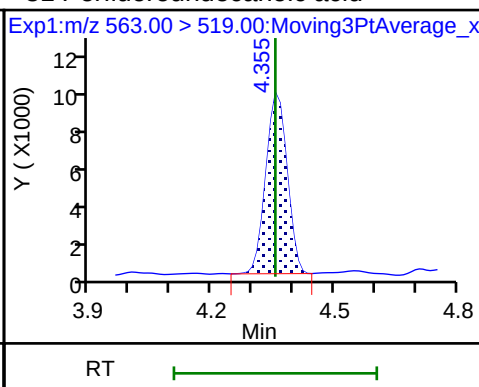
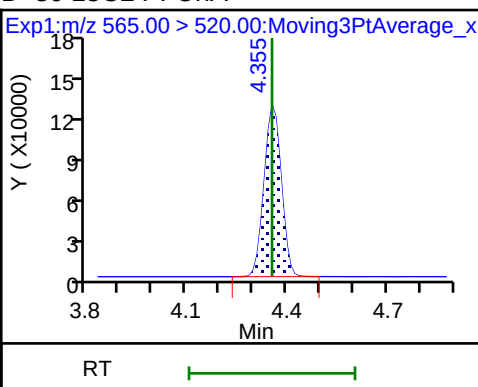
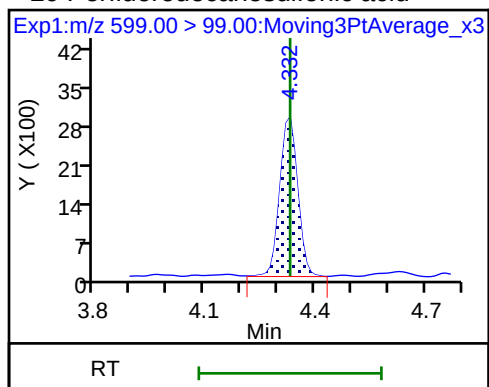
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

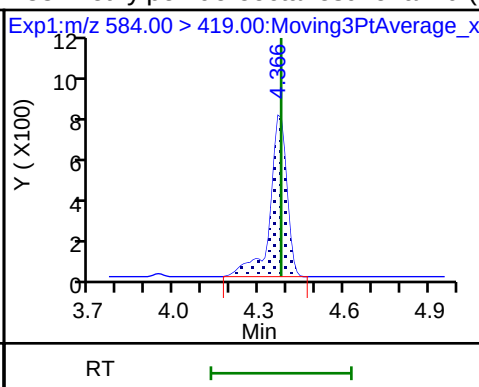
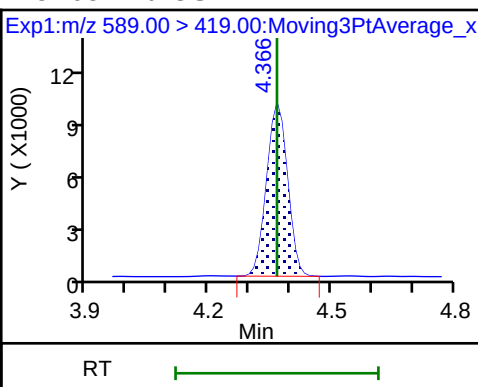
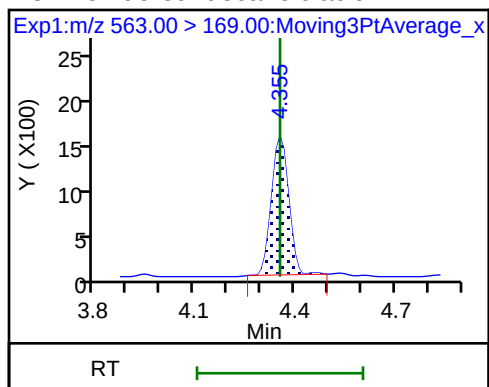
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

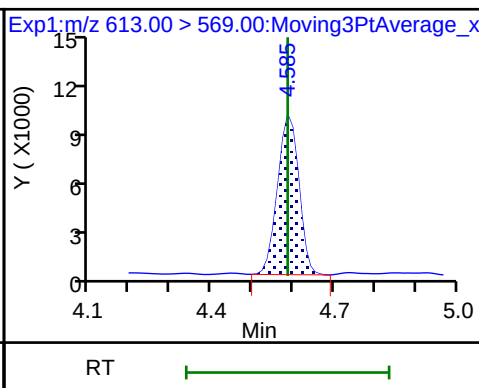
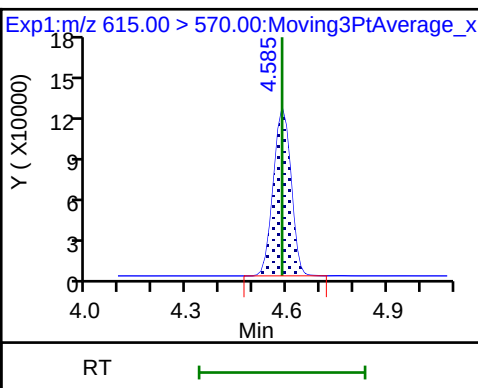
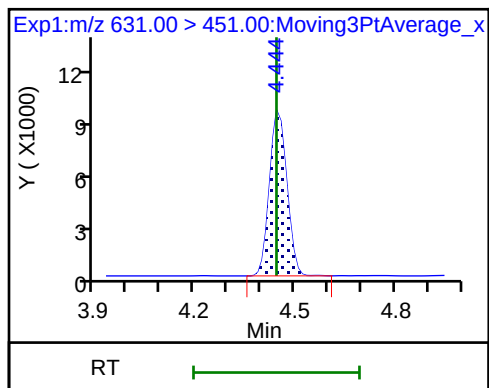
33 N-ethylperfluorooctanesulfonamid (M



66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

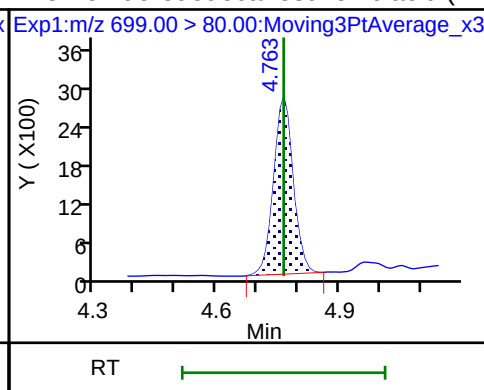
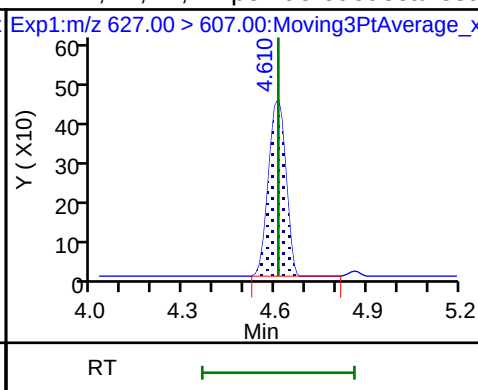
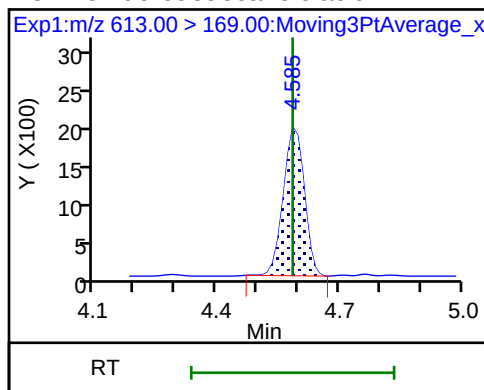
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

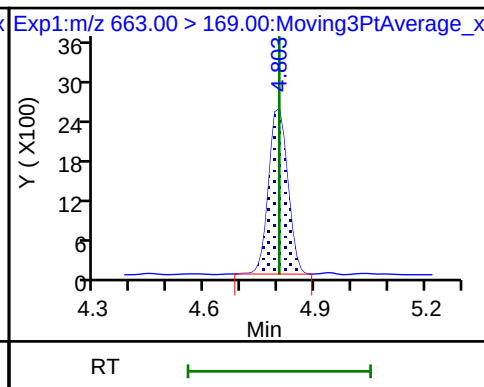
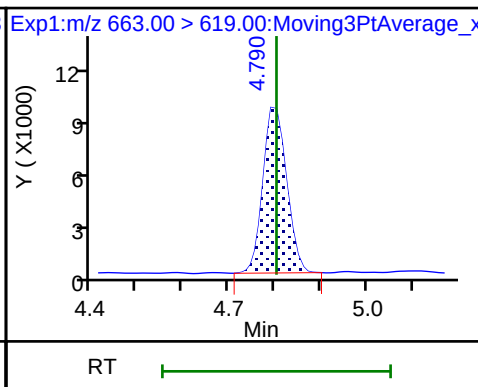
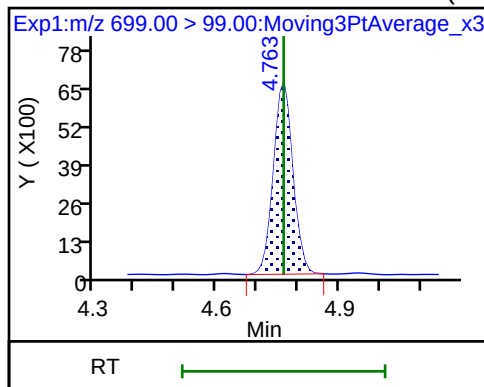
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

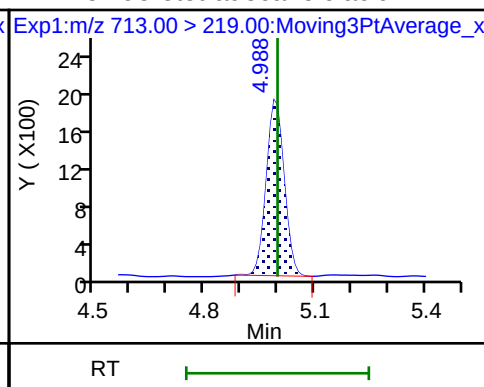
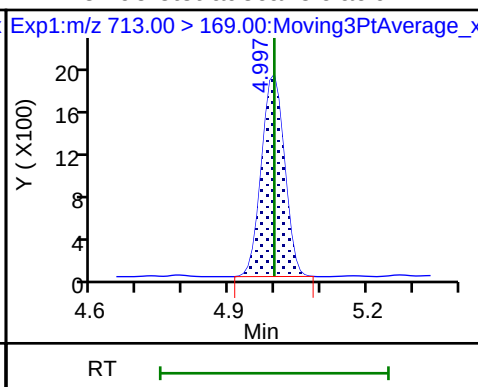
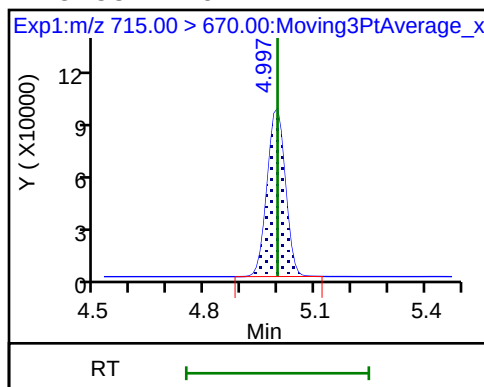
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

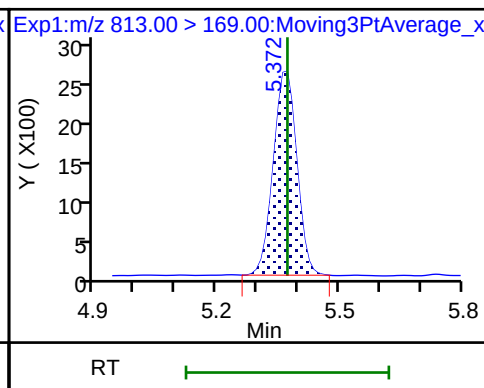
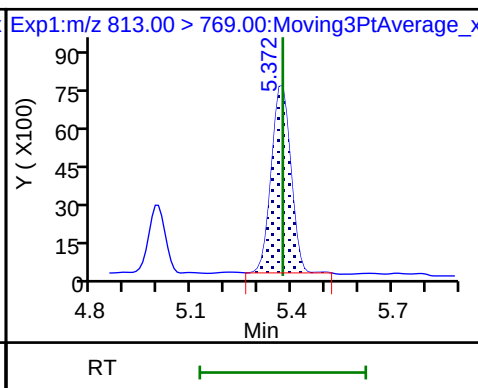
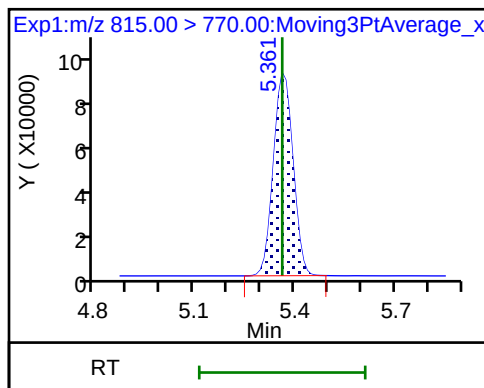
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

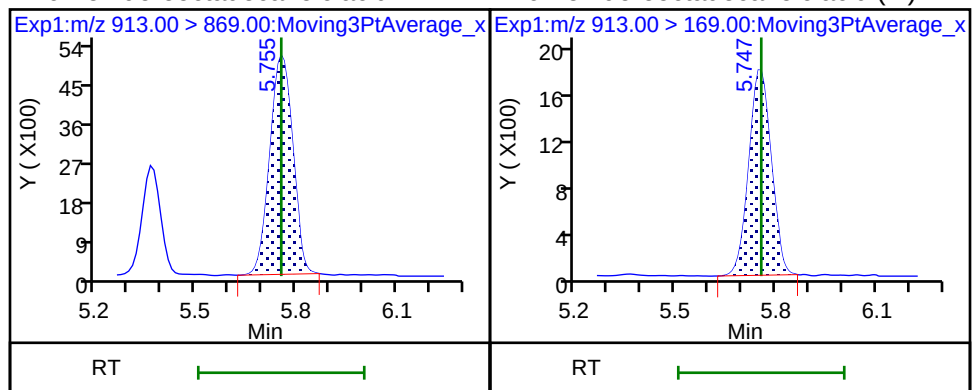
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d

Injection Date: 22-Sep-2020 19:38:46

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

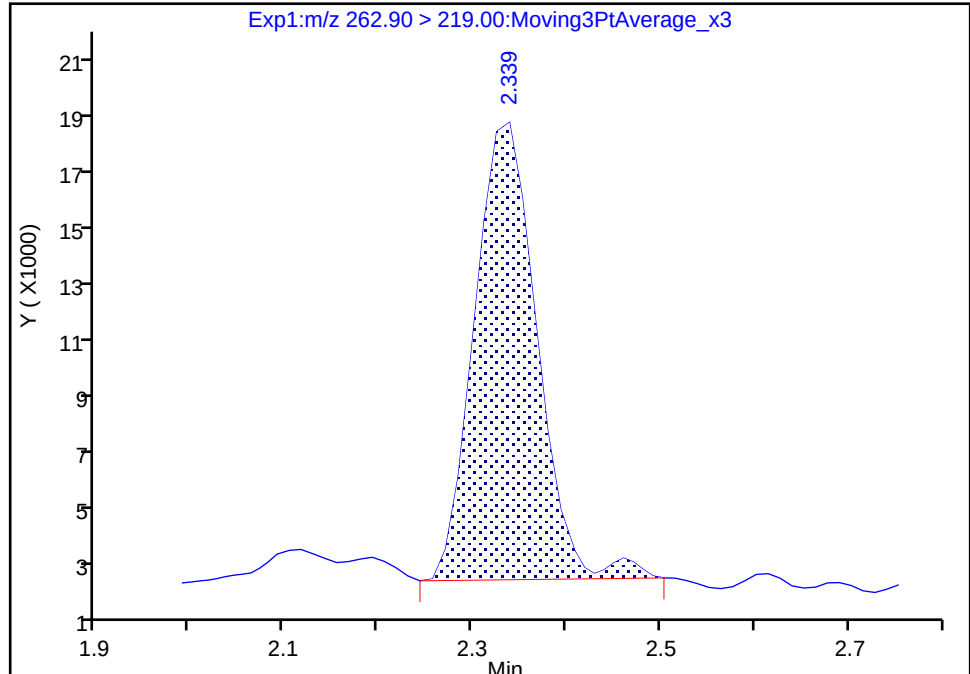
Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

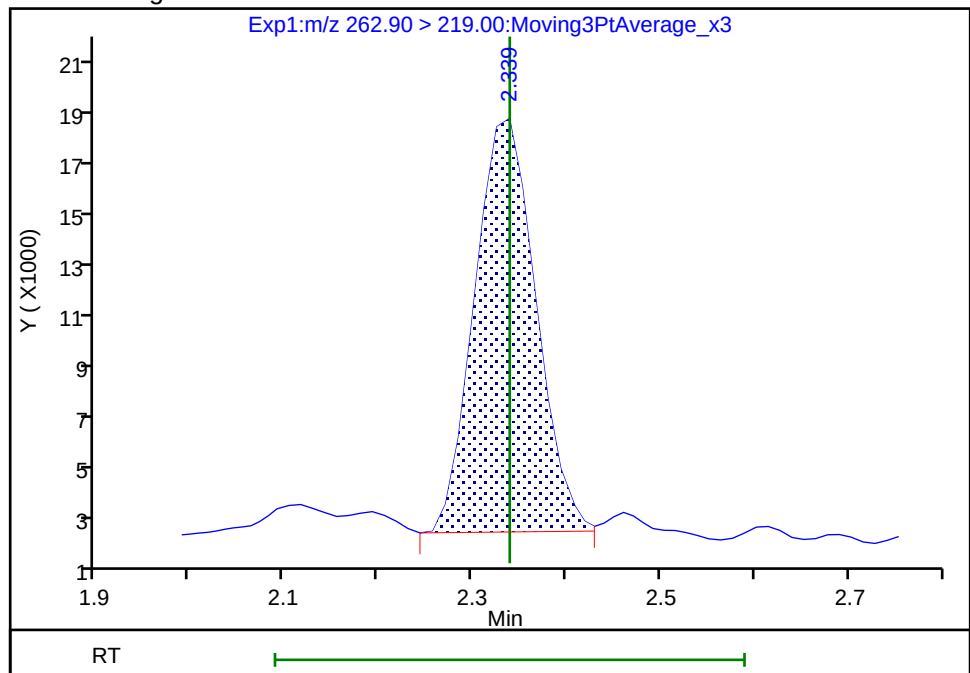
RT: 2.34
Area: 70137
Amount: 0.109677
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 68603
Amount: 0.107709
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:38:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d

Injection Date: 22-Sep-2020 19:38:46

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

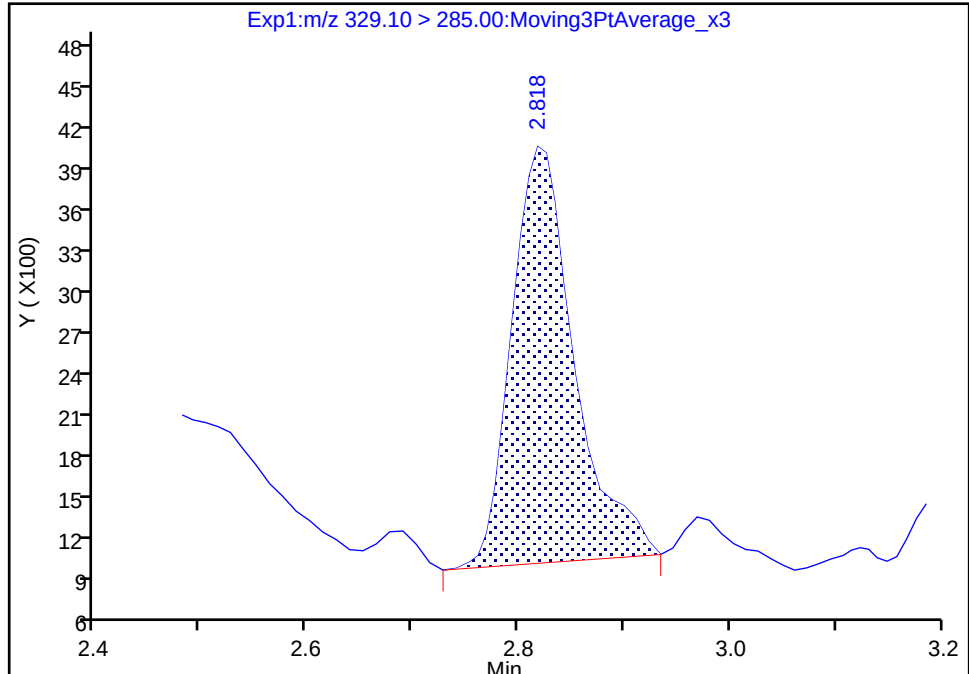
Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

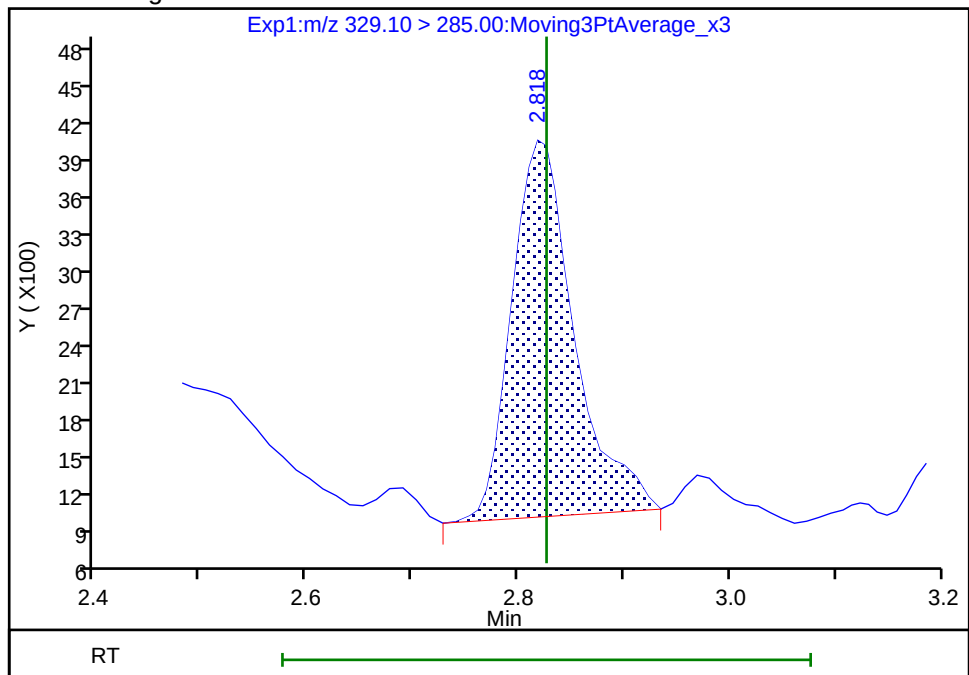
RT: 2.82
Area: 12283
Amount: 0.115225
Amount Units: ng/ml

Processing Integration Results



RT: 2.82
Area: 12283
Amount: 0.115119
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:54:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d

Injection Date: 22-Sep-2020 19:38:46

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

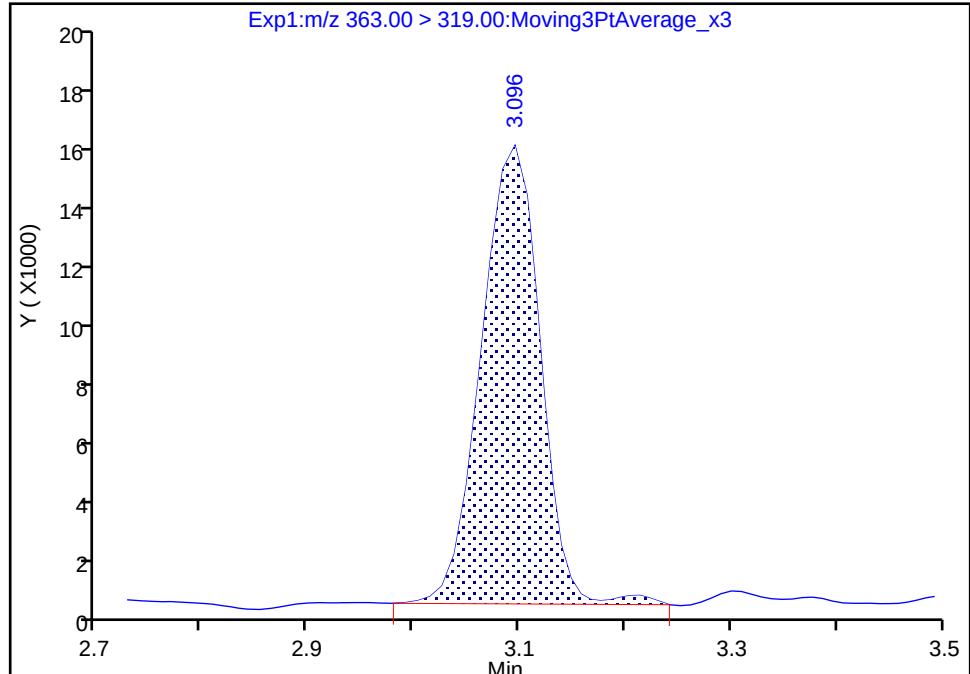
Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

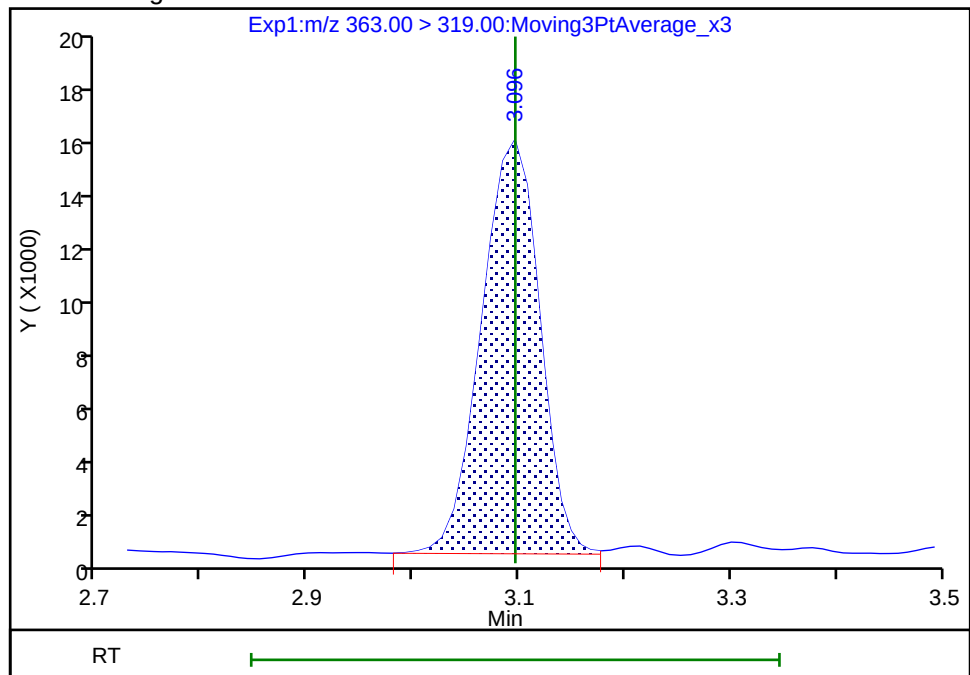
RT: 3.10
Area: 59358
Amount: 0.105269
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 58588
Amount: 0.104140
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:38:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

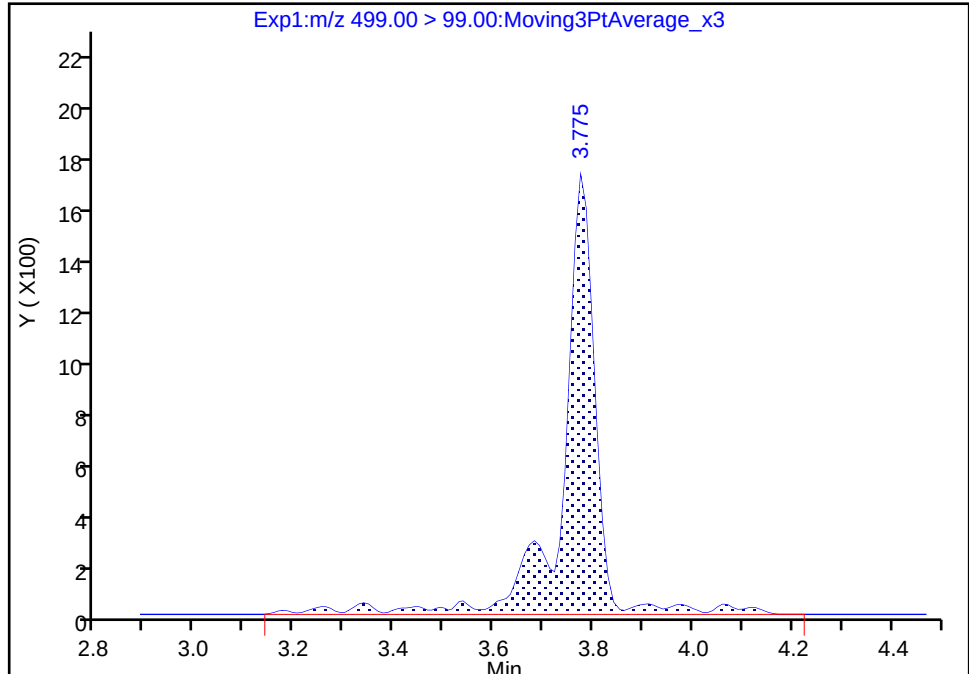
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

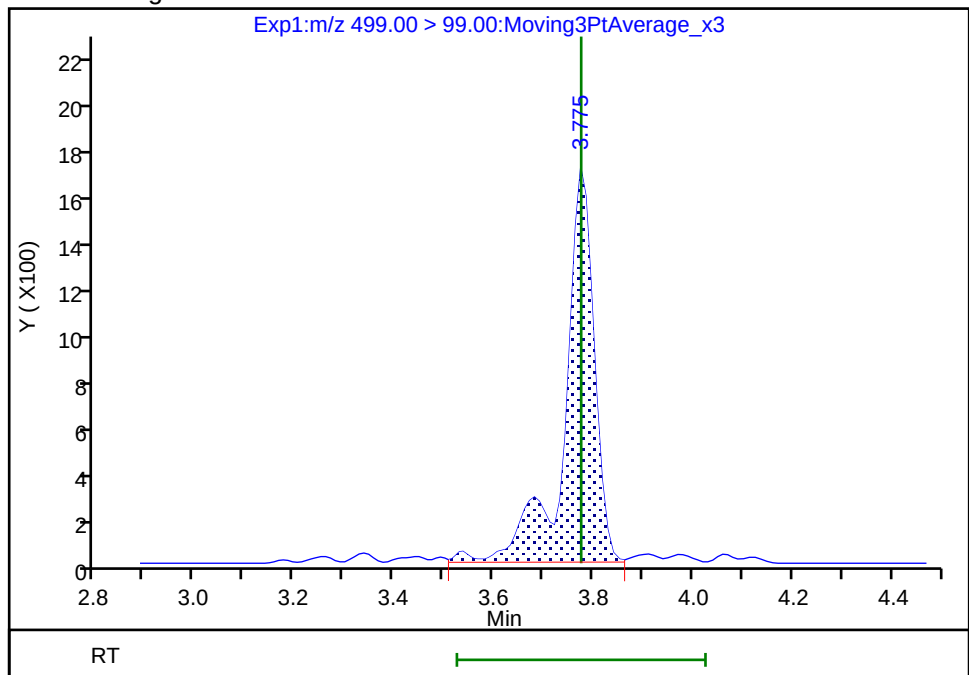
RT: 3.77
Area: 7865
Amount: 0.097640
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 6947
Amount: 0.093139
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

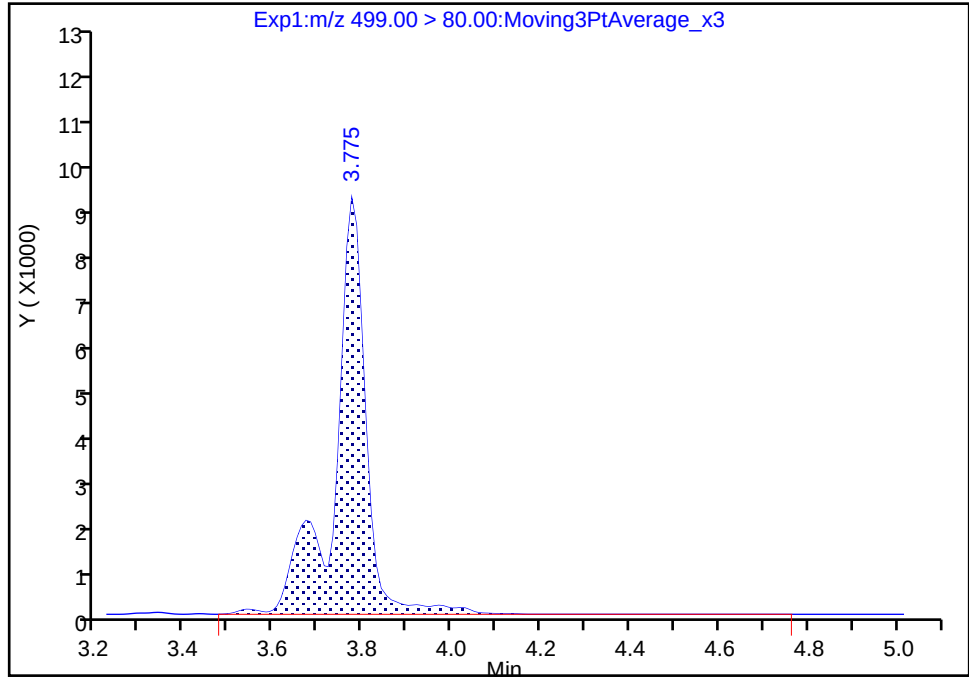
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

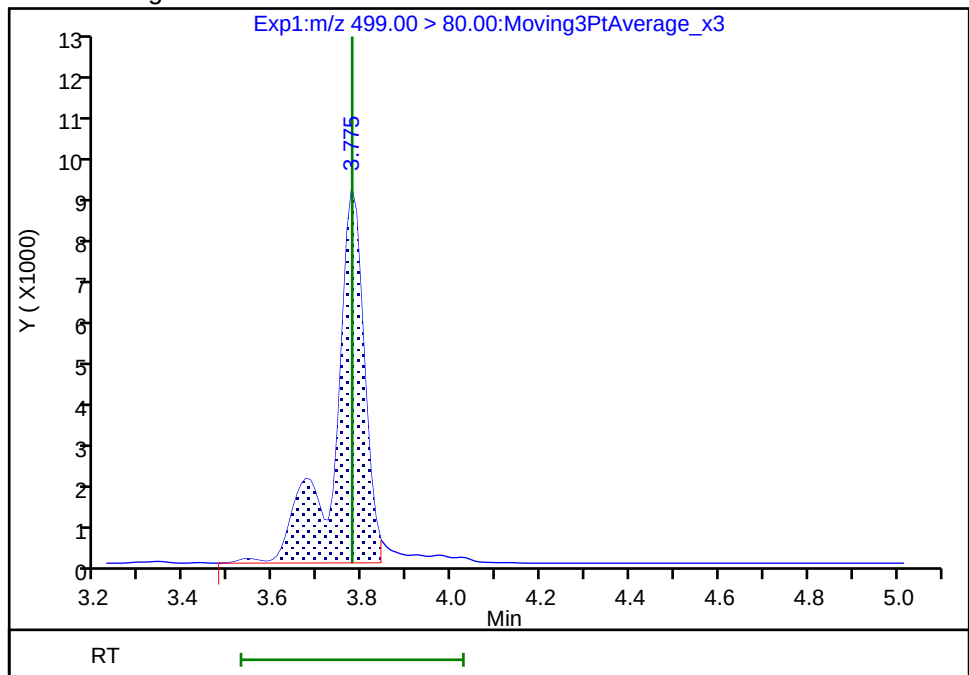
RT: 3.77
Area: 44731
Amount: 0.097640
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 41988
Amount: 0.093139
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:39:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

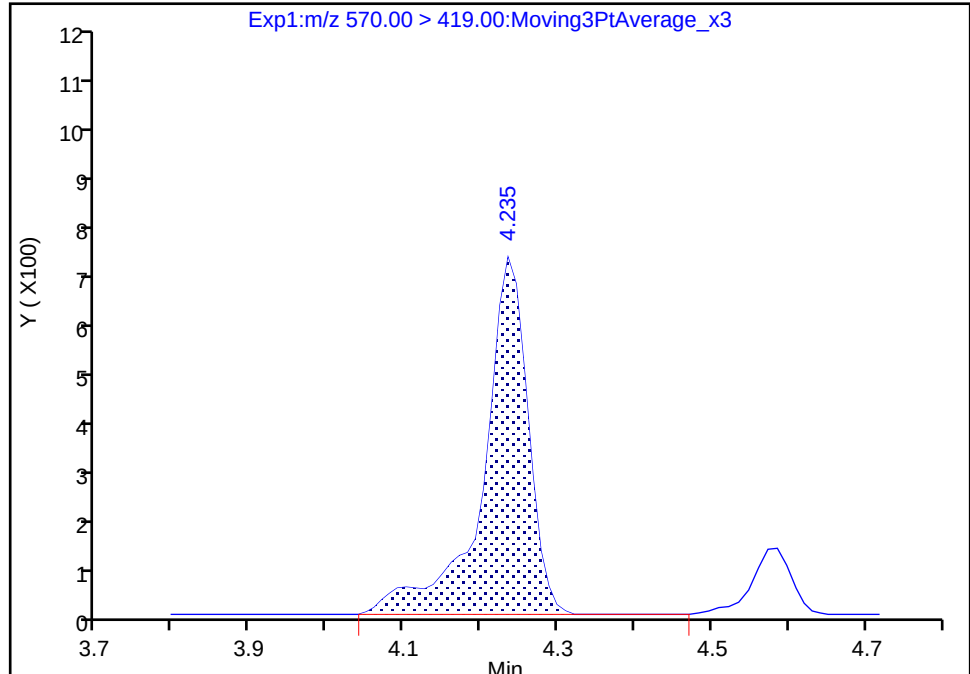
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

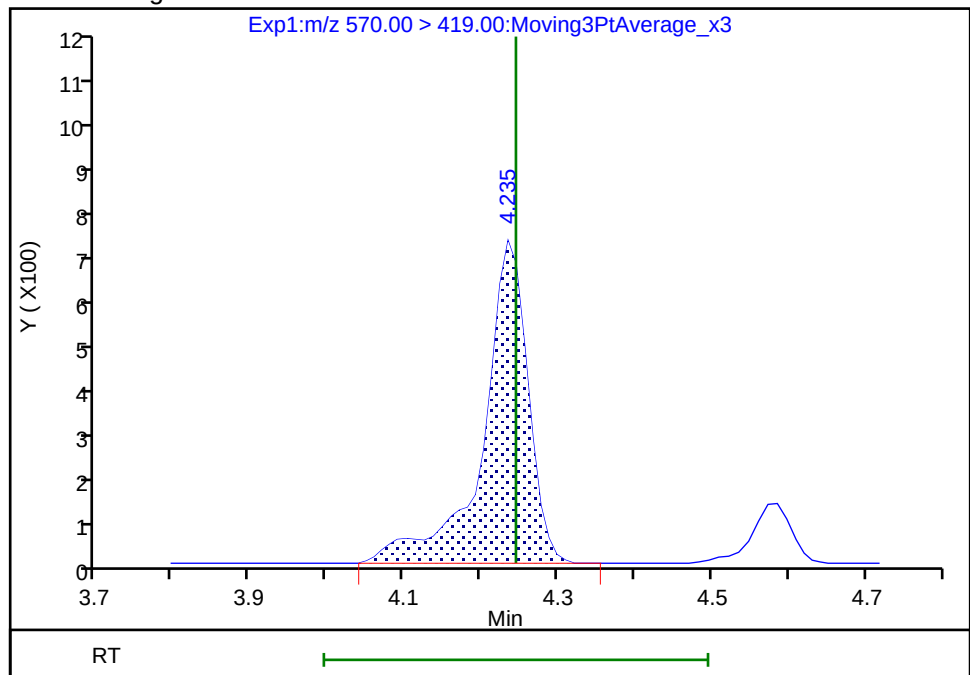
RT: 4.23
Area: 3014
Amount: 0.127203
Amount Units: ng/ml

Processing Integration Results



RT: 4.23
Area: 3014
Amount: 0.121435
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:39:50
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 555 of 897

Eurofins TestAmerica, Burlington

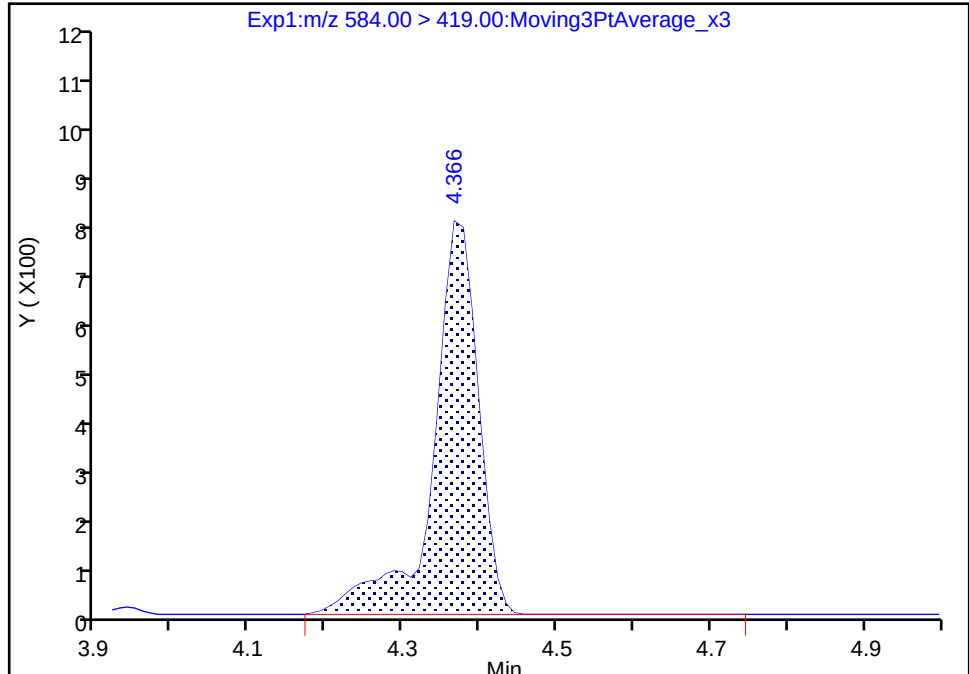
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

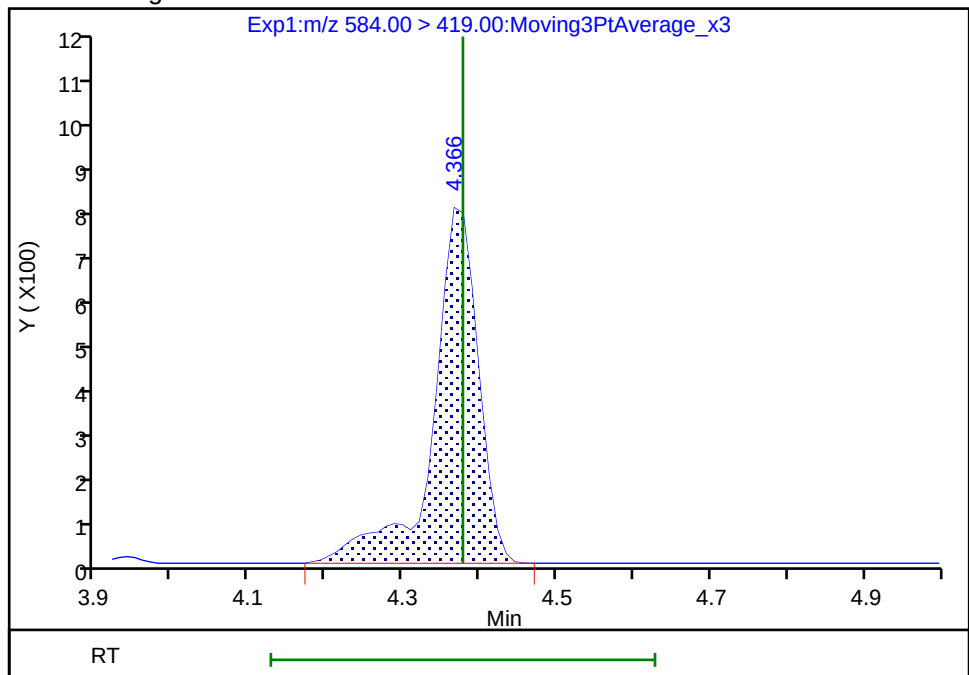
RT: 4.37
Area: 3309
Amount: 0.124640
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 3309
Amount: 0.125855
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:39:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d

Injection Date: 22-Sep-2020 19:38:46

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

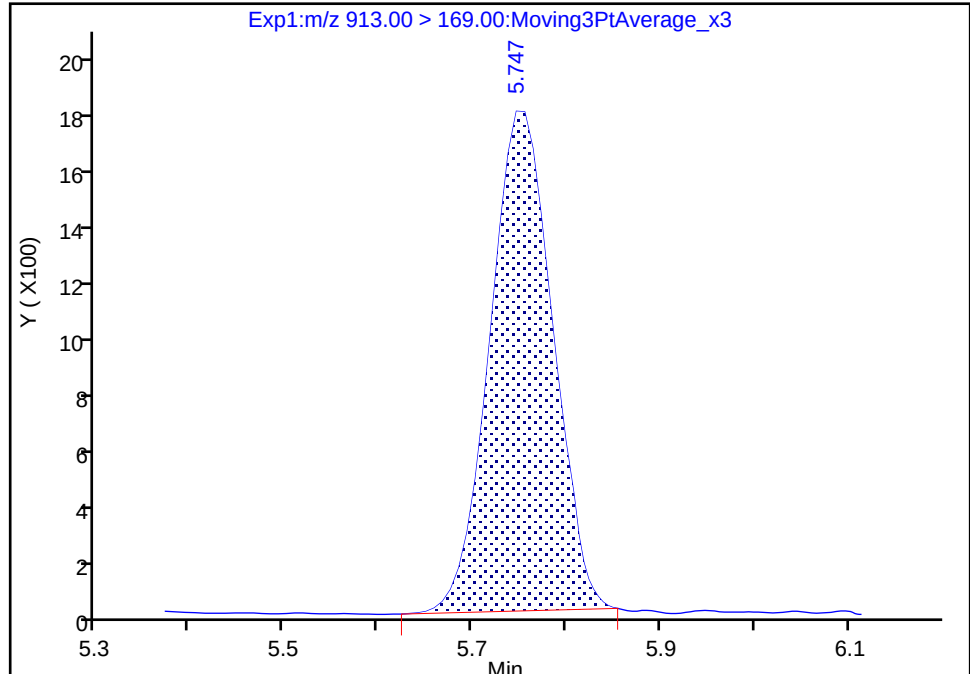
EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

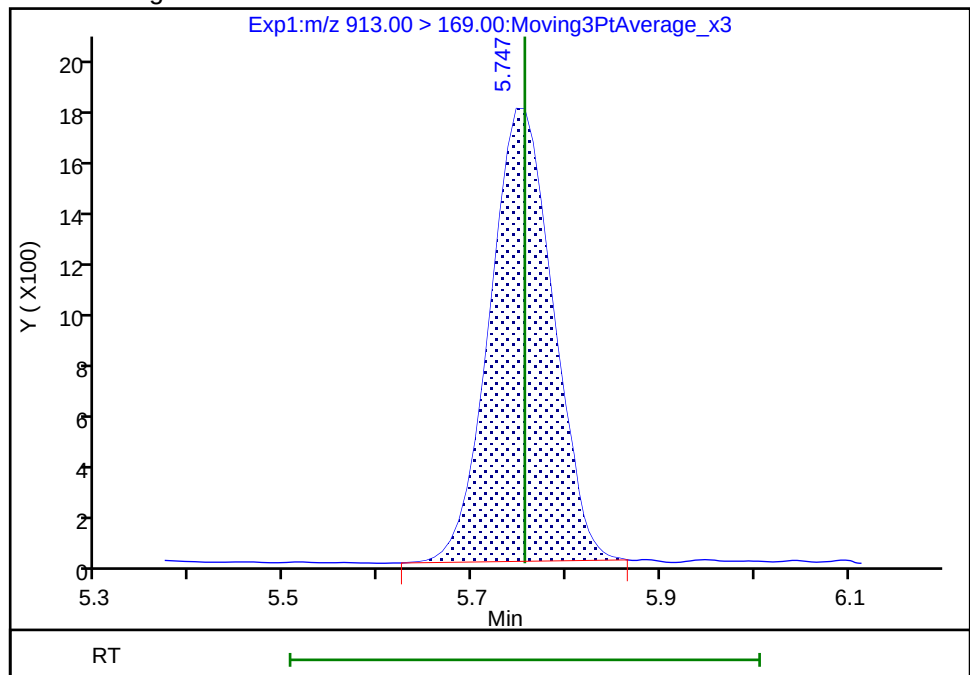
RT: 5.75
Area: 8149
Amount: 0.114284
Amount Units: ng/ml

Processing Integration Results



RT: 5.75
Area: 8210
Amount: 0.114284
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:40:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 3
 Inject. Date: 22-Sep-2020 19:47:05 ALS Bottle#: 4 Worklist Smp#: 7
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0042904-007 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 23-Sep-2020 10:27:07 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1050

First Level Reviewer: chirgwinb

Date: 23-Sep-2020 09:34:09

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.000	1.990	0.010	0.577	1056932	1.19		95.5	7237	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.000	2.000	0.0	1.000	365041	0.4619		92.4	57.2	
D 3 13C5 PFPeA										
267.90 > 223.00	2.339	2.339	0.0	0.675	781757	1.23		98.5	3590	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.339	2.339	0.0	1.000	308001	0.4663		93.3	18.7	
D 47 13C3 PFBS										
301.90 > 80.00	2.367	2.353	0.014	0.683	835513	1.08		93.0	243709	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.367	2.353	0.014	1.000	327034	0.4567	Target=1.99	103	949	
298.90 > 99.00	2.367	2.353	0.014	1.000	152327		2.15(1.00-2.99)	103	219	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.678	2.678	0.0	1.000	41137	0.4672		100	1073	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.678	2.678	0.0	0.772	63606	1.10		93.8	164	
D 7 13C2 PFHxA										
315.00 > 270.00	2.716	2.716	0.0	0.783	788477	1.21		96.5	3041	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.716	2.716	0.0	1.000	290233	0.4569	Target=11.58	91.4	127	
313.00 > 119.00	2.716	2.716	0.0	1.000	24949		11.63(5.79-17.37)	91.4	76.4	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.877	287082	0.4963	Target=3.36	106	1172	
349.00 > 99.00	2.716	2.716	0.0	0.877	83933		3.42(1.68-5.05)	106	443	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.826	2.818	0.008	0.815	66748	1.10		87.7	783	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.826	2.826	0.0	1.000	55438	0.4879		97.6	13.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.096	3.084	0.012	0.893	577663	1.04		88.1	2927	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.096	3.096	0.0	1.000	243221	0.4508	Target=4.59	99.1	719	
399.00 > 99.00	3.096	3.096	0.0	1.000	53241		4.57(2.29-6.88)	99.1	135	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.096	3.096	0.0	1.000	276267	0.4727	Target=3.29	94.5	151	
363.00 > 169.00	3.096	3.096	0.0	1.000	82743		3.34(1.65-4.94)	94.5	398	
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.096	0.0	0.893	729002	1.23		98.1	3452	
77 DONA										
377.00 > 251.00	3.131	3.132	-0.001	0.830	603498	0.4587	Target=2.40	97.4	1529	
377.00 > 85.00	3.131	3.132	-0.001	0.830	250271		2.41(1.20-3.60)	97.4	662	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.450	3.450	0.0	0.914	225184	0.4552	Target=6.94	95.6	1508	
449.00 > 99.00	3.450	3.450	0.0	0.914	32488		6.93(3.47-10.41)	95.6	416	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.458	3.450	0.008	0.998	82305	1.11		93.5	685	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.450	3.450	0.0	0.997	25048	0.4528		95.5	459	
D 14 13C4 PFOA										
417.00 > 372.00	3.467	3.458	0.009	1.000	731192	1.20		96.1	3050	
* 62 13C2 PFOA										
415.00 > 370.00	3.467	3.458	0.009		772500	1.25			2064	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.467	3.458	0.009	1.000	283046	0.4687	Target=2.26	93.7	134	
413.00 > 169.00	3.467	3.458	0.009	1.000	131310		2.16(1.13-3.38)	93.7	378	
D 18 13C4 PFOS										
503.00 > 80.00	3.775	3.776	-0.001	1.089	510243	1.12		94.1	2064	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.785	3.776	0.009	1.003	200516	0.4321	Target=6.66	93.1	468	M
499.00 > 99.00	3.775	3.776	-0.001	1.000	29384		6.82(3.33-9.99)	93.1	239	M
D 19 13C5 PFNA										
468.00 > 423.00	3.796	3.797	-0.001	1.095	630136	1.23		98.3	4361	
20 Perfluorononanoic acid										
463.00 > 419.00	3.796	3.797	-0.001	1.000	230931	0.4498	Target=6.07	90.0	89.8	
463.00 > 169.00	3.796	3.797	-0.001	1.000	41583		5.55(3.03-9.10)	90.0	632	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.940	3.941	-0.001	1.044	189704	0.4646		99.7	1877	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.071	4.072	-0.001	1.078	166030	0.4528	Target=3.49	94.3	1579	
549.00 > 99.00	4.071	4.072	-0.001	1.078	50294		3.30(1.75-5.24)	94.3	324	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.103	4.092	0.011	1.000	209970	0.4618	Target=6.79	92.4	319	
513.00 > 169.00	4.103	4.092	0.011	1.000	30367		6.91(3.39-10.18)	92.4	348	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.103	4.092	0.011	1.183	574488	1.17		93.5	5254	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.103	4.103	0.0	1.000	16715	0.4957		103	519	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.103	4.103	0.0	1.183	102015	1.17		97.6	1108	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.151	-0.001	1.197	926529	1.17		93.6	3217	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.161	4.151	0.010	1.003	330389	0.4768		95.4	728	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.222	35476	1.27		101	269	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.246	4.245	0.001	1.002	11937	0.4457		89.1	122	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.332	0.0	1.148	144034	0.4695	Target=3.11	97.4	918	
599.00 > 99.00	4.332	4.332	0.0	1.148	45085		3.19(1.55-4.66)	97.4	401	
D 30 13C2 PFUnA										
565.00 > 520.00	4.366	4.355	0.011	1.259	443846	1.20		95.7	3640	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.366	4.355	0.011	1.000	169269	0.4833	Target=6.33	96.7	224	
563.00 > 169.00	4.366	4.355	0.011	1.000	25641		6.60(3.17-9.50)	96.7	553	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.259	37925	1.26		101	804	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.378	4.378	0.0	1.003	11209	0.4035		80.7	216	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.457	4.444	0.013	1.181	162373	0.4610		97.9	3138	
D 36 13C2 PFDaA										
615.00 > 570.00	4.598	4.585	0.013	1.326	466792	1.19		95.2	3747	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.598	4.585	0.013	1.000	180494	0.4956	Target=5.23	99.1	170	
613.00 > 169.00	4.586	4.585	0.001	0.997	34474		5.24(2.62-7.85)	99.1	862	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.610	4.610	0.0	1.124	9351	0.4991		104	321	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.763	4.763	0.0	1.262	42682	0.4335	Target=0.47	89.6	121	
699.00 > 99.00	4.763	4.763	0.0	1.262	96210		0.44(0.23-0.70)	89.6	955	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.803	4.802	0.001	1.045	161376	0.5218	Target=3.57	104	103	
663.00 > 169.00	4.803	4.802	0.001	1.045	40764		3.96(1.78-5.35)	104	1103	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.442	323465	1.16		92.6	4437	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	27765	0.4684	Target=1.07	93.7	606	
713.00 > 219.00	4.998	4.998	0.0	1.000	27946		0.99(0.54-1.61)	93.7	1040	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

D 44 13C2 PFHxDA

815.00 > 770.00	5.372	5.361	0.011	1.550	368871	1.16		93.2	3676	

45 Perfluorohexadecanoic acid

813.00 > 769.00	5.372	5.372	0.0	1.000	136875	0.5104	Target=3.00	102	103	

813.00 > 169.00	5.372	5.372	0.0	1.000	46280		2.96(1.50-4.49)	102	1183	

46 Perfluorooctadecanoic acid

913.00 > 869.00	5.756	5.756	0.0	1.071	112069	0.5082	Target=2.88	102	120	

913.00 > 169.00	5.756	5.756	0.0	1.071	39425		2.84(1.44-4.32)	102	837	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC3_00007

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d

Injection Date: 22-Sep-2020 19:47:05

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

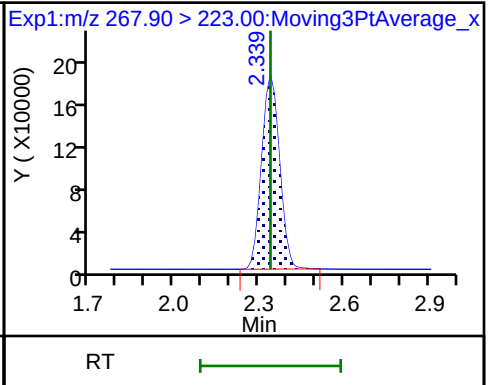
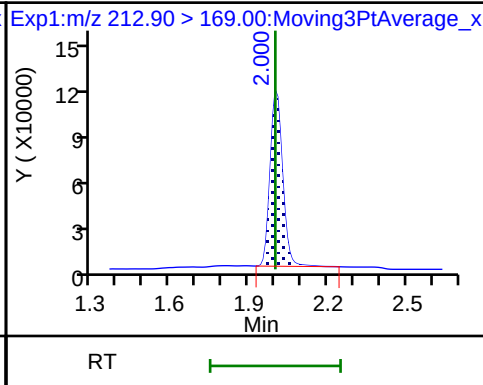
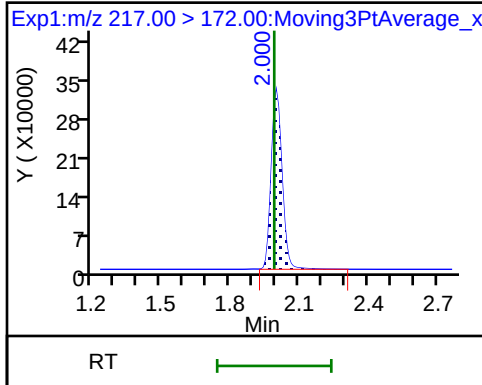
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

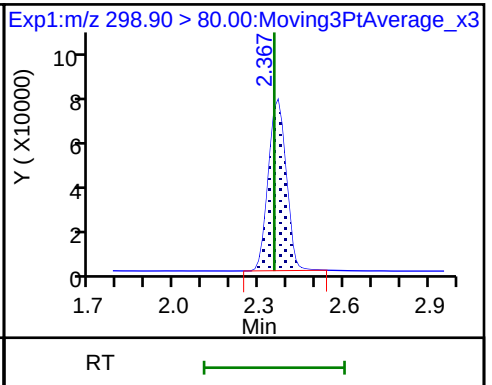
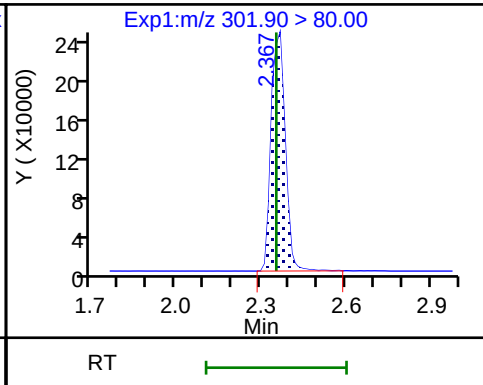
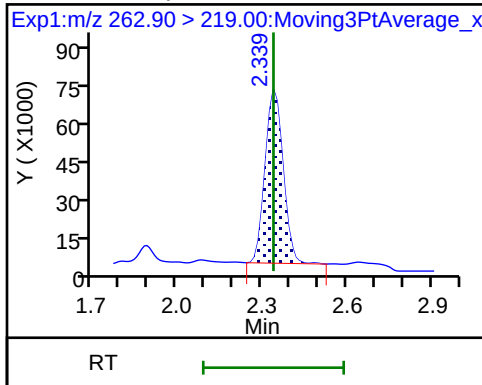
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

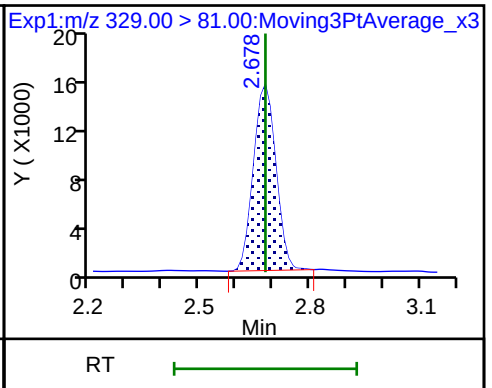
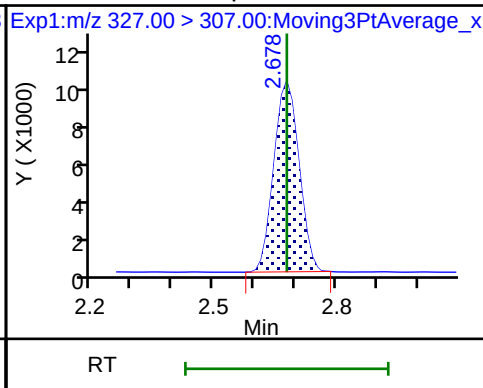
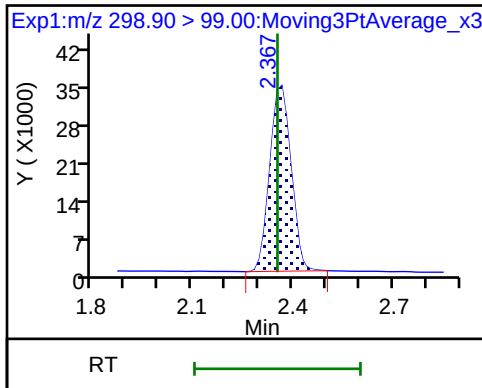
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

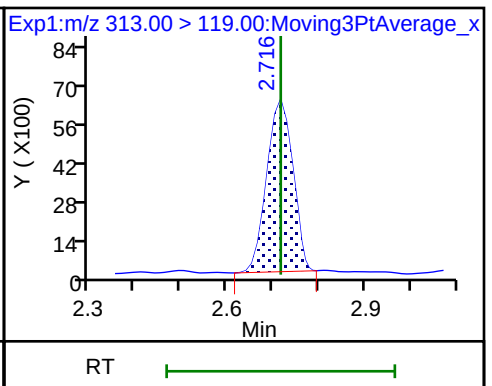
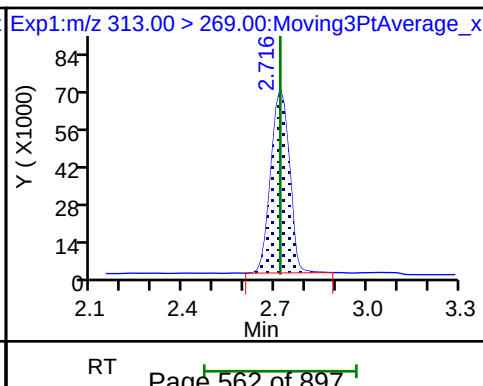
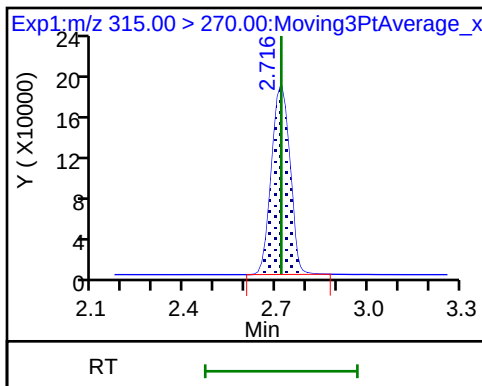
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

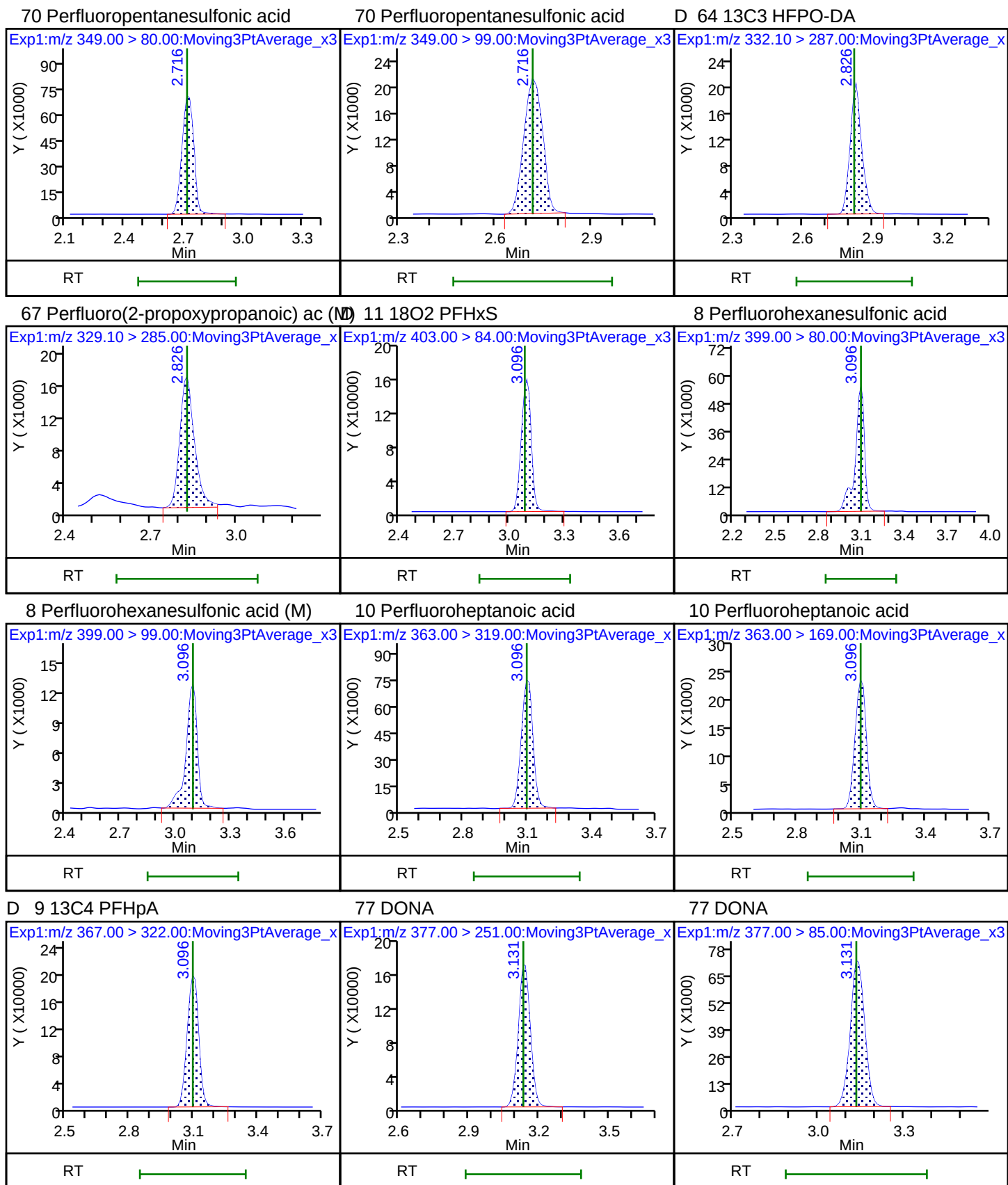


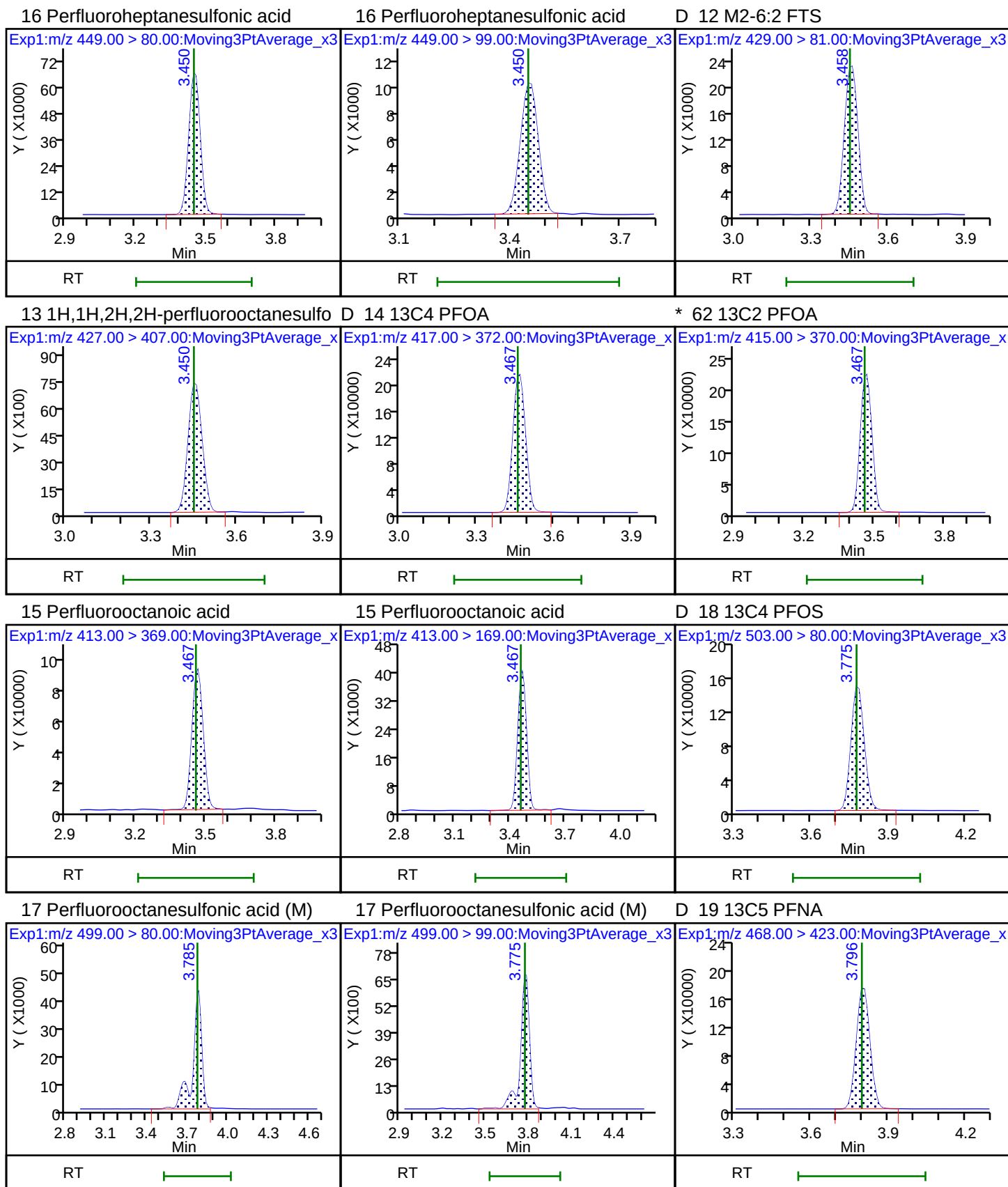
D 7 13C2 PFHxA

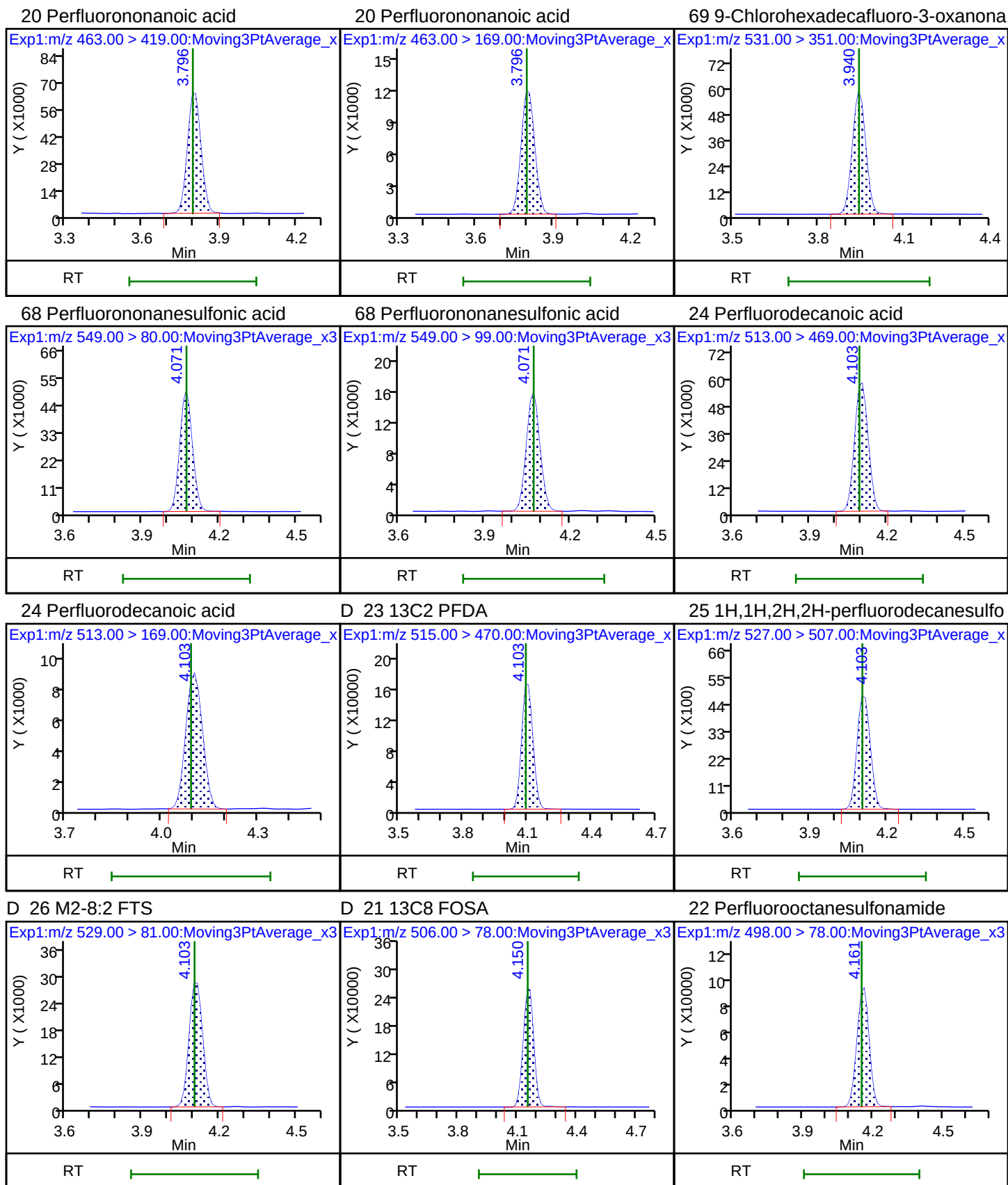
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





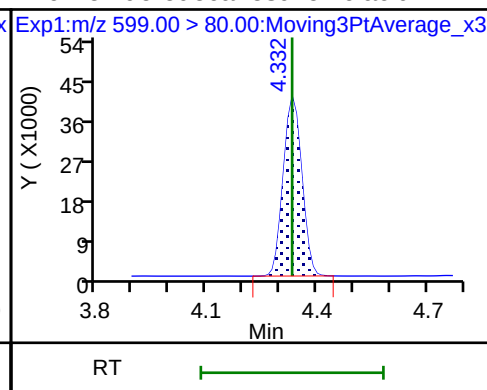
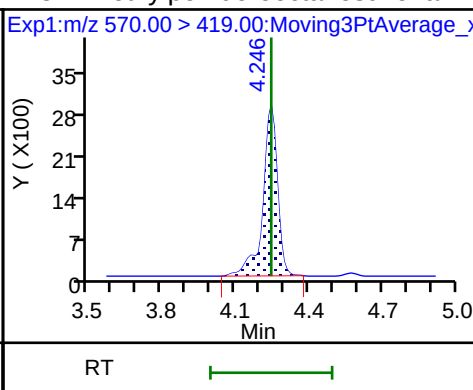
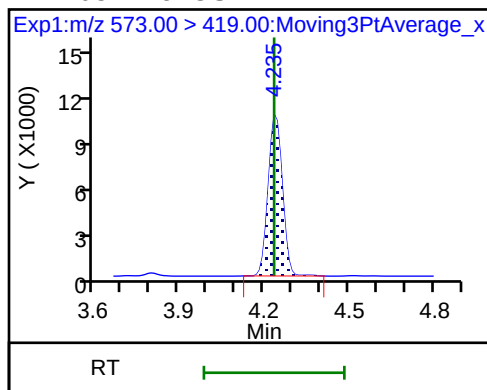




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

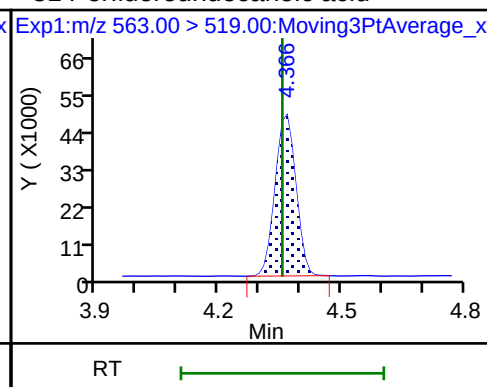
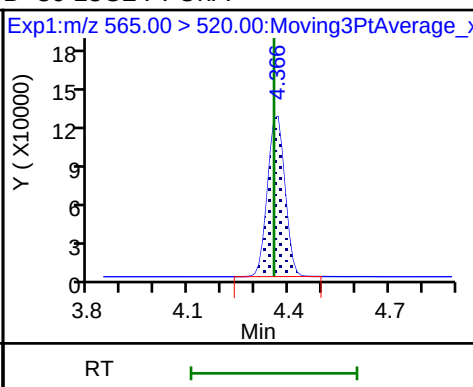
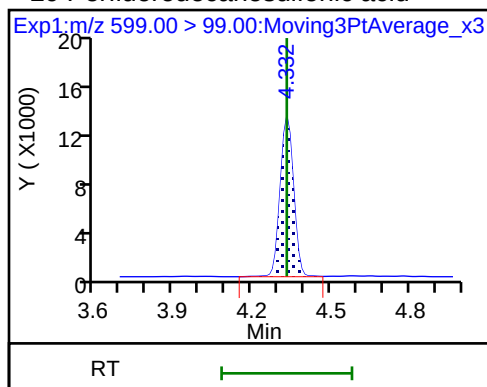
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

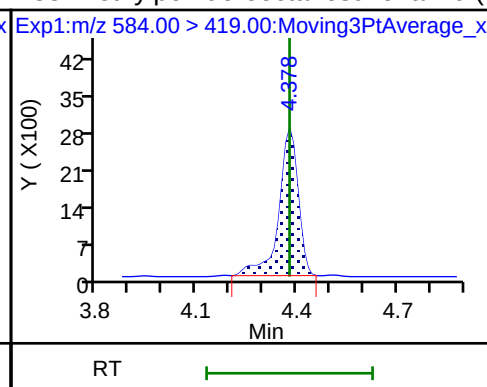
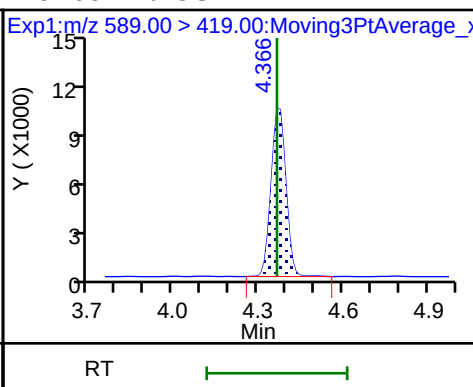
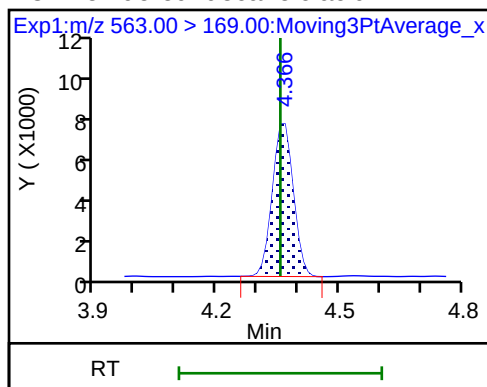
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

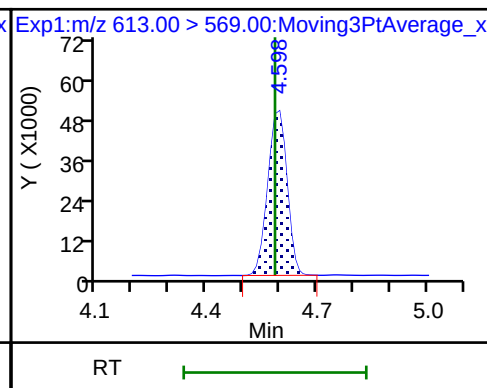
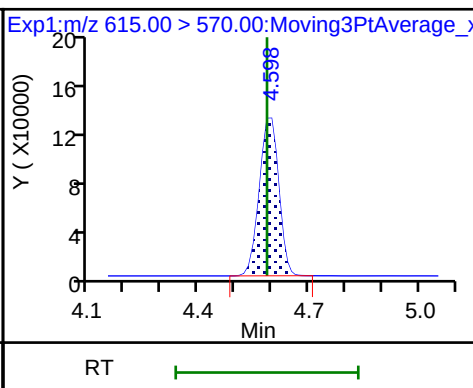
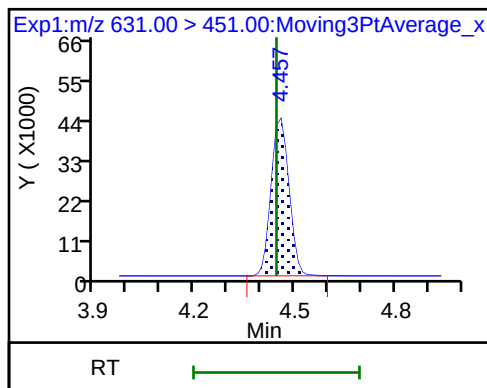
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

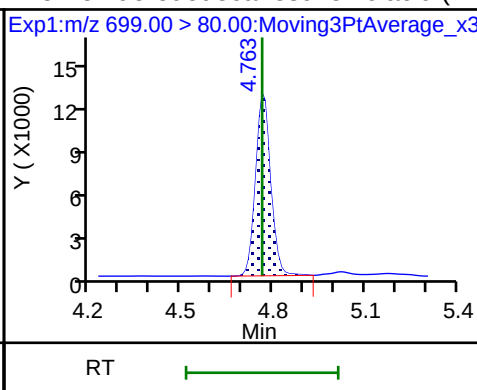
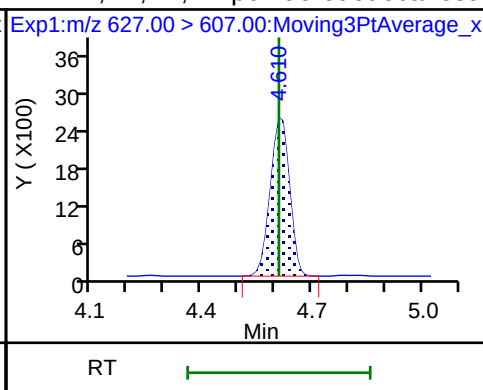
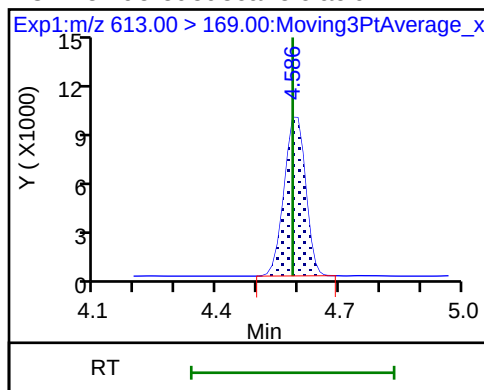
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

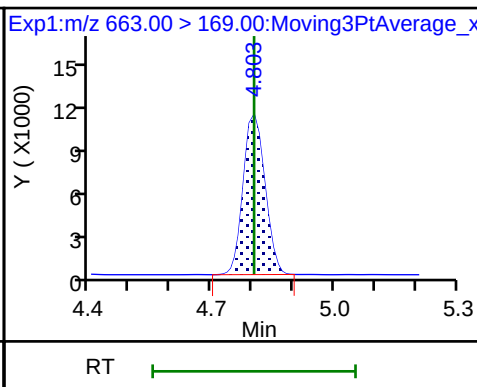
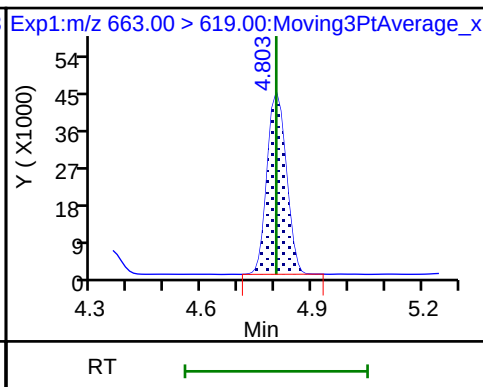
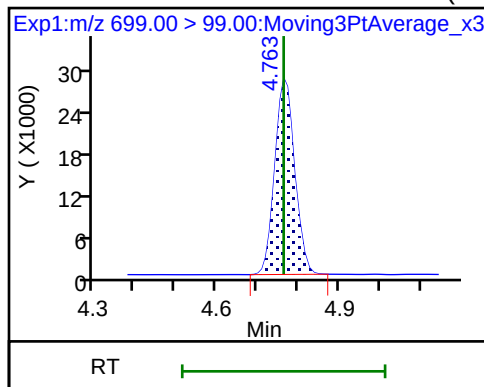
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

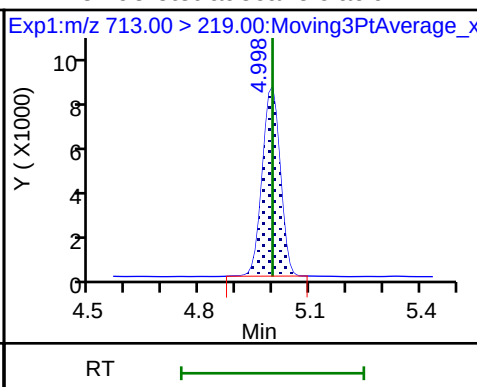
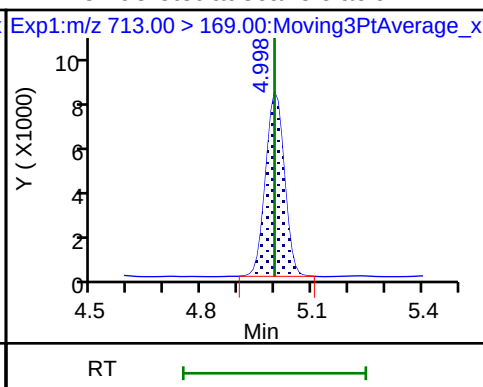
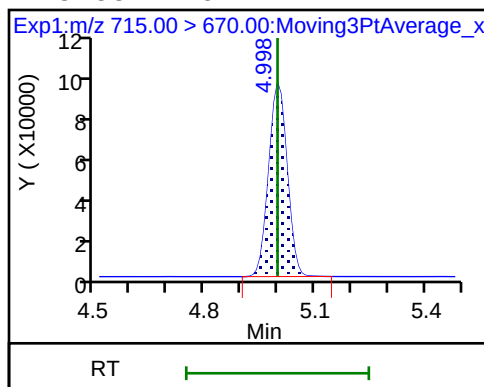
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

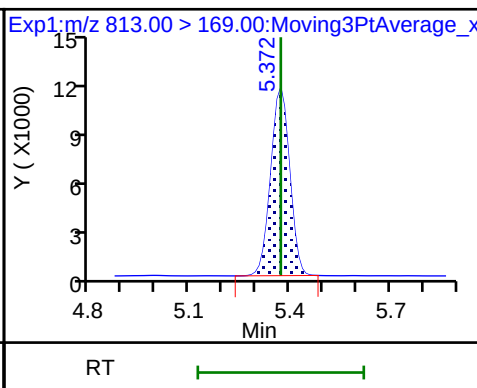
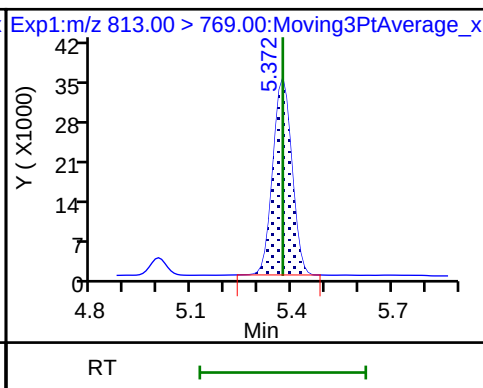
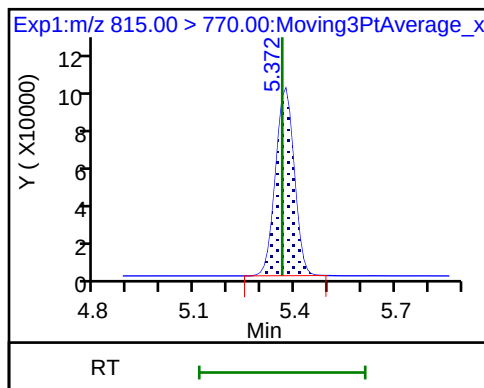
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

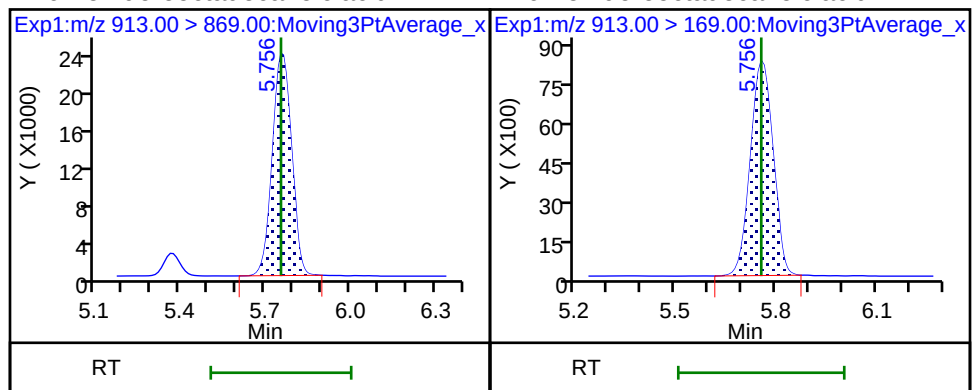
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

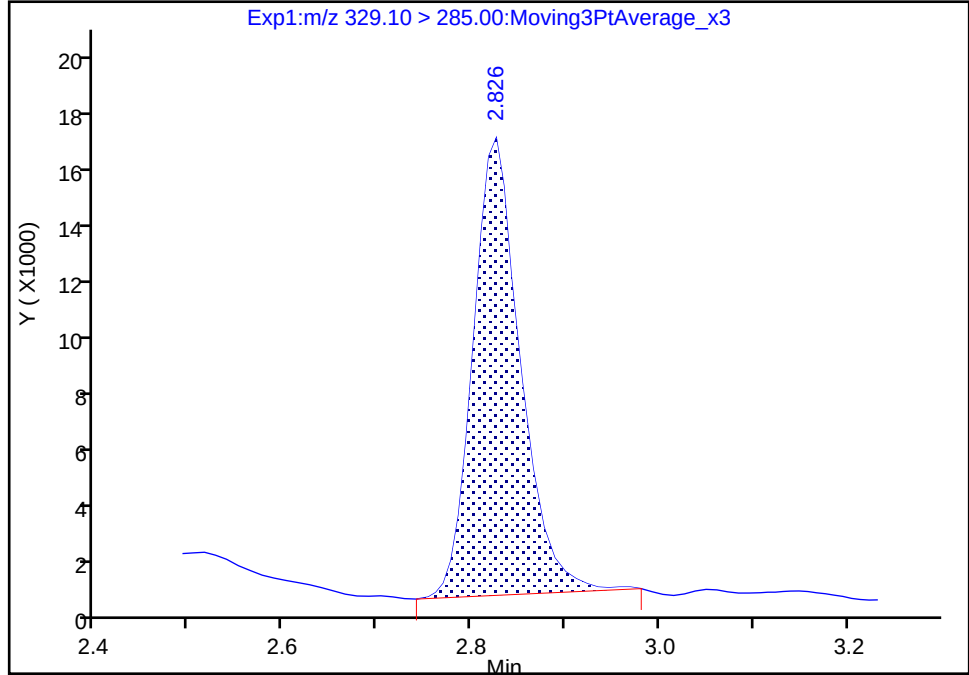
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d
Injection Date: 22-Sep-2020 19:47:05 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

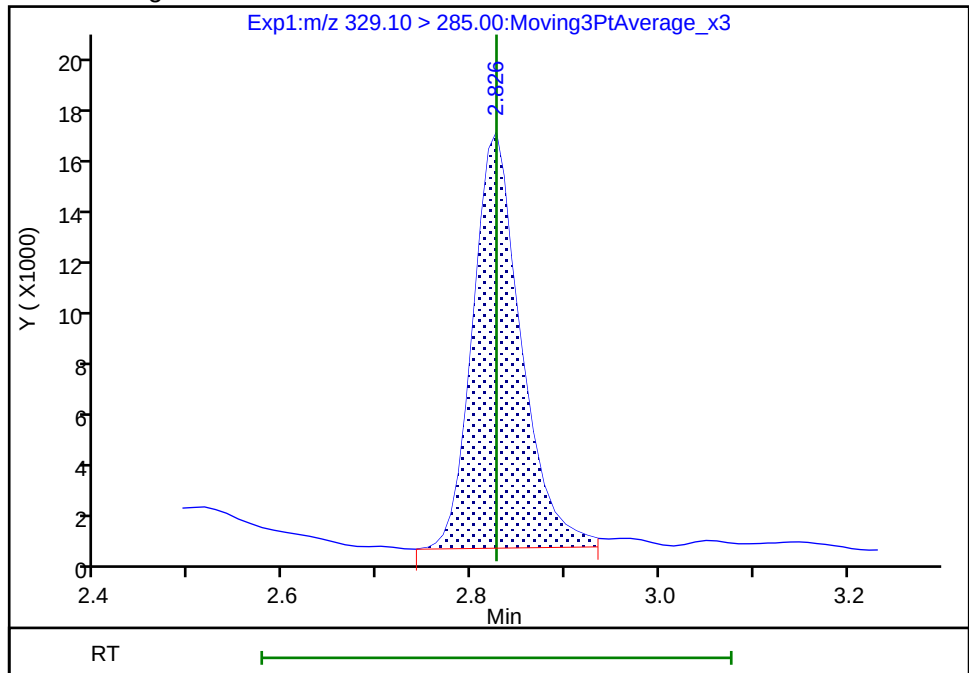
RT: 2.83
Area: 54492
Amount: 0.488455
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 55438
Amount: 0.487917
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:54:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

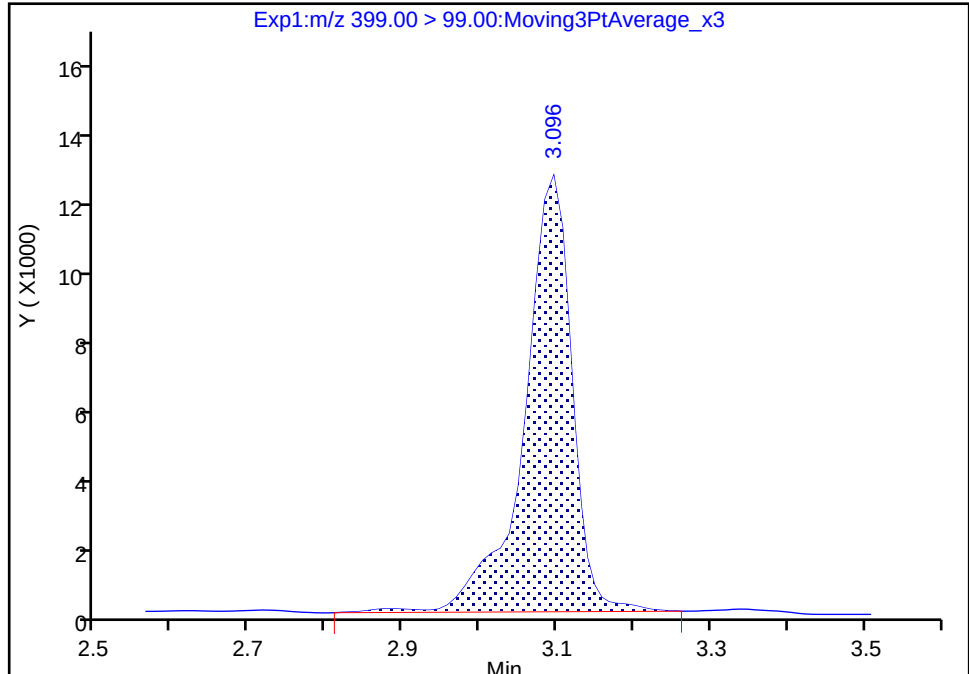
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d
Injection Date: 22-Sep-2020 19:47:05 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

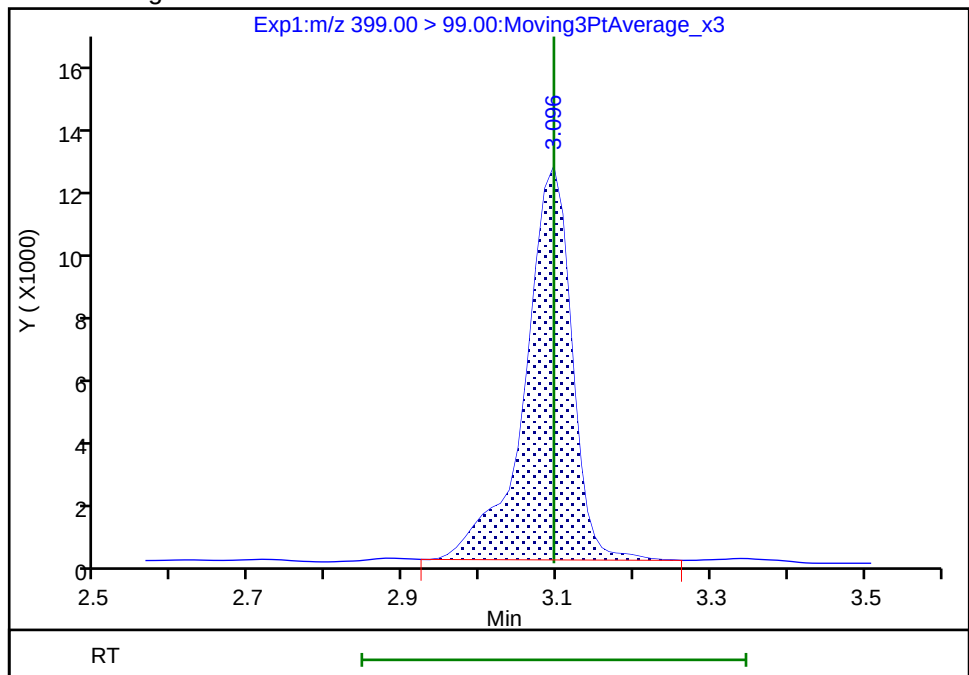
RT: 3.10
Area: 54308
Amount: 0.450815
Amount Units: ng/ml

Processing Integration Results



RT: 3.10
Area: 53241
Amount: 0.450815
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:40:43
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 570 of 897

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d

Injection Date: 22-Sep-2020 19:47:05

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

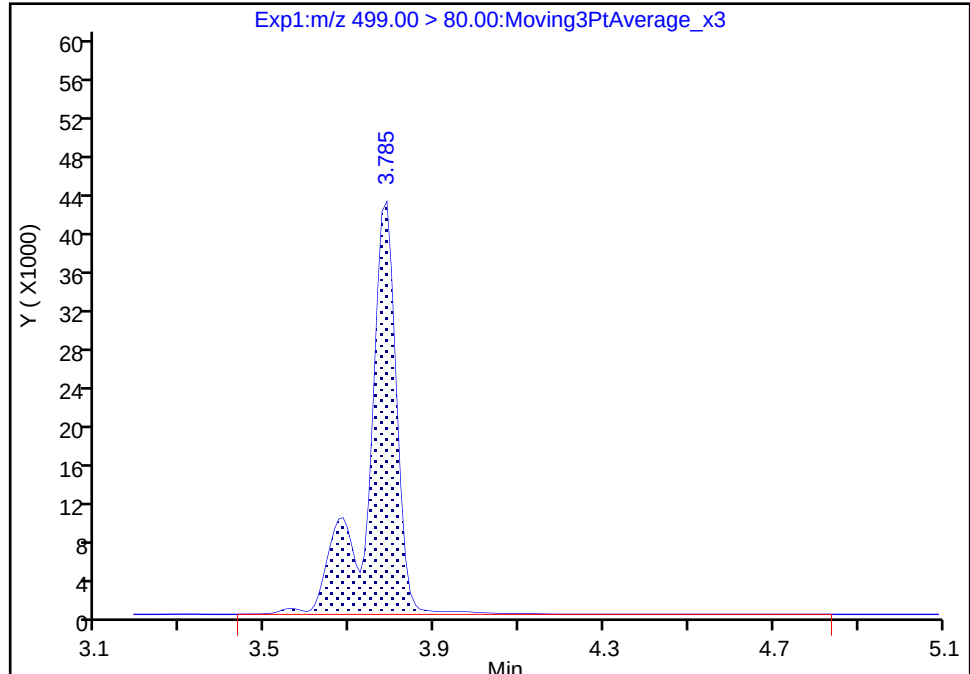
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

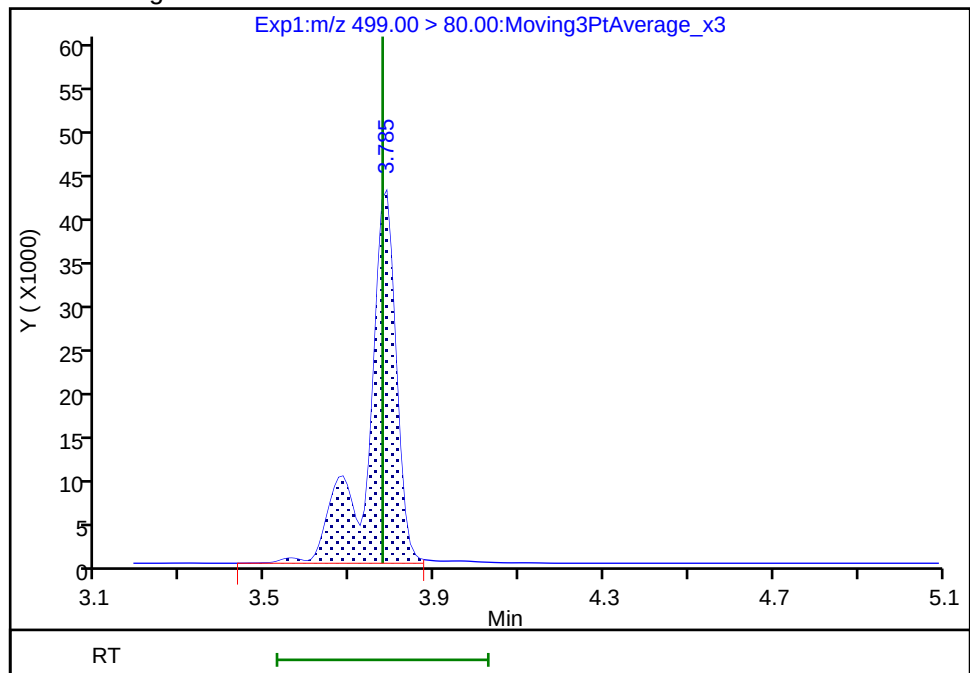
RT: 3.79
Area: 203225
Amount: 0.435684
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 200516
Amount: 0.432149
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:41:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d

Injection Date: 22-Sep-2020 19:47:05

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

4

Worklist Smp#: 7

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

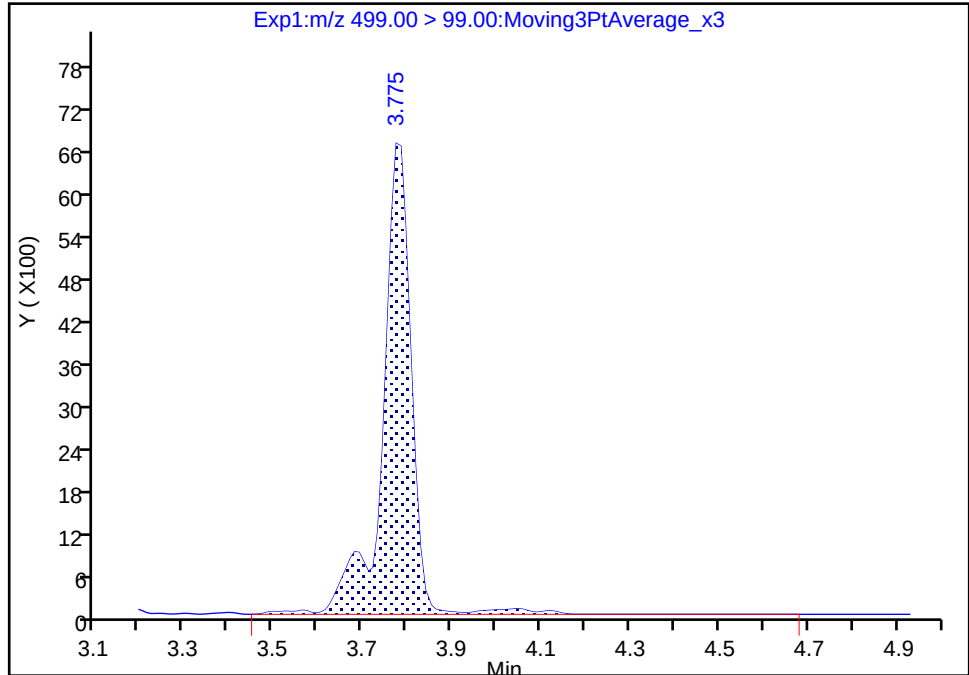
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

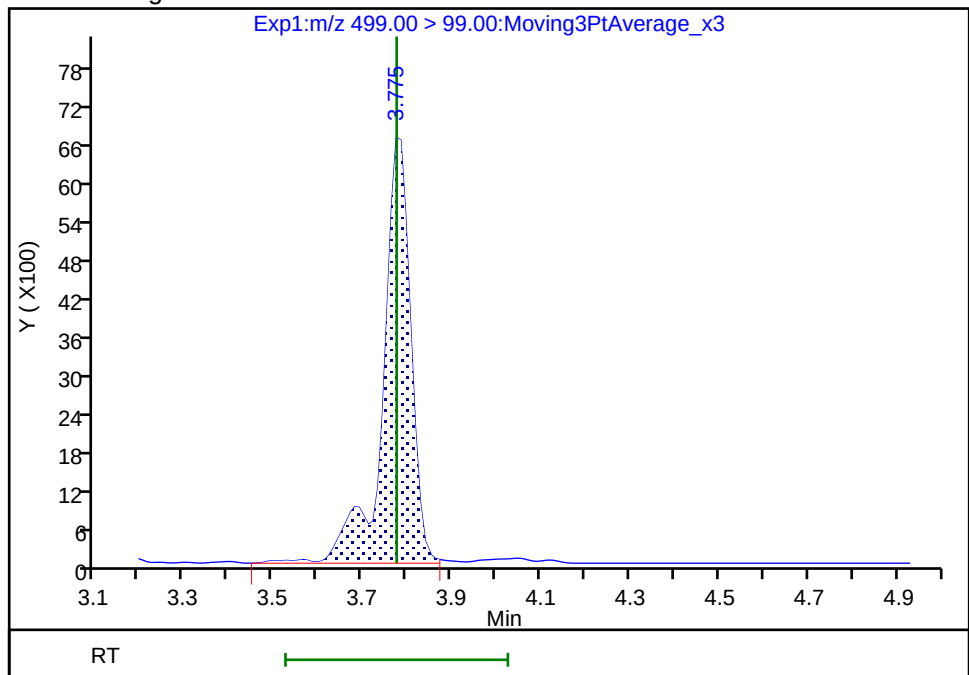
RT: 3.77
Area: 30165
Amount: 0.435684
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 29384
Amount: 0.432149
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:41:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

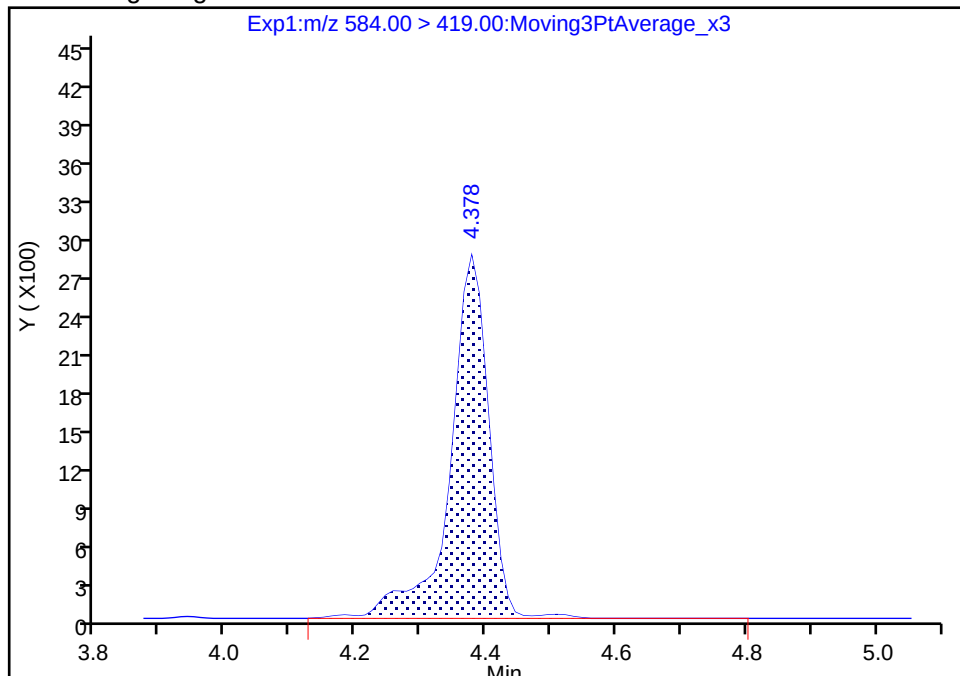
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d
Injection Date: 22-Sep-2020 19:47:05 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

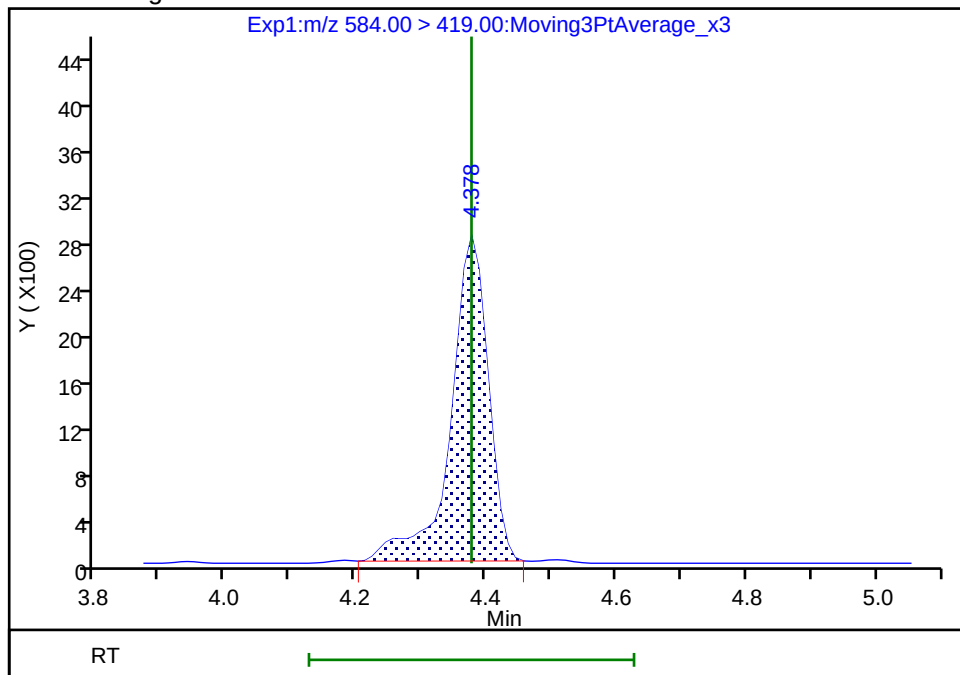
RT: 4.38
Area: 11682
Amount: 0.416506
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 11209
Amount: 0.403539
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:41:32
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 573 of 897

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d
 Lims ID: ICIS
 Client ID:
 Sample Type: ICIS Calib Level: 4
 Inject. Date: 22-Sep-2020 19:55:23 ALS Bottle#: 5 Worklist Smp#: 8
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICIS
 Misc. Info.: 200-0042904-008 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 23-Sep-2020 10:27:09 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1050

First Level Reviewer: chirgwinb

Date: 23-Sep-2020 09:35:45

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.990	1.990	0.0	0.576	1014598	1.26		101	7246	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.000	2.000	0.0	1.005	699180	0.9215		92.2	114	
D 3 13C5 PFPeA										
267.90 > 223.00	2.339	2.339	0.0	0.676	741010	1.28		102	3636	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.339	2.339	0.0	1.000	570602	0.9114		91.1	34.4	
D 47 13C3 PFBS										
301.90 > 80.00	2.353	2.353	0.0	0.680	826748	1.17		101	226162	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.353	2.353	0.0	1.000	626454	0.8840	Target=1.99	100	1564	
298.90 > 99.00	2.353	2.353	0.0	1.000	302087		2.07(1.00-2.99)	100	445	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.678	2.678	0.0	1.000	74642	0.8604		92.1	1961	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.678	2.678	0.0	0.774	62673	1.18		101	182	
D 7 13C2 PFHxA										
315.00 > 270.00	2.716	2.716	0.0	0.785	762210	1.28		102	4123	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.716	2.716	0.0	1.000	622517	1.01	Target=11.58	101	269	
313.00 > 119.00	2.716	2.716	0.0	1.000	50048		12.44(5.79-17.37)	101	136	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.881	558214	0.8830	Target=3.36	94.1	1478	
349.00 > 99.00	2.716	2.716	0.0	0.881	153348		3.64(1.68-5.05)	94.1	679	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.818	2.818	0.0	0.815	79305	1.43		114	1108	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.826	2.826	0.0	1.003	112753	0.8352		83.5	25.8	
D 11 18O2 PFHxS										
403.00 > 84.00	3.084	3.084	0.0	0.892	631349	1.25		106	1353	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.096	3.096	0.0	1.004	484522	0.8217	Target=4.59	90.3	1307	
399.00 > 99.00	3.084	3.096	-0.012	1.000	105236		4.60(2.29-6.88)	90.3	224	M
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.096	3.096	0.0	1.000	531540	1.01	Target=3.29	101	291	
363.00 > 169.00	3.096	3.096	0.0	1.000	158989		3.34(1.65-4.94)	101	739	
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.096	0.0	0.895	659408	1.22		97.3	3502	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.829	1142080	0.9043	Target=2.40	96.0	2784	
377.00 > 85.00	3.132	3.132	0.0	0.829	467376		2.44(1.20-3.60)	96.0	1143	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.450	3.450	0.0	0.914	445834	0.9388	Target=6.94	98.6	2731	
449.00 > 99.00	3.450	3.450	0.0	0.914	62933		7.08(3.47-10.41)	98.6	540	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.450	0.0	0.997	82963	1.23		103	699	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.450	3.450	0.0	1.000	48798	0.8752		92.3	479	
D 14 13C4 PFOA										
417.00 > 372.00	3.458	3.458	0.0	1.000	701817	1.26		101	2814	
* 62 13C2 PFOA										
415.00 > 370.00	3.458	3.458	0.0		704481	1.25			3074	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.458	3.458	0.0	1.000	571265	0.9855	Target=2.26	98.6	261	
413.00 > 169.00	3.458	3.458	0.0	1.000	249756		2.29(1.13-3.38)	98.6	689	
D 18 13C4 PFOS										
503.00 > 80.00	3.776	3.776	0.0	1.092	489827	1.18		99.1	2180	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.776	3.776	0.0	1.000	408627	0.9174	Target=6.66	98.9	1039	M
499.00 > 99.00	3.776	3.776	0.0	1.000	57587		7.10(3.33-9.99)	98.9	478	M
D 19 13C5 PFNA										
468.00 > 423.00	3.797	3.797	0.0	1.098	608945	1.30		104	6828	
20 Perfluorononanoic acid										
463.00 > 419.00	3.797	3.797	0.0	1.000	452952	0.9130	Target=6.07	91.3	176	
463.00 > 169.00	3.797	3.797	0.0	1.000	77720		5.83(3.03-9.10)	91.3	1269	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.941	3.941	0.0	1.044	353549	0.9019		96.8	2527	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.072	4.072	0.0	1.078	326652	0.9279	Target=3.49	96.7	4110	
549.00 > 99.00	4.062	4.072	-0.010	1.076	96516		3.38(1.75-5.24)	96.7	588	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.092	0.0	1.000	437800	0.9639	Target=6.79	96.4	805	
513.00 > 169.00	4.092	4.092	0.0	1.000	64247		6.81(3.39-10.18)	96.4	864	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.183	573806	1.28		102	3763	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.103	4.103	0.0	1.000	28279	0.9409		98.2	886	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.103	4.103	0.0	1.186	90925	1.14		95.4	973	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.151	0.0	1.200	885746	1.23		98.1	3524	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.151	4.151	0.0	1.000	666683	1.01		101	1367	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.224	31030	1.22		97.2	133	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.245	4.245	0.0	1.002	22030	0.9404		94.0	235	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.332	0.0	1.147	287760	0.9770	Target=3.11	101	1941	
599.00 > 99.00	4.332	4.332	0.0	1.147	86892		3.31(1.55-4.66)	101	803	
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.259	416873	1.23		98.5	5286	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.355	0.0	1.000	340391	1.03	Target=6.33	103	462	
563.00 > 169.00	4.355	4.355	0.0	1.000	51836		6.57(3.17-9.50)	103	1051	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.262	32884	1.20		95.9	349	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.378	4.378	0.0	1.003	23746	0.9859		98.6	477	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.444	4.444	0.0	1.177	316530	0.9361		99.4	3949	
D 36 13C2 PFDaA										
615.00 > 570.00	4.585	4.585	0.0	1.326	462535	1.29		103	4956	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.585	4.585	0.0	1.000	364468	1.01	Target=5.23	101	330	
613.00 > 169.00	4.585	4.585	0.0	1.000	70566		5.16(2.62-7.85)	101	1504	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.610	4.610	0.0	1.123	17497	1.05		109	806	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.763	4.763	0.0	1.261	85863	0.9085	Target=0.47	93.9	367	
699.00 > 99.00	4.763	4.763	0.0	1.261	190978		0.45(0.23-0.70)	93.9	2514	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.802	4.802	0.0	1.047	291377	0.9508	Target=3.57	95.1	170	
663.00 > 169.00	4.802	4.802	0.0	1.047	88216		3.30(1.78-5.35)	95.1	1480	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.998	4.998	0.0	1.445	343318	1.35		108	3889	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.998	4.998	0.0	1.000	57042	0.9067	Target=1.07	90.7	1452	
713.00 > 219.00	4.988	4.998	-0.010	0.998	53786		1.06(0.54-1.61)	90.7	2215	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

D 44 13C2 PFHxDA

815.00 > 770.00 5.361 5.361 0.0 1.550 358063 1.24 99.2 3027

45 Perfluorohexadecanoic acid

813.00 > 769.00 5.372 5.372 0.0 1.002 258509 1.02 Target=3.00 102 201

813.00 > 169.00 5.372 5.372 0.0 1.002 84585 3.06(1.50-4.49) 102 1900

46 Perfluorooctadecanoic acid

913.00 > 869.00 5.756 5.756 0.0 1.073 207162 0.9677 Target=2.88 96.8 214

913.00 > 169.00 5.756 5.756 0.0 1.073 73347 2.82(1.44-4.32) 96.8 1096

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00011

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d

Injection Date: 22-Sep-2020 19:55:23

Instrument ID: LC812

Lims ID: ICIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

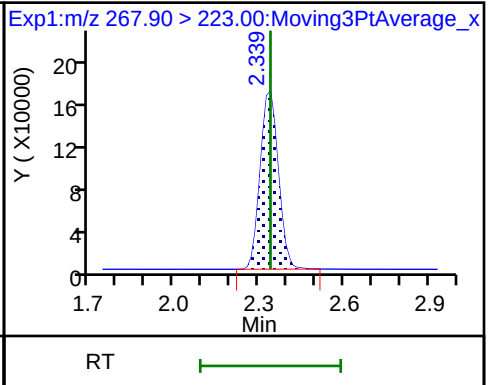
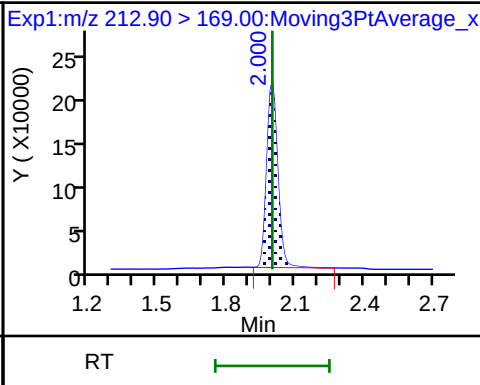
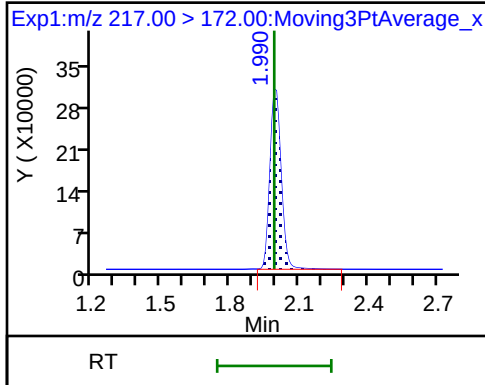
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

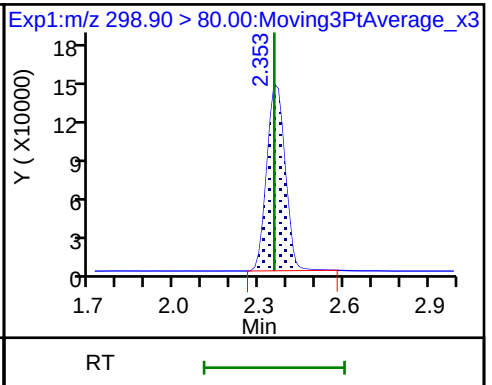
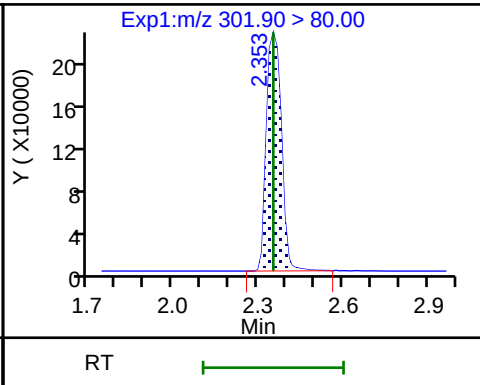
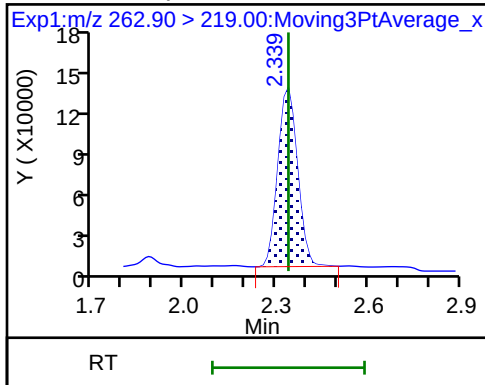
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

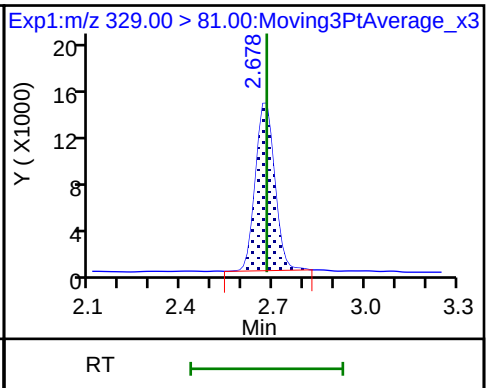
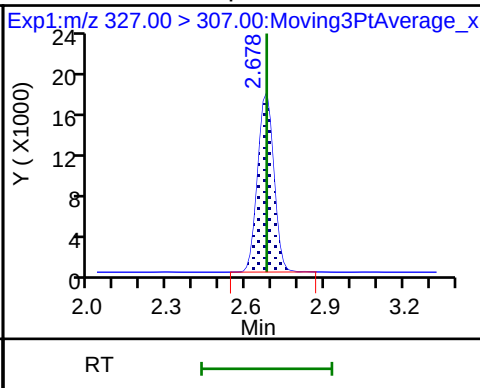
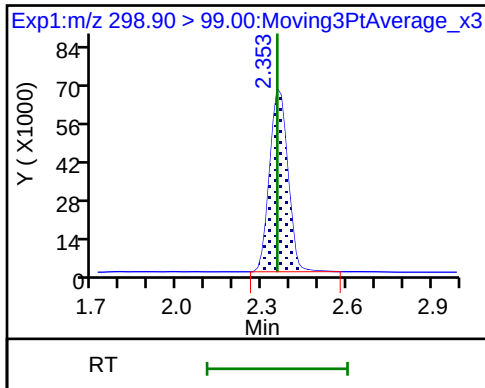
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

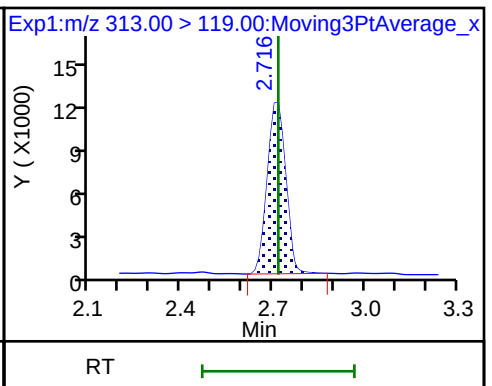
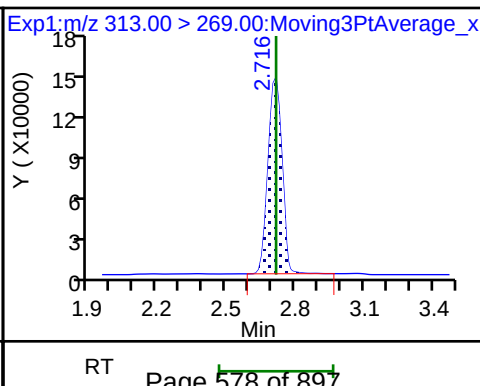
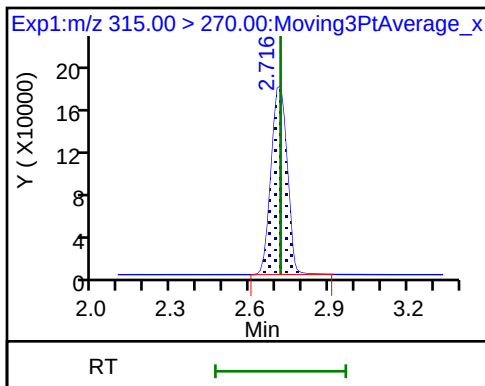
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

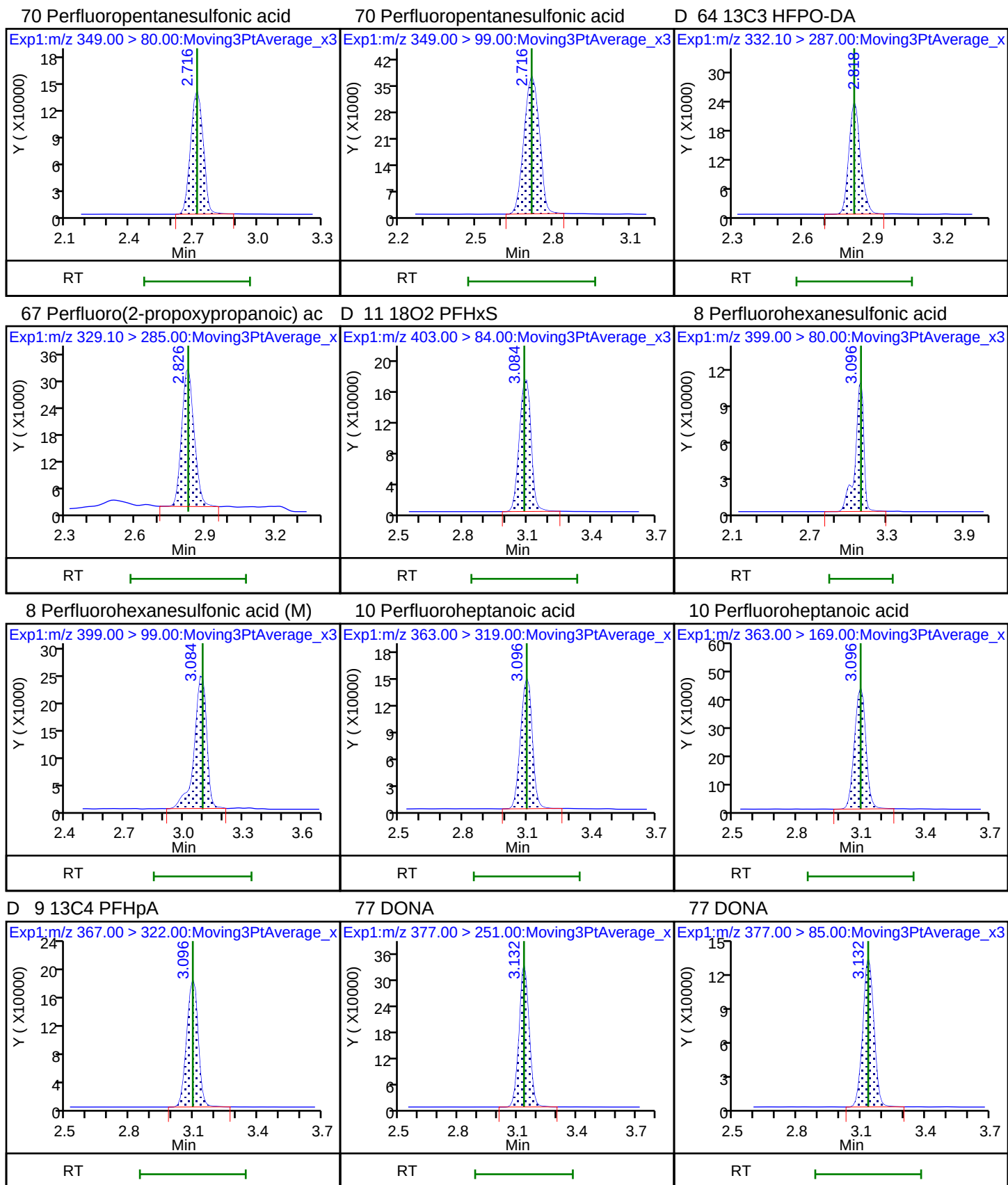


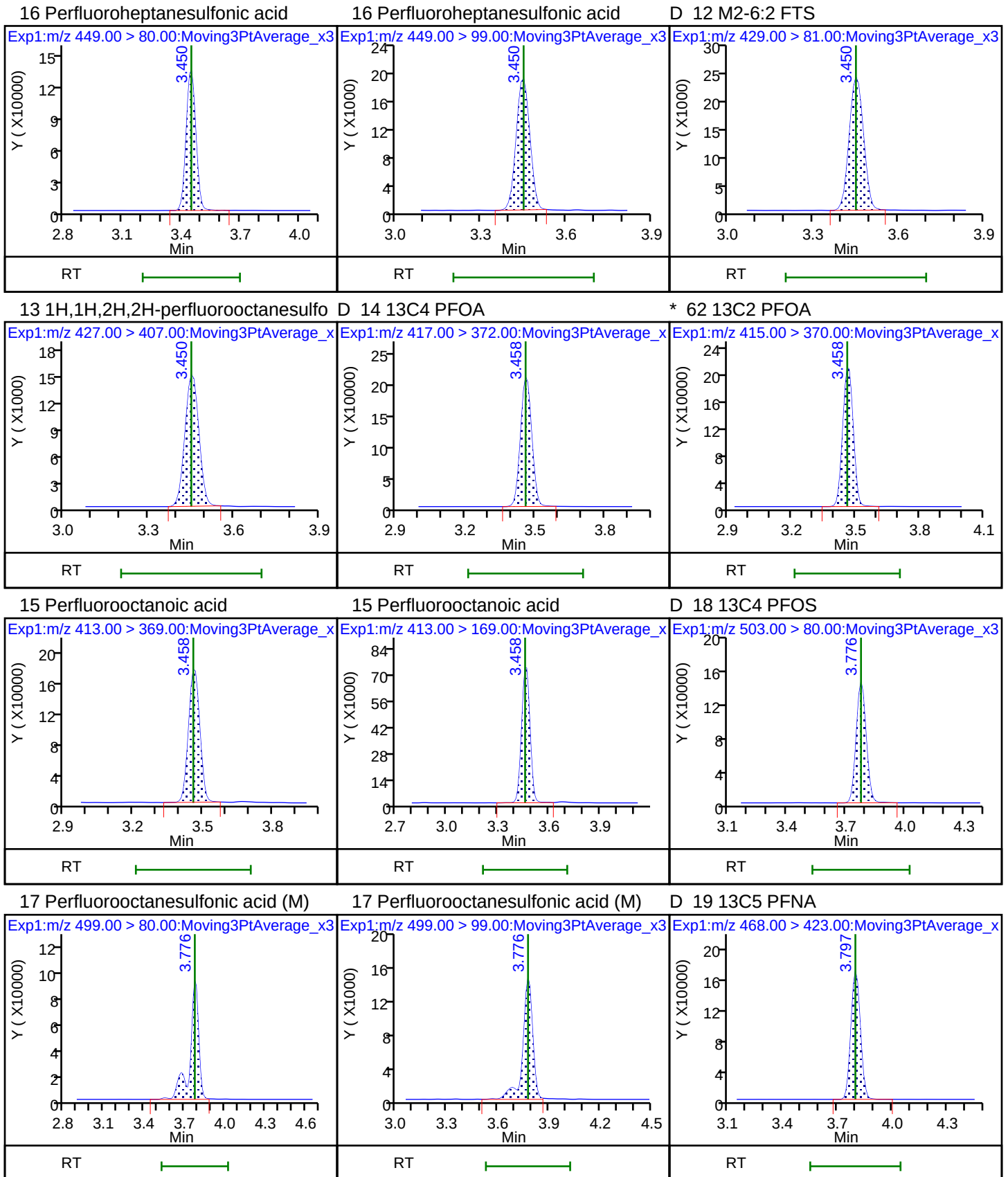
D 7 13C2 PFHxA

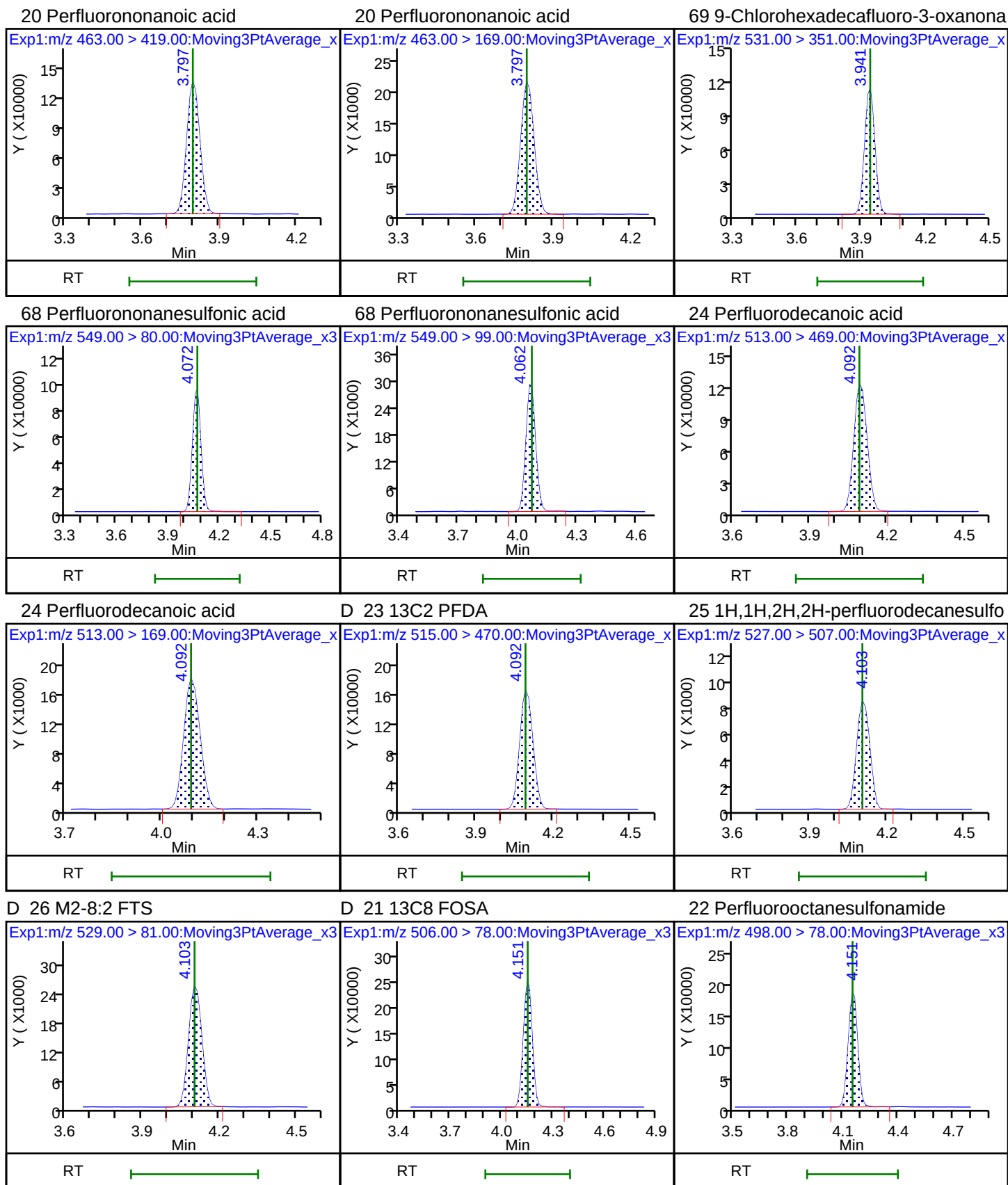
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





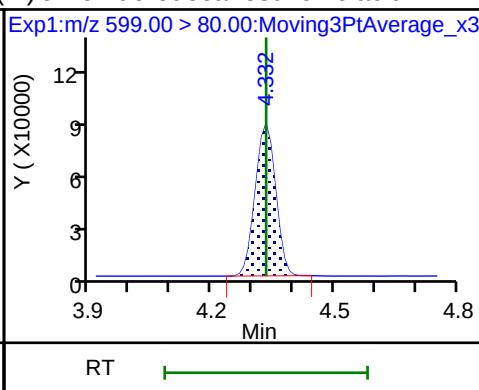
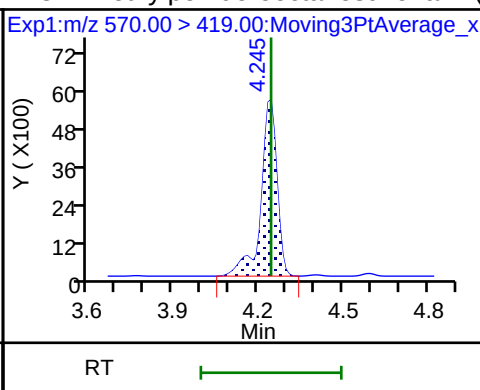
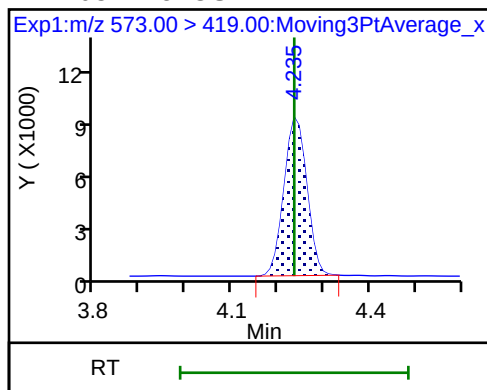




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M₂)

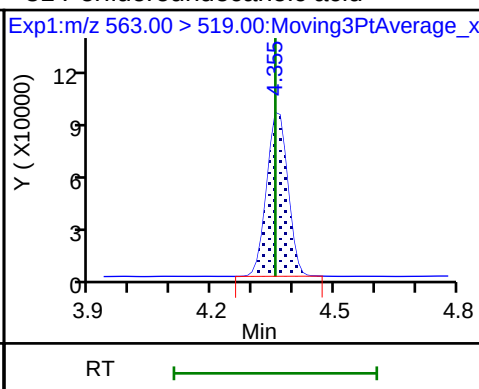
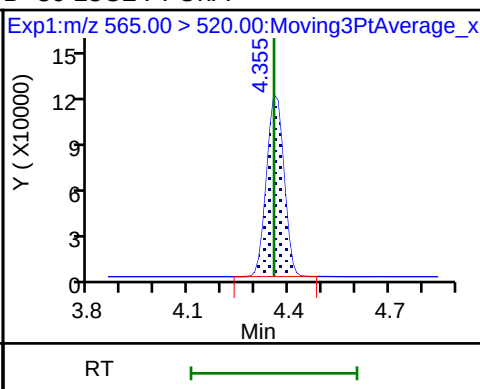
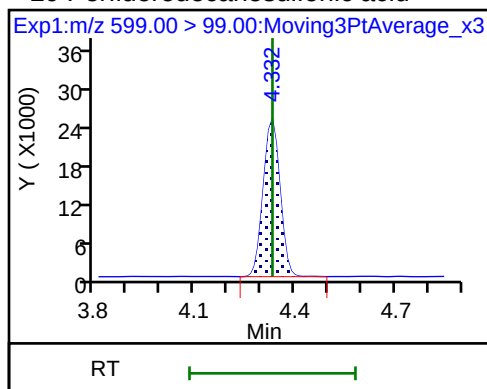
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

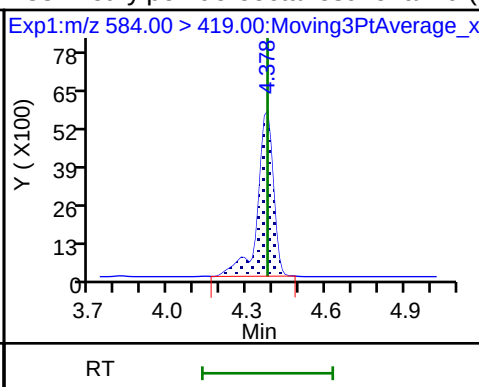
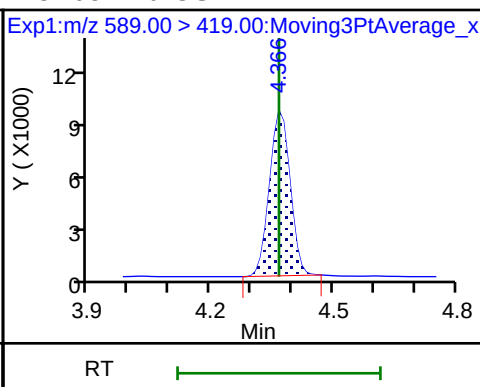
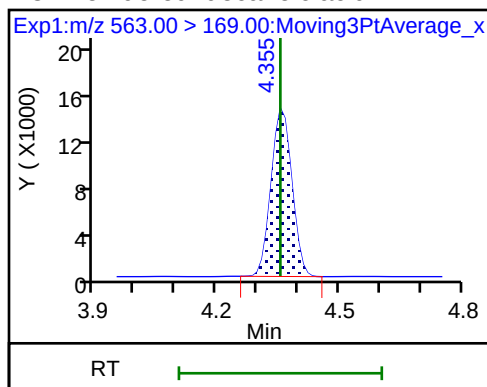
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

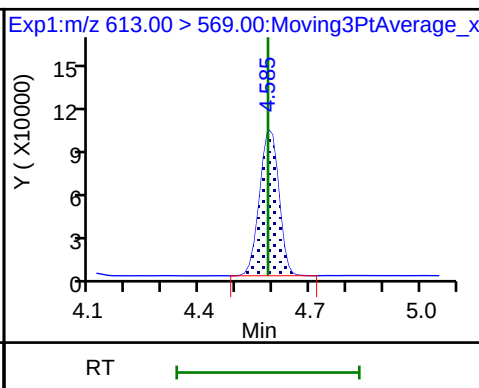
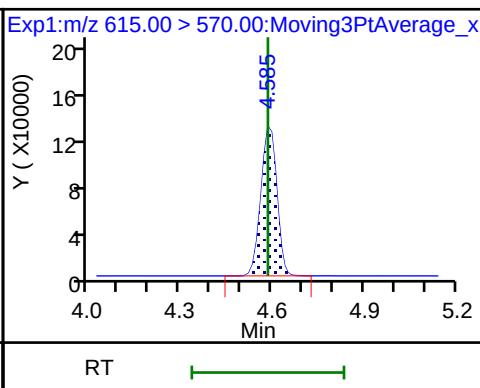
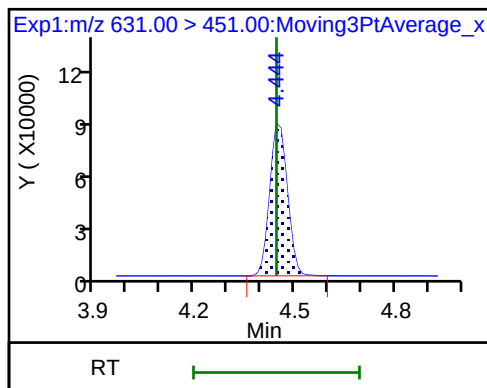
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid (M₂)

66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

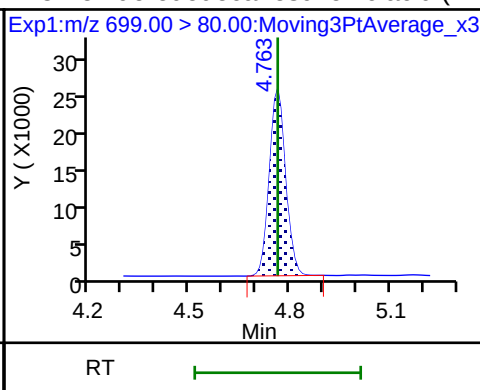
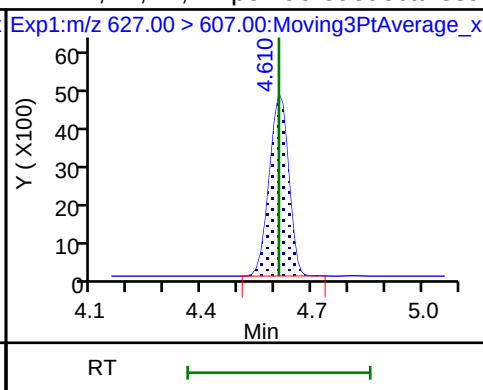
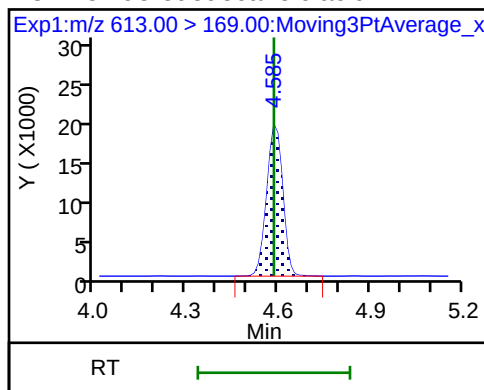
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

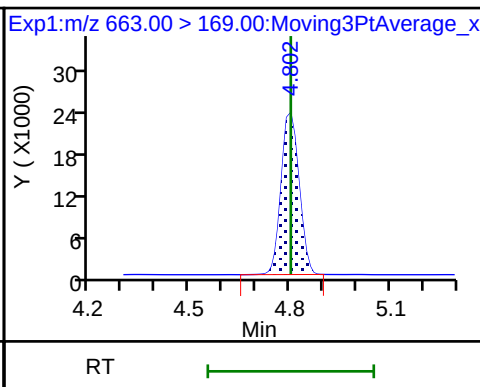
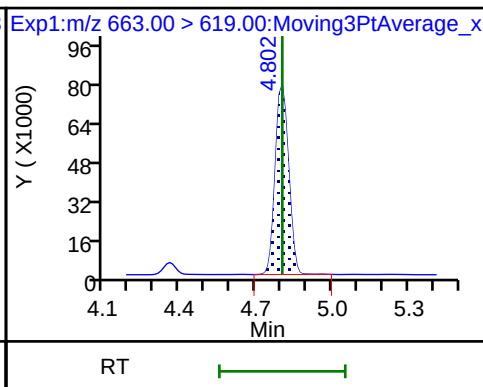
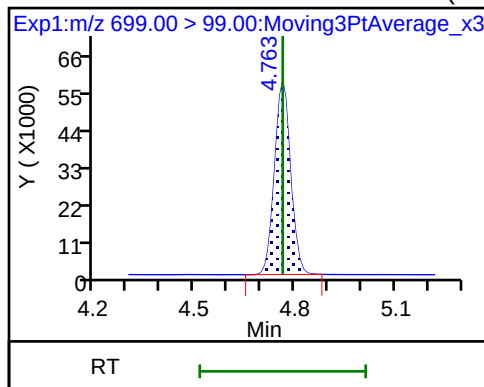
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

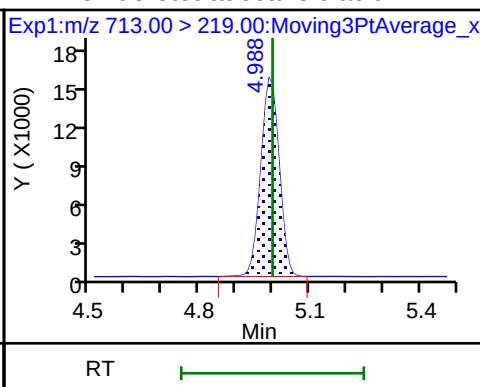
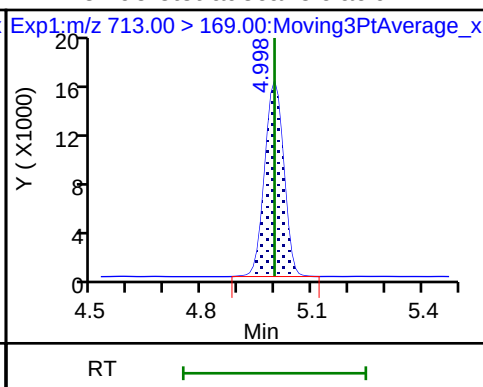
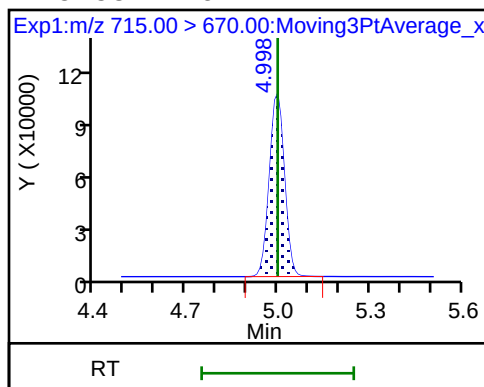
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

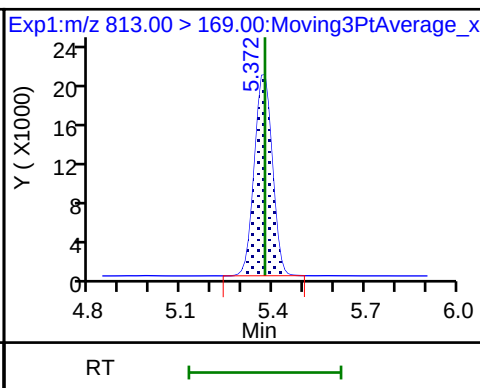
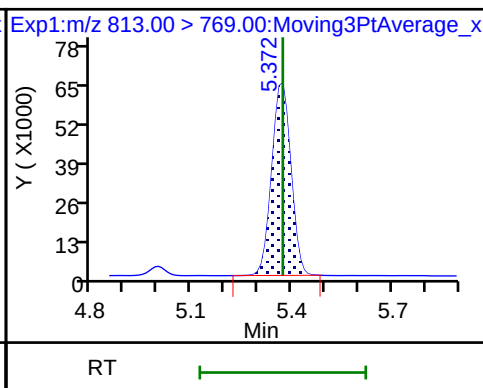
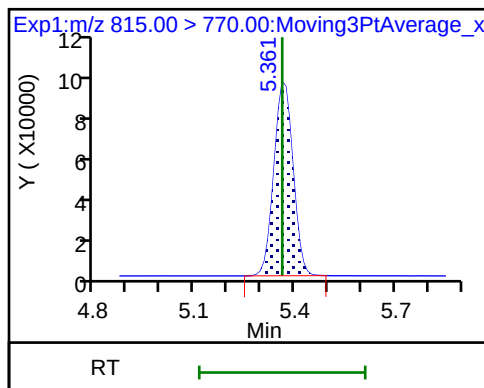
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

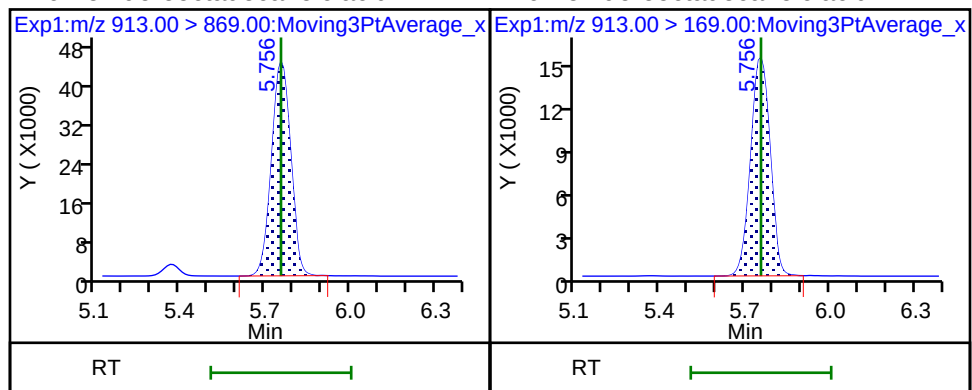
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

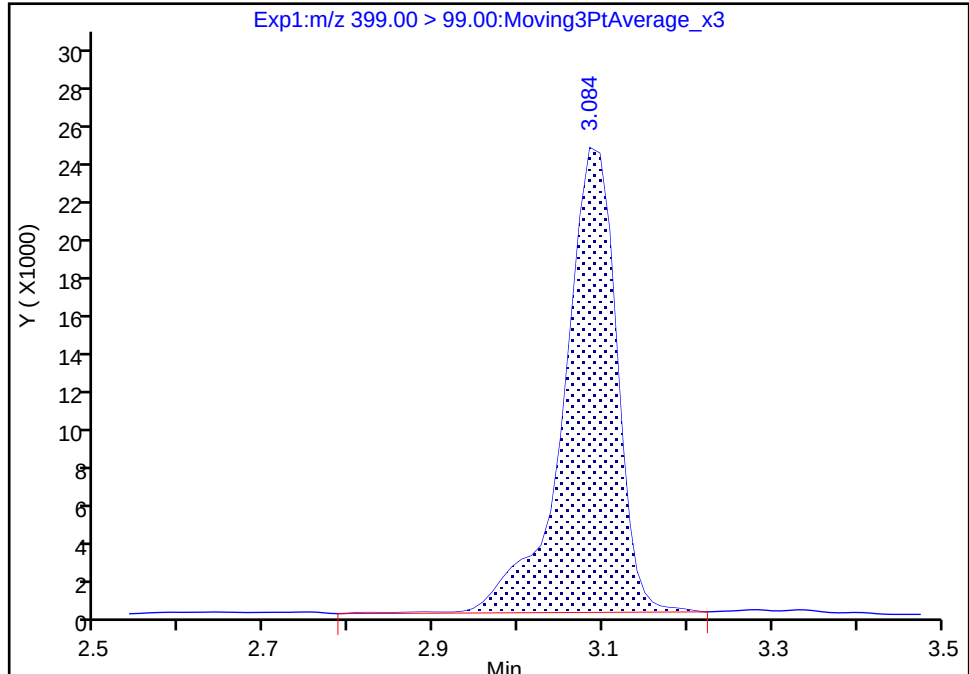
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

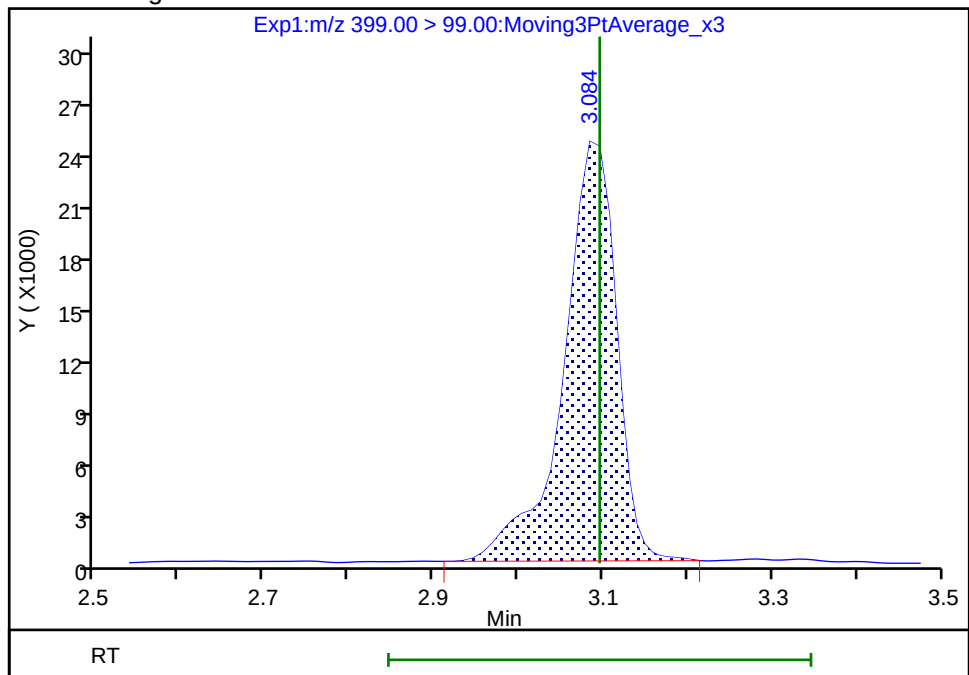
RT: 3.08
Area: 106102
Amount: 0.821704
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 105236
Amount: 0.821704
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:42:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d

Injection Date: 22-Sep-2020 19:55:23

Instrument ID: LC812

Lims ID: ICIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

5

Worklist Smp#: 8

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

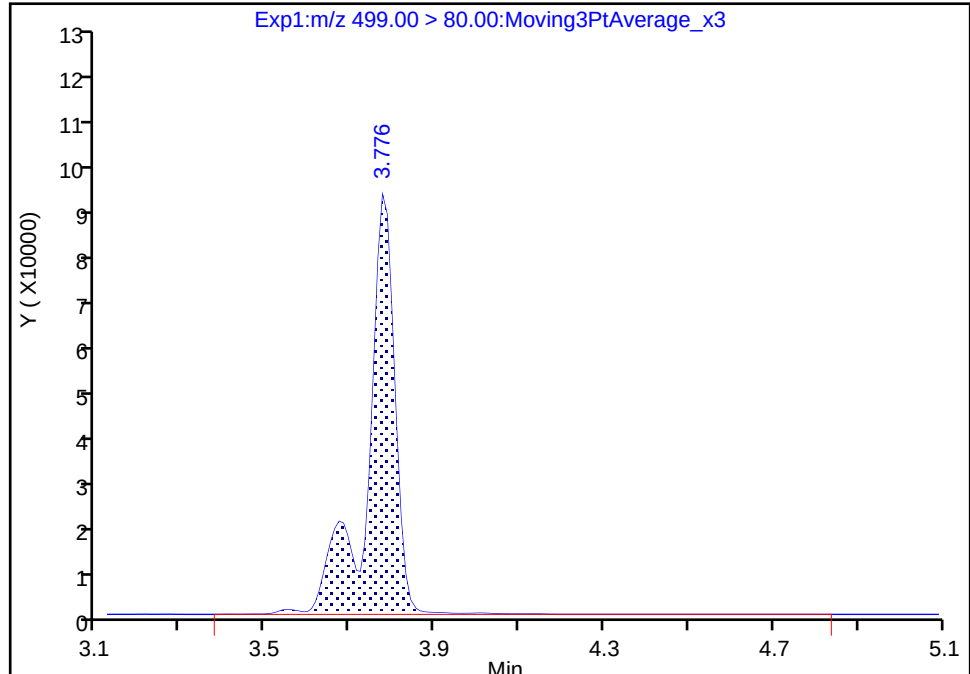
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

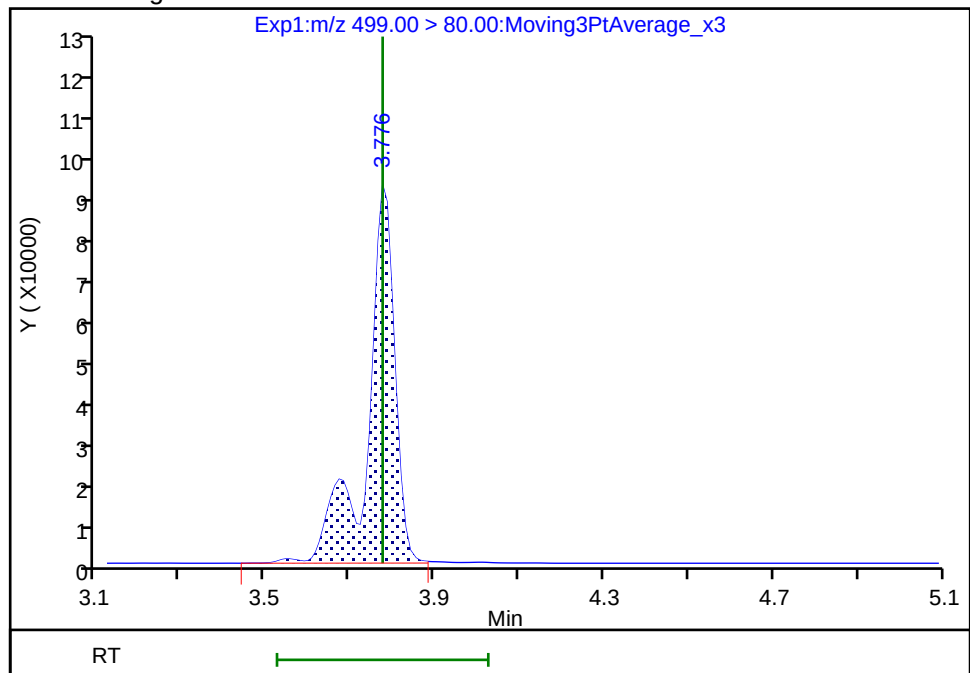
RT: 3.78
Area: 412215
Amount: 0.922486
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 408627
Amount: 0.917373
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:42:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

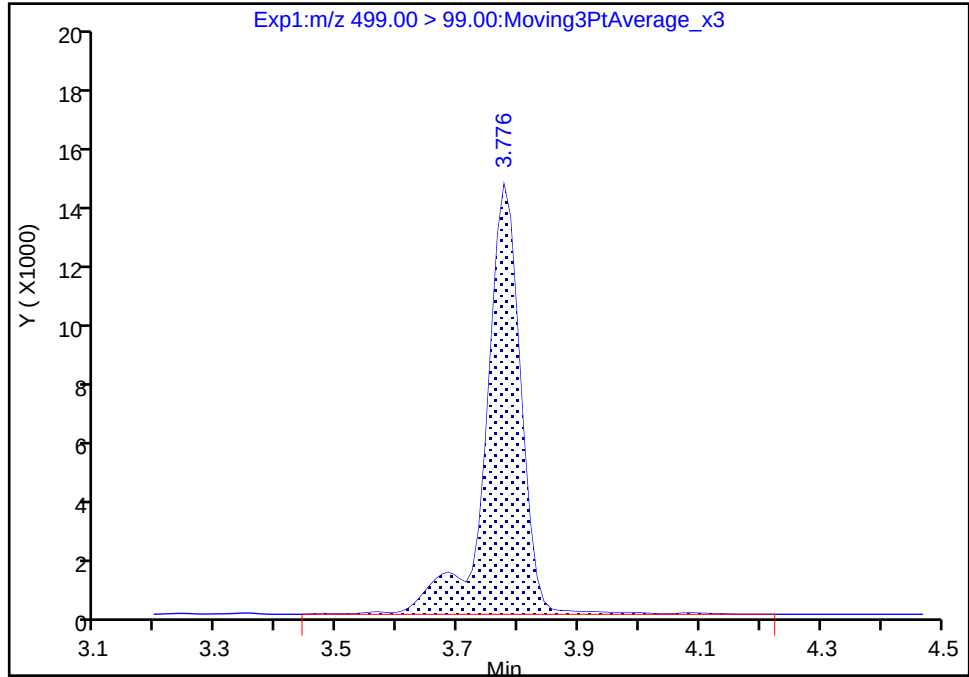
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

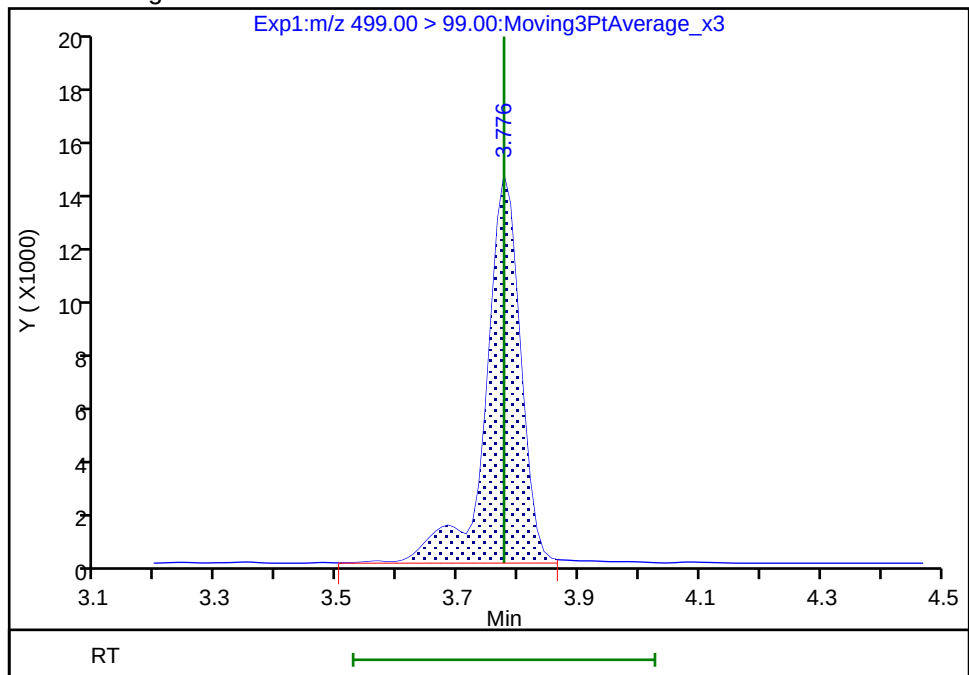
RT: 3.78
Area: 58556
Amount: 0.922486
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 57587
Amount: 0.917373
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:42:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

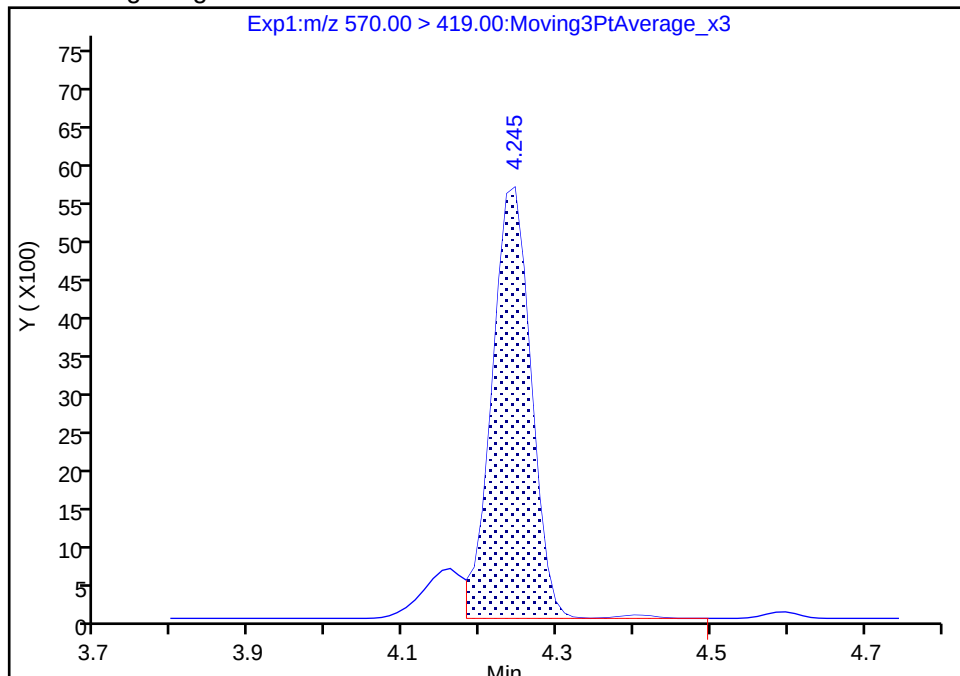
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

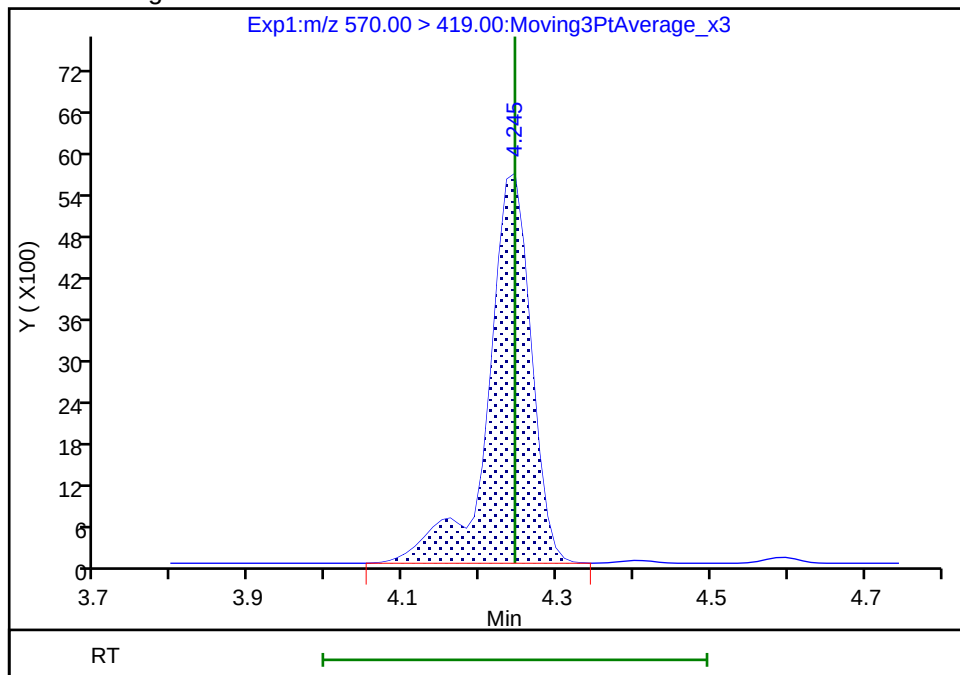
RT: 4.25
Area: 19829
Amount: 0.886625
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 22030
Amount: 0.940374
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:42:58
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 588 of 897

Eurofins TestAmerica, Burlington

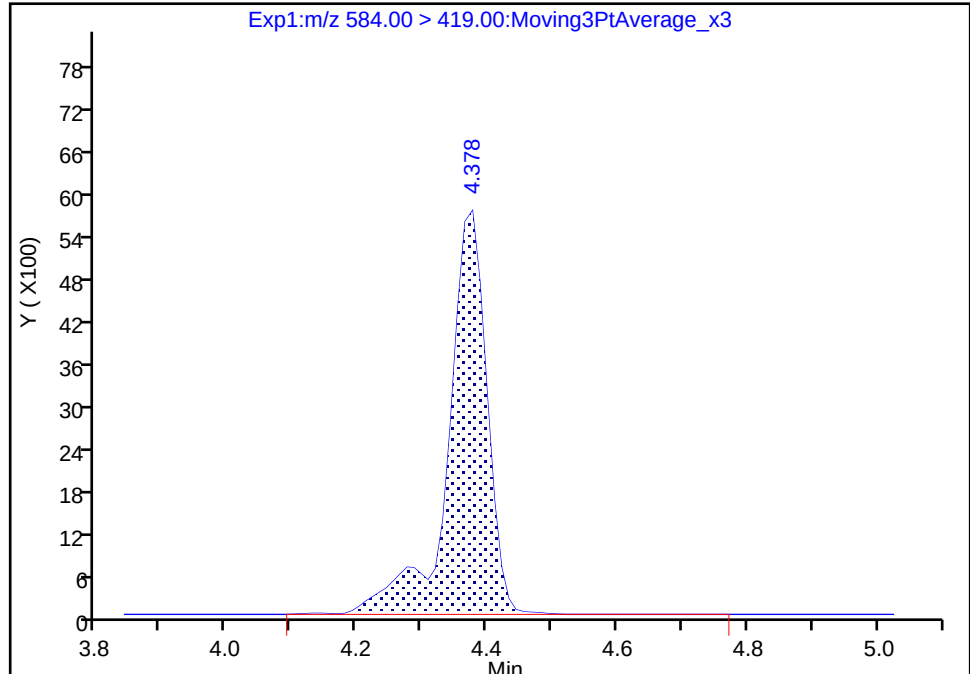
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812
Lims ID: ICIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

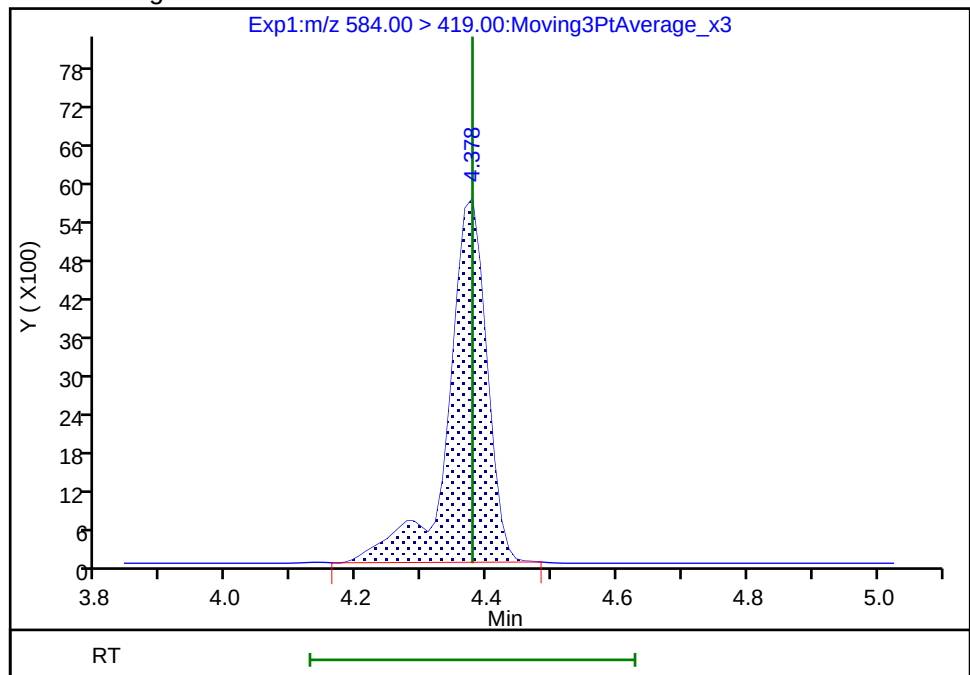
RT: 4.38
Area: 24062
Amount: 0.995004
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 23746
Amount: 0.985940
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:43:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 5
 Inject. Date: 22-Sep-2020 20:03:40 ALS Bottle#: 6 Worklist Smp#: 9
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0042904-009 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 23-Sep-2020 10:27:12 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1050

First Level Reviewer: chirgwinb

Date: 23-Sep-2020 09:44:32

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.000	1.990	0.010	0.577	1036961	1.25		99.9	7366	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.000	2.000	0.0	1.000	1812801	2.34		93.5	293	
D 3 13C5 PFPeA										
267.90 > 223.00	2.339	2.339	0.0	0.675	732056	1.23		98.4	3419	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.339	2.339	0.0	1.000	1432994	2.32		92.7	84.1	
D 47 13C3 PFBS										
301.90 > 80.00	2.353	2.353	0.0	0.679	844132	1.16		100	236734	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.367	2.353	0.014	1.006	1532425	2.12	Target=1.99	95.8	3951	
298.90 > 99.00	2.367	2.353	0.014	1.006	783068		1.96(1.00-2.99)	95.8	1064	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.678	2.678	0.0	1.000	208163	2.32		99.3	3714	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.678	2.678	0.0	0.772	64846	1.19		102	136	
D 7 13C2 PFHxA										
315.00 > 270.00	2.716	2.716	0.0	0.783	770416	1.26		101	4979	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.716	2.716	0.0	1.000	1502717	2.42	Target=11.58	96.9	599	
313.00 > 119.00	2.716	2.716	0.0	1.000	118970		12.63(5.79-17.37)	96.9	380	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.877	1414996	2.31	Target=3.36	98.4	3765	
349.00 > 99.00	2.716	2.716	0.0	0.877	407087		3.48(1.68-5.05)	98.4	1686	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.818	2.818	0.0	0.813	79948	1.40		112	776	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.826	2.826	0.0	1.003	275773	2.03		81.1	65.5	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.096	3.084	0.012	0.893	612150	1.18		99.6	1840	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.096	3.096	0.0	1.000	1262935	2.21	Target=4.59	97.1	3838	
399.00 > 99.00	3.096	3.096	0.0	1.000	276774		4.56(2.29-6.88)	97.1	782	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.096	3.096	0.0	1.000	1342731	2.53	Target=3.29	101	707	
363.00 > 169.00	3.096	3.096	0.0	1.000	410994		3.27(1.65-4.94)	101	1956	
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.096	0.0	0.893	662941	1.19		95.1	3240	
77 DONA										
377.00 > 251.00	3.132	3.132	0.0	0.830	2879997	2.09	Target=2.40	88.8	4520	
377.00 > 85.00	3.140	3.132	0.008	0.832	1242139		2.32(1.20-3.60)	88.8	2372	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.450	3.450	0.0	0.914	1168488	2.26	Target=6.94	94.8	4443	
449.00 > 99.00	3.450	3.450	0.0	0.914	165705		7.05(3.47-10.41)	94.8	983	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.458	3.450	0.008	0.998	84414	1.21		102	786	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.458	3.450	0.008	1.000	124081	2.19		92.3	3636	
D 14 13C4 PFOA										
417.00 > 372.00	3.467	3.458	0.009	1.000	716010	1.26		100	5326	
* 62 13C2 PFOA										
415.00 > 370.00	3.467	3.458	0.009		724358	1.25			2774	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.467	3.458	0.009	1.000	1416297	2.39	Target=2.26	95.8	627	
413.00 > 169.00	3.467	3.458	0.009	1.000	619367		2.29(1.13-3.38)	95.8	2992	
D 18 13C4 PFOS										
503.00 > 80.00	3.775	3.776	-0.001	1.089	534075	1.26		105	1983	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.775	3.776	-0.001	1.000	1055393	2.17	Target=6.66	93.7	1536	M
499.00 > 99.00	3.775	3.776	-0.001	1.000	160829		6.56(3.33-9.99)	93.7	1030	M
D 19 13C5 PFNA										
468.00 > 423.00	3.796	3.797	-0.001	1.095	584597	1.22		97.3	4035	
20 Perfluorononanoic acid										
463.00 > 419.00	3.796	3.797	-0.001	1.000	1217403	2.56	Target=6.07	102	455	
463.00 > 169.00	3.796	3.797	-0.001	1.000	184685		6.59(3.03-9.10)	102	2696	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.931	3.941	-0.010	1.041	916716	2.14		92.0	5929	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.072	-0.011	1.076	846240	2.20	Target=3.49	91.9	6446	
549.00 > 99.00	4.061	4.072	-0.011	1.076	250995		3.37(1.75-5.24)	91.9	1493	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.091	4.092	-0.001	1.000	1027763	2.20	Target=6.79	88.0	1543	
513.00 > 169.00	4.091	4.092	-0.001	1.000	155664		6.60(3.39-10.18)	88.0	1496	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.091	4.092	-0.001	1.180	590304	1.28		102	4189	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.103	4.103	0.0	1.000	73312	2.34		97.6	2215	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.103	4.103	0.0	1.183	94893	1.16		96.8	979	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.151	-0.001	1.197	950469	1.28		102	3443	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.151	-0.001	1.000	1685296	2.37		94.8	2138	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.222	32996	1.26		101	63.3	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.235	4.245	-0.010	1.000	59827	2.40		96.1	402	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.332	0.0	1.148	692018	2.15	Target=3.11	89.4	4134	
599.00 > 99.00	4.332	4.332	0.0	1.148	223788		3.09(1.55-4.66)	89.4	2726	
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.256	411827	1.18		94.7	3028	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.355	0.0	1.000	795804	2.45	Target=6.33	98.0	1134	
563.00 > 169.00	4.355	4.355	0.0	1.000	122222		6.51(3.17-9.50)	98.0	2298	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.367	4.366	0.001	1.259	34049	1.21		96.5	540	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.378	4.378	0.0	1.003	55787	2.24		89.5	970	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.445	4.444	0.001	1.177	766255	2.08		88.3	3196	
D 36 13C2 PFDaA										
615.00 > 570.00	4.586	4.585	0.001	1.323	465565	1.27		101	3662	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.586	4.585	0.001	1.000	850316	2.34	Target=5.23	93.6	774	
613.00 > 169.00	4.586	4.585	0.001	1.000	183559		4.63(2.62-7.85)	93.6	3869	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.610	4.610	0.0	1.124	42726	2.45		102	1510	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.763	4.763	0.0	1.262	223973	2.17	Target=0.47	89.8	607	
699.00 > 99.00	4.763	4.763	0.0	1.262	470047		0.48(0.23-0.70)	89.8	4878	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.802	4.802	0.0	1.047	703958	2.28	Target=3.57	91.3	427	
663.00 > 169.00	4.802	4.802	0.0	1.047	206258		3.41(1.78-5.35)	91.3	1830	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.441	319736	1.22		97.6	4132	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.997	4.998	-0.001	1.000	139913	2.39	Target=1.07	95.5	3711	
713.00 > 219.00	4.997	4.998	-0.001	1.000	134967		1.04(0.54-1.61)	95.5	2155	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.372	5.361	0.011	1.549	381324	1.28		103	2975	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.372	5.372	0.0	1.000	686432	2.57	Target=3.00	103	470	
813.00 > 169.00	5.372	5.372	0.0	1.000	230217		2.98(1.50-4.49)	103	4012	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.773	5.756	0.017	1.075	523242	2.30	Target=2.88	91.8	389	
913.00 > 169.00	5.773	5.756	0.017	1.075	190222		2.75(1.44-4.32)	91.8	2021	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00011

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d

Injection Date: 22-Sep-2020 20:03:40

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

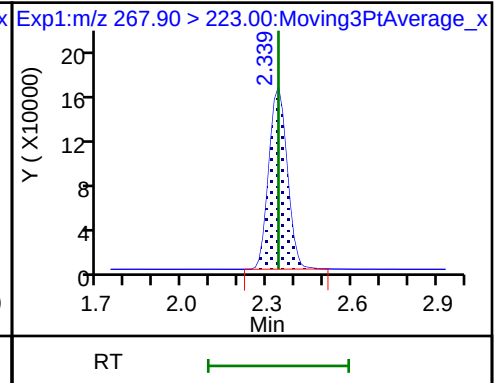
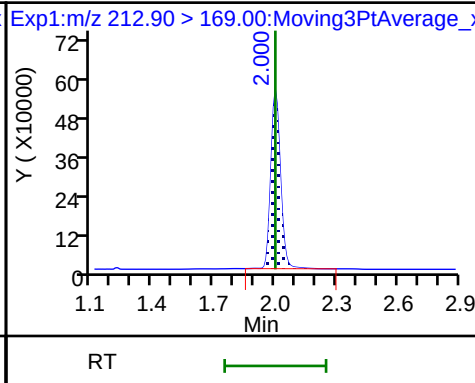
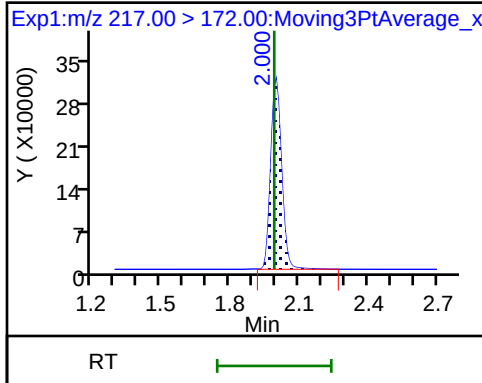
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

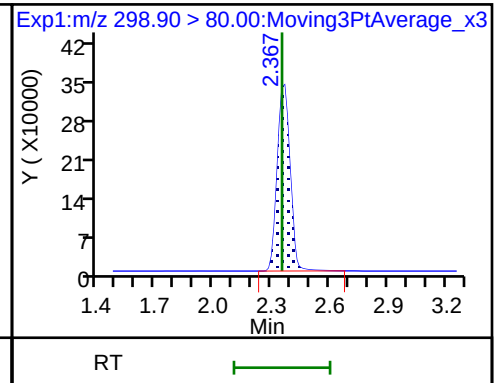
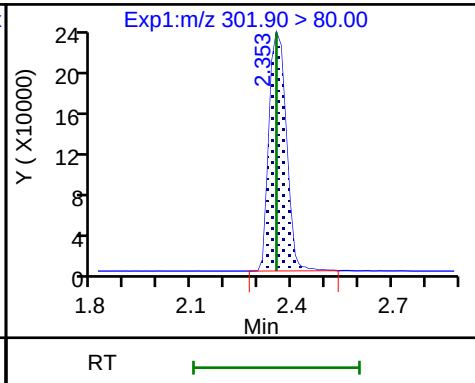
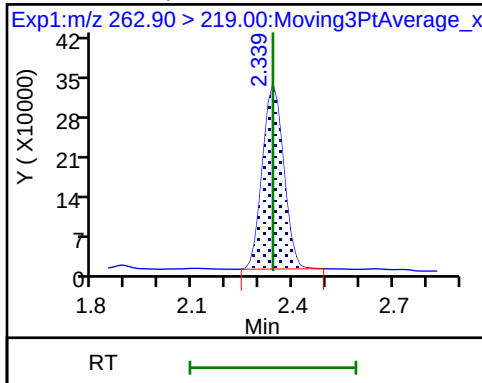
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

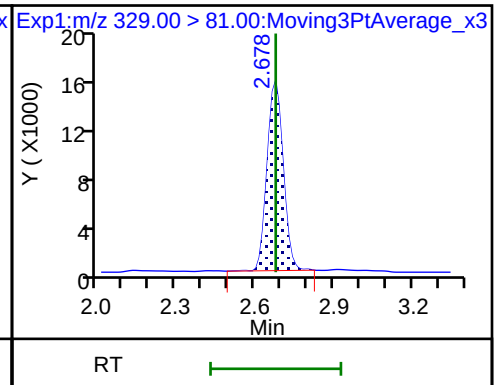
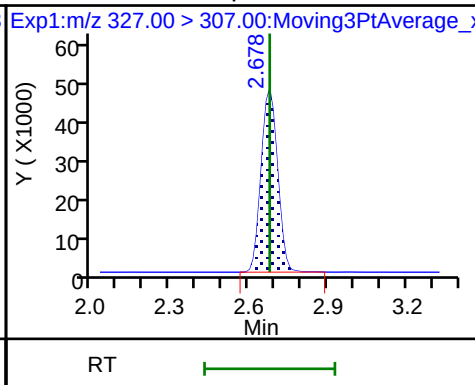
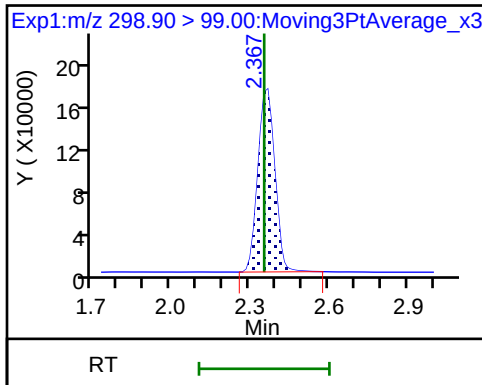
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

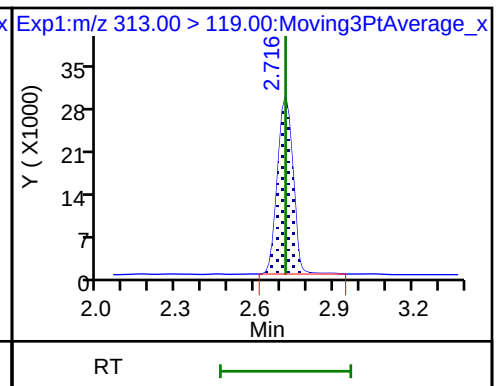
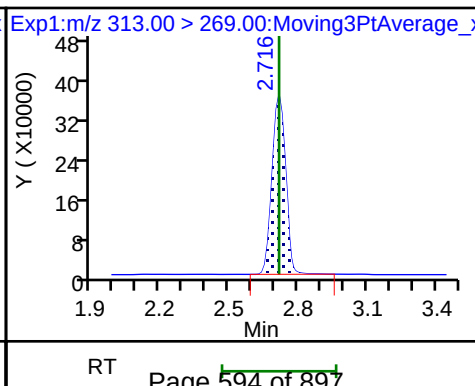
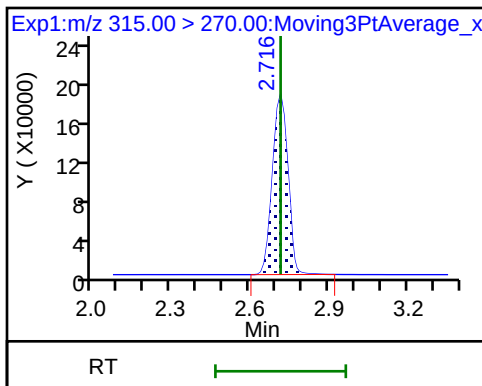
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

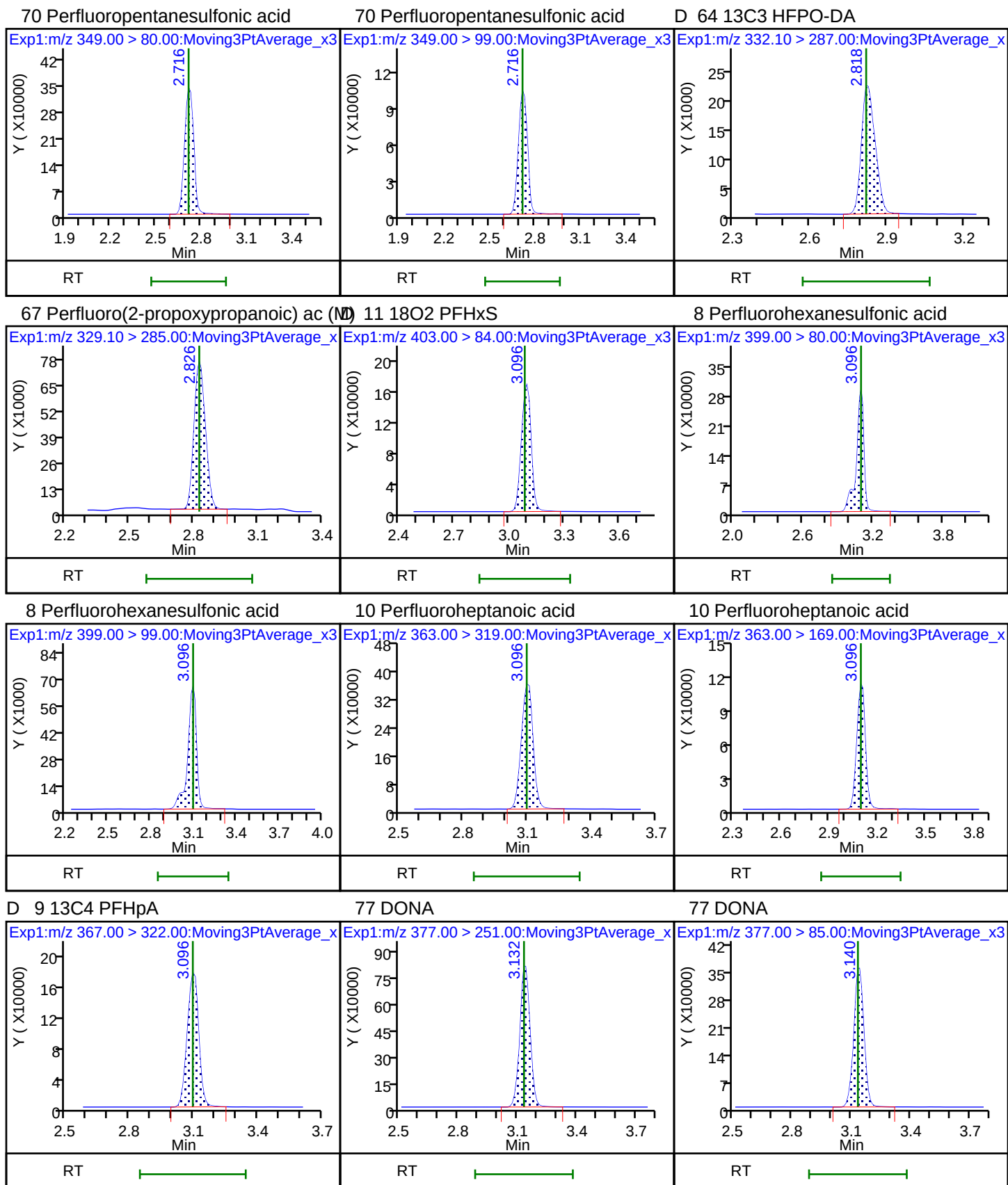


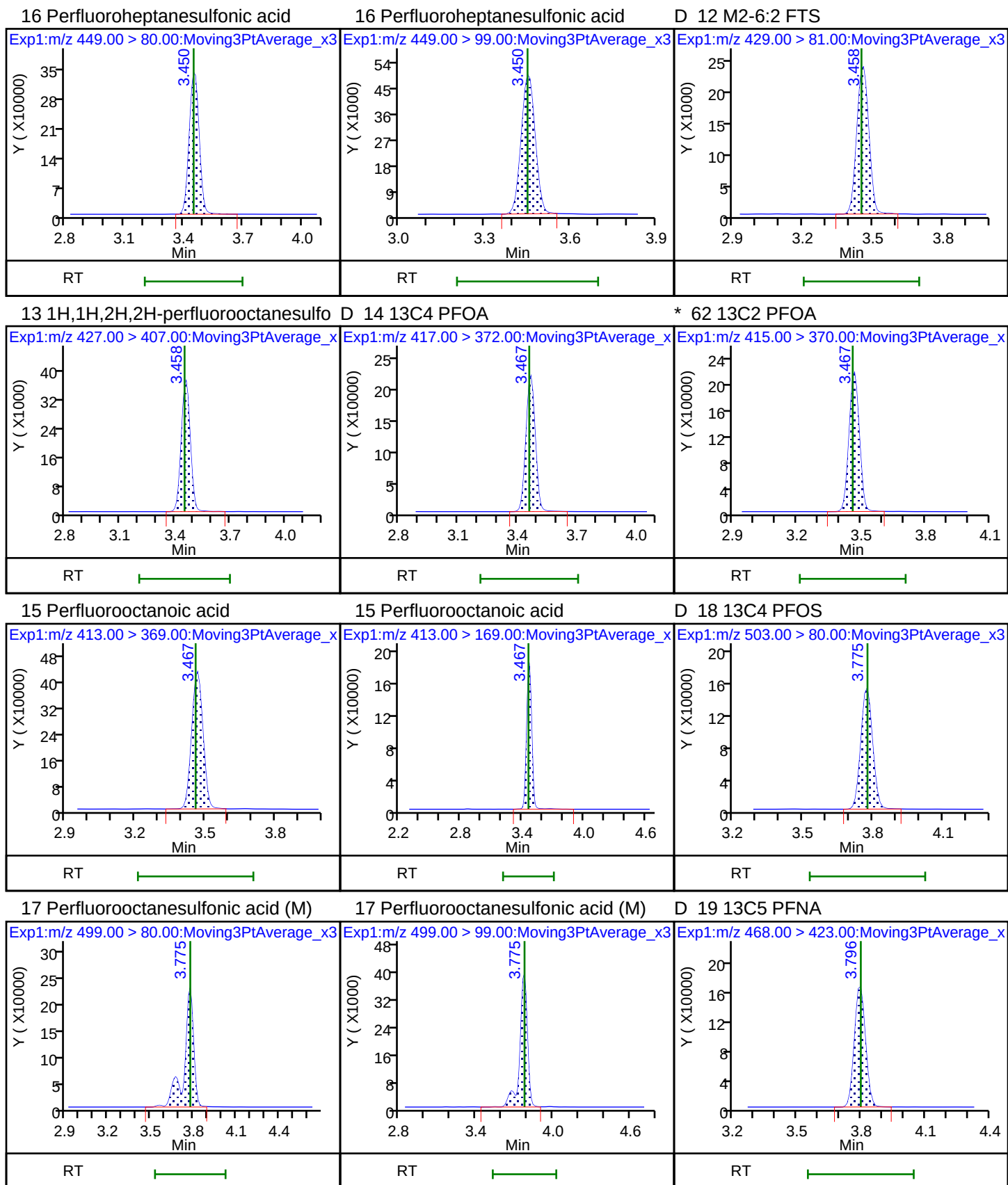
D 7 13C2 PFHxA

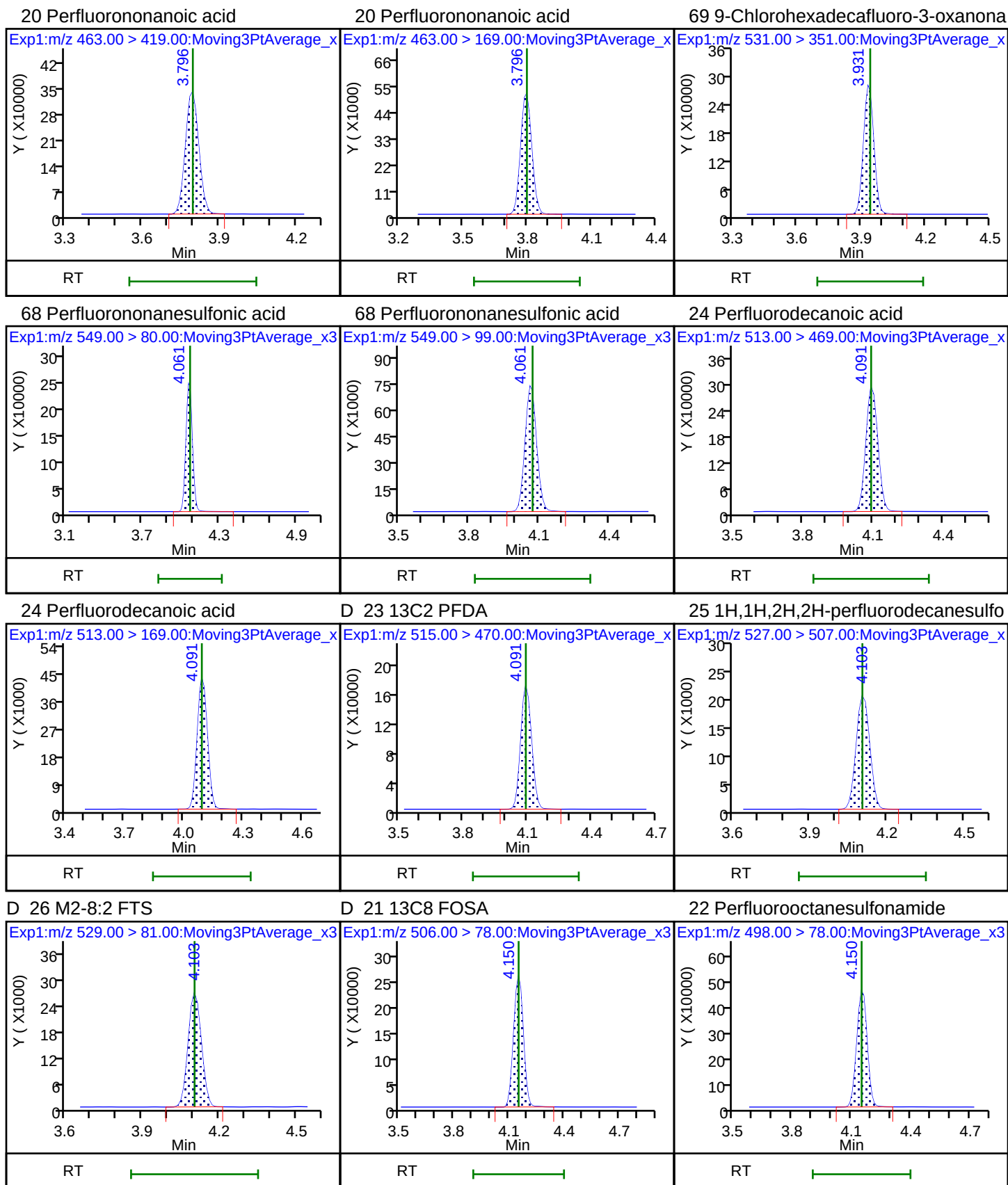
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





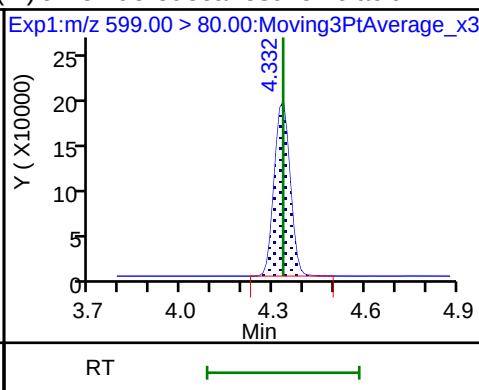
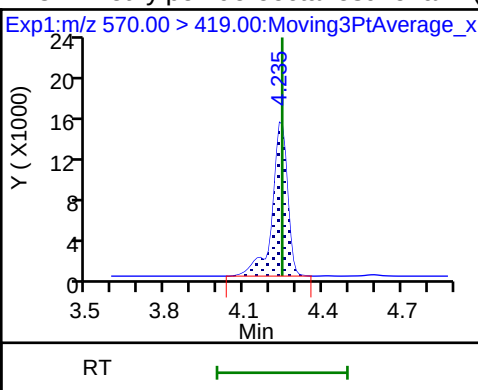
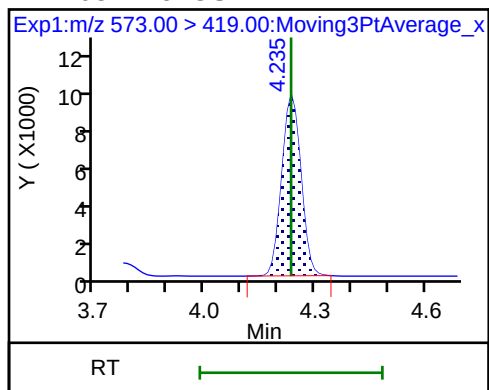




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M₂)

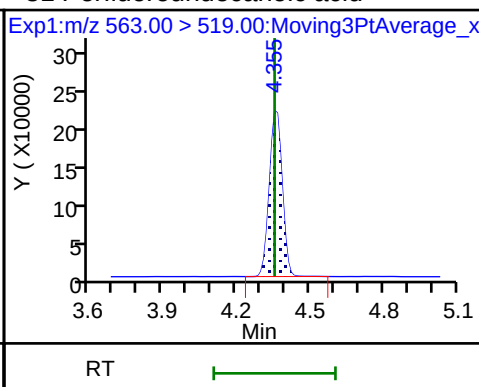
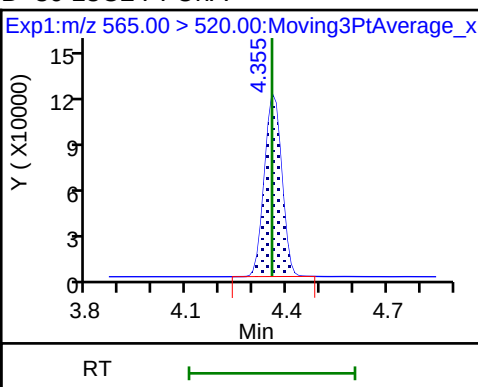
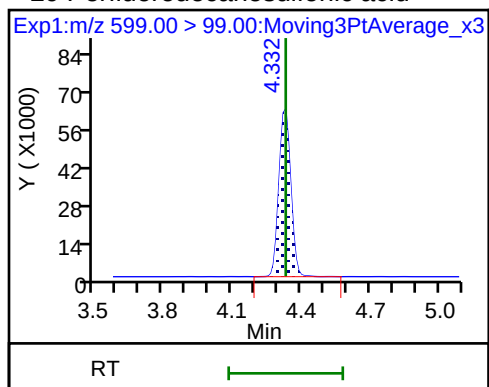
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

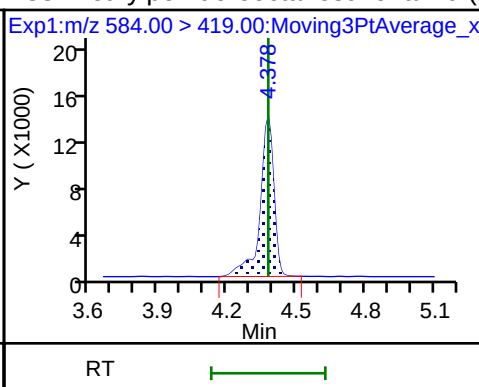
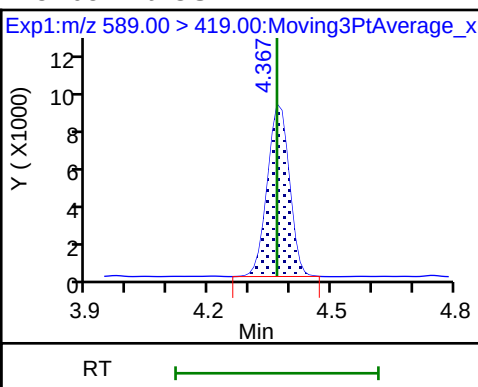
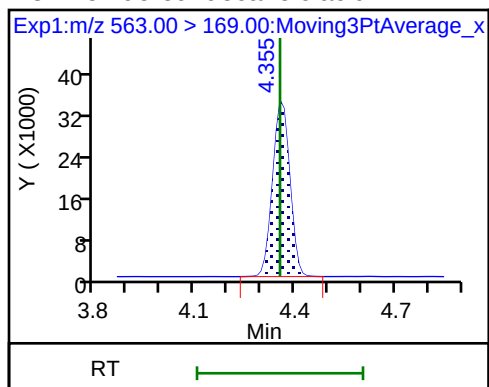
D 30 13C2 PFUNA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

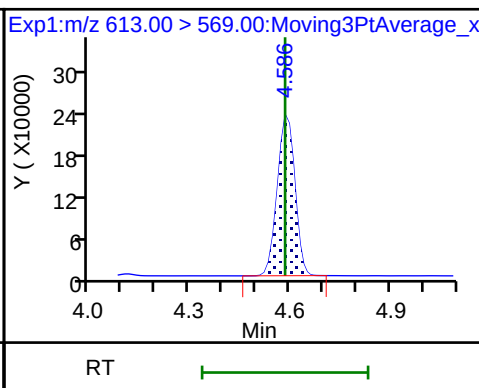
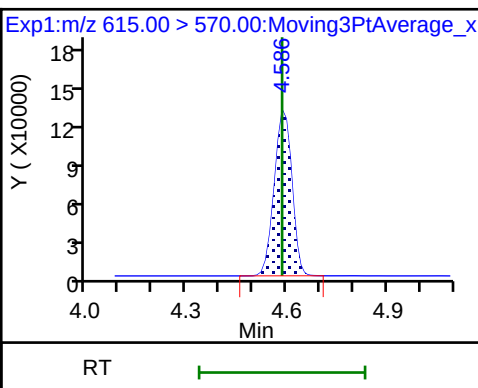
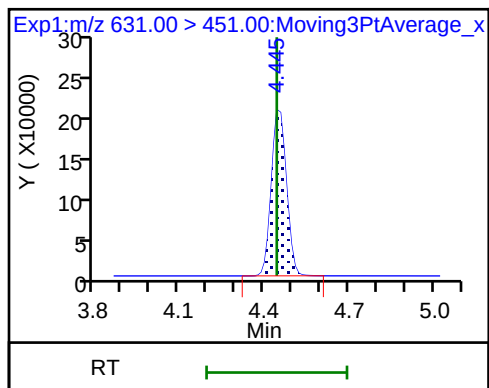
D 32 d5-NEtFOSAA

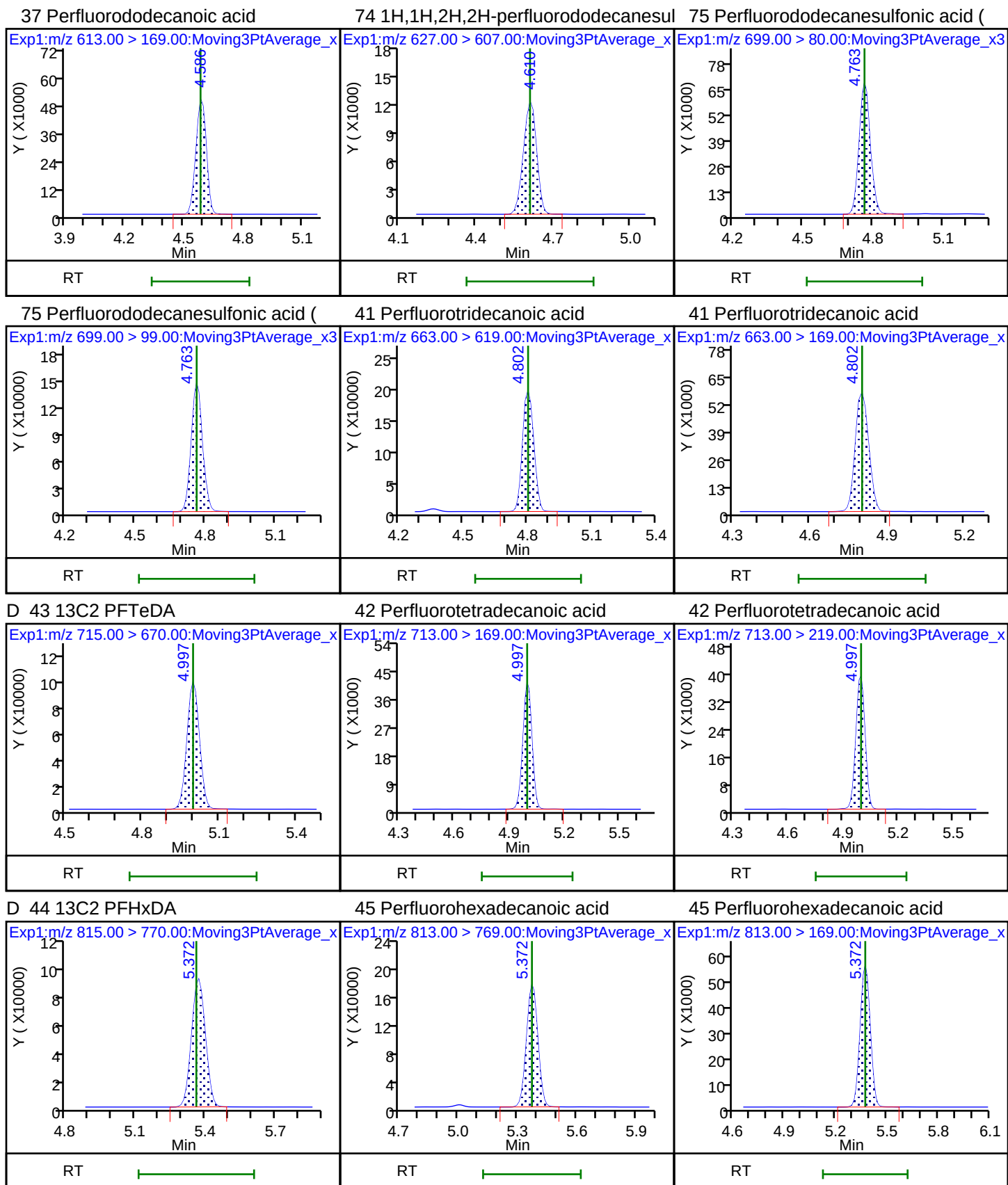
33 N-ethylperfluorooctanesulfonamid (M₂)

66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

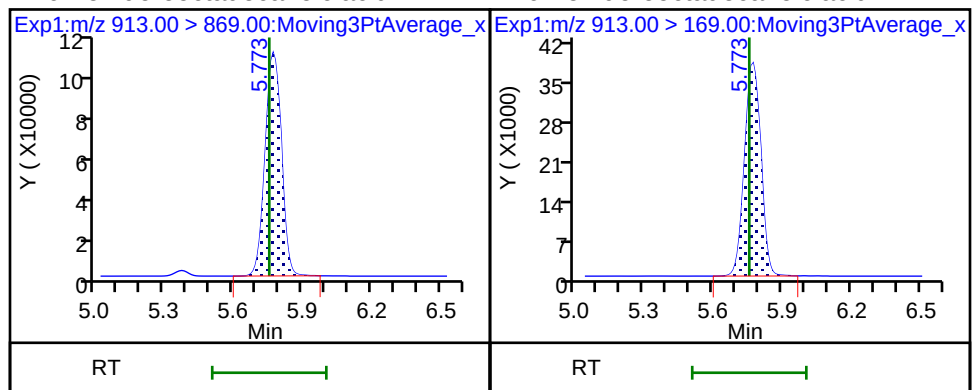
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d

Injection Date: 22-Sep-2020 20:03:40

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

6

Worklist Smp#: 9

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

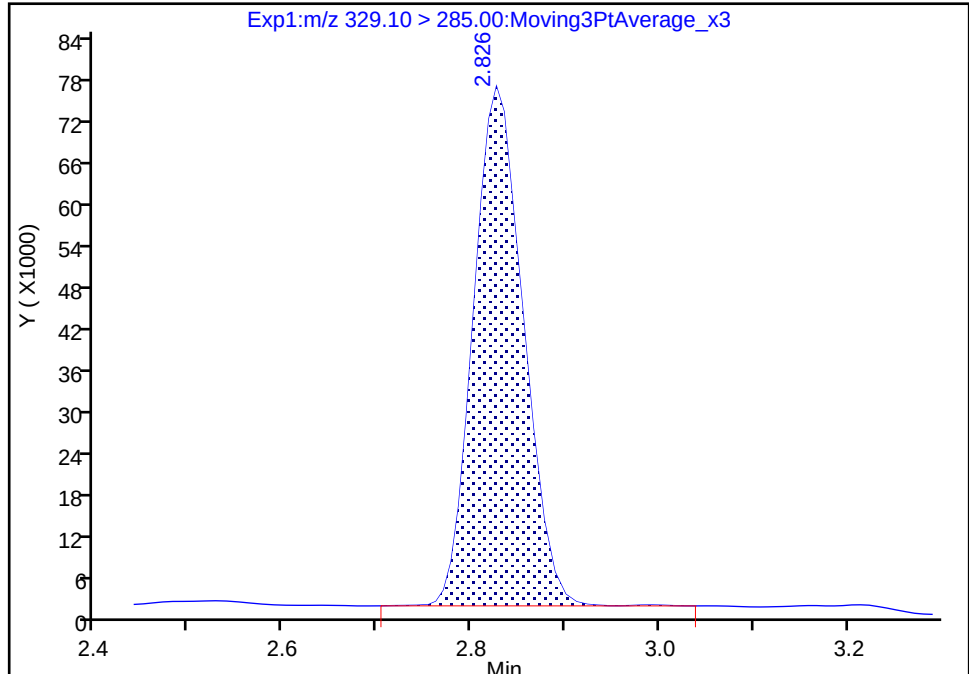
Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

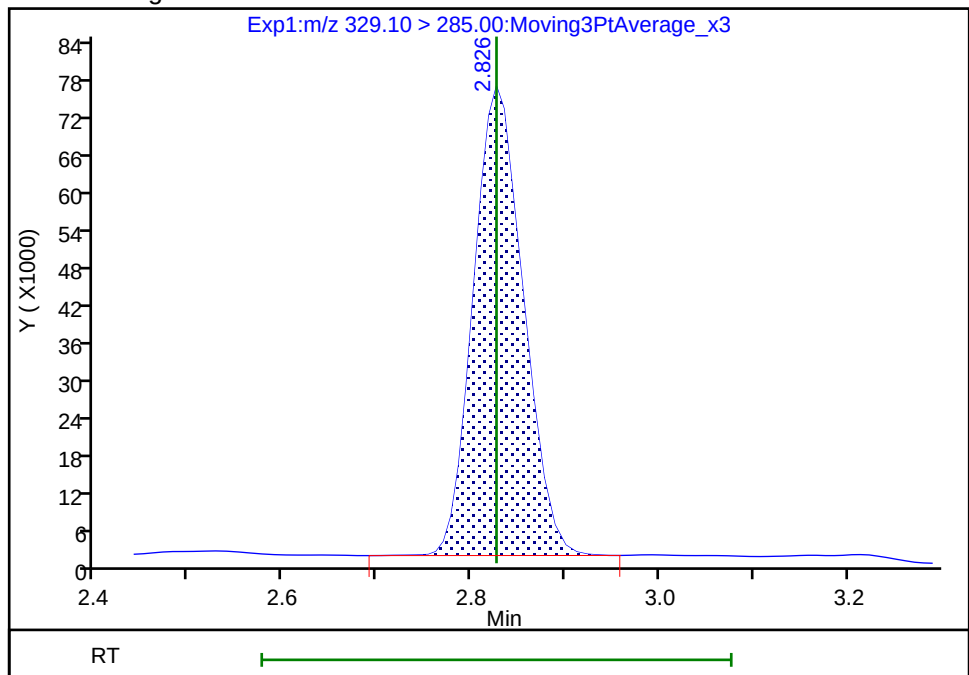
RT: 2.83
Area: 276144
Amount: 1.958305
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 275773
Amount: 2.026380
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:49:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

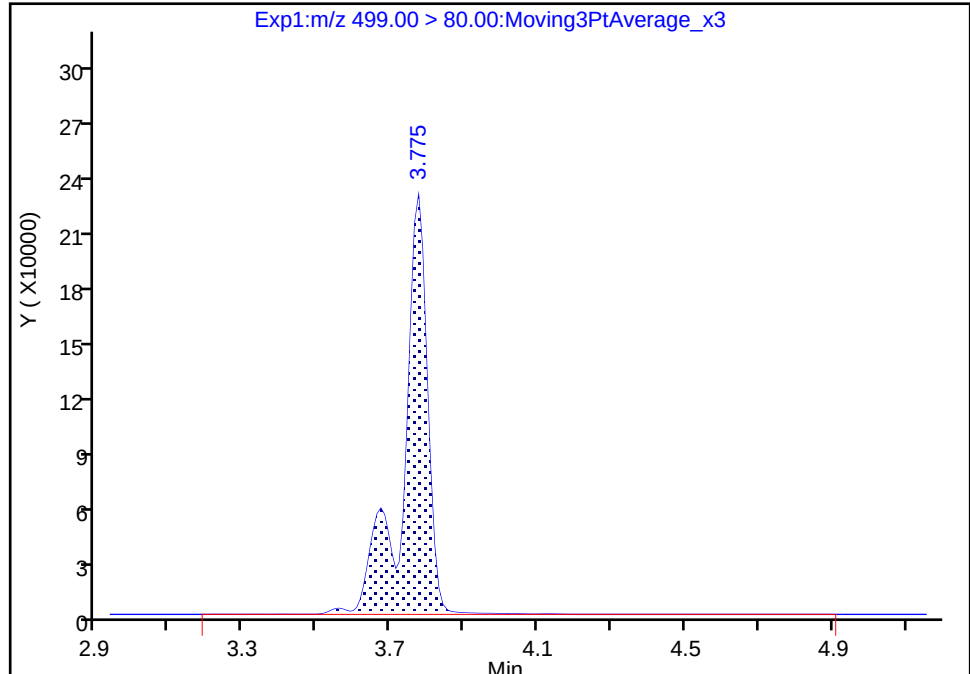
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

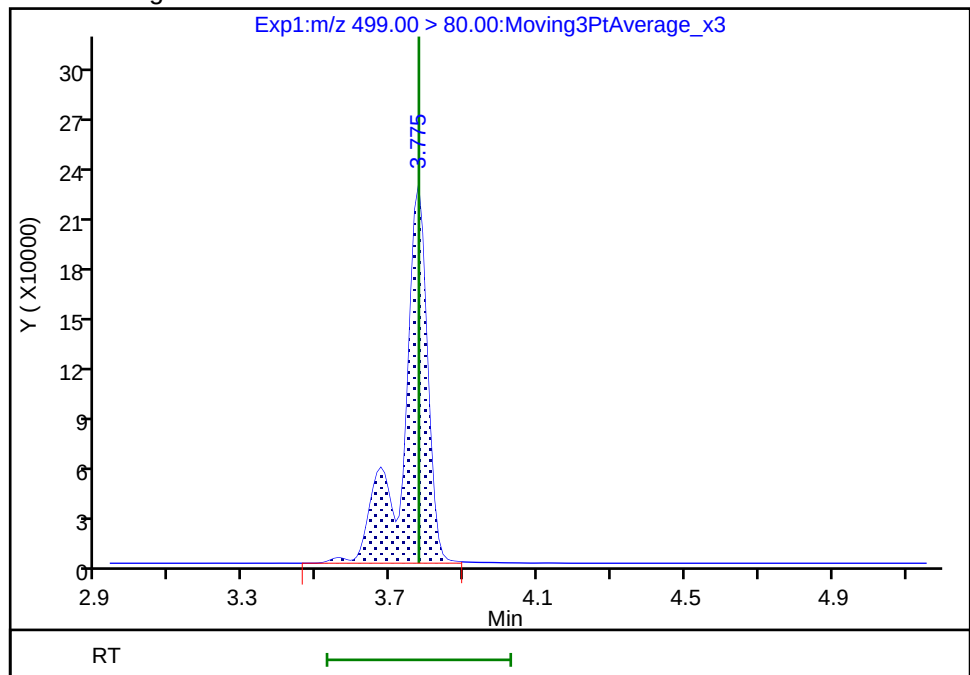
RT: 3.78
Area: 1061660
Amount: 2.182170
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 1055393
Amount: 2.173070
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:43:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

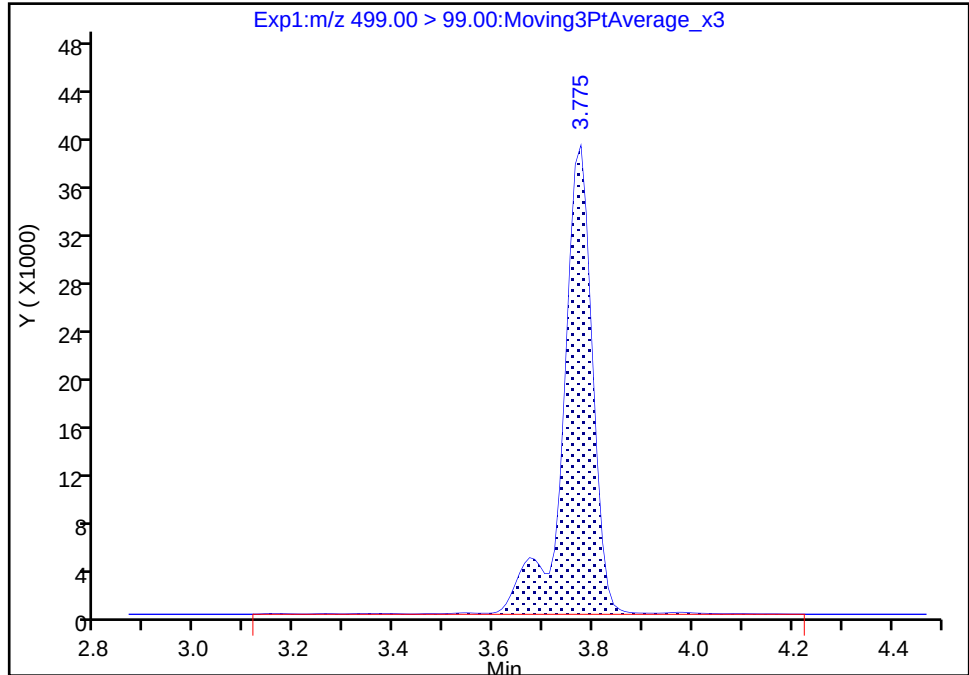
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

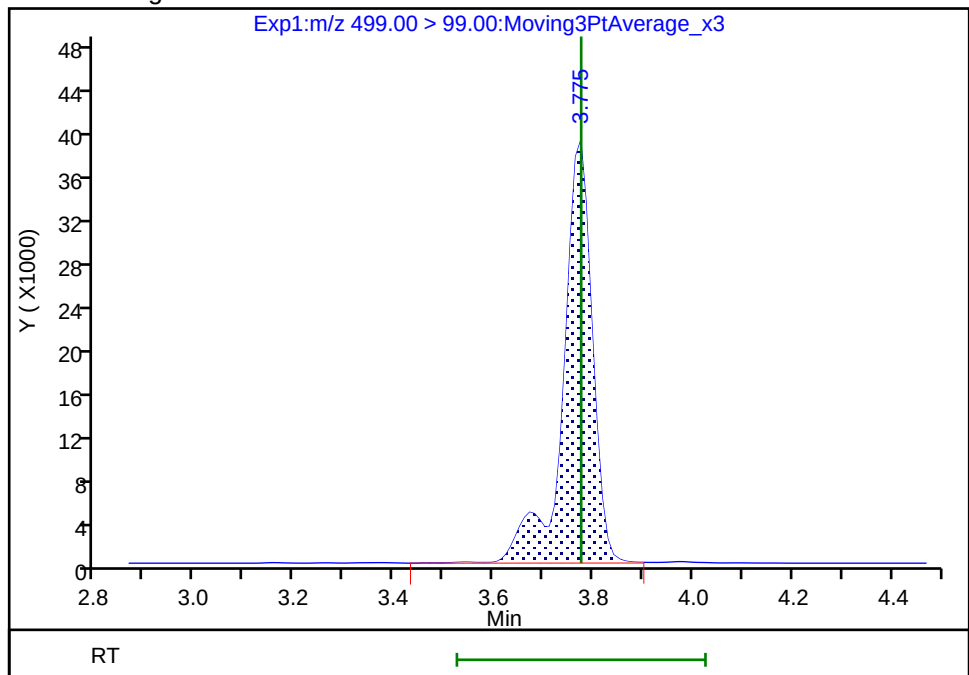
RT: 3.78
Area: 162495
Amount: 2.182170
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 160829
Amount: 2.173070
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:44:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

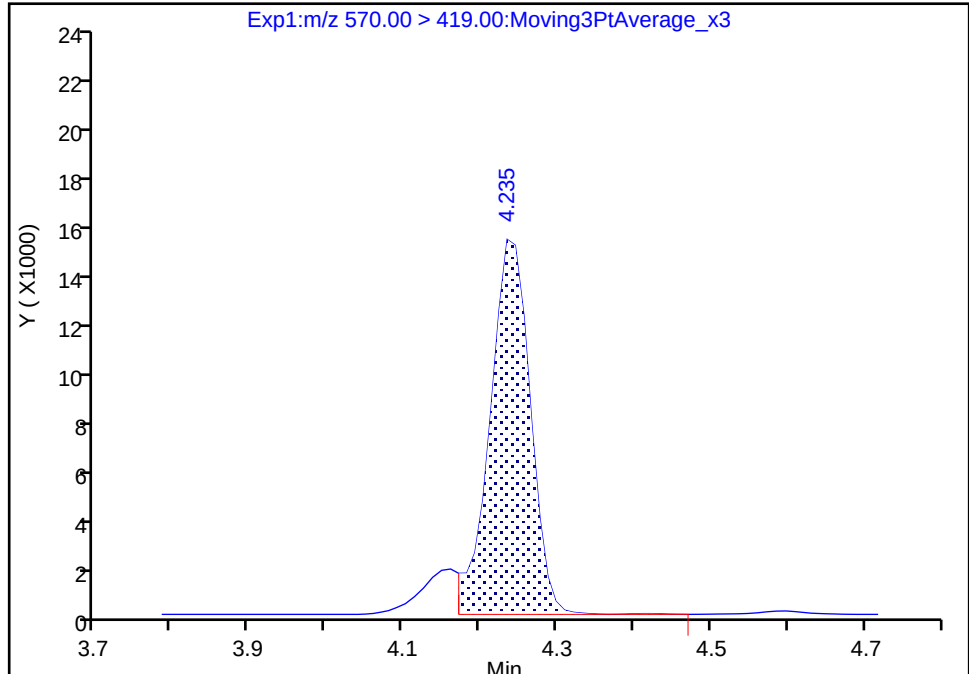
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

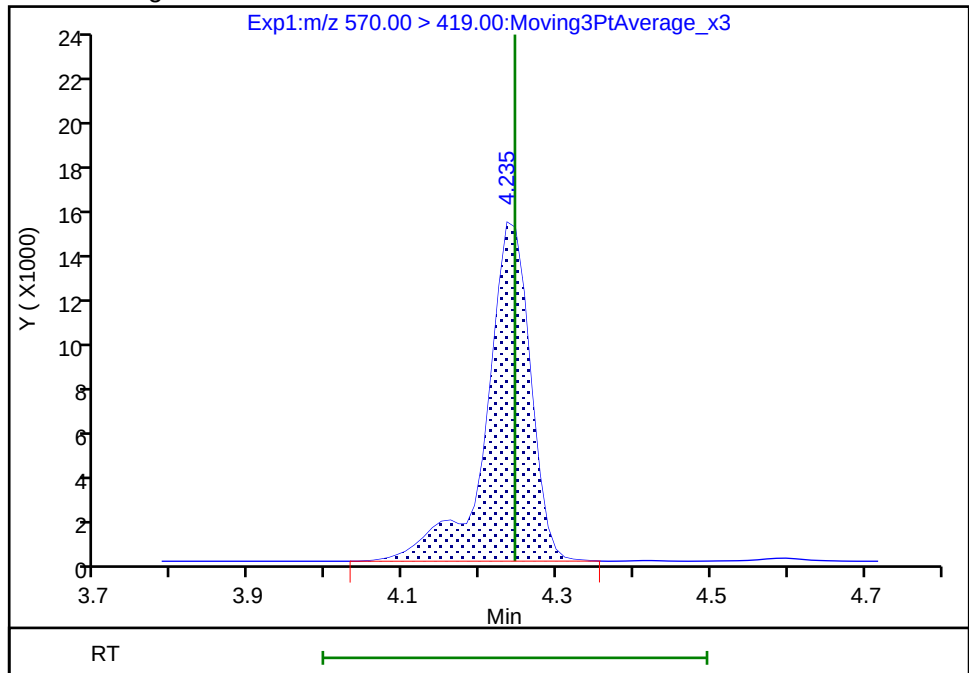
RT: 4.24
Area: 54107
Amount: 2.238450
Amount Units: ng/ml

Processing Integration Results



RT: 4.24
Area: 59827
Amount: 2.401618
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:44:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

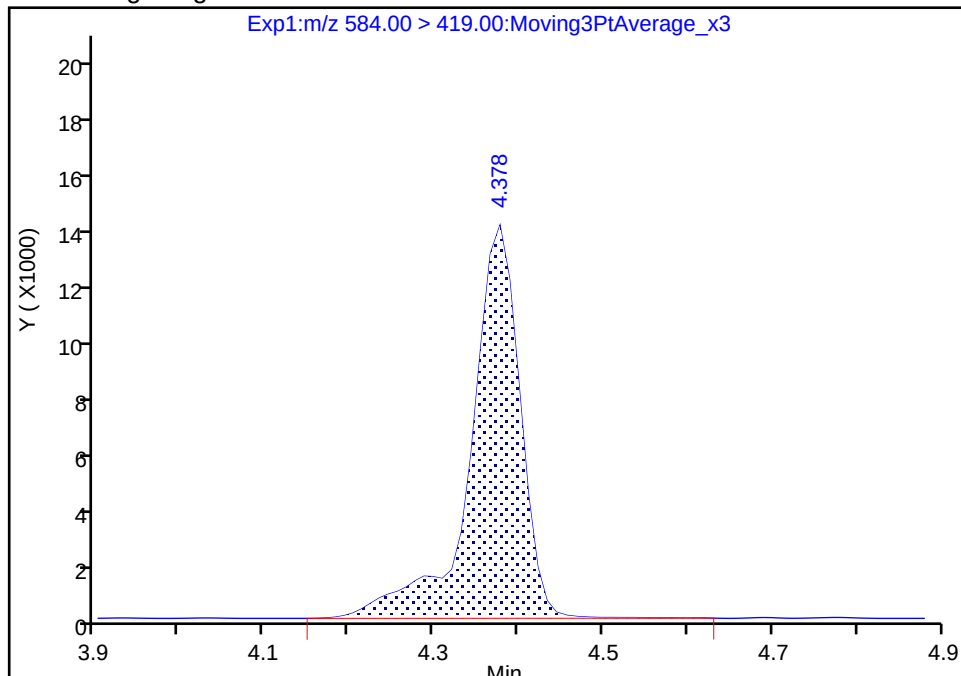
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

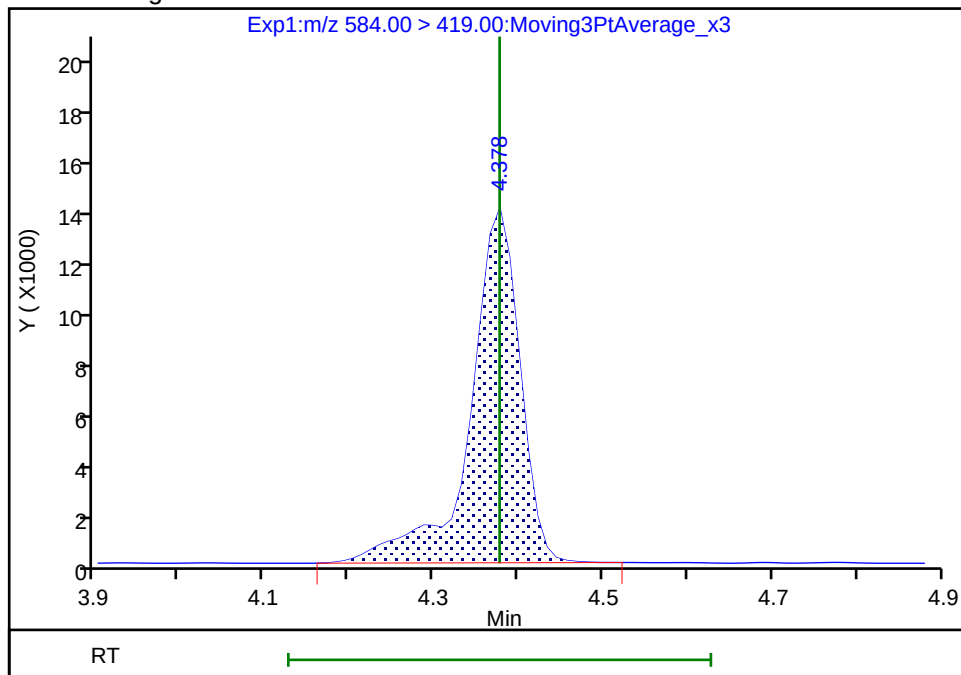
RT: 4.38
Area: 56171
Amount: 2.248187
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 55787
Amount: 2.237037
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:44:21
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 605 of 897

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Lims ID: IC
 Client ID:
 Sample Type: IC Calib Level: 6
 Inject. Date: 22-Sep-2020 20:11:57 ALS Bottle#: 7 Worklist Smp#: 10
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: IC
 Misc. Info.: 200-0042904-010 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 23-Sep-2020 10:27:14 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1050

First Level Reviewer: chirgwinb

Date: 23-Sep-2020 09:46:32

Ratio Calibration: Average of Initial Calibration

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.000	1.990	0.010	0.577	1089016	1.20		95.6	6794	
2 Perfluorobutanoic acid										
212.90 > 169.00	2.000	2.000	0.0	1.000	7000037	8.60		86.0	1120	
D 3 13C5 PFPeA										
267.90 > 223.00	2.339	2.339	0.0	0.675	735752	1.13		90.1	3430	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.339	2.339	0.0	1.000	5728704	9.22		92.2	323	
D 47 13C3 PFBS										
301.90 > 80.00	2.367	2.353	0.014	0.683	917546	1.15		99.2	285391	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.367	2.353	0.014	1.000	6287596	7.99	Target=1.99	90.4	21872	
298.90 > 99.00	2.367	2.353	0.014	1.000	3124977		2.01(1.00-2.99)	90.4	3953	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.678	2.678	0.0	1.000	797633	9.18		98.3	7495	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.678	2.678	0.0	0.772	62748	1.05		90.0	185	
D 7 13C2 PFHxA										
315.00 > 270.00	2.716	2.716	0.0	0.783	783524	1.16		93.2	3584	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.716	2.716	0.0	1.000	5879765	9.32	Target=11.58	93.2	2632	
313.00 > 119.00	2.716	2.716	0.0	1.000	484535		12.13(5.79-17.37)	93.2	1308	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.877	5863855	8.86	Target=3.36	94.5	30534	
349.00 > 99.00	2.716	2.716	0.0	0.877	1685305		3.48(1.68-5.05)	94.5	3086	
D 64 13C3 HFPO-DA										M
332.10 > 287.00	2.826	2.818	0.008	0.815	70282	1.12		89.7	985	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.826	2.826	0.0	1.000	1133832	9.48		94.8	267	
D 11 18O2 PFHxS										
403.00 > 84.00	3.096	3.084	0.012	0.893	661019	1.16		98.0	1326	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.096	3.096	0.0	1.000	5165337	8.37	Target=4.59	91.9	40442	
399.00 > 99.00	3.096	3.096	0.0	1.000	1124976		4.59(2.29-6.88)	91.9	2521	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.107	3.096	0.011	1.004	5075336	8.56	Target=3.29	85.6	1950	
363.00 > 169.00	3.096	3.096	0.0	1.000	1583258		3.21(1.65-4.94)	85.6	3232	
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.096	0.0	0.893	739938	1.21		96.8	4032	
77 DONA										
377.00 > 251.00	3.139	3.132	0.007	0.829	11374670	8.33	Target=2.40	88.4	12962	
377.00 > 85.00	3.139	3.132	0.007	0.829	4924089		2.31(1.20-3.60)	88.4	6463	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.450	3.450	0.0	0.911	4550478	8.86	Target=6.94	93.1	12180	
449.00 > 99.00	3.450	3.450	0.0	0.911	695711		6.54(3.47-10.41)	93.1	2333	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.458	3.450	0.008	0.998	81966	1.07		90.5	706	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.458	3.450	0.008	1.000	490337	8.90		93.9	1316	
D 14 13C4 PFOA										
417.00 > 372.00	3.467	3.458	0.009	1.000	719638	1.15		92.0	3362	
* 62 13C2 PFOA										
415.00 > 370.00	3.467	3.458	0.009		794905	1.25			4618	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.467	3.458	0.009	1.000	5418021	9.12	Target=2.26	91.2	1871	
413.00 > 169.00	3.467	3.458	0.009	1.000	2308733		2.35(1.13-3.38)	91.2	3376	
D 18 13C4 PFOS										
503.00 > 80.00	3.785	3.776	0.009	1.092	529677	1.13		95.0	1290	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.785	3.776	0.009	1.000	4001517	8.31	Target=6.66	89.5	1521	M
499.00 > 99.00	3.785	3.776	0.009	1.000	606003		6.60(3.33-9.99)	89.5	1931	M
D 19 13C5 PFNA										
468.00 > 423.00	3.807	3.797	0.010	1.098	597837	1.13		90.7	5525	
20 Perfluorononanoic acid										
463.00 > 419.00	3.807	3.797	0.010	1.000	4592773	9.43	Target=6.07	94.3	1440	
463.00 > 169.00	3.807	3.797	0.010	1.000	749675		6.13(3.03-9.10)	94.3	5852	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.940	3.941	-0.001	1.041	3507025	8.27		88.8	14797	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.071	4.072	-0.001	1.075	3398939	8.93	Target=3.49	93.0	3368	
549.00 > 99.00	4.071	4.072	-0.001	1.075	939574		3.62(1.75-5.24)	93.0	4813	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.103	4.092	0.011	1.000	4346718	9.73	Target=6.79	97.3	4302	
513.00 > 169.00	4.103	4.092	0.011	1.000	602640		7.21(3.39-10.18)	97.3	4020	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.103	4.092	0.011	1.183	564176	1.12		89.2	3760	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.114	4.103	0.011	1.000	285233	9.14		95.4	3749	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.114	4.103	0.011	1.187	94366	1.05		87.7	1085	
D 21 13C8 FOSA										
506.00 > 78.00	4.162	4.151	0.011	1.200	999304	1.23		98.1	4093	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.162	4.151	0.011	1.000	6644752	8.89		88.9	3454	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.246	4.235	0.011	1.225	33892	1.18		94.1	28.8	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.246	4.245	0.001	1.000	245746	9.60		96.0	1754	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.332	0.0	1.145	2628599	8.25	Target=3.11	85.6	6414	
599.00 > 99.00	4.332	4.332	0.0	1.145	899338		2.92(1.55-4.66)	85.6	6559	
D 30 13C2 PFUnA										
565.00 > 520.00	4.367	4.355	0.012	1.259	449002	1.18		94.0	5342	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.367	4.355	0.012	1.000	3251975	9.18	Target=6.33	91.8	3329	
563.00 > 169.00	4.367	4.355	0.012	1.000	494661		6.57(3.17-9.50)	91.8	4551	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.378	4.366	0.012	1.263	33401	1.08		86.3	457	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.378	4.378	0.0	1.000	218696	8.94		89.4	2112	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.458	4.444	0.014	1.178	3122376	8.54		90.6	8141	
D 36 13C2 PFDaA										
615.00 > 570.00	4.598	4.585	0.013	1.326	467874	1.16		92.7	3983	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.598	4.585	0.013	1.000	3229716	8.85	Target=5.23	88.5	2416	
613.00 > 169.00	4.598	4.585	0.013	1.000	627428		5.15(2.62-7.85)	88.5	7300	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.620	4.610	0.010	1.123	161243	9.30		96.5	2396	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.772	4.763	0.009	1.261	898184	8.79	Target=0.47	90.8	2376	
699.00 > 99.00	4.772	4.763	0.009	1.261	1976646		0.45(0.23-0.70)	90.8	10897	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.802	4.802	0.0	1.044	2651985	8.55	Target=3.57	85.5	1282	
663.00 > 169.00	4.802	4.802	0.0	1.044	814251		3.26(1.78-5.35)	85.5	5655	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.441	331810	1.15		92.3	4213	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.997	4.998	-0.001	1.000	563548	9.27	Target=1.07	92.7	7719	
713.00 > 219.00	4.997	4.998	-0.001	1.000	540778		1.04(0.54-1.61)	92.7	5844	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.372	5.361	0.011	1.549	388694	1.19		95.4	4000	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.372	5.372	0.0	1.000	2576342	9.51	Target=3.00	95.1	1418	
813.00 > 169.00	5.372	5.372	0.0	1.000	847928		3.04(1.50-4.49)	95.1	8646	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.764	5.756	0.008	1.073	2004833	8.63	Target=2.88	86.3	1241	
913.00 > 169.00	5.755	5.756	-0.001	1.071	712740		2.81(1.44-4.32)	86.3	2715	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC6_00005

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d

Injection Date: 22-Sep-2020 20:11:57

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#: 7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

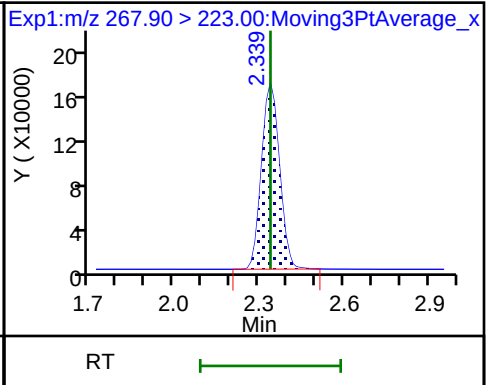
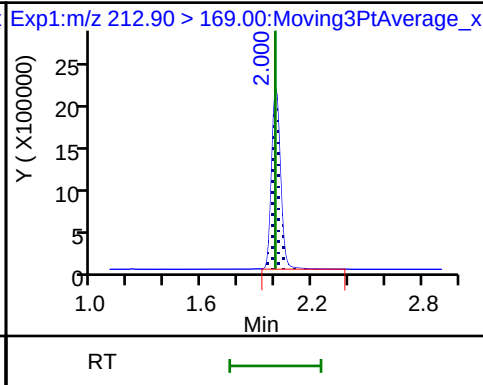
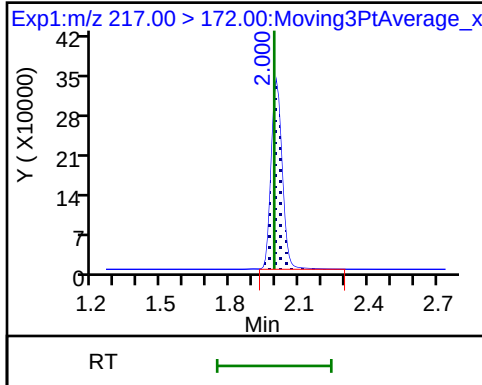
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

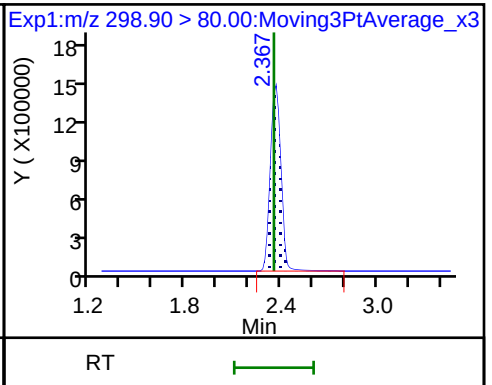
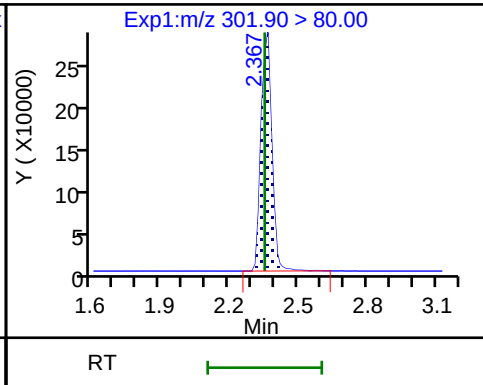
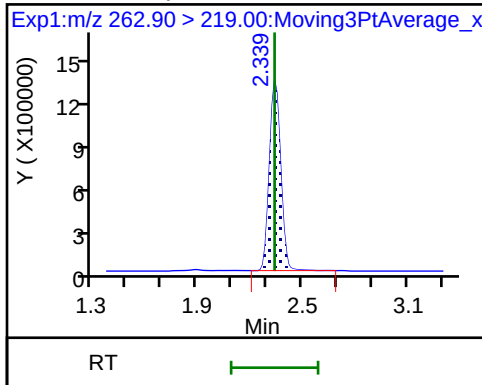
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

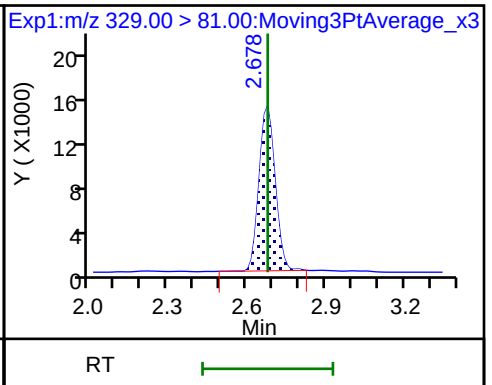
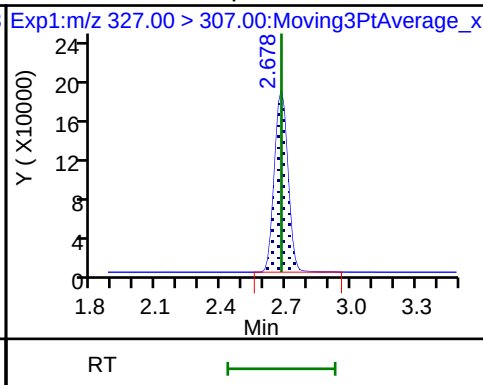
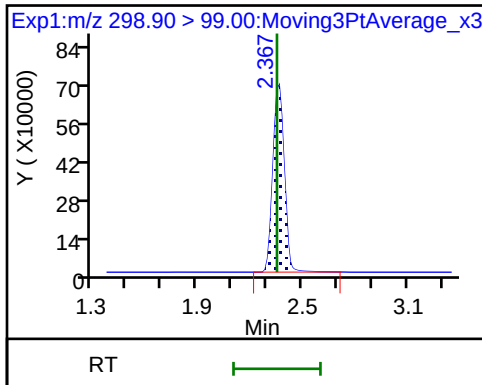
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

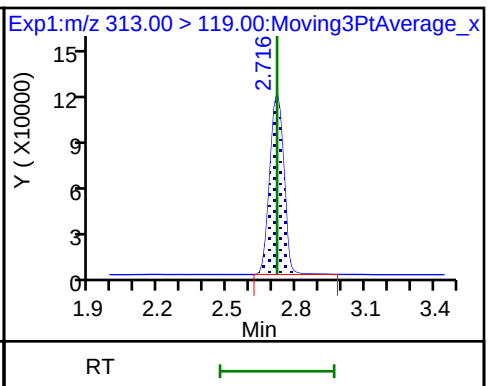
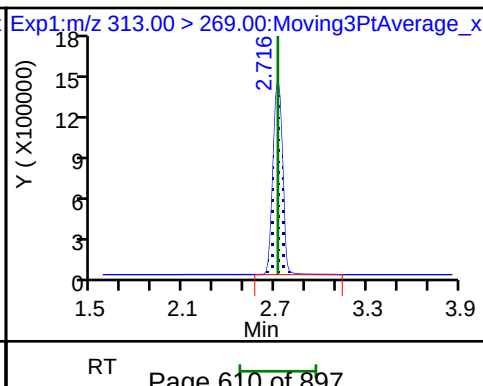
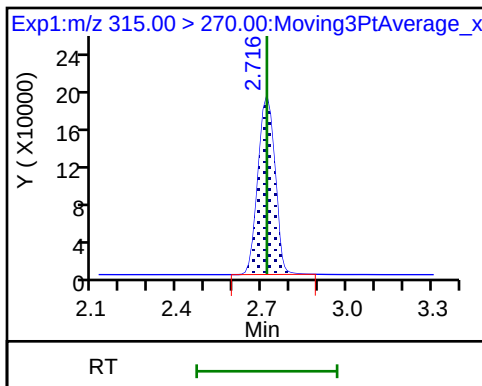
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

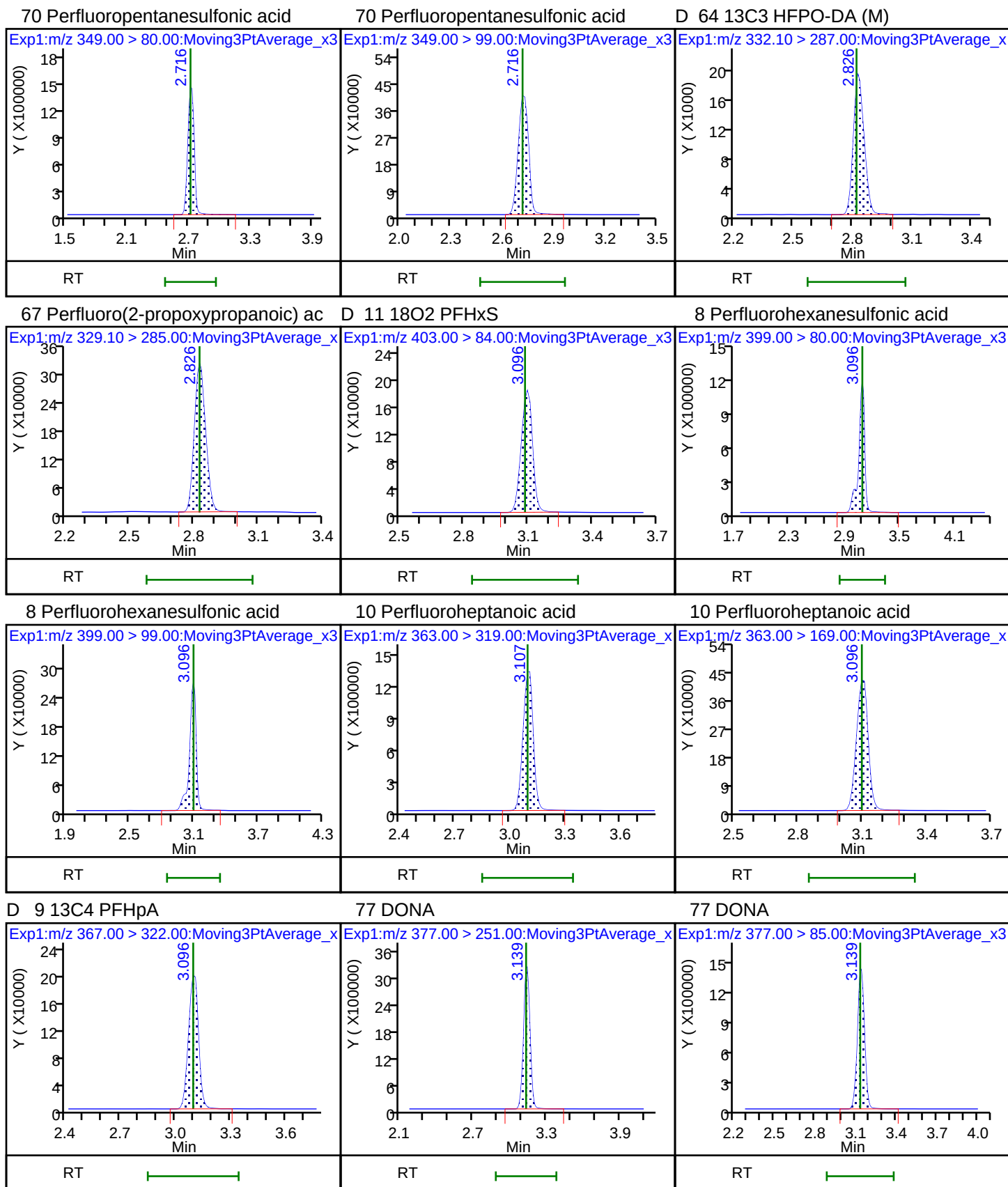


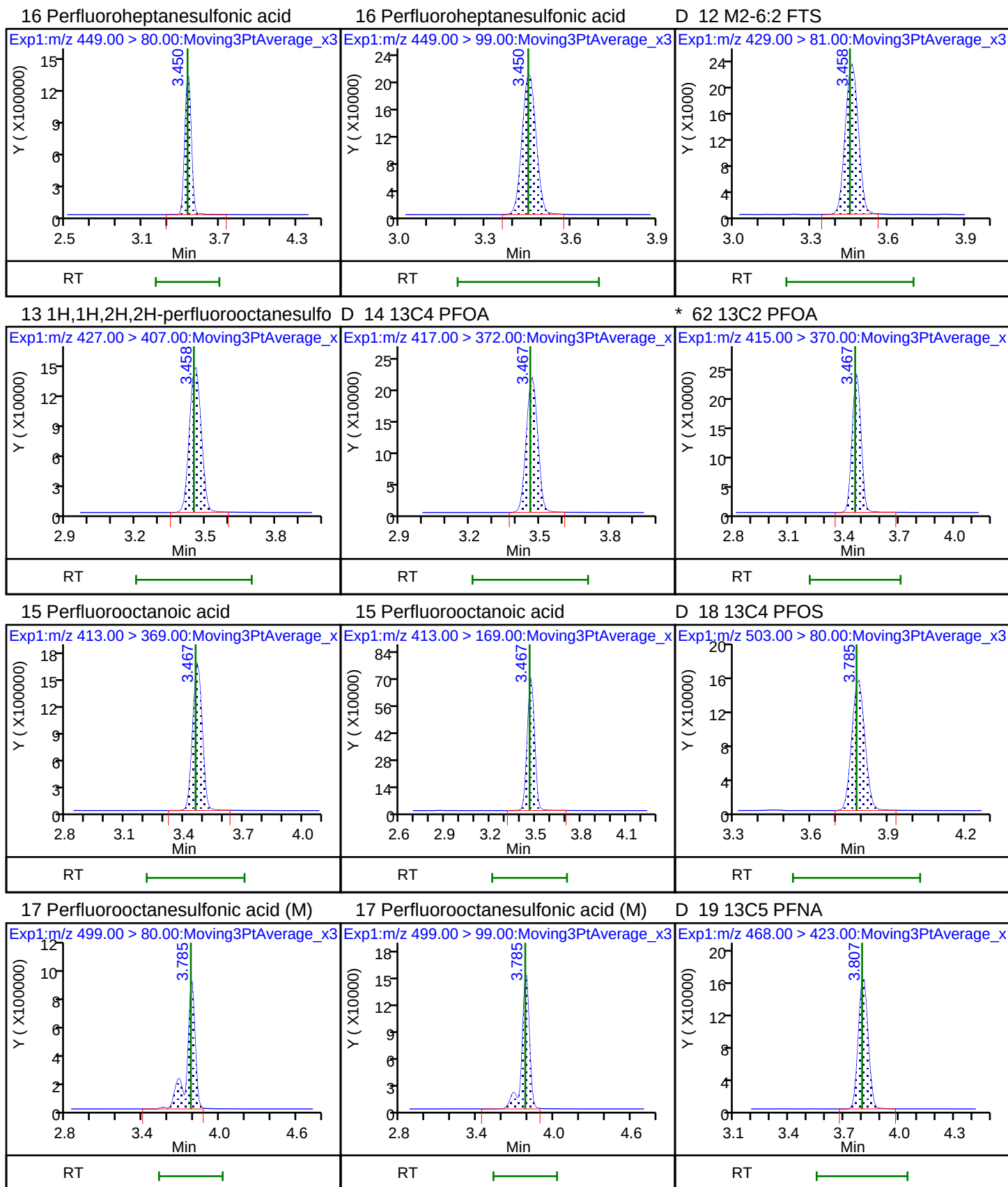
D 7 13C2 PFHxA

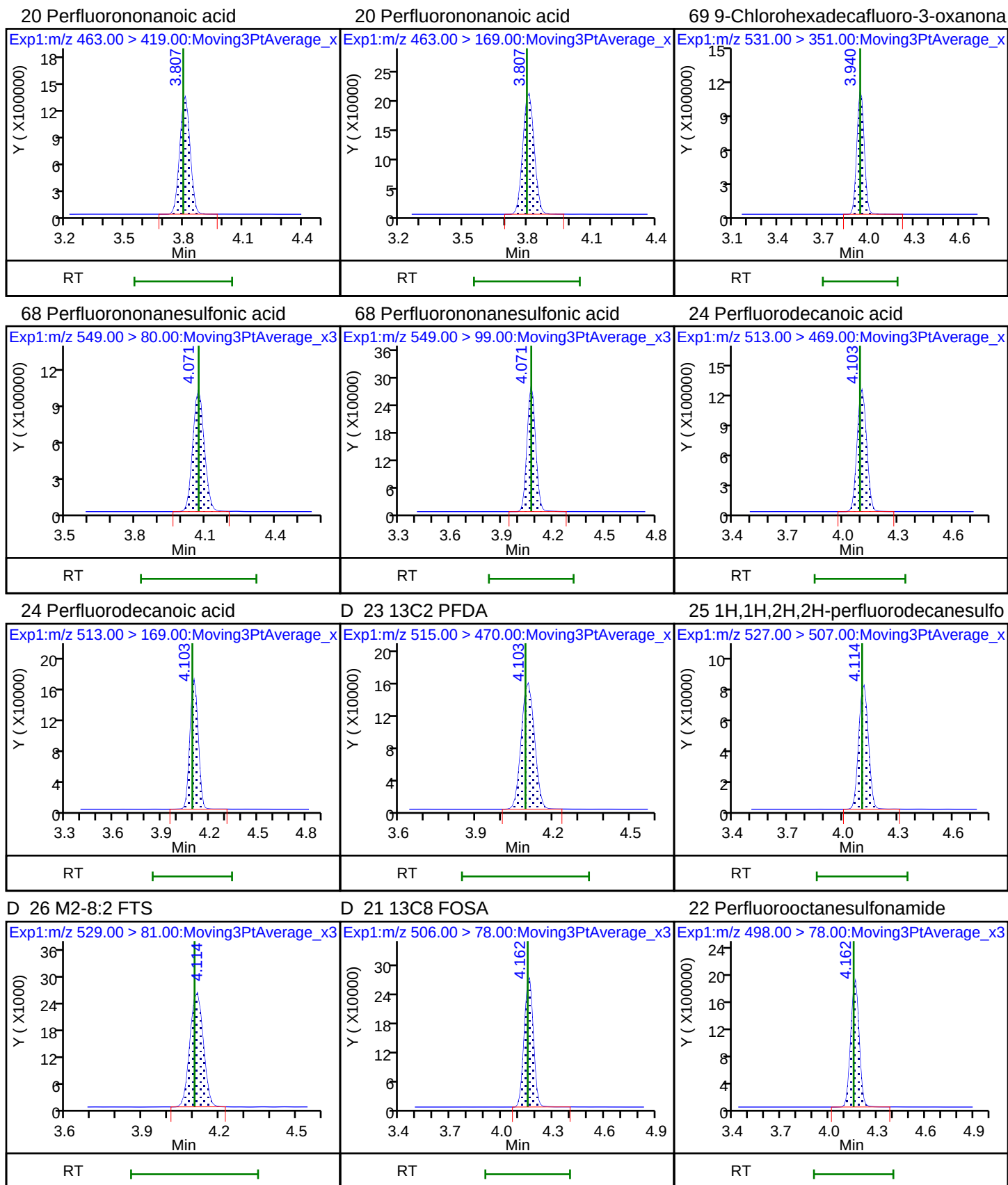
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

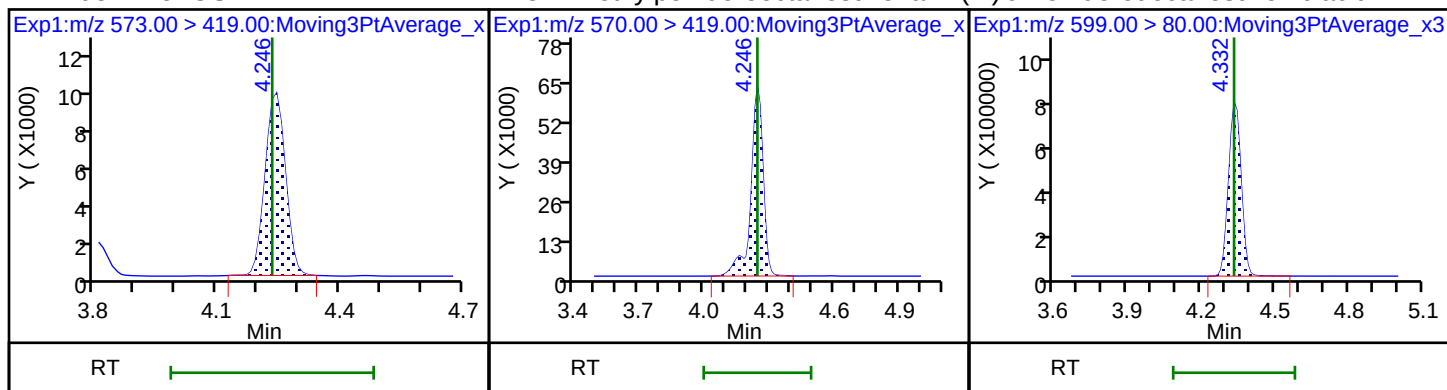








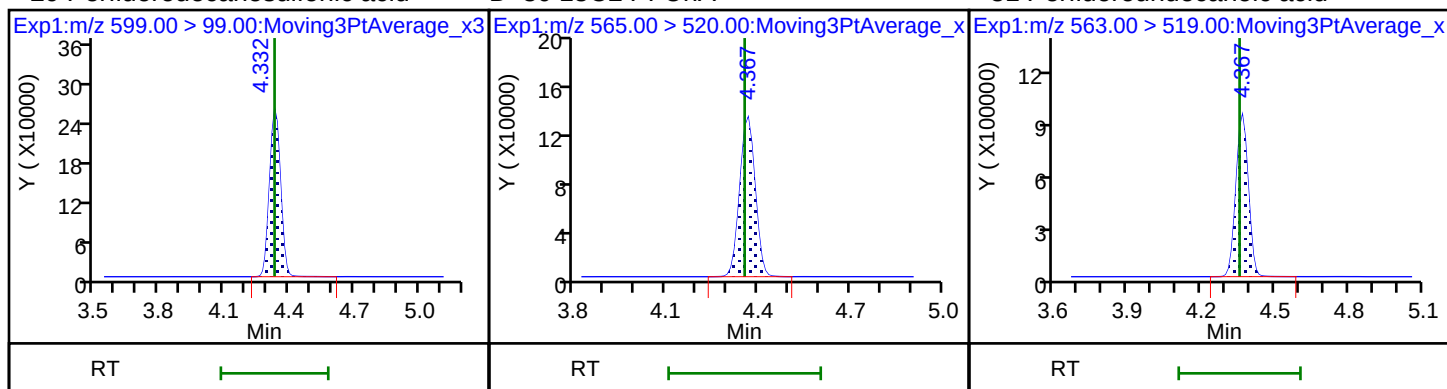
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M₂9 Perfluorodecanesulfonic acid

29 Perfluorodecanesulfonic acid

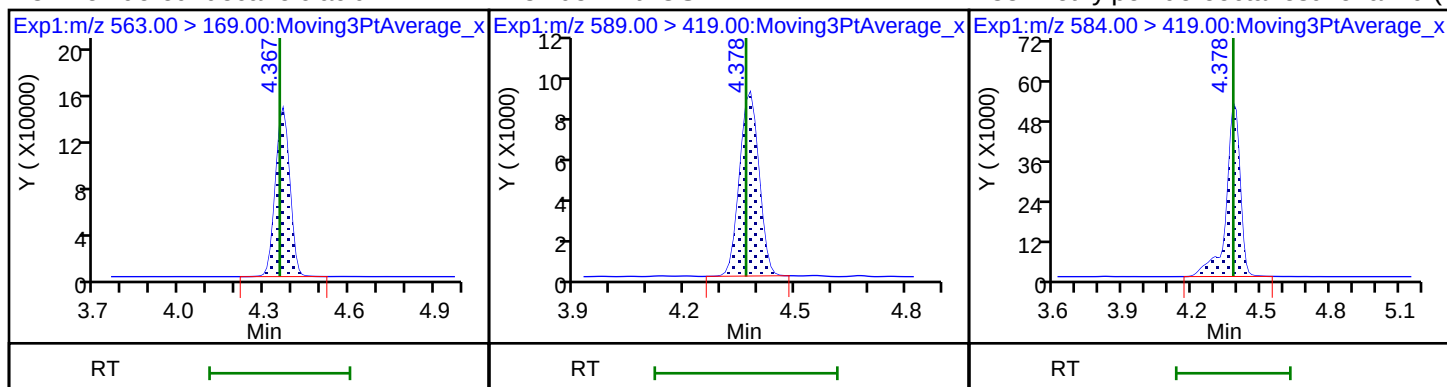
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

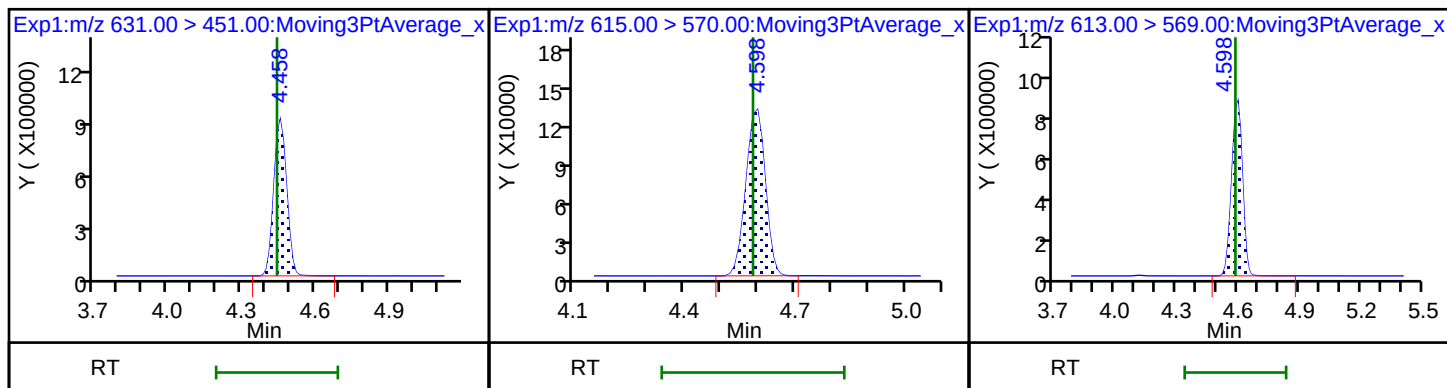
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid (M₂33 N-ethylperfluorooctanesulfonamid (M

66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

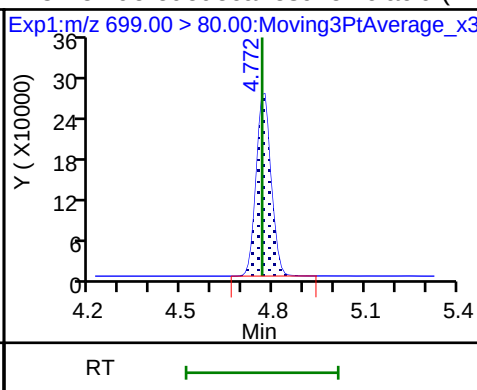
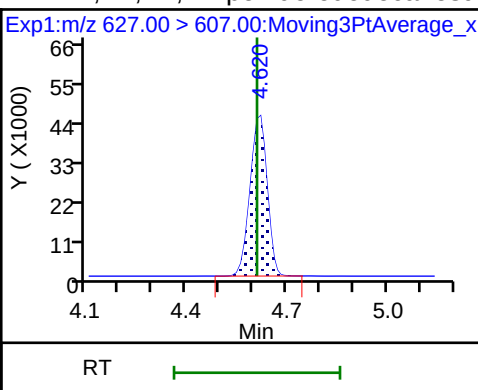
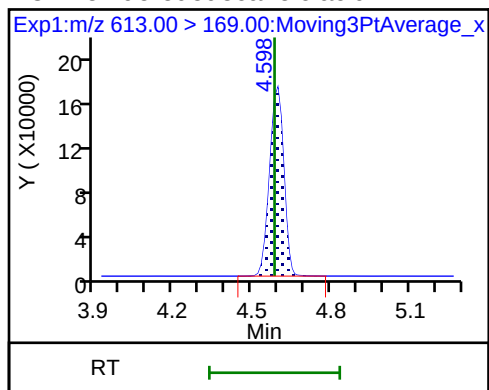
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

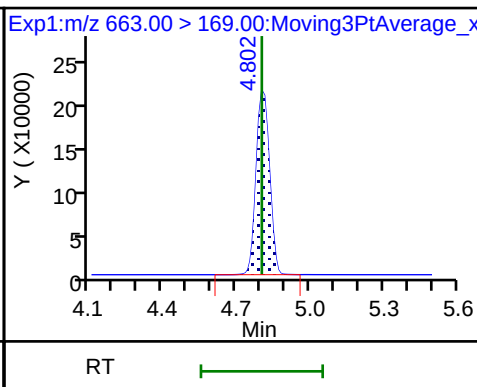
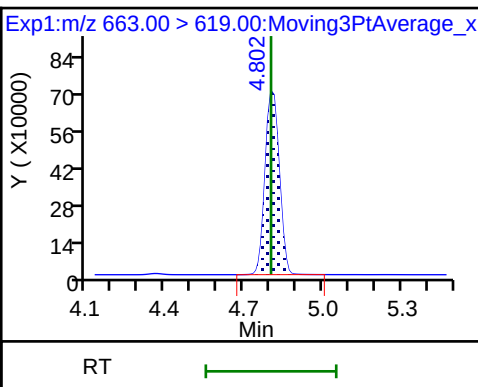
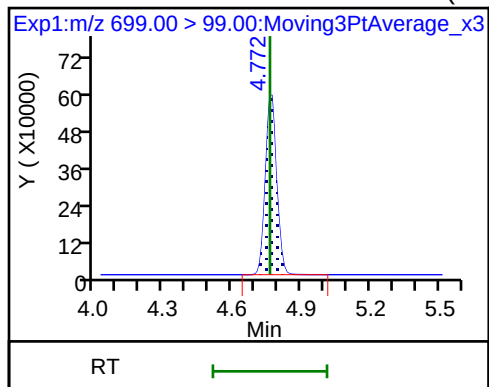
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

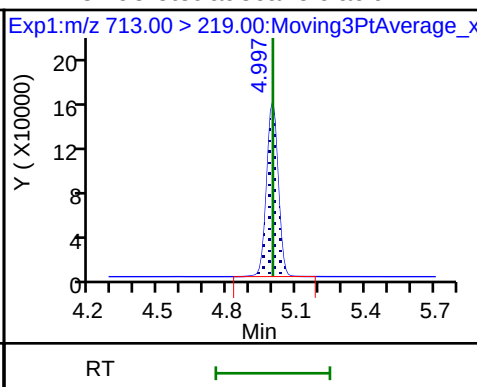
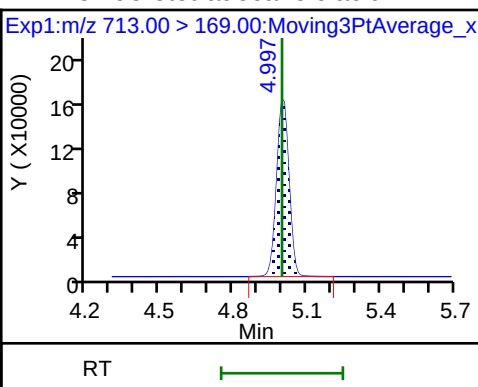
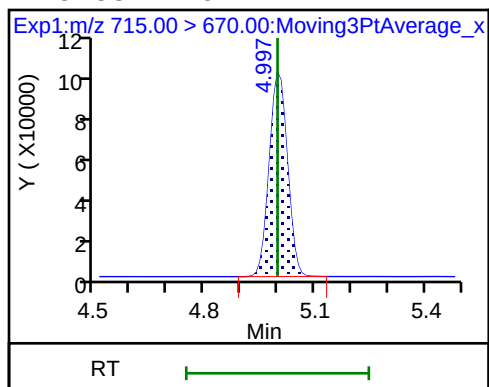
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

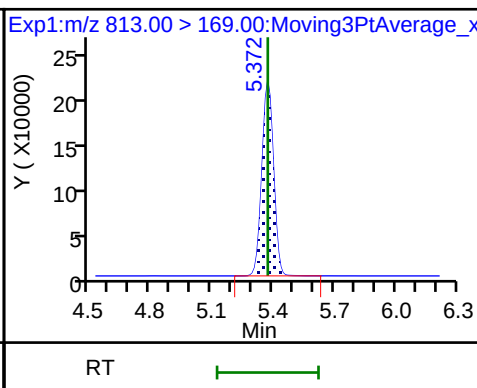
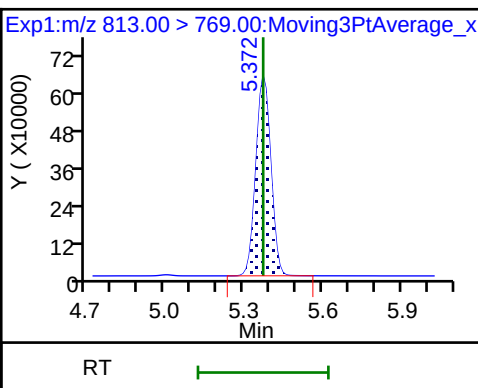
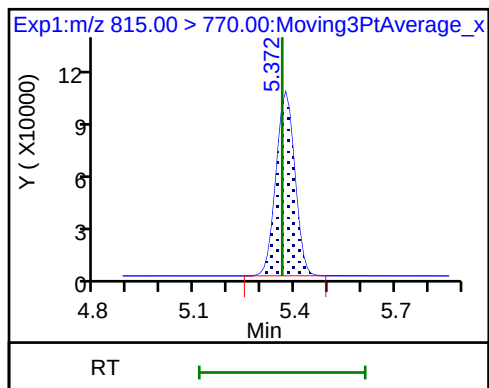
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

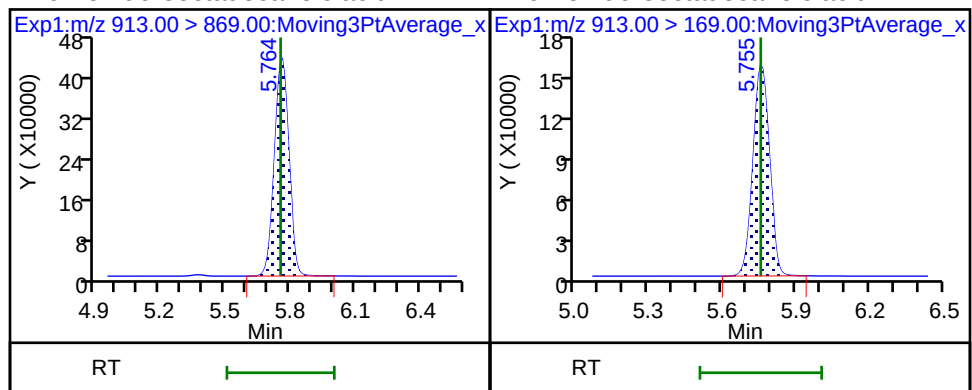
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d

Injection Date: 22-Sep-2020 20:11:57

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

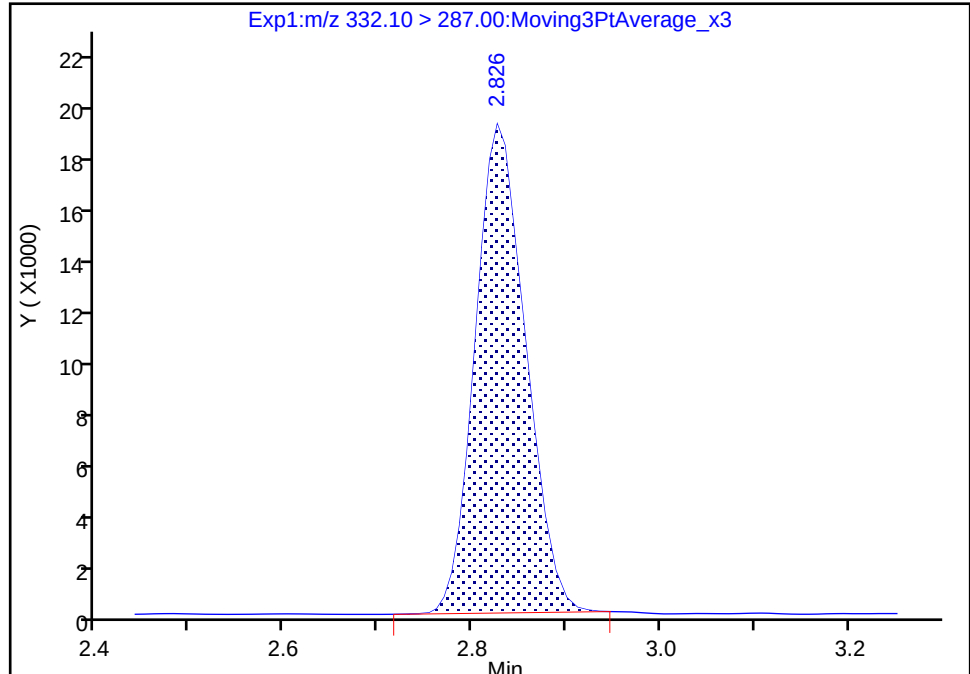
Detector: EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

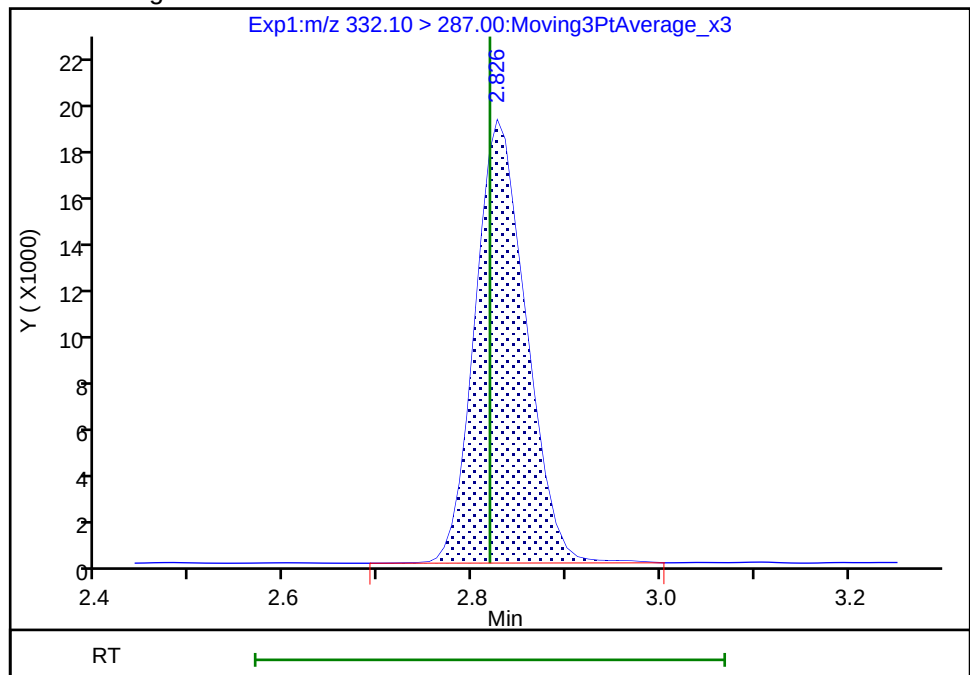
RT: 2.83
Area: 69467
Amount: 1.110400
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 70282
Amount: 1.121479
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:53:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

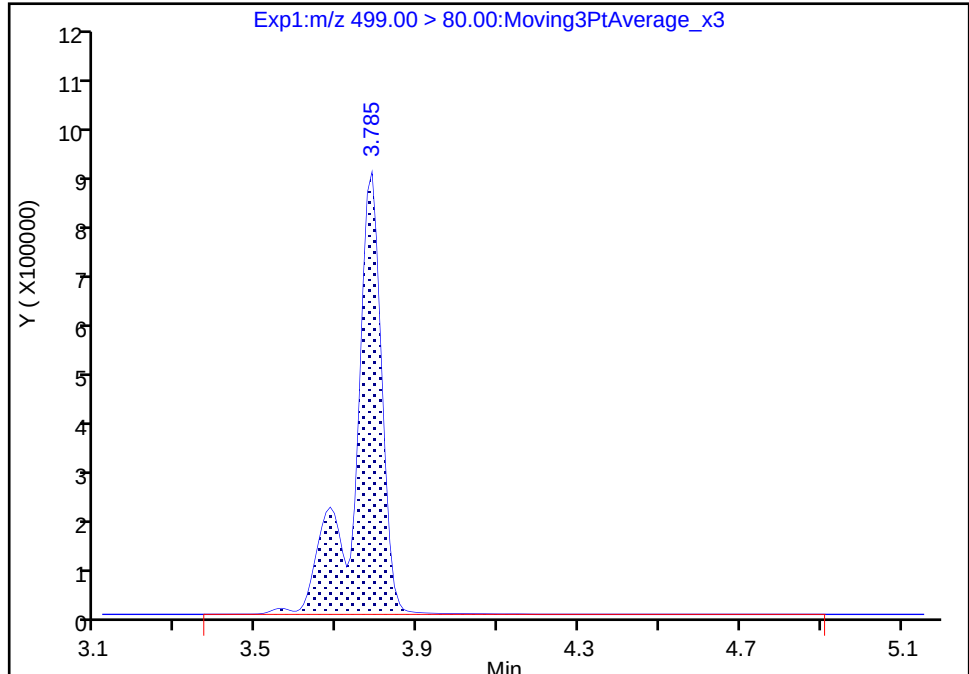
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
Injection Date: 22-Sep-2020 20:11:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

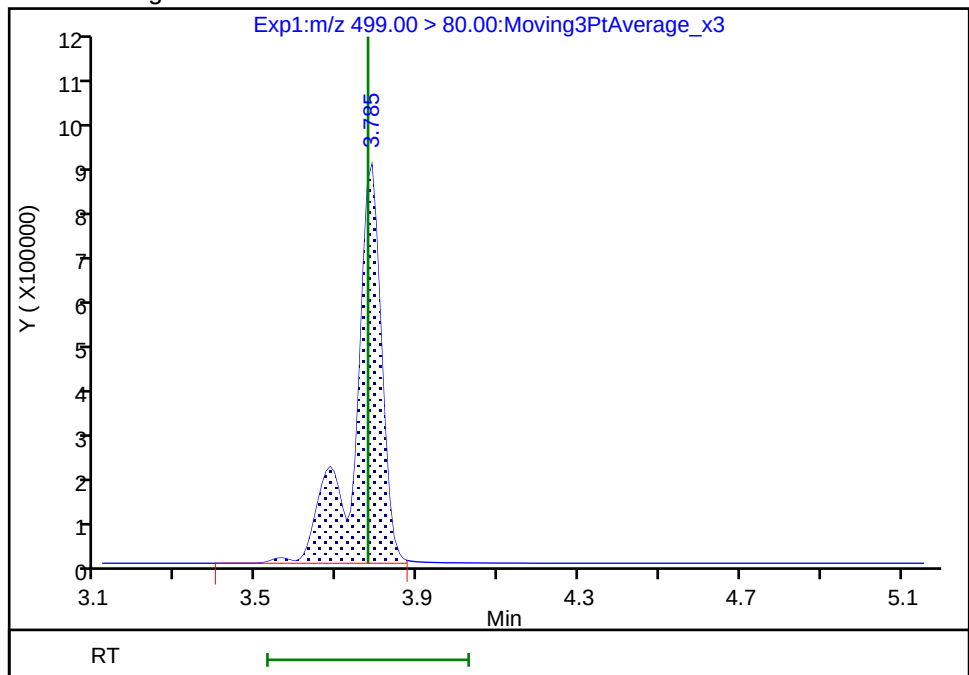
RT: 3.79
Area: 4023417
Amount: 8.346248
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 4001517
Amount: 8.307597
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:46:01
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 618 of 897

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d

Injection Date: 22-Sep-2020 20:11:57

Instrument ID: LC812

Lims ID: IC

Client ID:

Operator ID: lc812tech

ALS Bottle#:

7

Worklist Smp#: 10

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

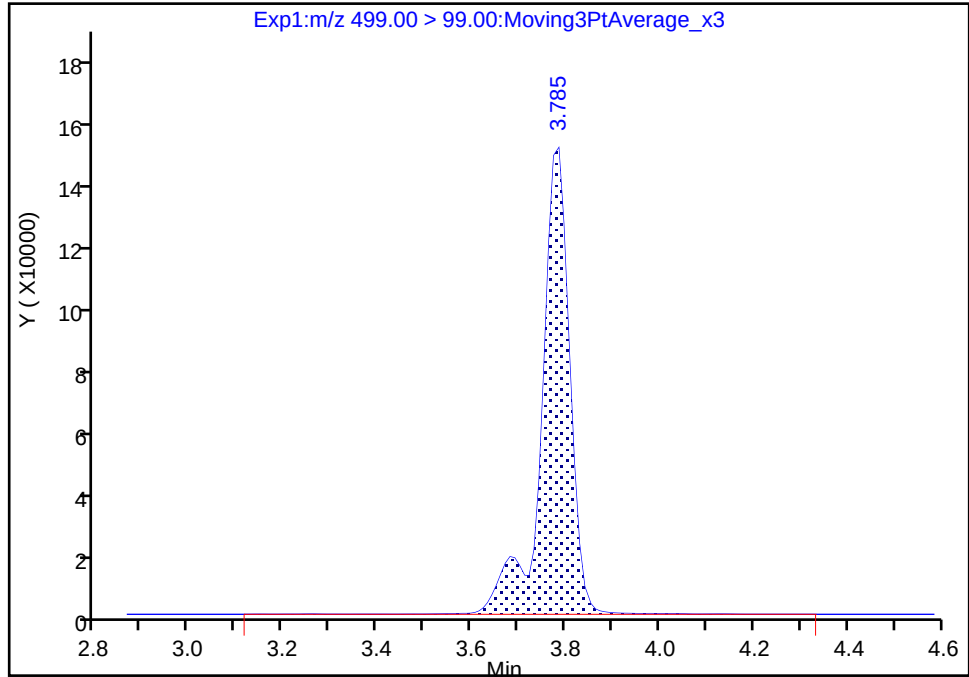
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

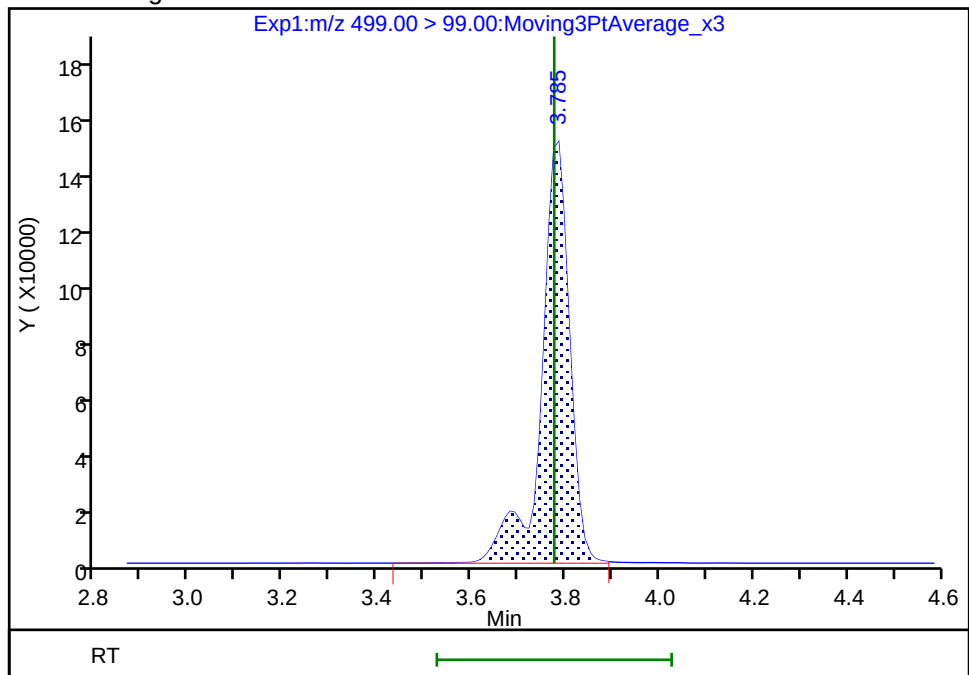
RT: 3.79
Area: 608895
Amount: 8.346248
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 606003
Amount: 8.307597
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:46:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

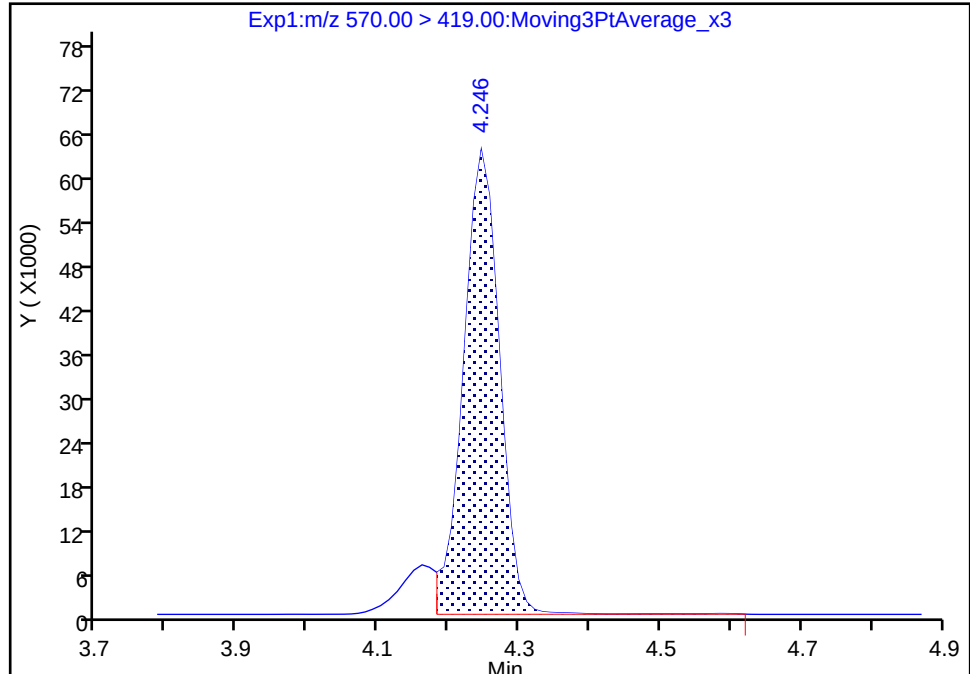
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
Injection Date: 22-Sep-2020 20:11:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

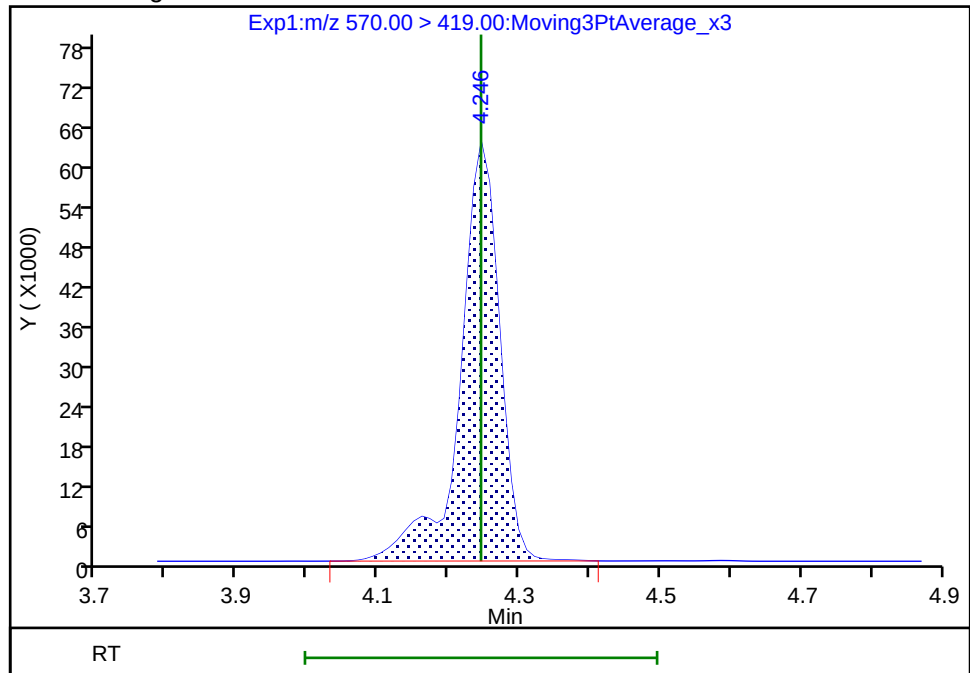
RT: 4.25
Area: 223673
Amount: 8.868980
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 245746
Amount: 9.604113
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:46:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

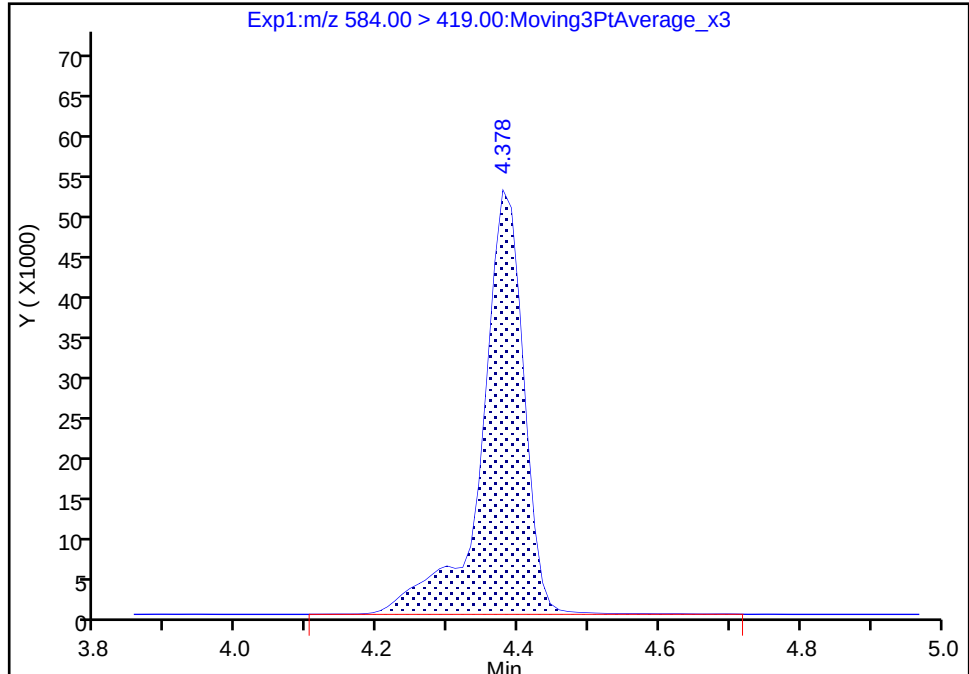
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
Injection Date: 22-Sep-2020 20:11:57 Instrument ID: LC812
Lims ID: IC
Client ID:
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

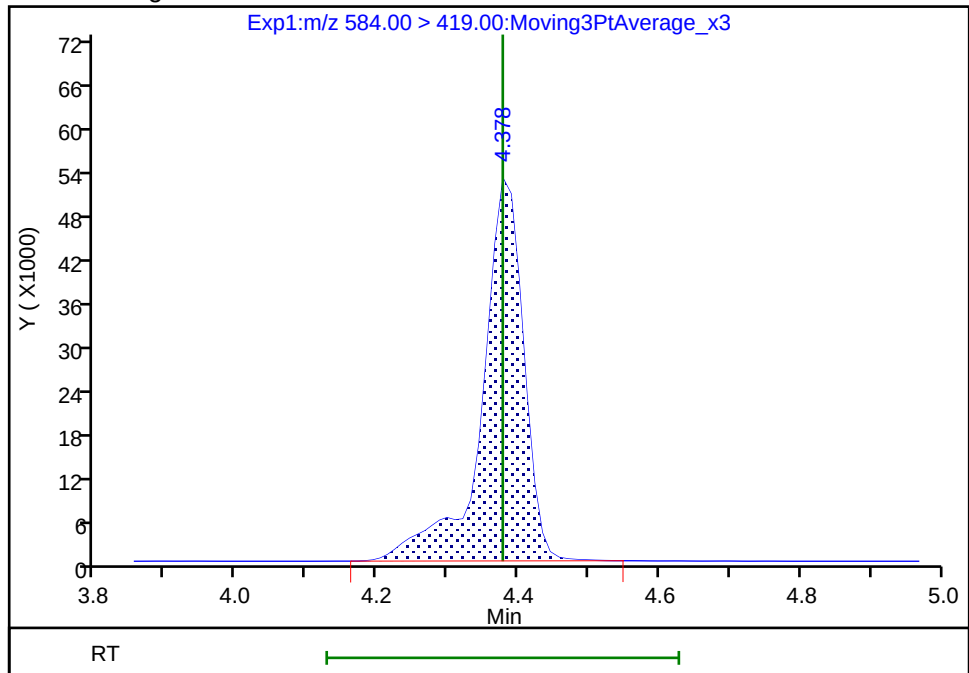
RT: 4.38
Area: 219963
Amount: 8.983798
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 218696
Amount: 8.939761
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 09:46:22
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 621 of 897

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: ICV 200-159115/12 Calibration Date: 09/22/2020 20:28

Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11

Lab File ID: PA200922ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9347	0.9387		1.00	1.00	0.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	1.073		1.03	1.01	1.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.043		1.05	1.00	4.7	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.712		1.06	1.00	5.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	1.070		1.07	1.01	6.3	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.219		1.03	1.00	3.0	50.0
HFPO-DA	AveID	2.128	1.824		0.866	1.01	-14.3	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.164		1.06	1.01	5.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	1.015		1.01	1.00	1.2	40.0
DONA	AveID	3.081	3.067		0.995	1.00	-0.5	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.160		1.00	1.00	0.0	50.0
6:2 FTS	AveID	0.7981	0.7945		0.996	1.00	-0.4	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.041		1.01	1.00	0.8	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	0.9577		0.890	1.01	-11.9	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	1.090		1.07	1.00	7.0	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.9500		0.993	1.00	-0.7	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8915		1.05	1.01	3.8	50.0
8:2 FTS	AveID	0.3958	0.4063		1.04	1.01	2.6	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	1.022		1.03	1.00	3.3	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9348	0.9201		0.984	1.00	-1.6	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9146		0.969	1.00	-3.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6926		0.973	1.01	-3.6	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	0.9682		0.982	1.00	-1.8	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.8408		0.918	1.00	-8.2	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.8487		1.03	1.00	2.9	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.9783		1.00	1.00	0.3	40.0
10:2 FTS	AveID	0.2199	0.2322		1.02	0.964	5.6	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.2021		0.848	0.968	-12.3	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8316		1.00	1.00	0.4	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2526		1.10	1.00	10.3	40.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: ICV 200-159115/12 Calibration Date: 09/22/2020 20:28
 Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11
 Lab File ID: PA200922ICAL12.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8990		1.01	1.00	1.1	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.7032		0.941	1.00	-5.9	50.0
13C4 PFBA	Ave	1.433	1.161		1.01	1.25	-19.0	50.0
13C5 PFPeA	Ave	1.027	0.8577		1.04	1.25	-16.5	50.0
13C3 PFBS	Ave	1.251	0.999		0.928	1.16	-20.1	50.0
M2-4:2 FTS	Ave	0.0939	0.0757		0.941	1.17	-19.4	50.0
13C2 PFHxA	Ave	1.058	0.8731		1.03	1.25	-17.4	50.0
13C3 HFPO-DA	Ave	0.0985	0.0913		1.16	1.25	-7.3	50.0
13C4 PFHpA	Ave	0.9620	0.7810		1.01	1.25	-18.8	50.0
18O2 PFHxS	Ave	0.8974	0.7367		0.971	1.18	-17.9	50.0
M2-6:2 FTS	Ave	0.1199	0.0984		0.974	1.19	-18.0	50.0
13C4 PFOA	Ave	0.9845	0.8340		1.06	1.25	-15.3	50.0
13C4 PFOS	Ave	0.7341	0.6191		1.01	1.20	-15.7	50.0
13C5 PFNA	Ave	0.8296	0.7002		1.05	1.25	-15.6	50.0
13C2 PFDA	Ave	0.7956	0.6508		1.02	1.25	-18.2	50.0
M2-8:2 FTS	Ave	0.1413	0.1242		1.05	1.20	-12.0	50.0
13C8 FOSA	Ave	1.282	1.088		1.06	1.25	-15.2	50.0
d3-NMeFOSAA	Ave	0.0453	0.0367		1.01	1.25	-19.0	50.0
13C2 PFUnA	Ave	0.6006	0.4916		1.02	1.25	-18.1	50.0
d5-NEtFOSAA	Ave	0.0487	0.0406		1.04	1.25	-16.6	50.0
13C2 PFDoA	Ave	0.6348	0.4901		0.965	1.25	-22.8	50.0
13C2 PFTeDA	Ave	0.4522	0.3677		1.02	1.25	-18.7	50.0
13C2 PFHxDA	Ave	0.5124	0.4409		1.08	1.25	-14.0	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
 Lims ID: ICV
 Client ID:
 Sample Type: ICV
 Inject. Date: 22-Sep-2020 20:28:29 ALS Bottle#: 9 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICV
 Misc. Info.: 200-0042904-012 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist:

Method: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 23-Sep-2020 10:28:45 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1050

First Level Reviewer: chirgwinb

Date: 23-Sep-2020 10:17:25

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.000	1.990	0.010	0.577	1150614	1.01		81.0	6887	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.000	2.000	0.0	1.000	864051	1.00			133	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.340	2.339	0.001	0.675	850232	1.04		83.5	3611	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.340	2.339	0.001	1.000	737460	1.03			44.2	M
D 47 13C3 PFBS										
301.90 > 80.00	2.353	2.353	0.0	0.679	920695	0.9283		79.9	286247	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.367	2.353	0.014	1.006	826341	1.05	Target=2.07		2729	
298.90 > 99.00	2.367	2.353	0.014	1.006	391959		2.11(1.04-3.11)		521	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.678	2.678	0.0	1.000	102792	1.06			999	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.678	2.678	0.0	0.772	70109	0.9411		80.6	205	
D 7 13C2 PFHxA										
315.00 > 270.00	2.716	2.716	0.0	0.783	865463	1.03		82.6	4590	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.716	2.716	0.0	1.000	748489	1.07	Target=12.44		336	
313.00 > 119.00	2.716	2.716	0.0	1.000	61544		12.16(6.22-18.66)		194	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.877	712461	1.03	Target=3.64		1798	
349.00 > 99.00	2.716	2.716	0.0	0.877	208174		3.42(1.82-5.46)		829	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.826	2.818	0.008	0.815	90533	1.16		92.7	1323	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.826	2.826	0.0	1.000	133453	0.8660			30.3	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.096	3.084	0.012	0.893	690870	0.9709		82.1	1471	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.096	3.096	0.0	1.000	686590	1.06	Target=4.60		2433	
399.00 > 99.00	3.096	3.096	0.0	1.000	134292		5.11(2.30-6.91)		340	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.108	3.096	0.012	1.004	628402	1.01	Target=3.34		313	
363.00 > 169.00	3.096	3.096	0.0	1.000	188019		3.34(1.67-5.01)		1119	
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.096	0.0	0.893	774212	1.01		81.2	3571	
77 DONA										
377.00 > 251.00	3.140	3.132	0.008	0.832	1505622	1.00	Target=2.44		2998	
377.00 > 85.00	3.132	3.132	0.0	0.829	634115		2.37(1.22-3.67)		1611	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.450	3.450	0.0	0.914	569312	1.00	Target=7.08		2472	
449.00 > 99.00	3.450	3.450	0.0	0.914	83779		6.80(3.54-10.63)		764	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.459	3.450	0.009	0.998	92645	0.9741		82.0	875	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.459	3.450	0.009	1.000	61983	1.00			1681	
D 14 13C4 PFOA										
417.00 > 372.00	3.467	3.458	0.009	1.000	826693	1.06		84.7	4845	
* 62 13C2 PFOA										
415.00 > 370.00	3.467	3.458	0.009		991256	1.25			3693	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.467	3.458	0.009	1.000	688452	1.01	Target=2.29		309	
413.00 > 169.00	3.467	3.458	0.009	1.000	301404		2.28(1.14-3.43)		686	
D 18 13C4 PFOS										
503.00 > 80.00	3.776	3.776	0.0	1.089	586664	1.01		84.3	2829	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.786	3.776	0.010	1.003	474868	0.8901	Target=7.10		690	M
499.00 > 99.00	3.776	3.776	0.0	1.000	68757		6.91(3.55-10.64)		467	M
D 19 13C5 PFNA										
468.00 > 423.00	3.797	3.797	0.0	1.095	694063	1.05		84.4	6107	
20 Perfluorononanoic acid										
463.00 > 419.00	3.808	3.797	0.011	1.003	605170	1.07	Target=5.83		220	
463.00 > 169.00	3.808	3.797	0.011	1.003	106721		5.67(2.91-8.74)		1543	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.941	3.941	0.0	1.044	466375	0.99			3637	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.072	4.072	0.0	1.078	442021	1.05	Target=3.38		4533	
549.00 > 99.00	4.072	4.072	0.0	1.078	119472		3.70(1.69-5.08)		731	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.104	4.092	0.012	1.003	527425	1.03	Target=6.81		954	
513.00 > 169.00	4.104	4.092	0.012	1.003	75173		7.02(3.41-10.22)		1145	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.180	645146	1.02		81.8	8883	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.104	4.103	0.001	0.997	40427	1.04			3628	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.115	4.103	0.012	1.187	117984	1.05		88.0	1532	
D 21 13C8 FOSA										
506.00 > 78.00	4.161	4.151	0.010	1.200	1078232	1.06		84.8	3303	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.161	4.151	0.010	1.000	793702	0.9843			1267	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.221	36363	1.01		81.0	215	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.245	4.245	0.0	1.002	26606	0.9691			429	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.332	0.0	1.147	343397	0.9734	Target=3.31		2161	
599.00 > 99.00	4.332	4.332	0.0	1.147	104146		3.30(1.66-4.97)		859	
D 30 13C2 PFUnA										
565.00 > 520.00	4.366	4.355	0.011	1.259	487318	1.02		81.9	4542	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.366	4.355	0.011	1.000	377469	0.9817	Target=6.57		474	M
563.00 > 169.00	4.366	4.355	0.011	1.000	63902		5.91(3.28-9.85)		363	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.259	40256	1.04		83.4	595	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.378	4.378	0.0	1.003	27079	0.9184			417	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.457	4.444	0.013	1.180	416673	1.03			2877	
D 36 13C2 PFDaA										
615.00 > 570.00	4.598	4.585	0.013	1.326	485775	0.9651		77.2	3554	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.598	4.585	0.013	1.000	380178	1.00	Target=5.16		320	
613.00 > 169.00	4.598	4.585	0.013	1.000	74490		5.10(2.58-7.75)		1361	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.620	4.610	0.010	1.123	22058	1.02			432	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.763	4.763	0.0	1.261	96044	0.8485	Target=0.45		242	
699.00 > 99.00	4.763	4.763	0.0	1.261	234705		0.41(0.22-0.67)		2488	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.802	4.802	0.0	1.045	323186	1.00	Target=3.30		179	M
663.00 > 169.00	4.802	4.802	0.0	1.045	91812		3.52(1.65-4.95)		438	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.441	364457	1.02		81.3	3816	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.997	4.998	-0.001	1.000	73661	1.10	Target=1.06		837	M
713.00 > 219.00	4.997	4.998	-0.001	1.000	71553		1.03(0.53-1.59)		305	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.372	5.361	0.011	1.549	437013	1.08		86.0	3456	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.372	5.372	0.0	1.000	314298	1.01	Target=3.06		229	
813.00 > 169.00	5.372	5.372	0.0	1.000	101608		3.09(1.53-4.58)		2210	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.755	5.756	-0.001	1.071	245841	0.9409	Target=2.82		200	
913.00 > 169.00	5.755	5.756	-0.001	1.071	89112		2.76(1.41-4.24)		1056	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

LCPFAS28NCICV_00004

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d

Injection Date: 22-Sep-2020 20:28:29

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: lc812tech

ALS Bottle#: 9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

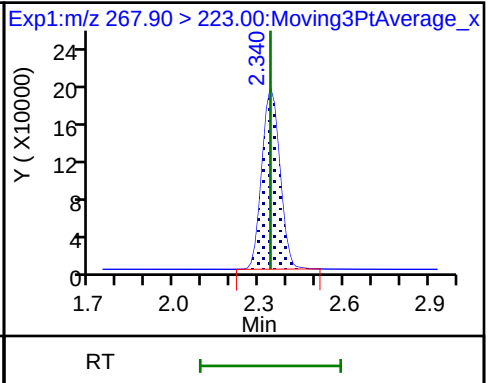
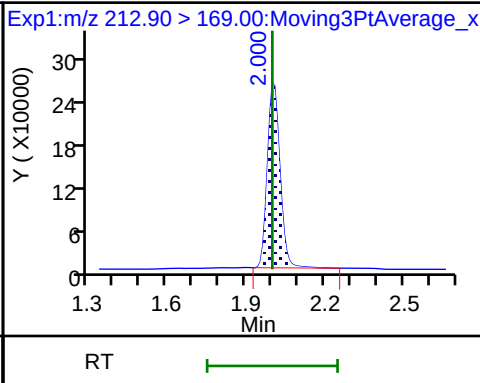
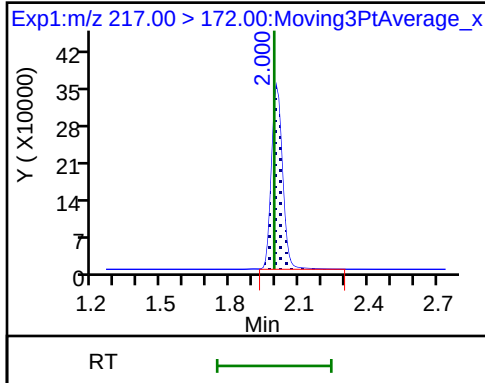
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

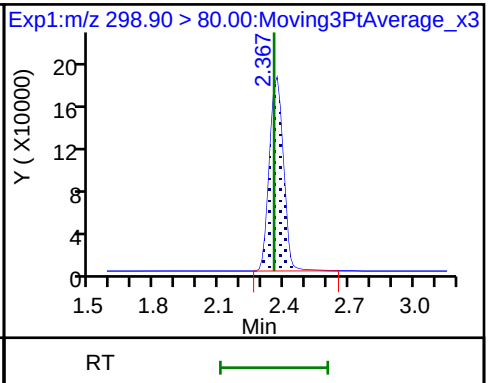
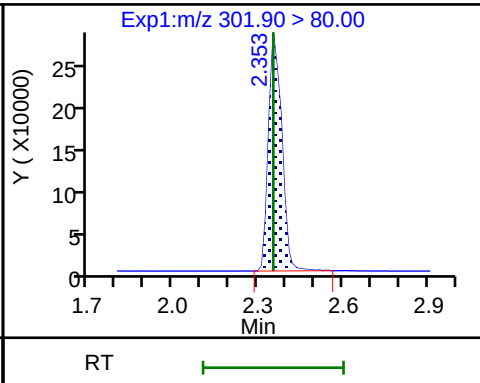
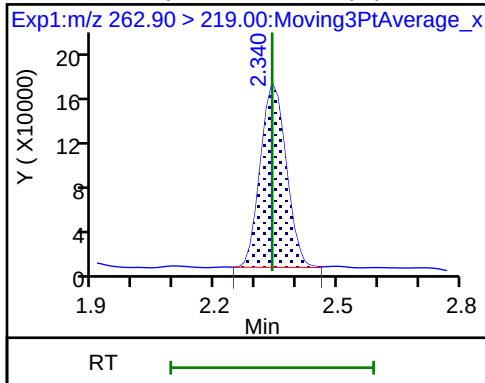
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

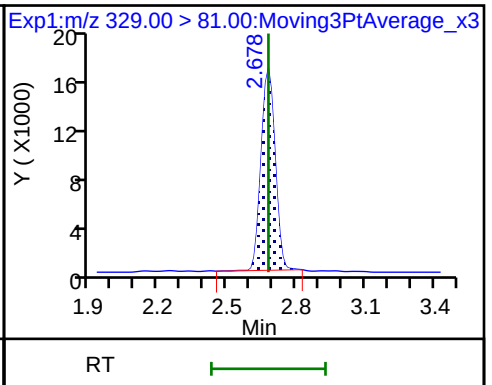
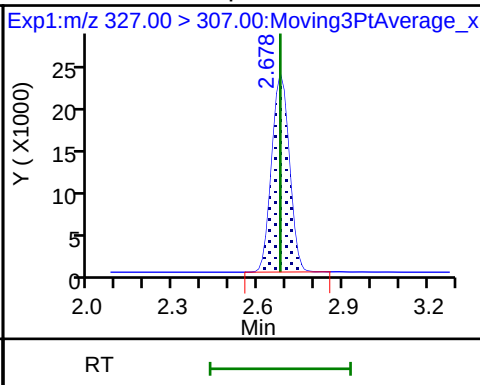
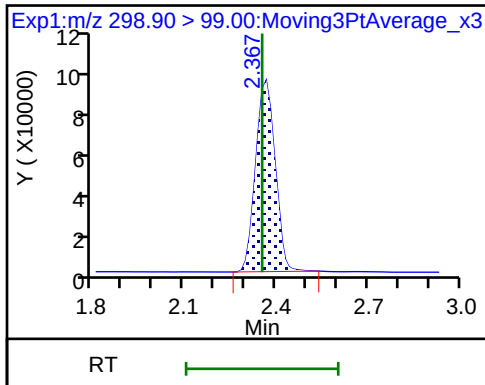
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

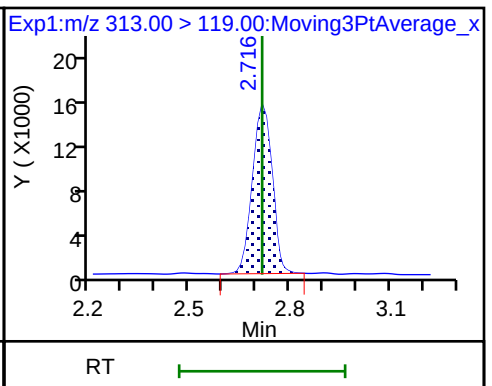
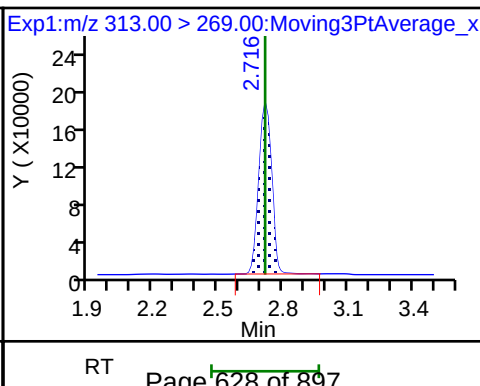
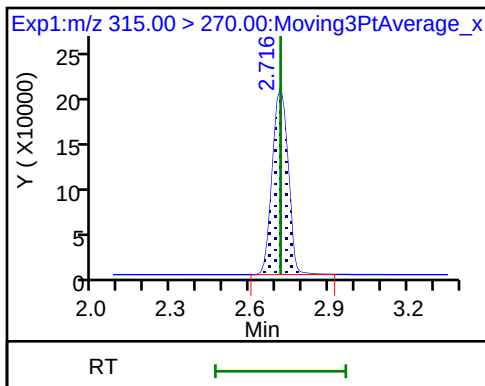
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

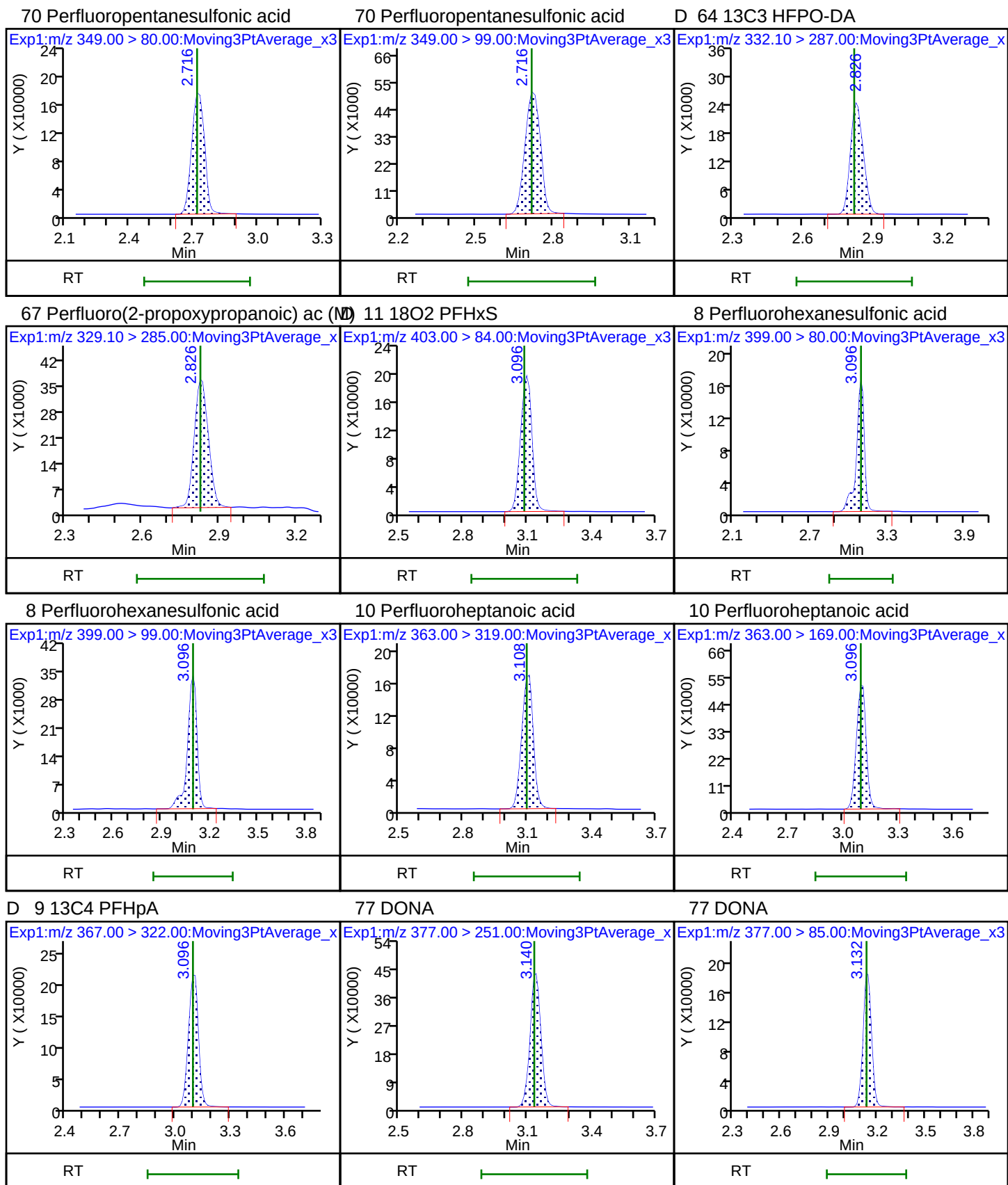


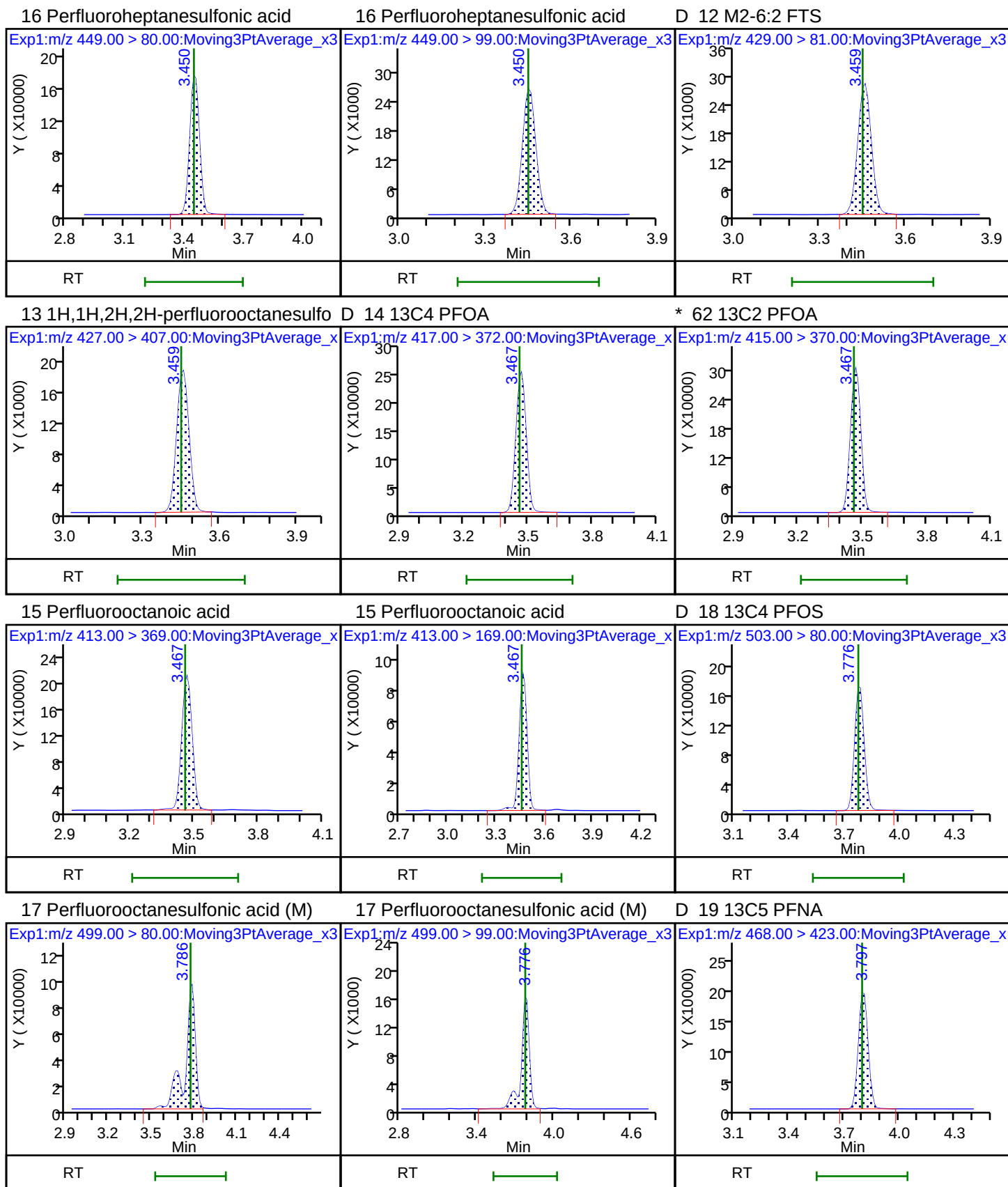
D 7 13C2 PFHxA

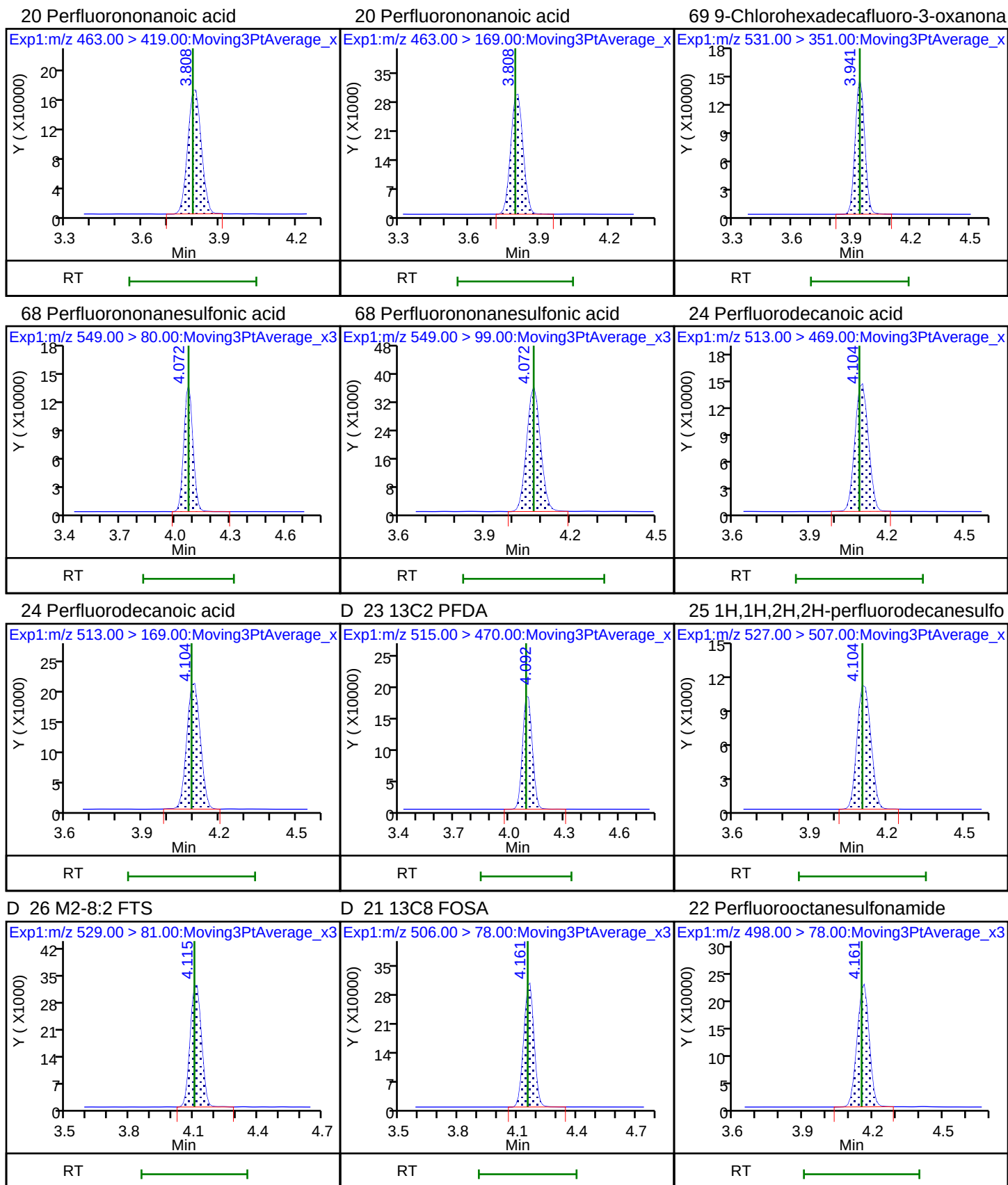
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

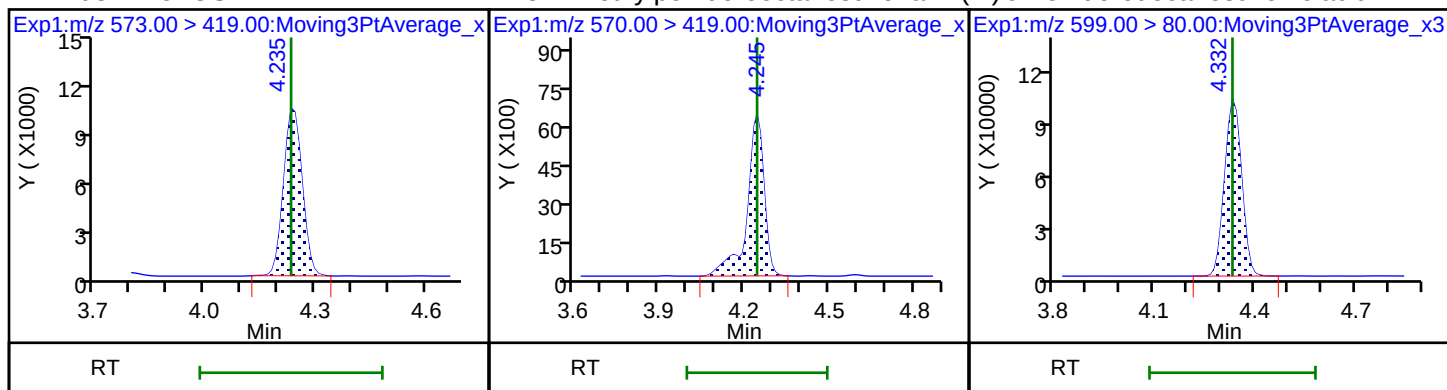








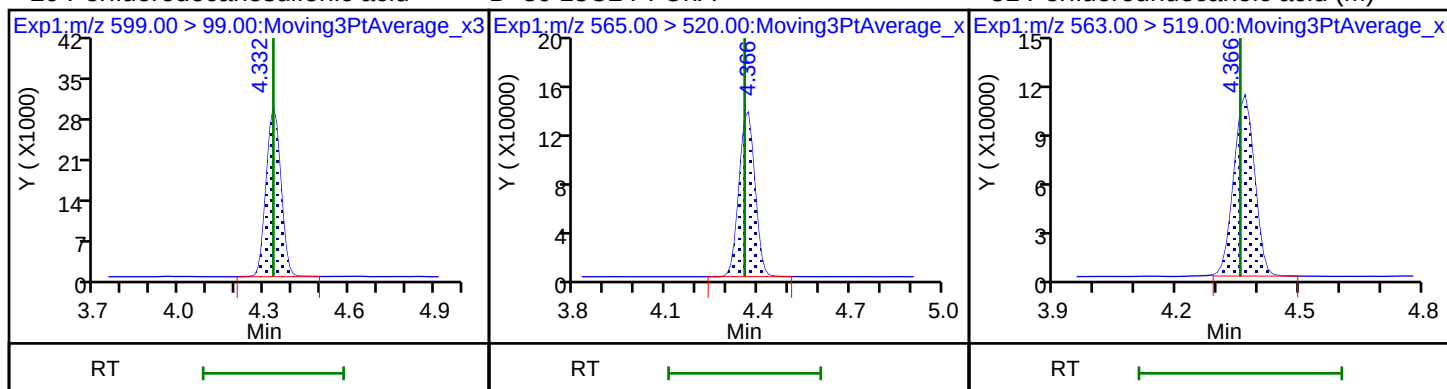
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M₂9 Perfluorodecanesulfonic acid

29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

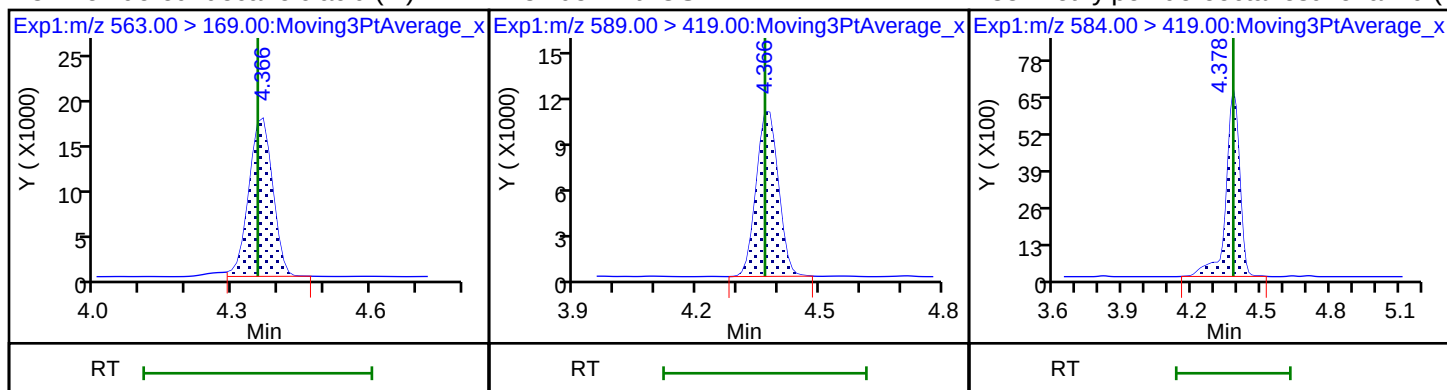
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

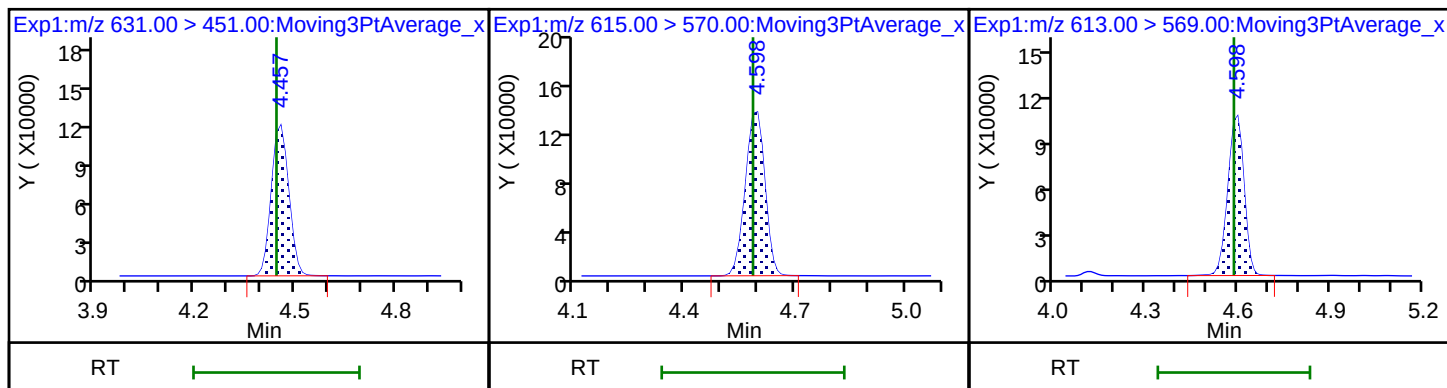
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

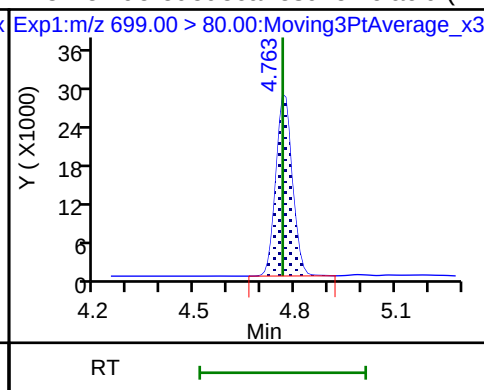
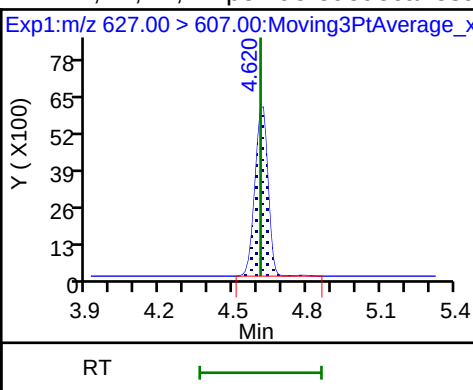
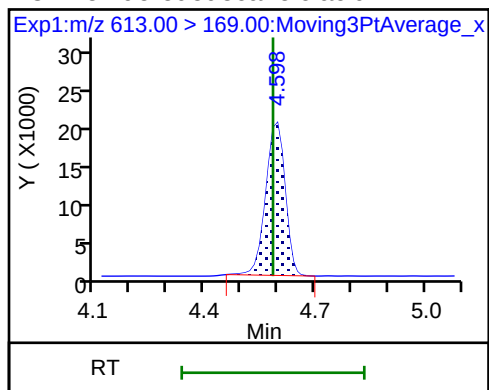
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

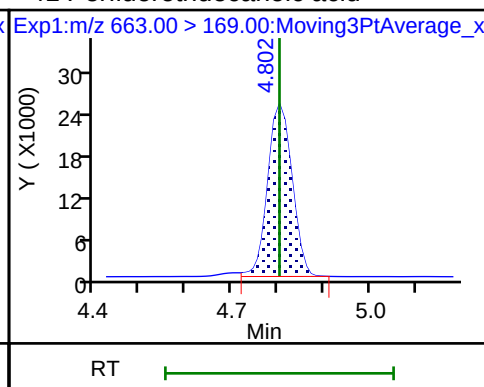
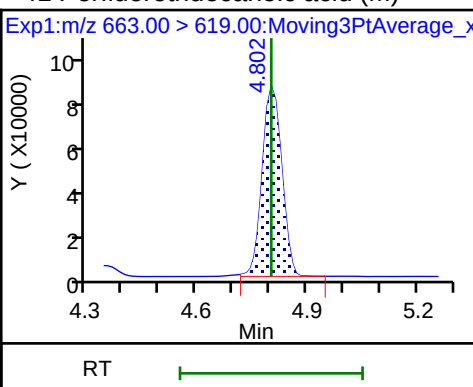
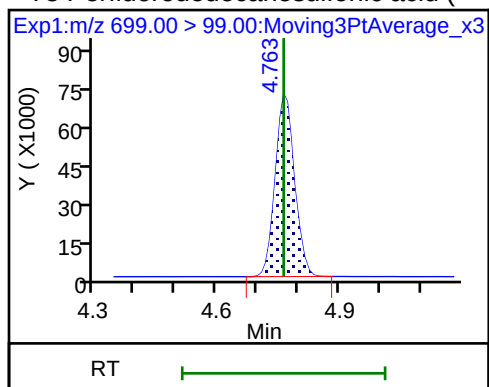
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid (M)

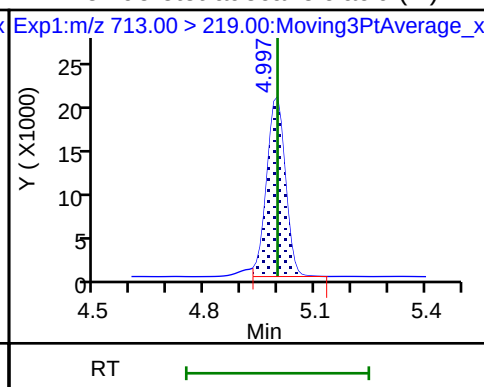
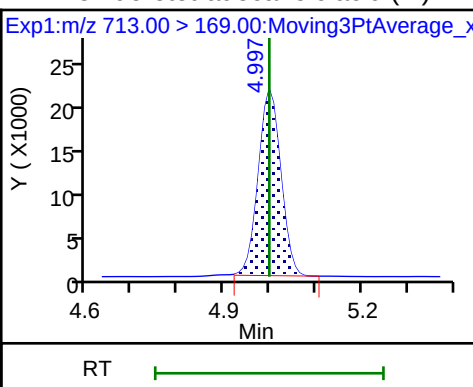
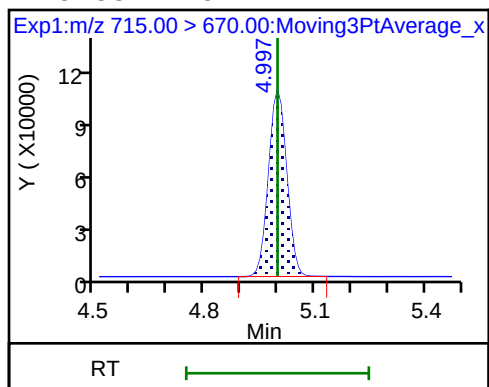
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

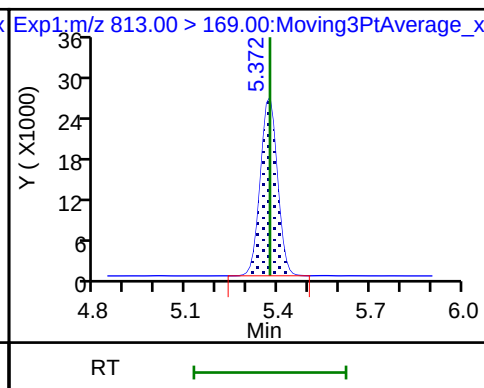
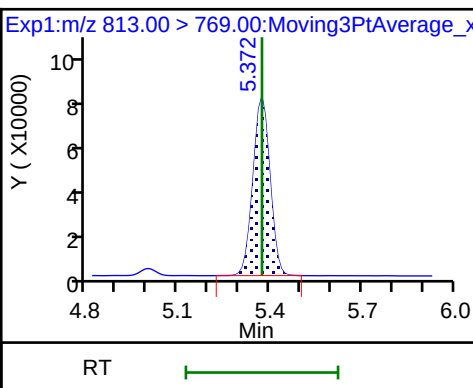
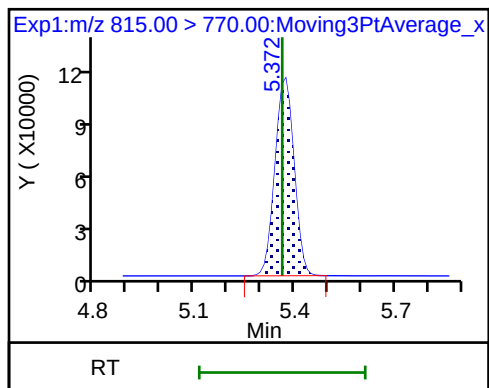
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

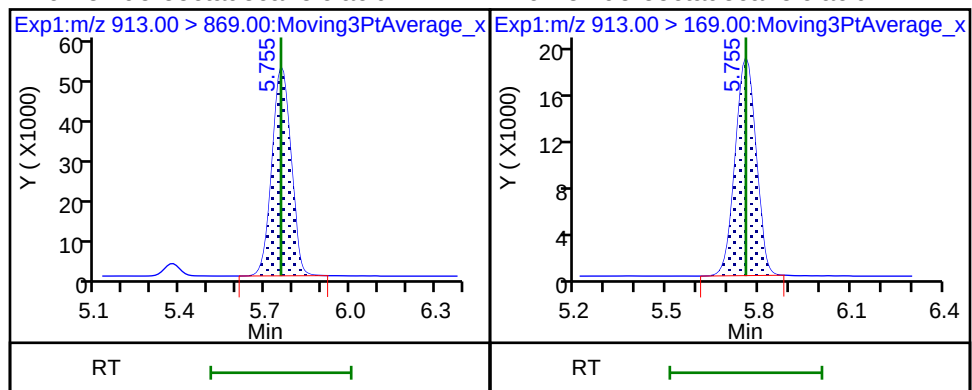
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

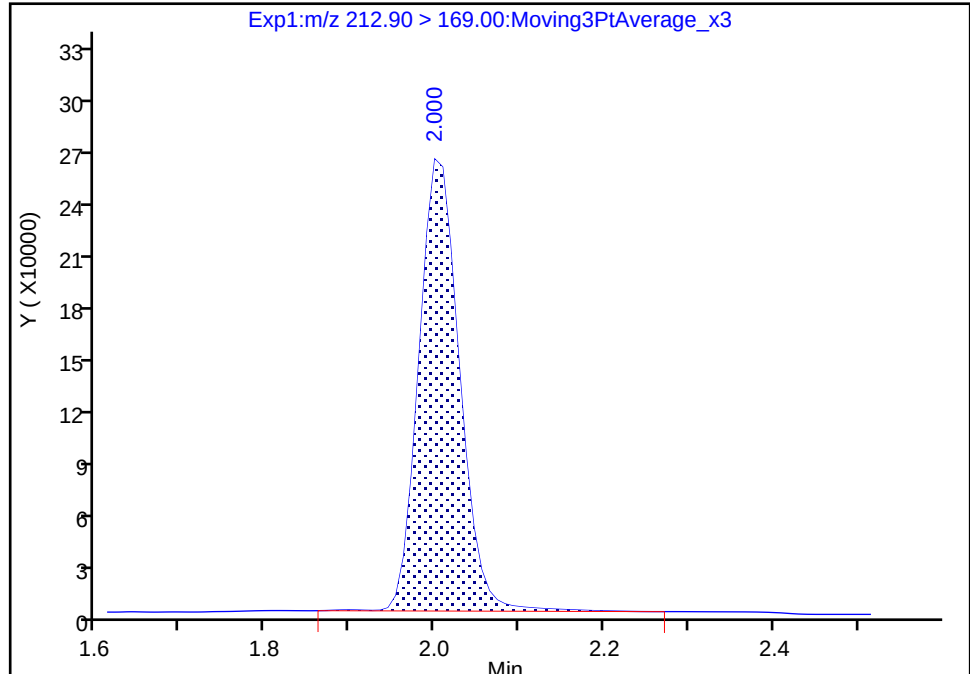
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

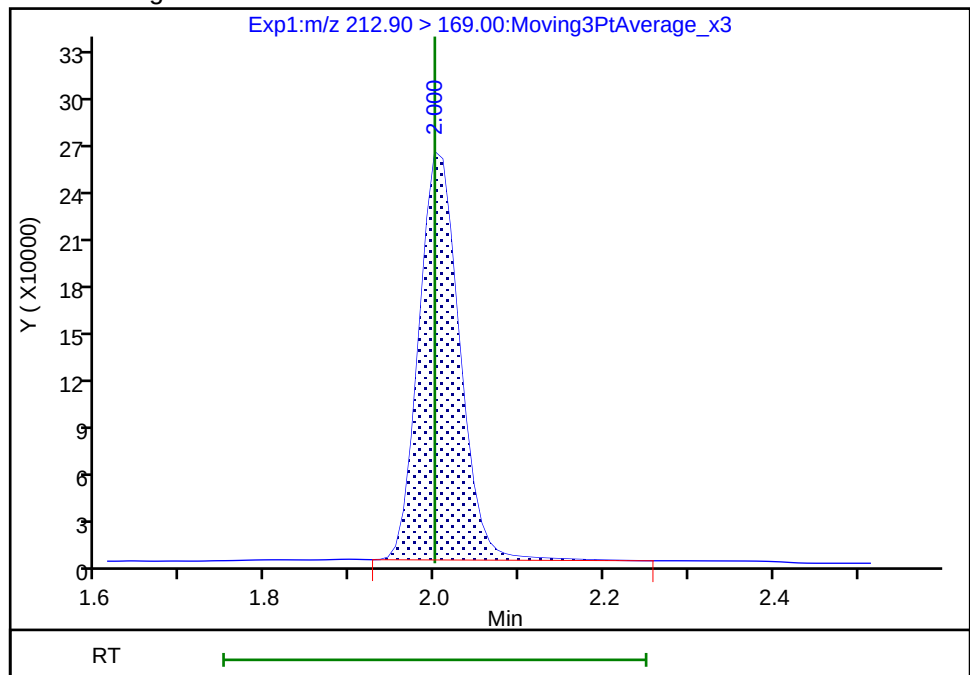
RT: 2.00
Area: 867460
Amount: 1.008181
Amount Units: ng/ml

Processing Integration Results



RT: 2.00
Area: 864051
Amount: 1.004219
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:15:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

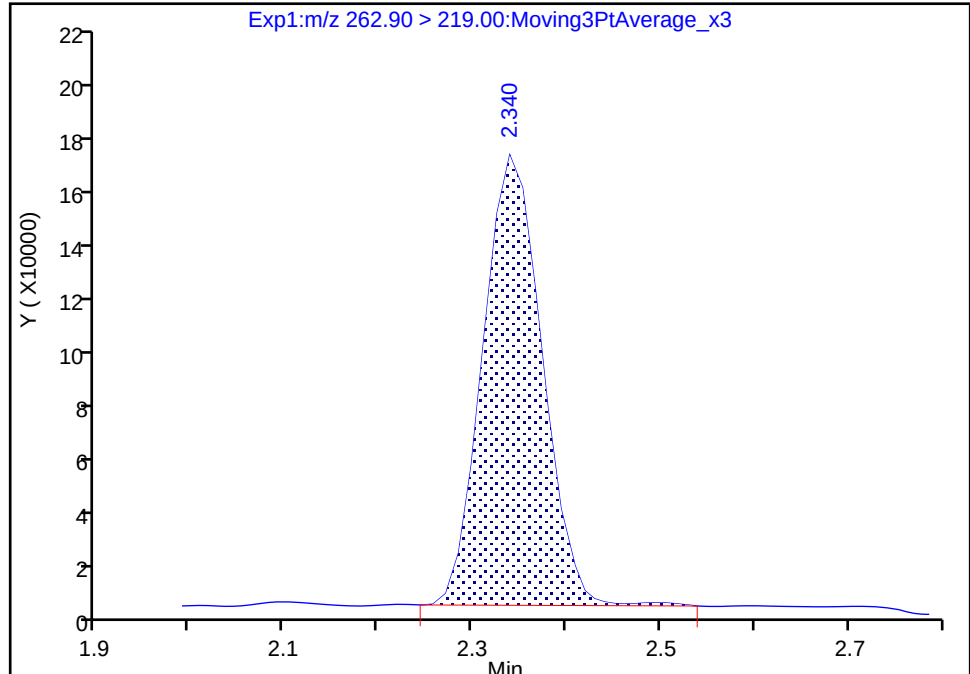
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

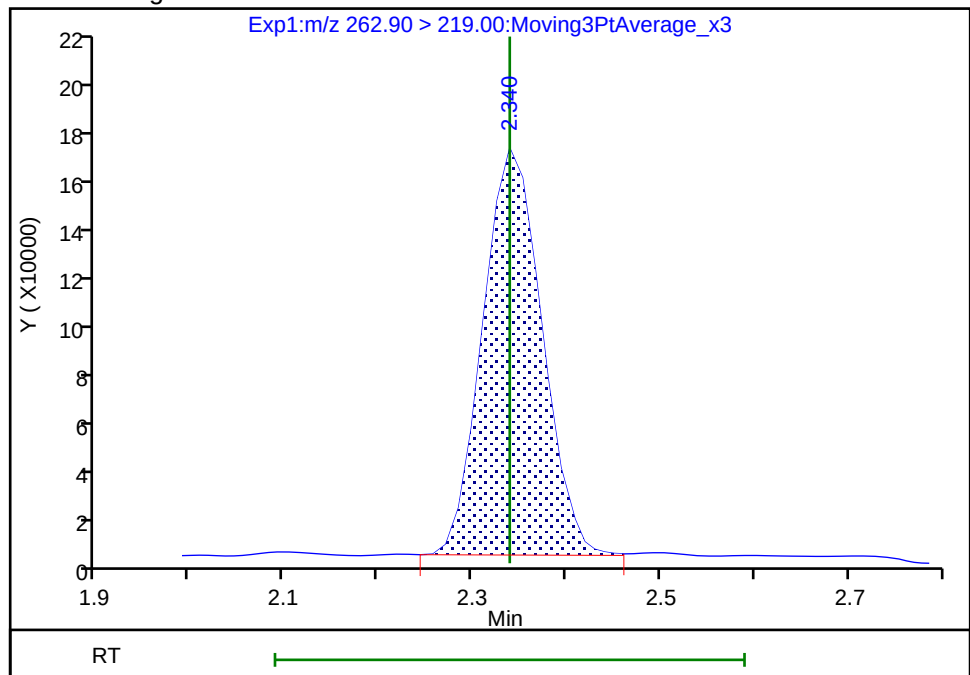
RT: 2.34
Area: 741243
Amount: 1.031896
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 737460
Amount: 1.026629
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:15:10
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 636 of 897

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d

Injection Date: 22-Sep-2020 20:28:29

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: lc812tech

ALS Bottle#:

9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

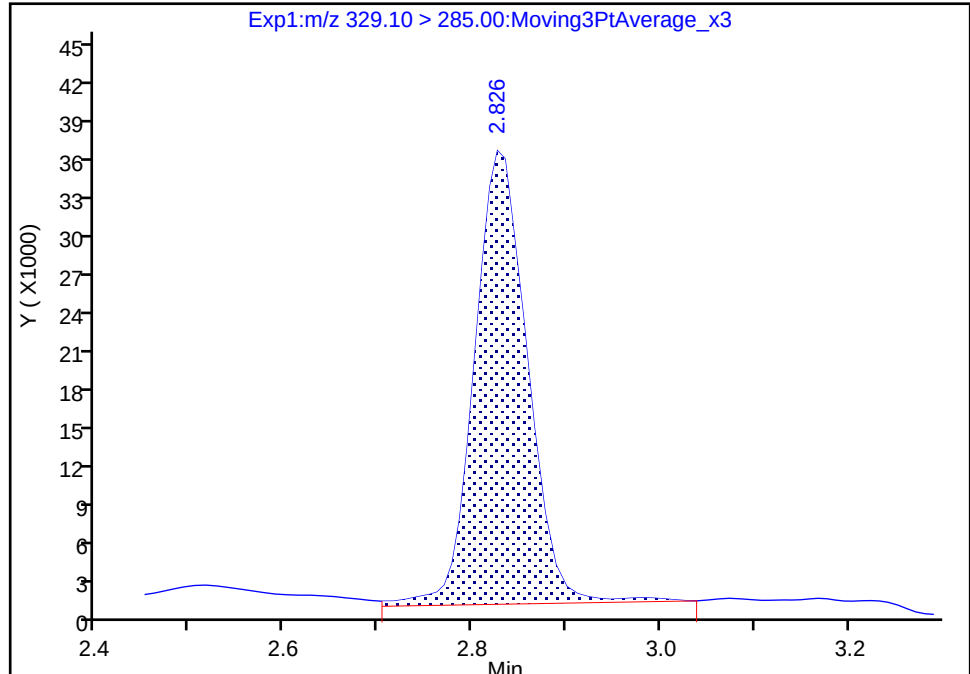
Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

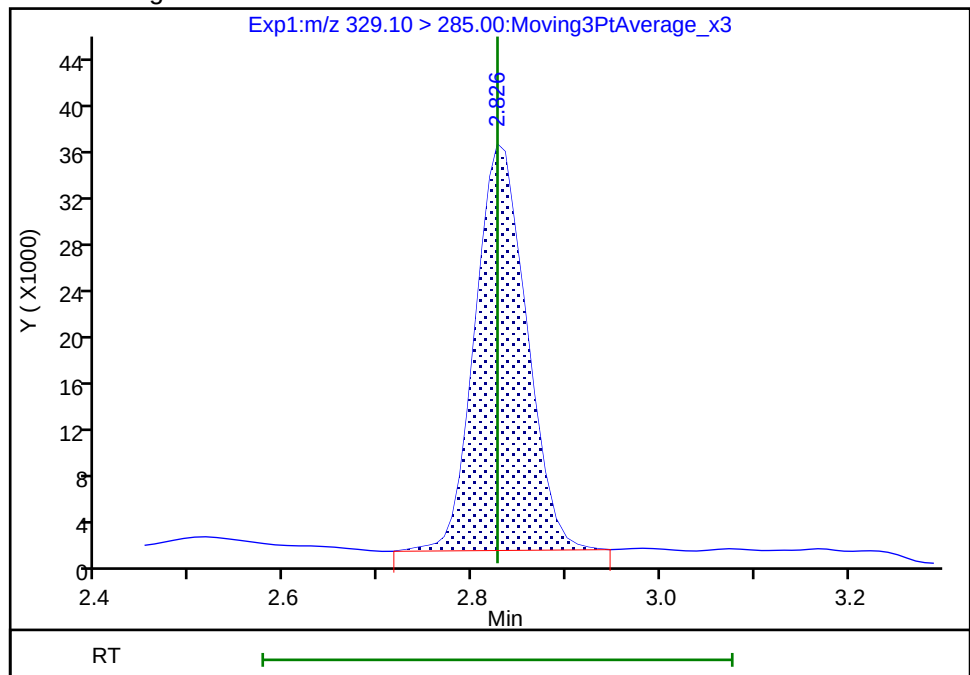
RT: 2.83
Area: 139164
Amount: 0.903019
Amount Units: ng/ml

Processing Integration Results



RT: 2.83
Area: 133453
Amount: 0.865961
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:15:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

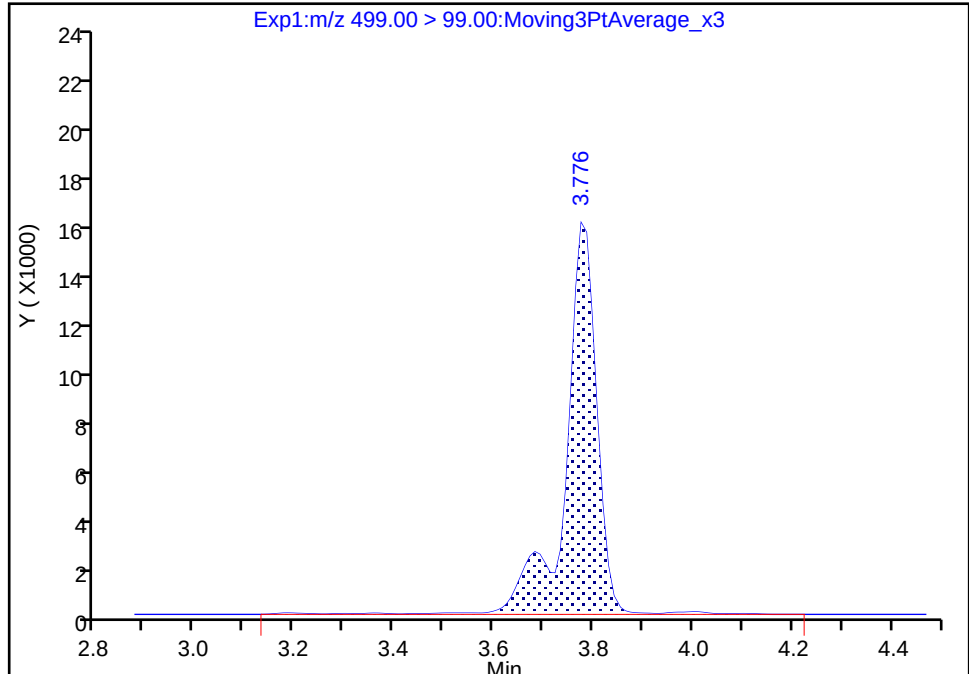
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

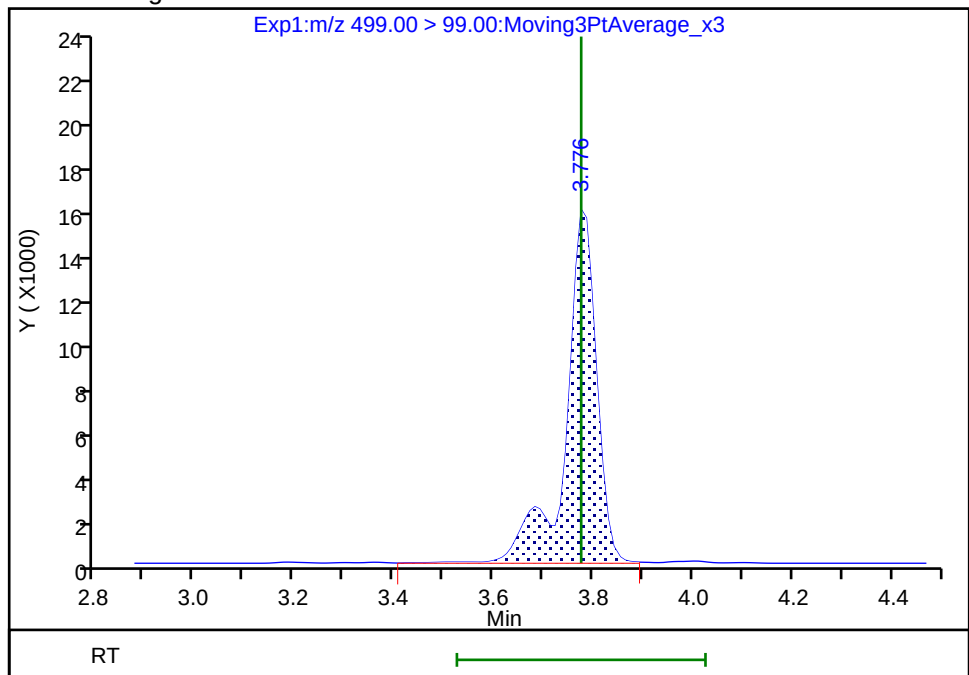
RT: 3.78
Area: 69871
Amount: 0.898380
Amount Units: ng/ml

Processing Integration Results



RT: 3.78
Area: 68757
Amount: 0.890113
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:15:59
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 638 of 897

Eurofins TestAmerica, Burlington

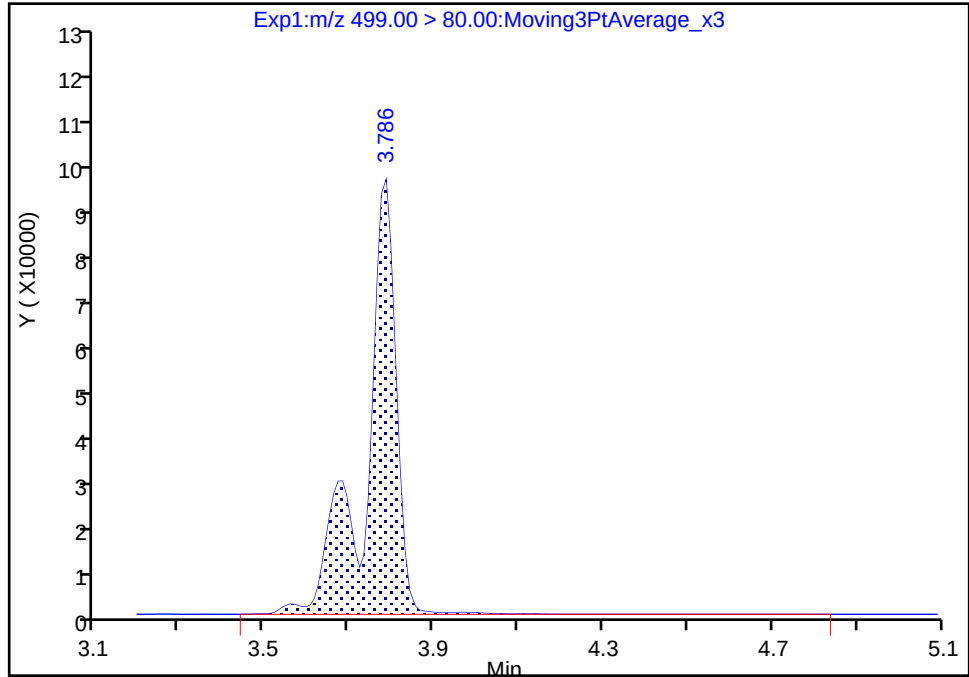
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

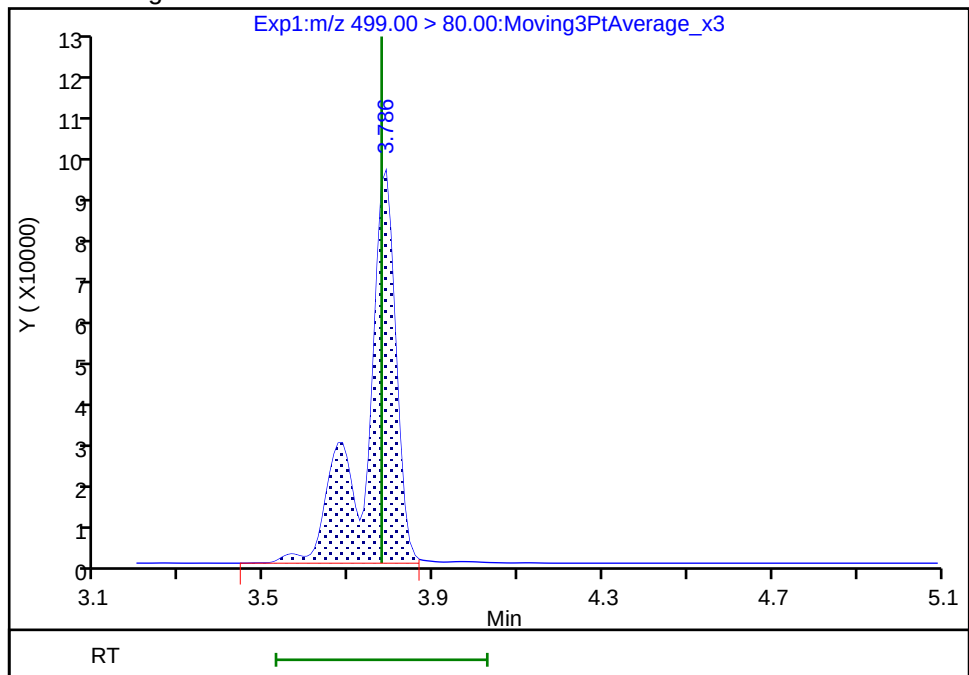
RT: 3.79
Area: 479278
Amount: 0.898380
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 474868
Amount: 0.890113
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:16:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

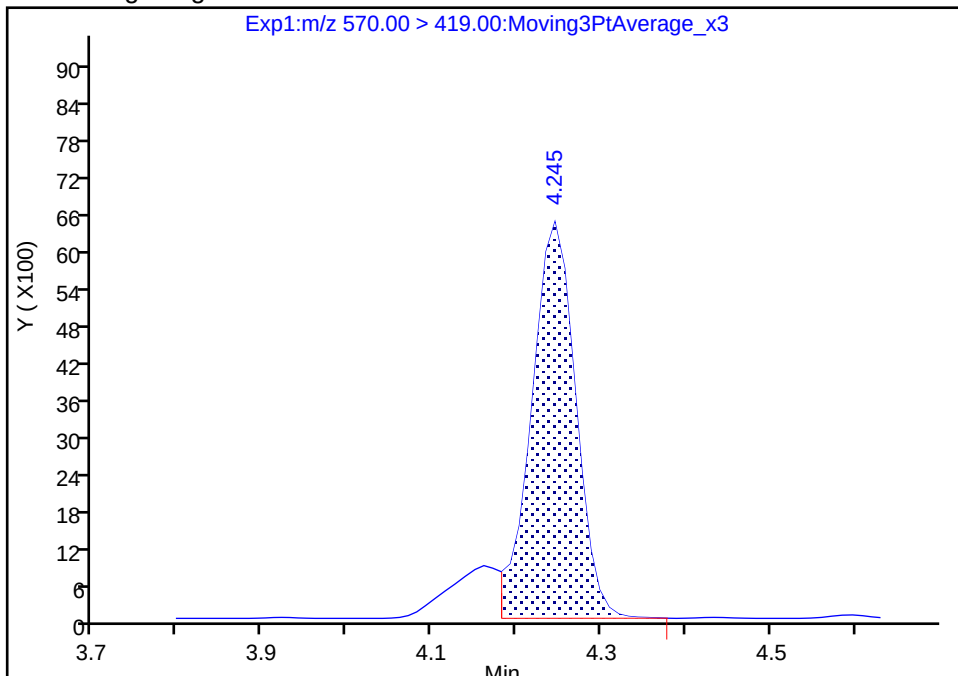
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

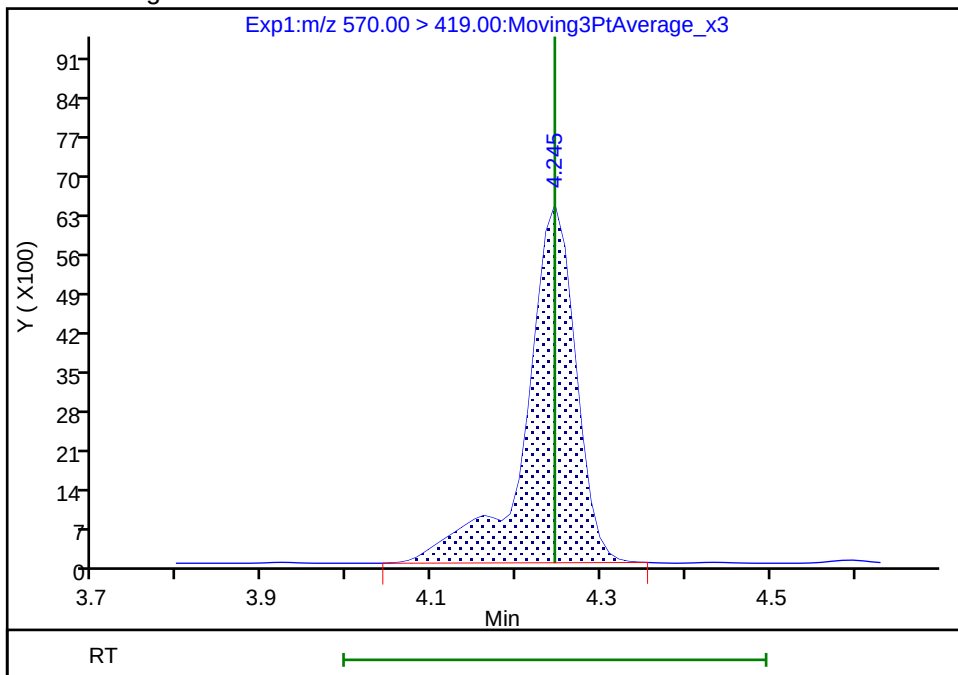
RT: 4.25
Area: 23242
Amount: 0.846607
Amount Units: ng/ml

Processing Integration Results



RT: 4.25
Area: 26606
Amount: 0.969143
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:16:25
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 640 of 897

Eurofins TestAmerica, Burlington

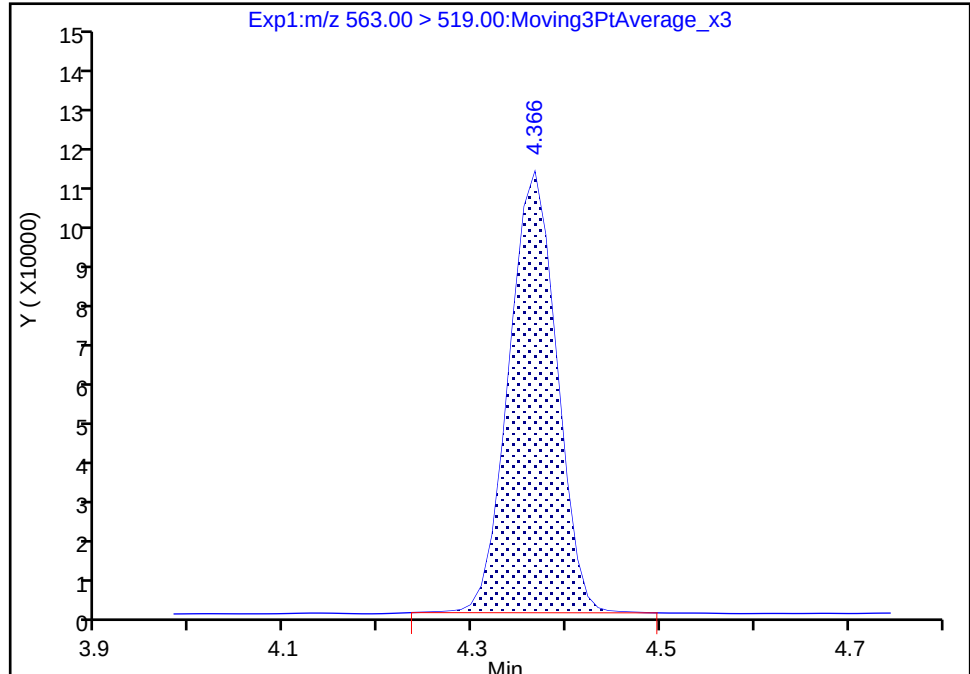
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

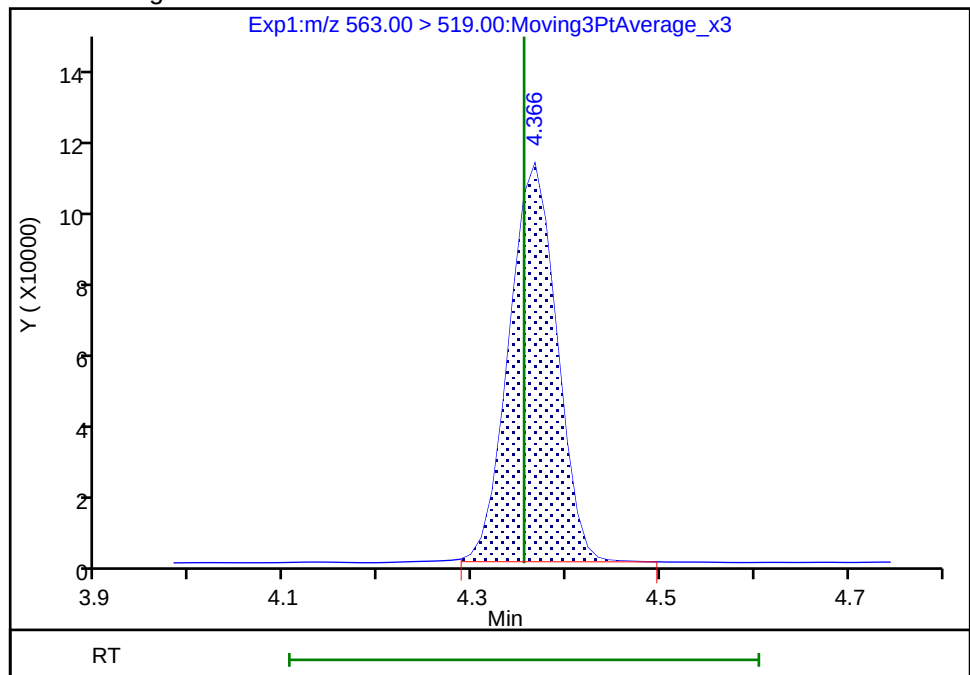
RT: 4.37
Area: 378232
Amount: 0.983639
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 377469
Amount: 0.981654
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:16:34
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 641 of 897

Eurofins TestAmerica, Burlington

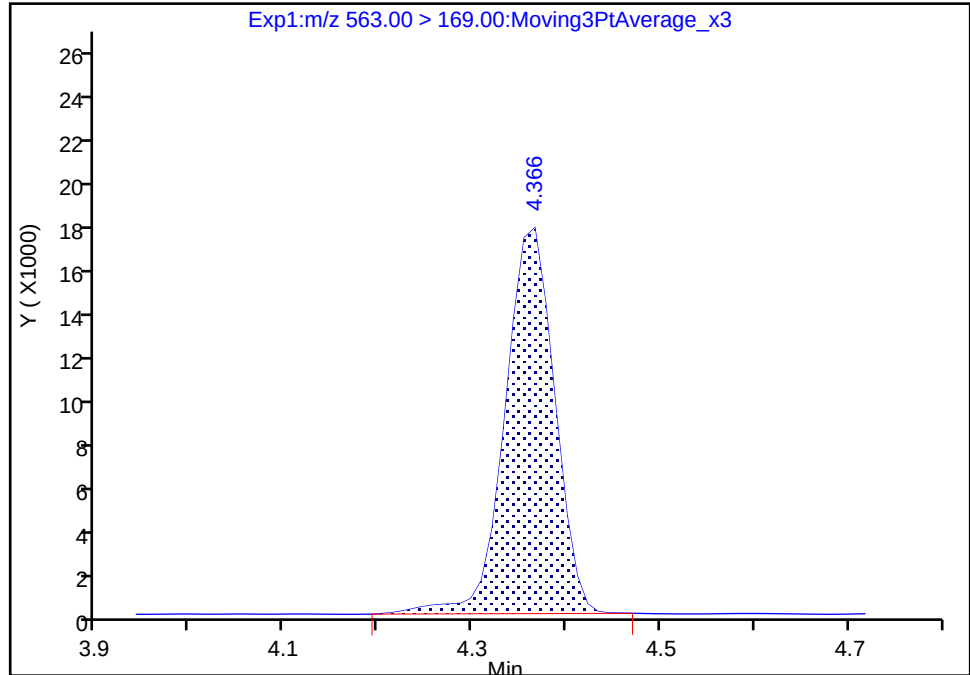
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

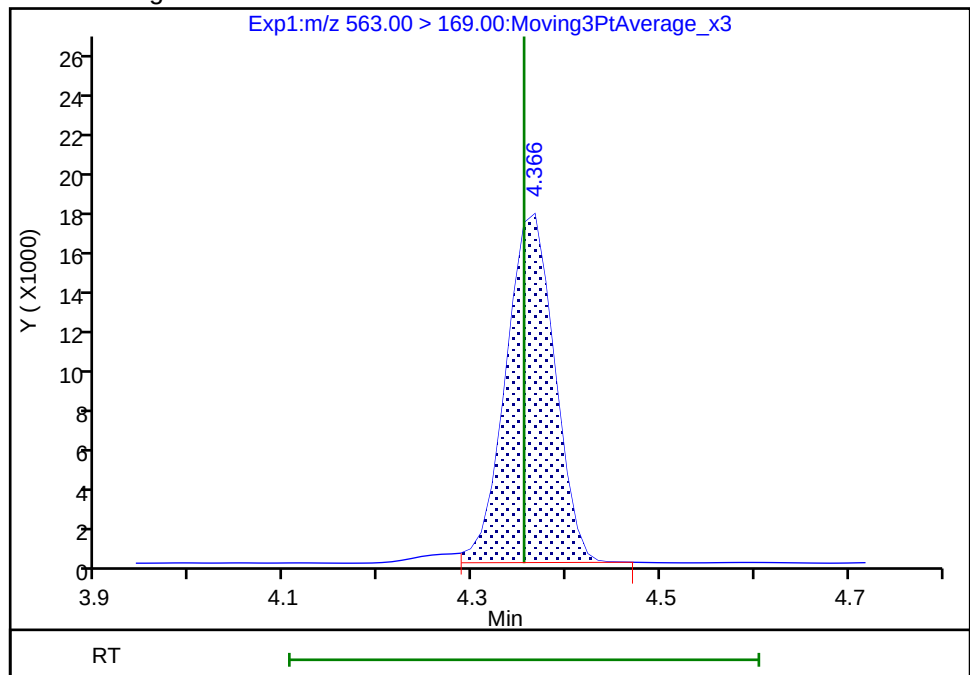
RT: 4.37
Area: 65352
Amount: 0.983639
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 63902
Amount: 0.981654
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:16:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d

Injection Date: 22-Sep-2020 20:28:29

Instrument ID: LC812

Lims ID: ICV

Client ID:

Operator ID: lc812tech

ALS Bottle#:

9

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

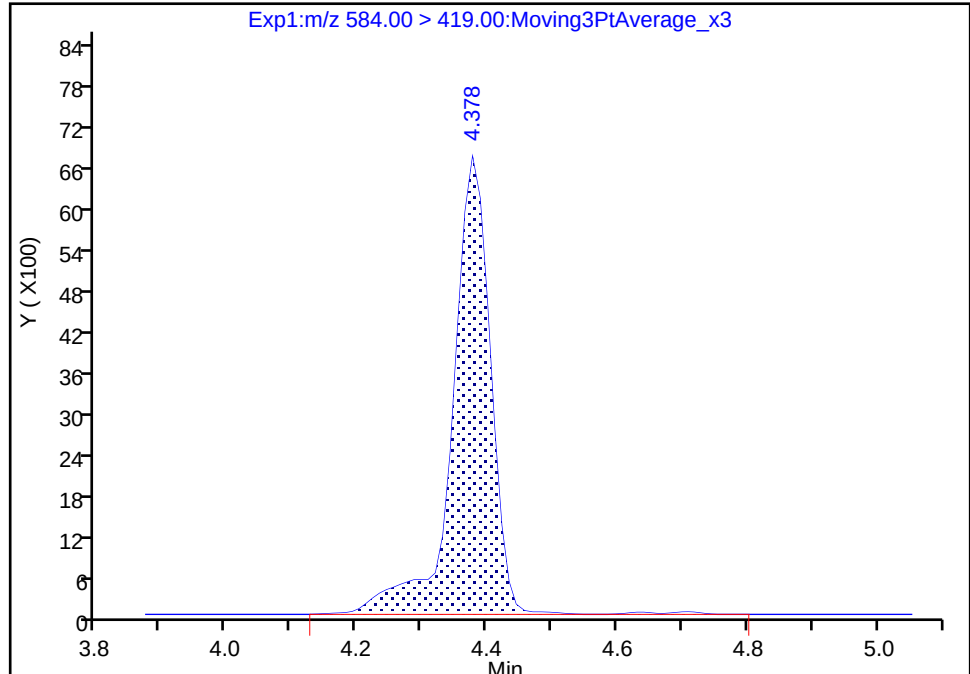
Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

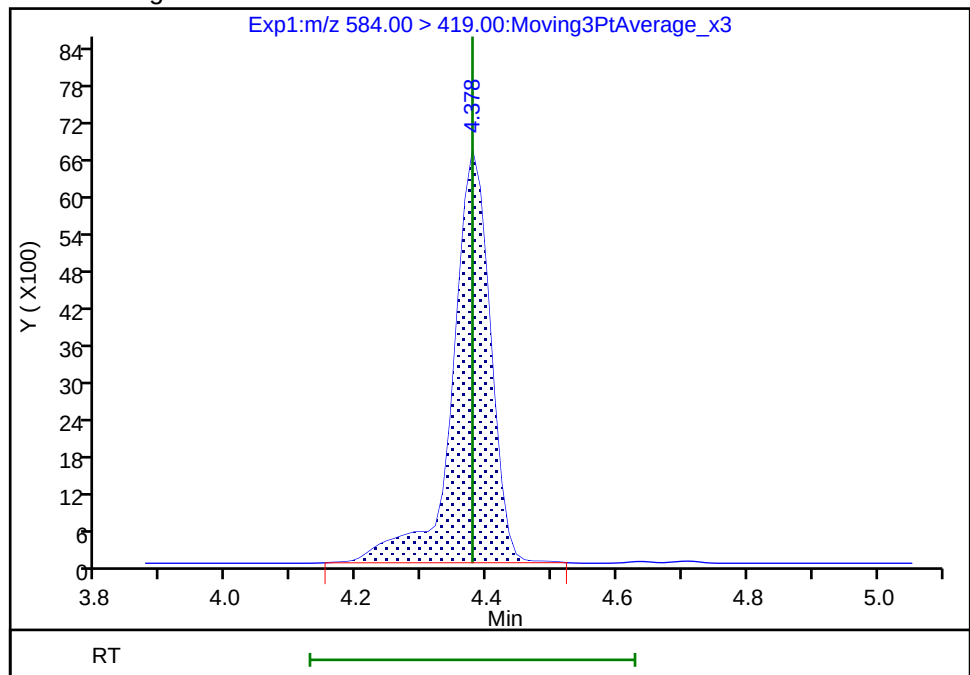
RT: 4.38
Area: 27441
Amount: 0.930709
Amount Units: ng/ml

Processing Integration Results



RT: 4.38
Area: 27079
Amount: 0.918431
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:16:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

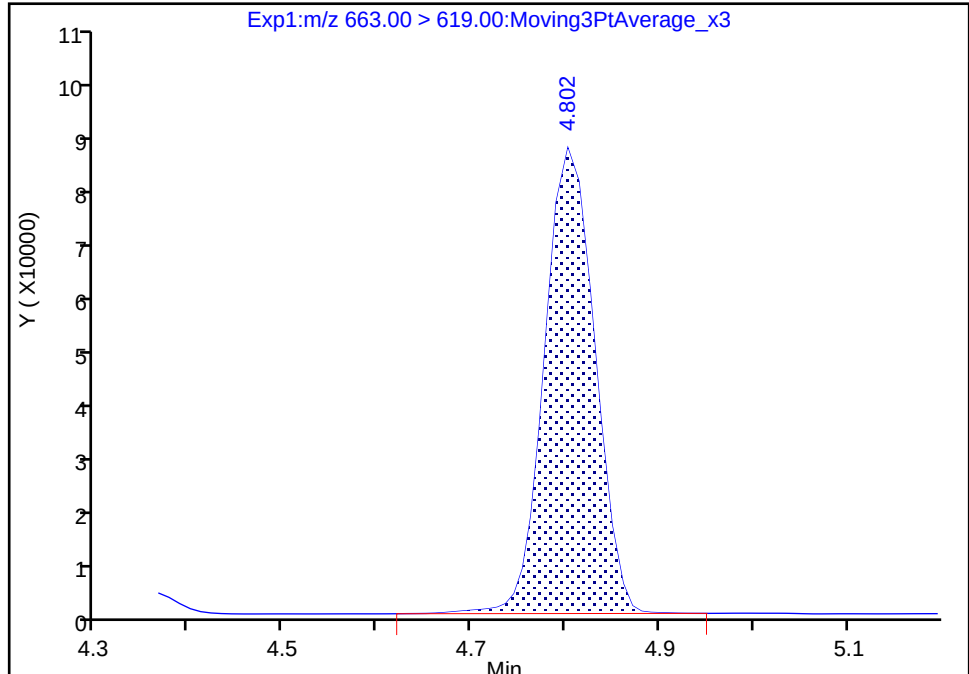
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

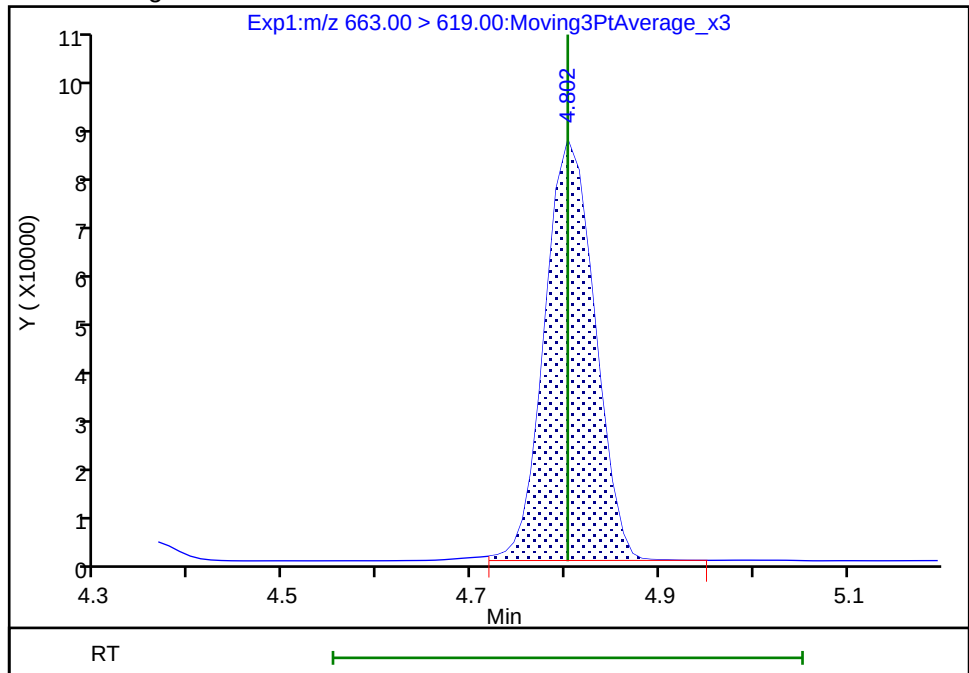
RT: 4.80
Area: 324913
Amount: 1.009498
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 323186
Amount: 1.004132
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:17:03
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 644 of 897

Eurofins TestAmerica, Burlington

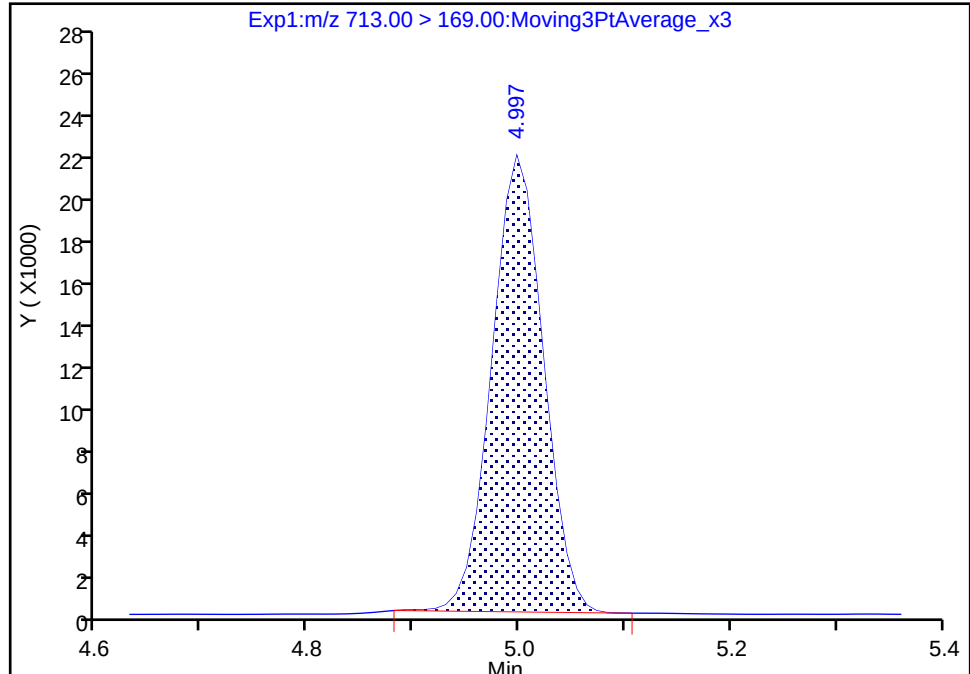
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

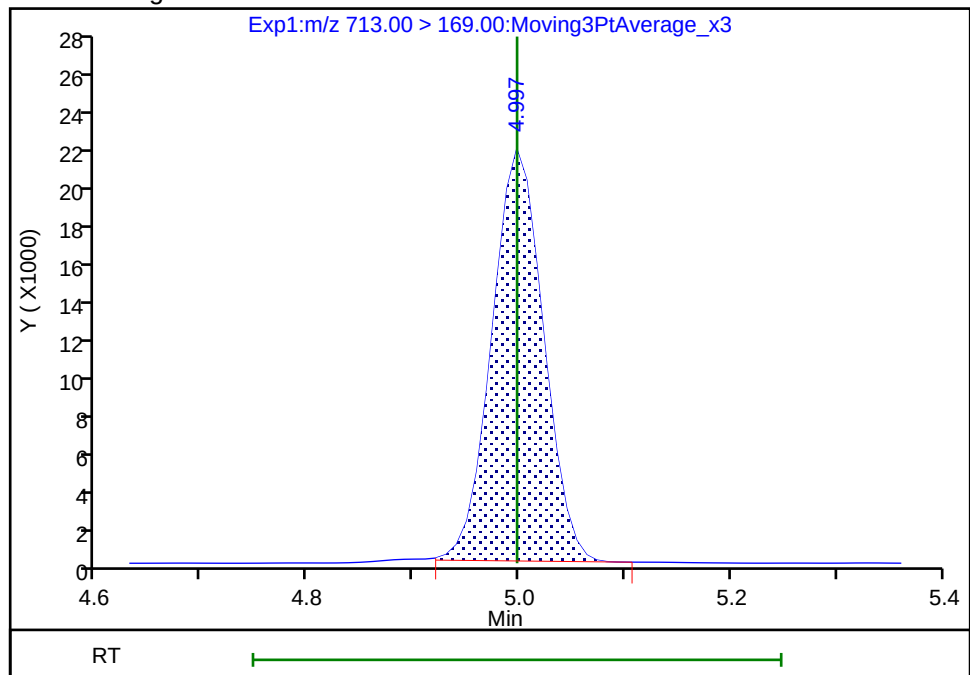
RT: 5.00
Area: 73790
Amount: 1.104928
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 73661
Amount: 1.102997
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:17:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

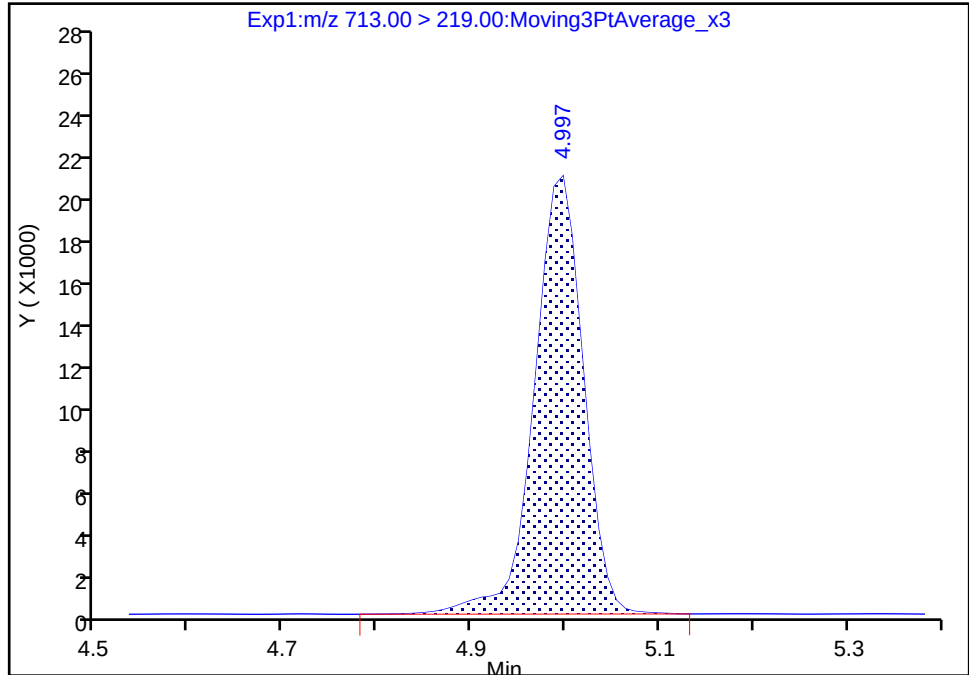
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812
Lims ID: ICV
Client ID:
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

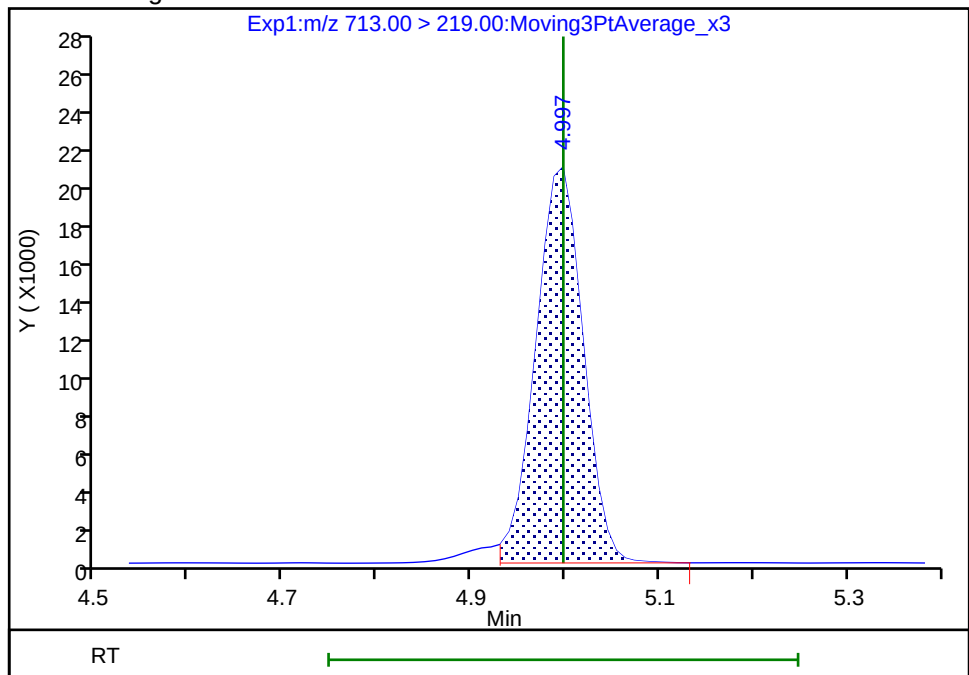
RT: 5.00
Area: 73988
Amount: 1.104928
Amount Units: ng/ml

Processing Integration Results



RT: 5.00
Area: 71553
Amount: 1.102997
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:17:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: CCVL 200-159162/5 Calibration Date: 09/24/2020 11:56

Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11

Lab File ID: PA200924A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9347	0.9812		0.131	0.125	5.0	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	1.089		0.0516	0.0500	3.1	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.086		0.0482	0.0442	9.0	50.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.904		0.0550	0.0467	17.8	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	1.147		0.0569	0.0500	13.9	50.0
Perfluoropentanesulfonic acid	AveID	1.184	1.274		0.0505	0.0469	7.6	50.0
HFPO-DA	AveID	2.128	2.133		0.100	0.100	0.2	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.218		0.0502	0.0455	10.3	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.9719		0.0485	0.0500	-3.0	50.0
DONA	AveID	3.081	3.337		0.0510	0.0471	8.3	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.273		0.0523	0.0476	9.9	50.0
6:2 FTS	AveID	0.7981	0.9044		0.134	0.119	13.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.113		0.0539	0.0500	7.8	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.024		0.0437	0.0464	-5.8	50.0
Perfluorononanoic acid (PFNA)	AveID	1.018	1.076		0.0528	0.0500	5.7	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	1.029		0.0501	0.0466	7.6	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8724		0.0488	0.0480	1.6	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	1.117		0.0565	0.0500	12.9	50.0
8:2 FTS	AveID	0.3958	0.4791		0.0580	0.0479	21.0	50.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9348	0.8983		0.0480	0.0500	-3.9	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9726		0.129	0.125	3.1	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6385		0.0428	0.0482	-11.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	1.285		0.0651	0.0500	30.3	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	1.038		0.142	0.125	13.4	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.8576		0.0490	0.0471	4.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	1.215		0.0623	0.0500	24.6	50.0
10:2 FTS	AveID	0.2199	0.2654		0.0582	0.0482	20.7	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.2601		0.0546	0.0484	12.8	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.9488		0.0573	0.0500	14.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2241		0.0489	0.0500	-2.1	50.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: CCVL 200-159162/5 Calibration Date: 09/24/2020 11:56
 Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11
 Lab File ID: PA200924A05.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		1.216		0.0465	0.0500	-6.9	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.8852		0.0592	0.0500	18.4	50.0
13C4 PFBA	Ave	1.433	1.488		1.30	1.25	3.8	50.0
13C5 PFPeA	Ave	1.027	1.052		1.28	1.25	2.5	50.0
13C3 PFBS	Ave	1.251	1.247		1.16	1.16	-0.3	50.0
M2-4:2 FTS	Ave	0.0939	0.0917		1.14	1.17	-2.4	50.0
13C2 PFHxA	Ave	1.058	1.093		1.29	1.25	3.4	50.0
13C3 HFPO-DA	Ave	0.0985	0.1058		1.34	1.25	7.4	50.0
18O2 PFHxS	Ave	0.8974	0.8970		1.18	1.18	-0.0	50.0
13C4 PFHpA	Ave	0.9620	1.021		1.33	1.25	6.2	50.0
M2-6:2 FTS	Ave	0.1199	0.1204		1.19	1.19	0.3	50.0
13C4 PFOA	Ave	0.9845	0.9745		1.24	1.25	-1.0	50.0
13C4 PFOS	Ave	0.7341	0.7399		1.20	1.20	0.8	50.0
13C5 PFNA	Ave	0.8296	0.7964		1.20	1.25	-4.0	50.0
13C2 PFDA	Ave	0.7956	0.8010		1.26	1.25	0.7	50.0
M2-8:2 FTS	Ave	0.1413	0.1324		1.12	1.20	-6.2	50.0
13C8 FOSA	Ave	1.282	1.246		1.21	1.25	-2.8	50.0
d3-NMeFOSAA	Ave	0.0453	0.0452		1.25	1.25	-0.1	50.0
13C2 PFUnA	Ave	0.6006	0.5542		1.15	1.25	-7.7	50.0
d5-NEtFOSAA	Ave	0.0487	0.0490		1.26	1.25	0.6	50.0
13C2 PFDoA	Ave	0.6348	0.6021		1.19	1.25	-5.1	50.0
13C2 PFTeDA	Ave	0.4522	0.4382		1.21	1.25	-3.1	50.0
13C2 PFHxDA	Ave	0.5124	0.4774		1.16	1.25	-6.8	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d
 Lims ID: CCVL
 Client ID:
 Sample Type: CCVL
 Inject. Date: 24-Sep-2020 11:56:57 ALS Bottle#: 2 Worklist Smp#: 5
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVL
 Misc. Info.: 200-0042934-005 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 12:36:45 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: chirgwinb

Date: 24-Sep-2020 15:42:26

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.990	1.981	0.009	0.577	1032709	1.30		104	5243	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.990	1.990	0.0	1.000	101331	0.1312		105	13.9	
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.674	730522	1.28		102	2745	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.326	2.326	0.0	1.000	31820	0.0516		103	2.1	
D 47 13C3 PFBS										
301.90 > 80.00	2.353	2.339	0.014	0.682	805104	1.16		99.7	239441	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.339	0.014	1.000	33246	0.0482	Target=2.07	109	128	M
298.90 > 99.00	2.353	2.339	0.014	1.000	17139		1.94(1.04-3.11)		27.6	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.653	2.653	0.0	0.995	4528	0.0550		118	124	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.665	2.653	0.012	0.773	59439	1.14		97.6	163	
D 7 13C2 PFHxA										
315.00 > 270.00	2.703	2.691	0.012	0.784	758846	1.29		103	3304	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.703	2.691	0.012	1.000	34810	0.0569	Target=12.44	114	14.9	
313.00 > 119.00	2.703	2.691	0.012	1.000	3318		10.49(6.22-18.66)		10.8	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.703	2.703	0.0	0.880	29769	0.0505	Target=3.64	108	172	
349.00 > 99.00	2.703	2.703	0.0	0.880	8689		3.43(1.82-5.46)		53.4	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.810	2.810	0.0	0.815	73439	1.34		107	1063	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.810	2.810	0.0	1.000	12532	0.1002		100	3.5	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	589033	1.18		100.0	2709	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	27607	0.0502	Target=4.60	110	95.9	M
399.00 > 99.00	3.073	3.073	0.0	1.000	5277		5.23(2.30-6.91)		15.0	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.073	0.011	0.894	708928	1.33		106	4445	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.000	27559	0.0485	Target=3.34	97.0	16.2	
363.00 > 169.00	3.084	3.084	0.0	1.000	8222		3.35(1.67-5.01)		43.2	
77 DONA										
377.00 > 251.00	3.115	3.115	0.0	0.827	64588	0.0510	Target=2.44	108	248	
377.00 > 85.00	3.115	3.115	0.0	0.827	27187		2.38(1.22-3.67)		70.8	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.432	3.433	-0.001	0.912	24894	0.0523	Target=7.08	110	415	M
449.00 > 99.00	3.441	3.433	0.008	0.914	3421		7.28(3.54-10.63)		52.6	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.008	1.000	7163	0.1343		113	212	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.441	0.0	0.997	79369	1.19		100	771	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	676441	1.24		99.0	3614	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.441	0.009		694170	1.25			2509	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	30126	0.0539	Target=2.29	108	14.3	M
413.00 > 169.00	3.450	3.450	0.0	1.000	13084		2.30(1.14-3.43)		43.7	M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	491017	1.20		101	2413	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	19523	0.0437	Target=7.10	94.2	88.8	M
499.00 > 99.00	3.765	3.765	0.0	1.000	3012		6.48(3.55-10.64)		25.4	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.786	0.0	1.098	552830	1.20		96.0	4667	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.786	3.786	0.0	1.000	23795	0.0528	Target=5.83	106	10.6	
463.00 > 169.00	3.786	3.786	0.0	1.000	3483		6.83(2.91-8.74)		58.6	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	19699	0.0501		108	346	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.051	4.052	-0.001	1.076	17207	0.0488	Target=3.38	102	365	
549.00 > 99.00	4.051	4.052	-0.001	1.076	5243		3.28(1.69-5.08)		31.7	M
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.082	4.082	0.0	1.000	24845	0.0565	Target=6.81	113	49.7	RM
513.00 > 169.00	4.082	4.082	0.0	1.000	2381		10.43(3.41-10.22)		44.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.082	0.0	1.183	555998	1.26		101	3327	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.092	0.0	1.000	1688	0.0580		121	45.3	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	88079	1.12		93.8	840	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	864842	1.21		97.2	2299	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.139	0.011	1.003	31076	0.0480		96.1	95.2	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.224	0.0	1.224	31400	1.25		99.9	456	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.224	4.224	0.0	1.000	3054	0.1288		103	31.8	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.321	0.0	1.147	12645	0.0428	Target=3.31	88.9	118	M
599.00 > 99.00	4.309	4.321	-0.012	1.144	4318		2.93(1.66-4.97)		54.0	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	384719	1.15		92.3	5103	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.343	0.0	1.000	19773	0.0651	Target=6.57	130	25.9	M
563.00 > 169.00	4.355	4.343	0.012	1.003	2662		7.43(3.28-9.85)		42.3	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	34003	1.26		101	551	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.366	4.366	0.0	1.003	3529	0.1417		113		M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.177	16598	0.0490		104	332	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	417936	1.19		94.9	2964	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	20313	0.0623	Target=5.16	125	32.3	
613.00 > 169.00	4.585	4.573	0.012	1.003	3394		5.98(2.58-7.75)		80.7	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.609	4.597	0.012	1.127	941	0.0582		121	36.6	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.754	4.745	0.009	1.263	5173	0.0546	Target=0.45	113	19.3	M
699.00 > 99.00	4.754	4.745	0.009	1.263	9289		0.56(0.22-0.67)		177	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.790	4.790	0.0	1.047	15862	0.0573	Target=3.30	115	11.8	
663.00 > 169.00	4.790	4.790	0.0	1.047	4755		3.34(1.65-4.95)		154	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.978	0.010	1.446	304175	1.21		96.9	3061	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.988	4.978	0.010	1.000	2727	0.0489	Target=1.06	97.9	112	
713.00 > 219.00	4.979	4.978	0.001	0.998	3115		0.88(0.53-1.59)		112	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.351	5.350	0.001	1.551	331378	1.16		93.2	3470	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.351	5.350	0.001	1.000	16117	0.0465	Target=3.06	93.1	14.6	
813.00 > 169.00	5.351	5.350	0.001	1.000	5508		2.93(1.53-4.58)		236	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.738	5.738	0.0	1.072	11733	0.0592	Target=2.82	118	18.2	
913.00 > 169.00	5.738	5.738	0.0	1.072	4090		2.87(1.41-4.24)		181	

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCLOQV_00010

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

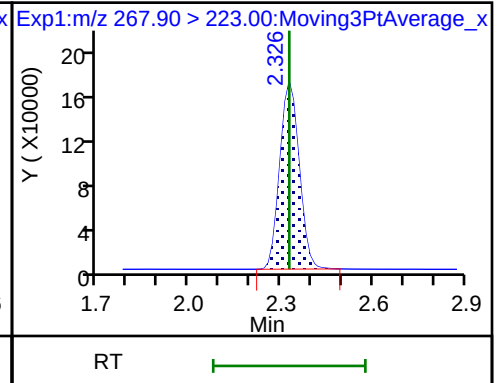
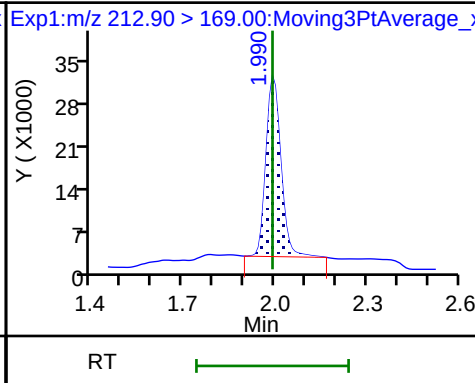
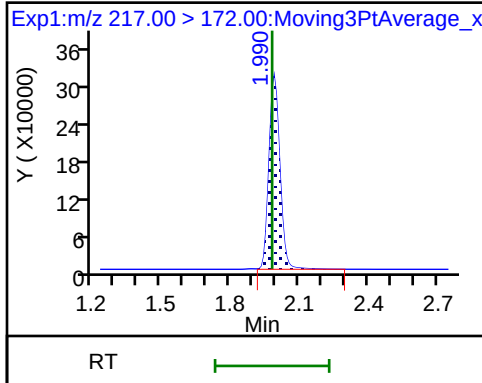
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

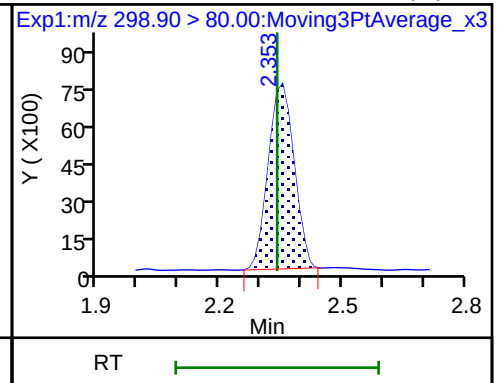
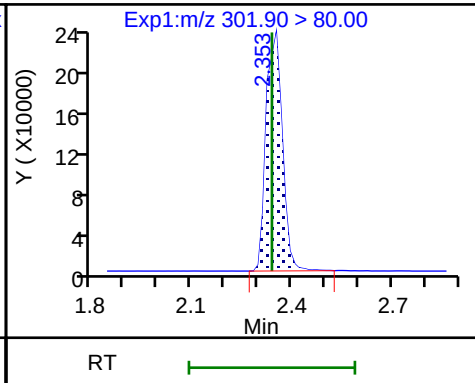
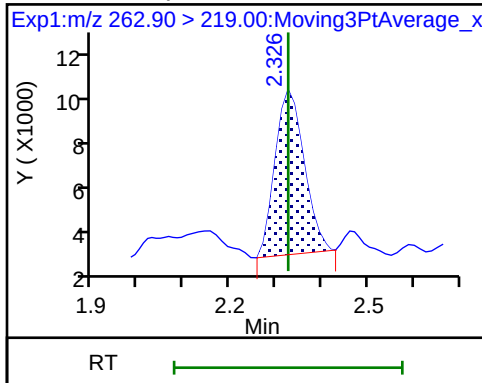
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

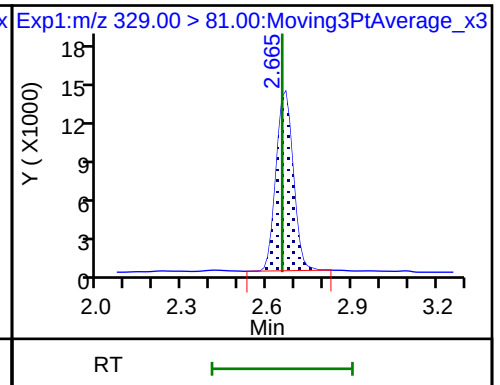
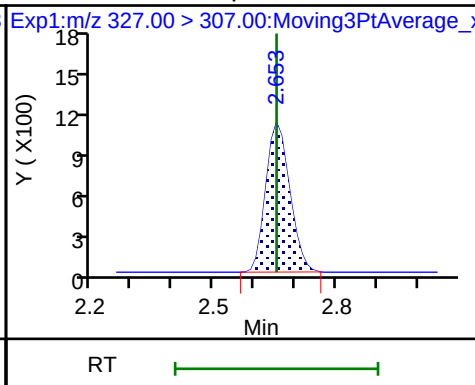
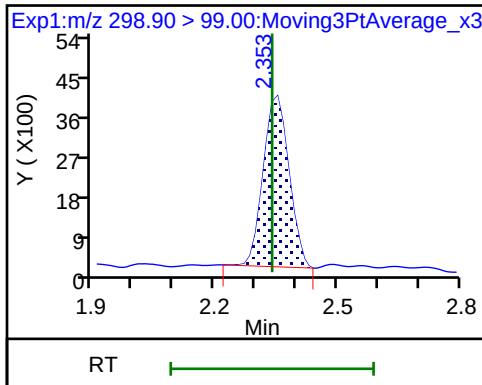
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

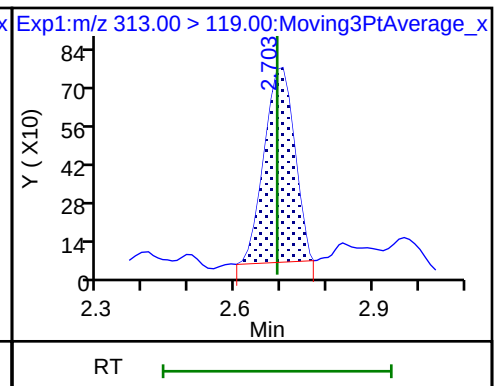
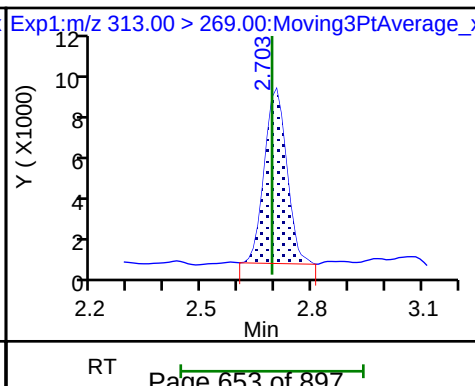
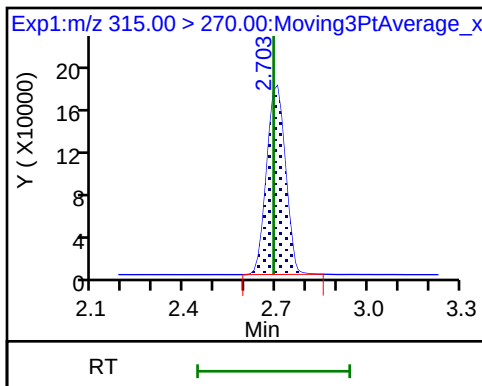
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

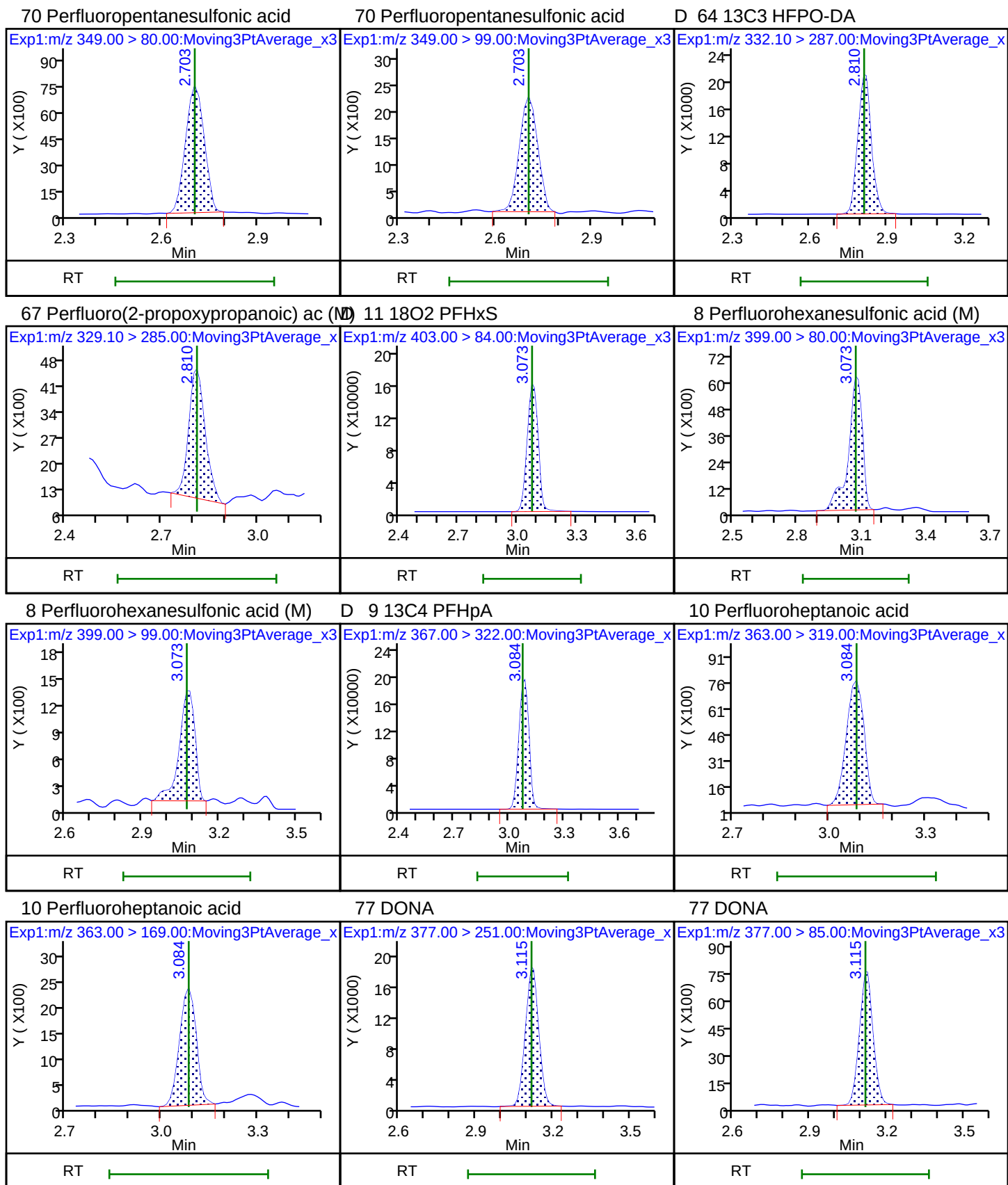


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





16 Perfluoroheptanesulfonic acid (M)

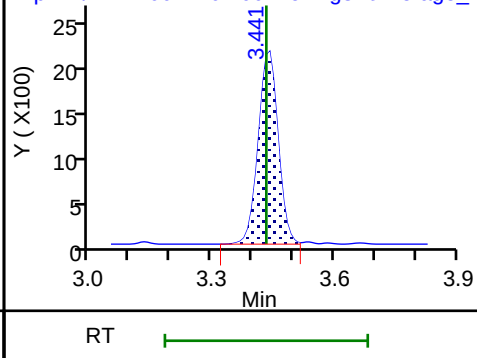
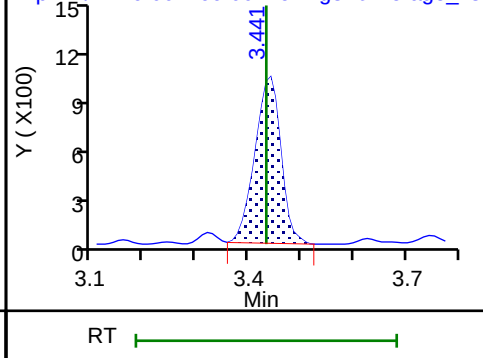
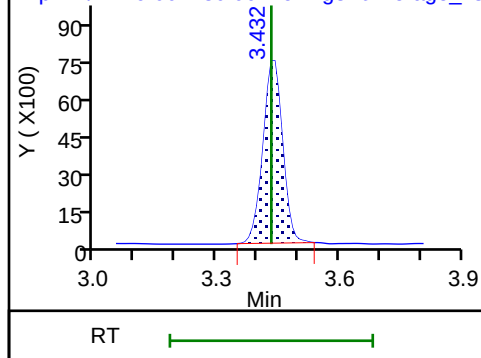
16 Perfluoroheptanesulfonic acid (M)

13 1H,1H,2H,2H-perfluorooctanesulfo (M)

Exp1:m/z 449.00 > 80.00:Moving3PtAverage_x3

Exp1:m/z 449.00 > 99.00:Moving3PtAverage_x3

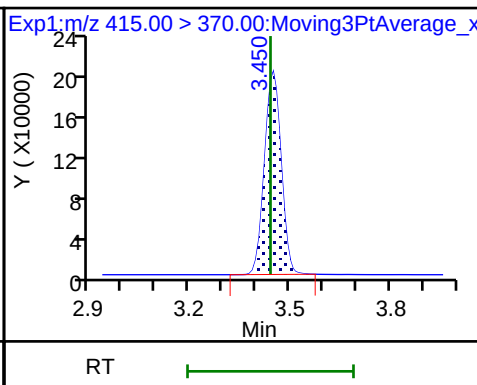
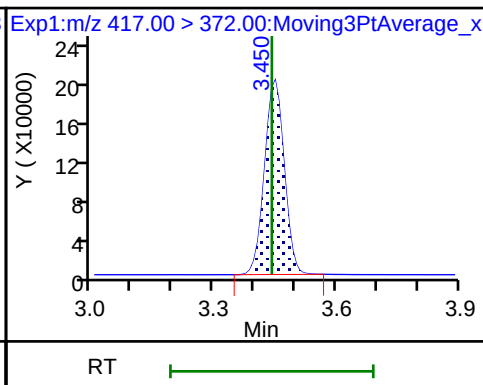
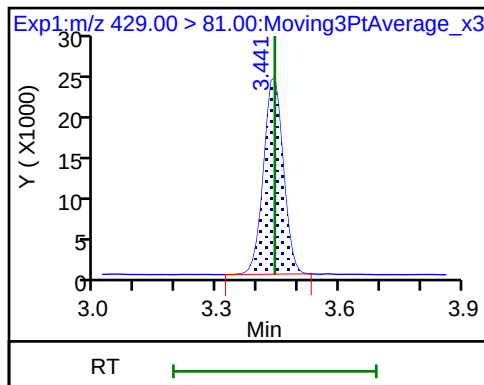
Exp1:m/z 427.00 > 407.00:Moving3PtAverage_x3



D 12 M2-6:2 FTS

D 14 13C4 PFOA

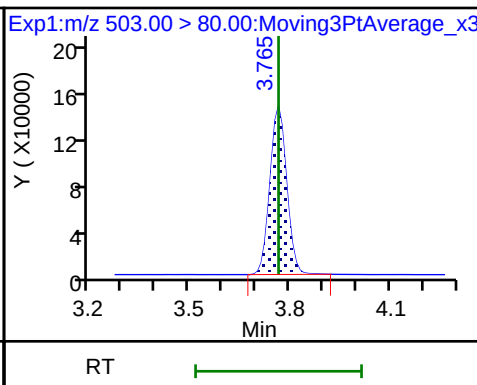
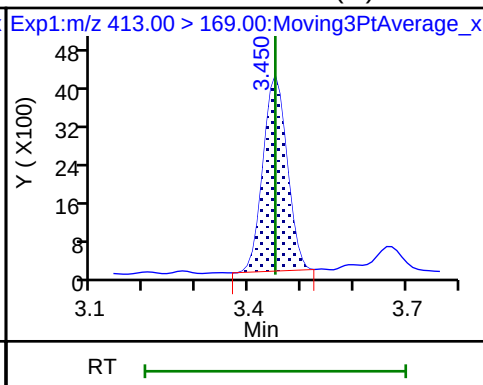
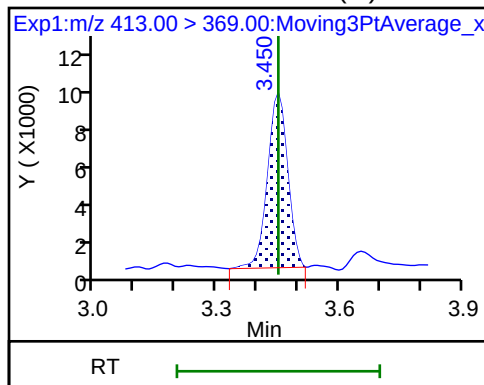
* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

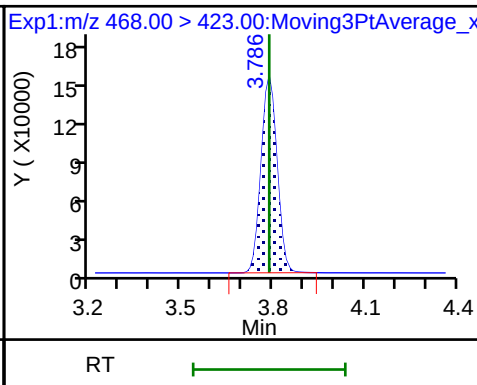
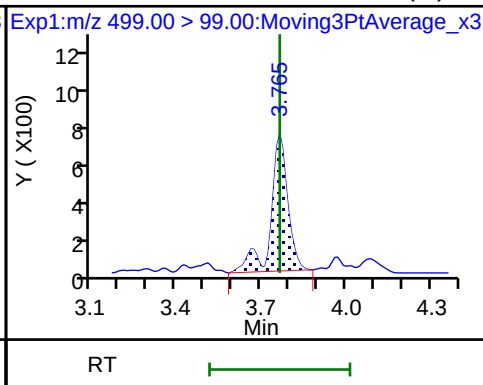
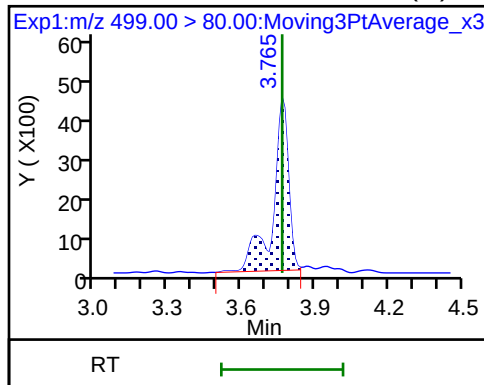
D 18 13C4 PFOS

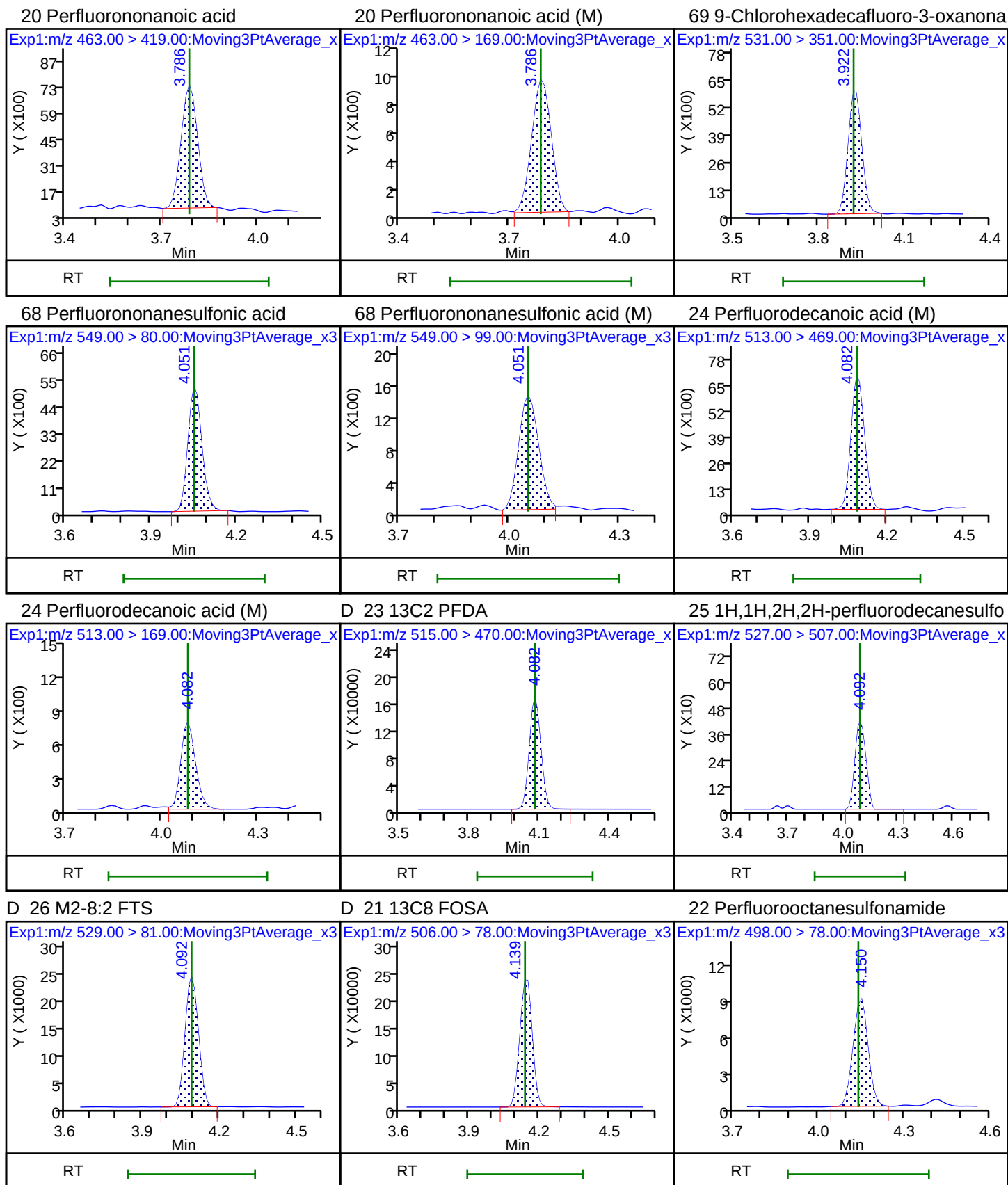


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

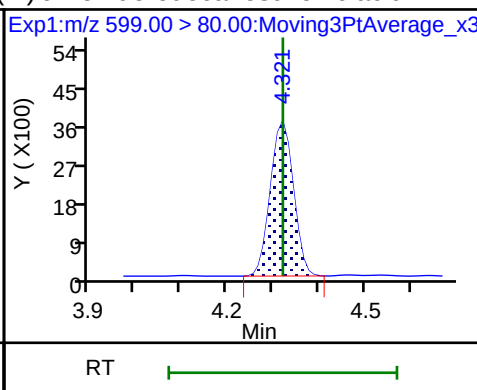
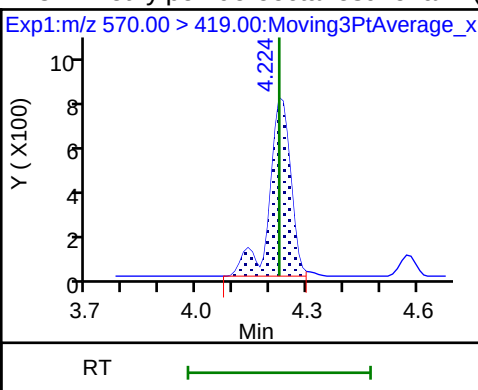
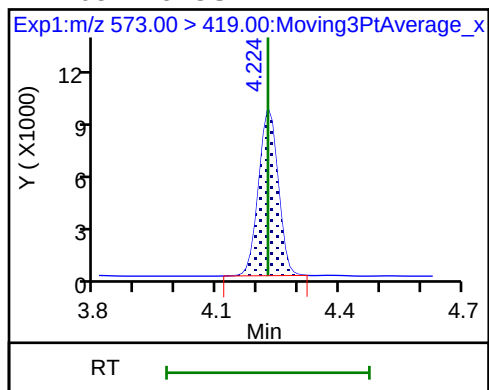




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M)

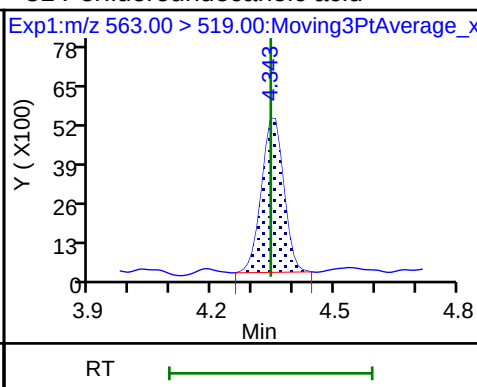
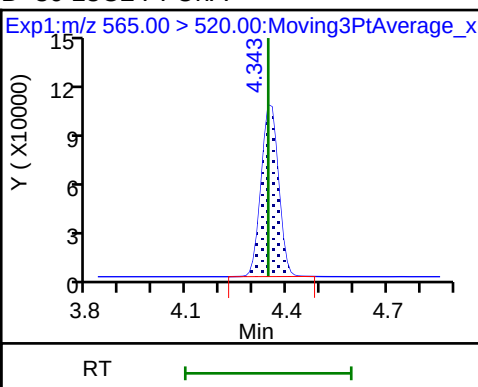
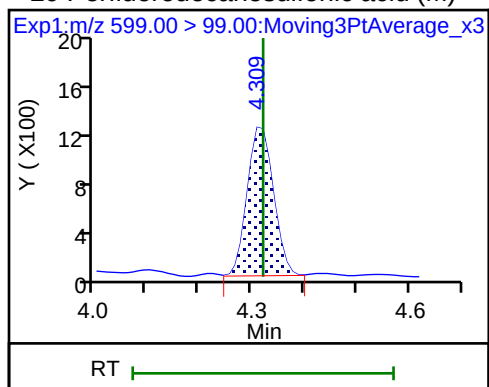
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

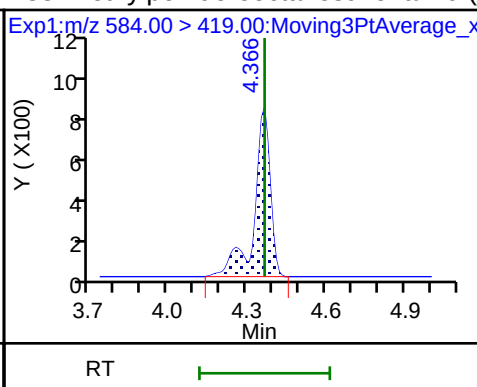
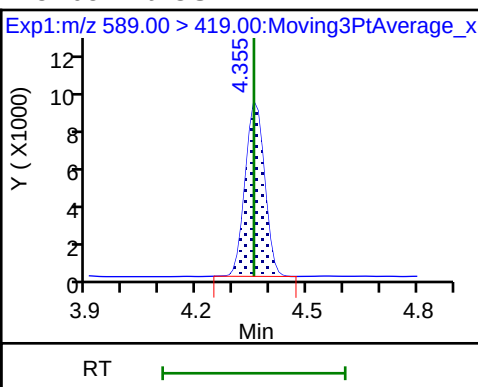
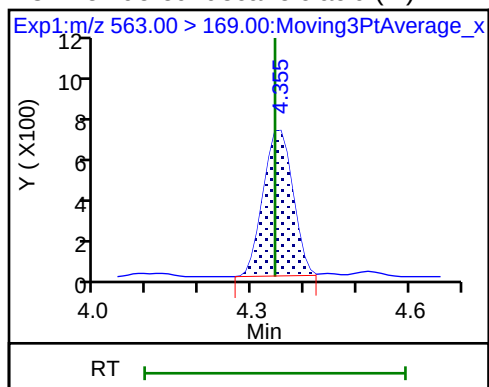
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

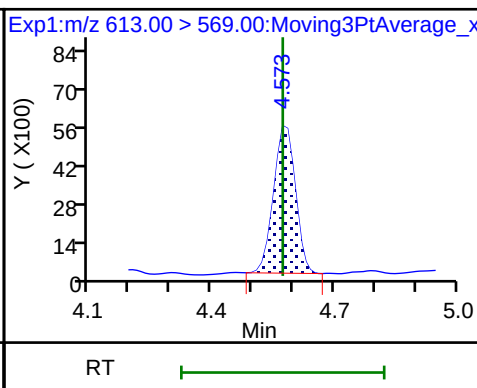
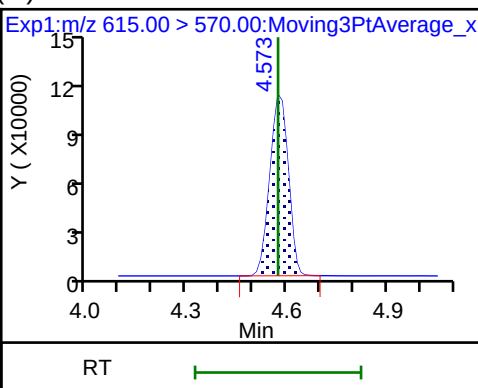
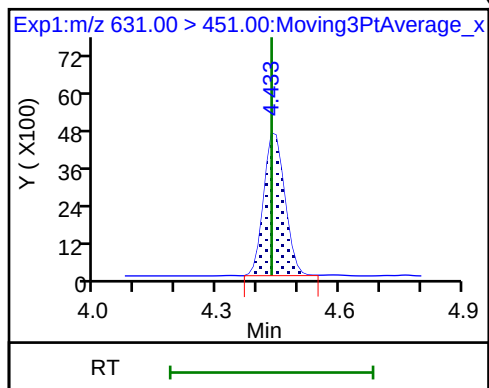
33 N-ethylperfluorooctanesulfonamid (M)

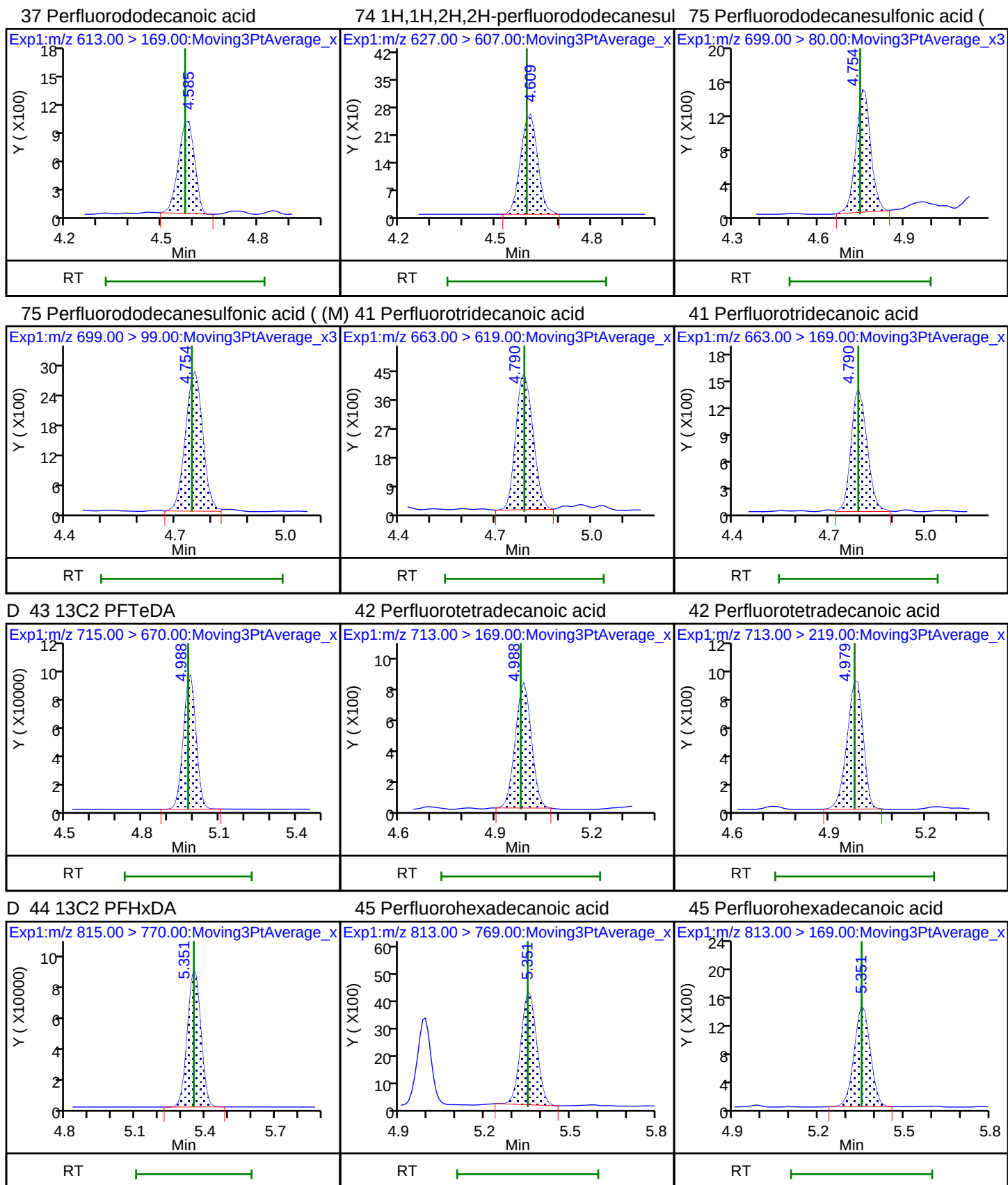


66 11-Chloroeicosafluoro-3-oxaundec (M)

36 13C2 PFDaA

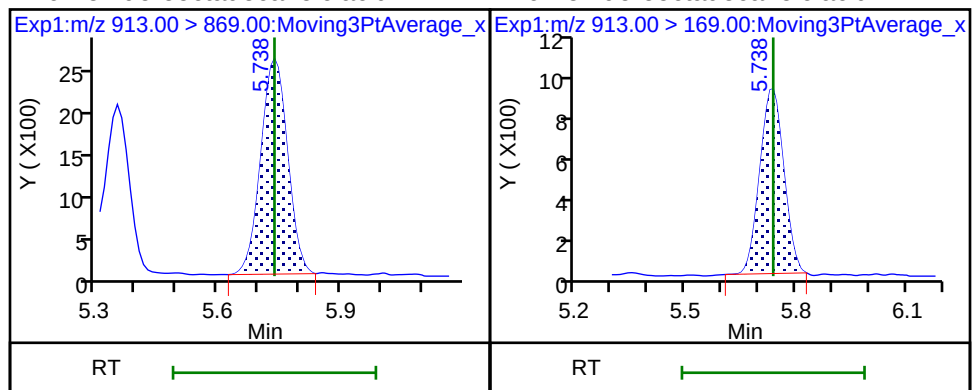
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

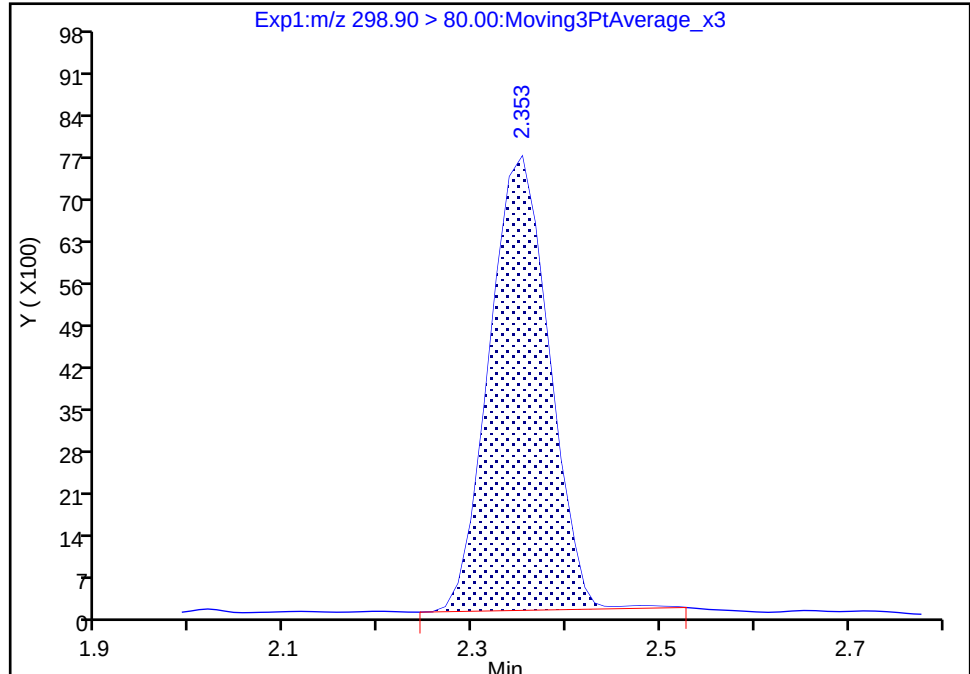
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d
Injection Date: 24-Sep-2020 11:56:57 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

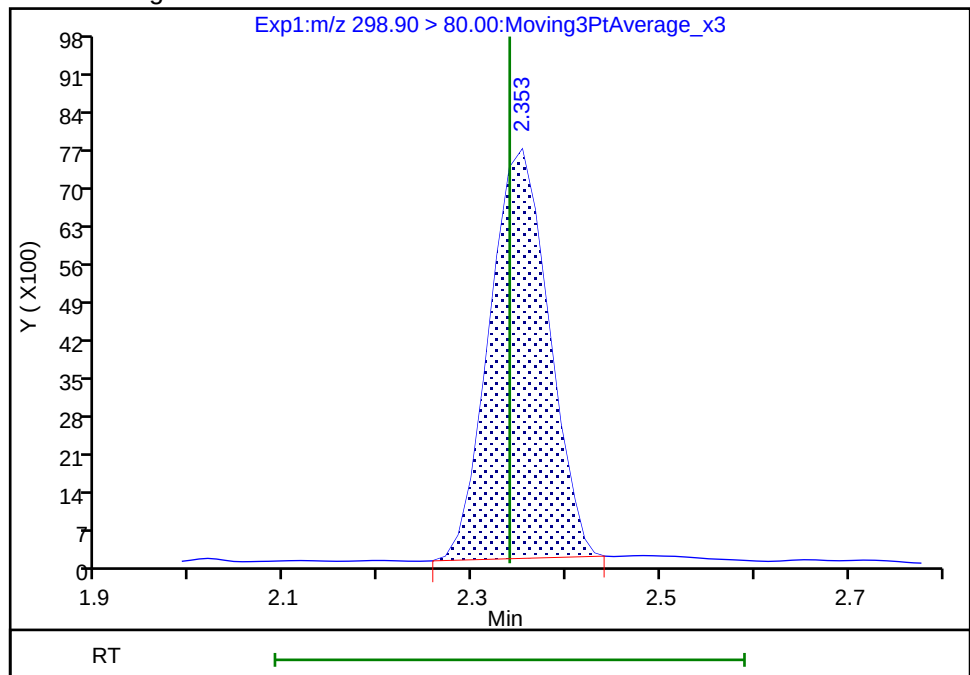
RT: 2.35
Area: 33642
Amount: 0.048751
Amount Units: ng/ml

Processing Integration Results



RT: 2.35
Area: 33246
Amount: 0.048177
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:46:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

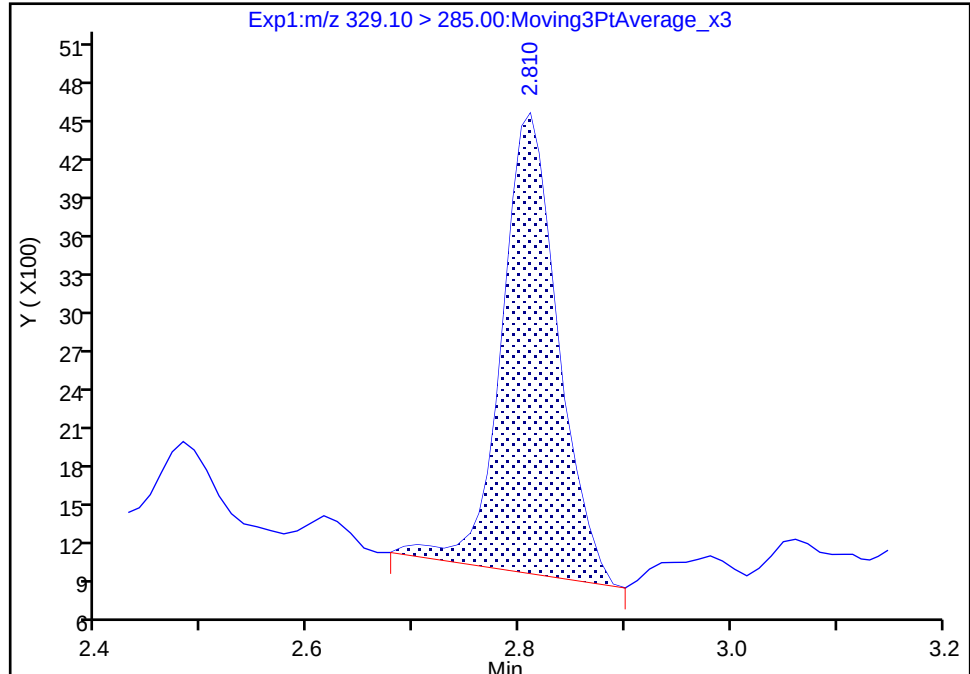
Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

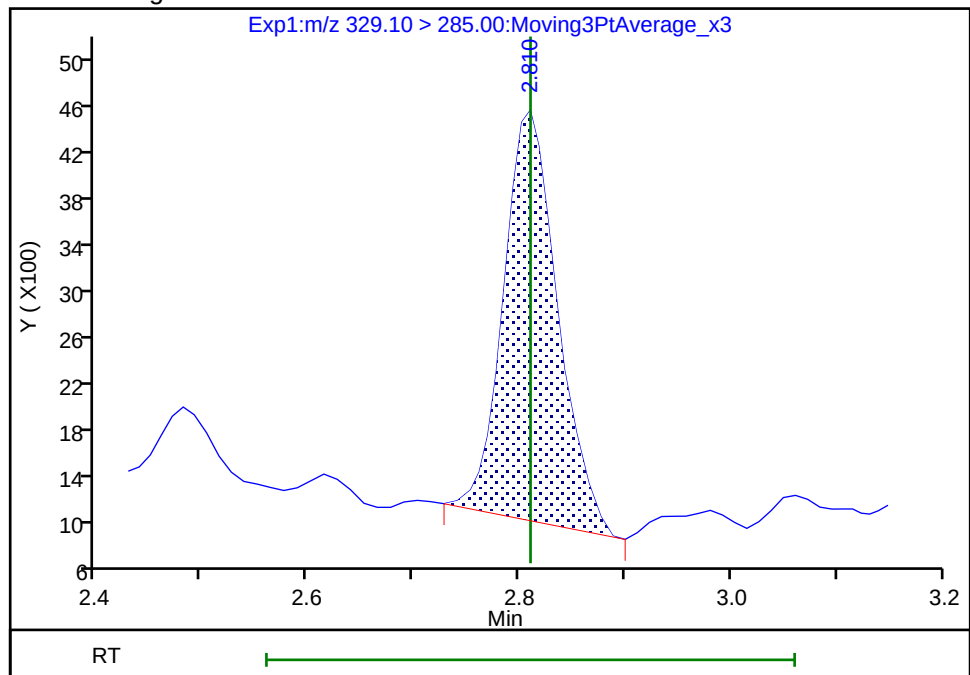
RT: 2.81
Area: 13239
Amount: 0.105902
Amount Units: ng/ml

Processing Integration Results



RT: 2.81
Area: 12532
Amount: 0.100247
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:46:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

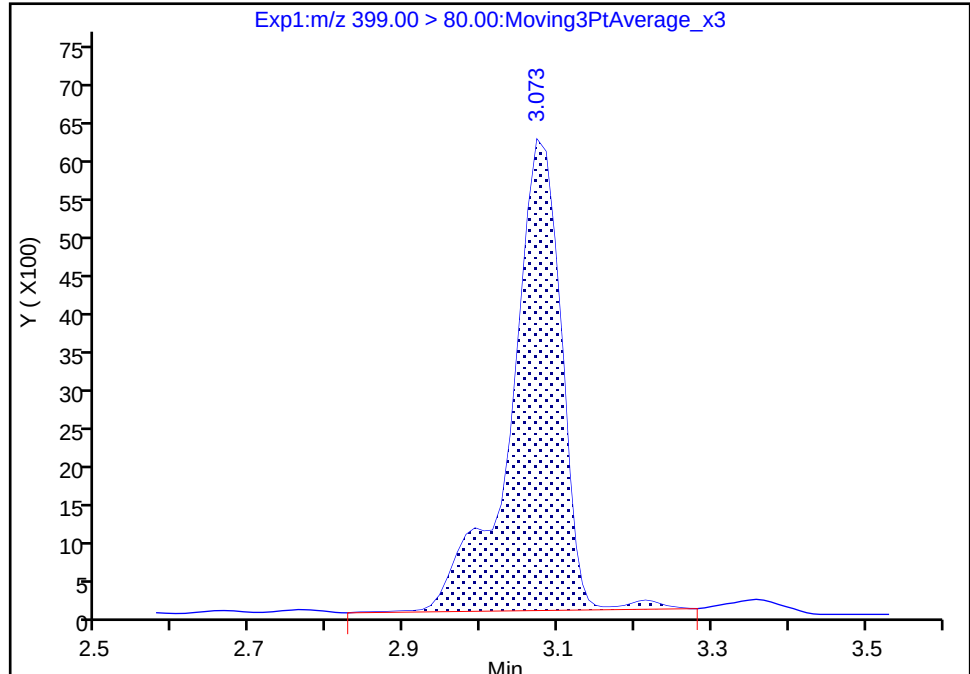
Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

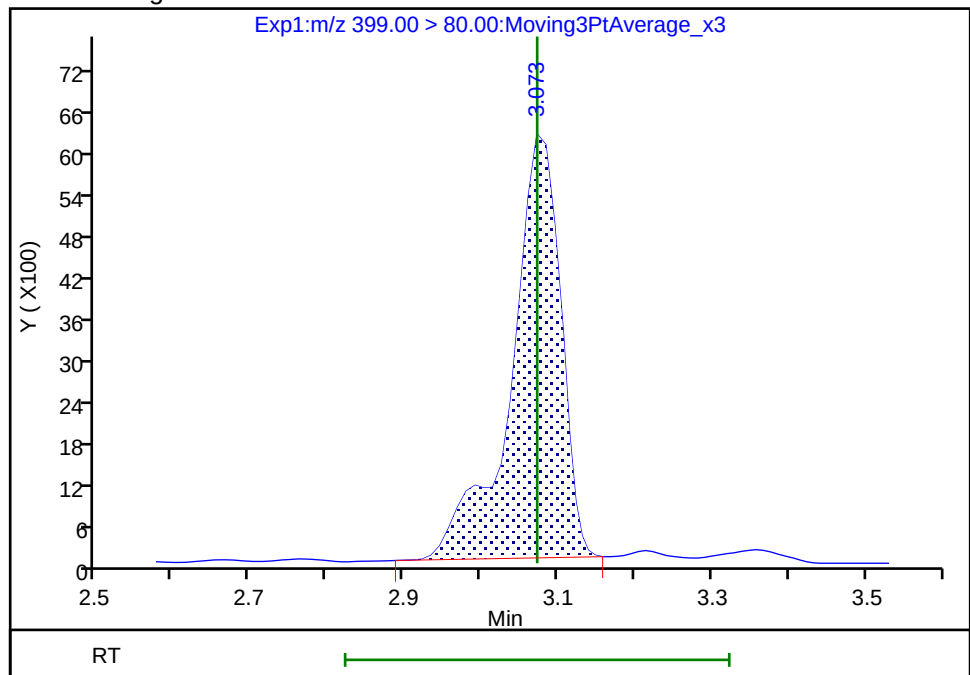
RT: 3.07
Area: 28398
Amount: 0.051620
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 27607
Amount: 0.050182
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:46:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

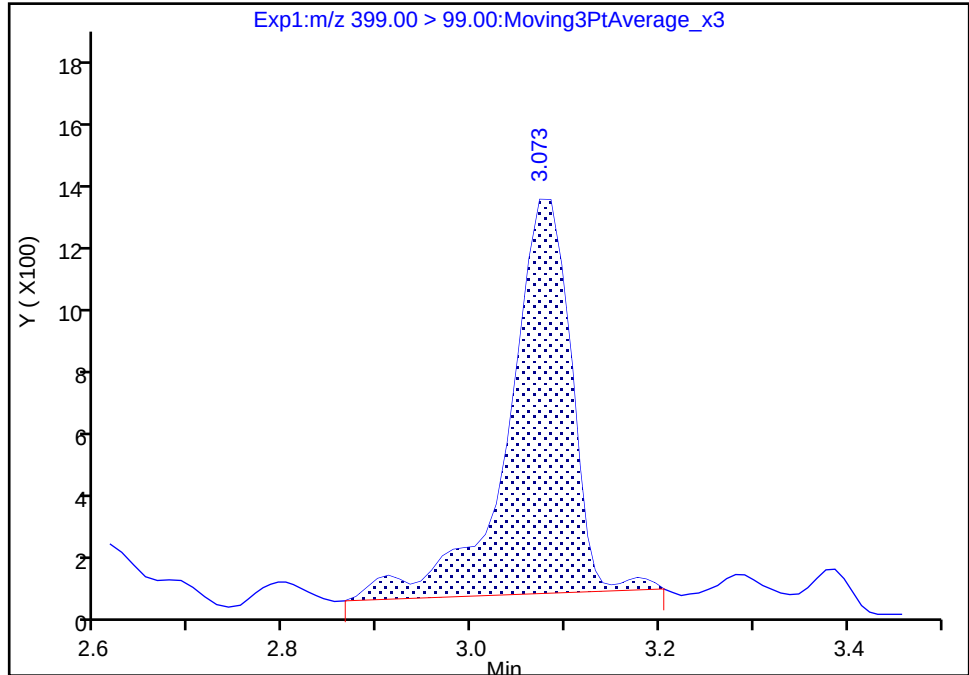
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

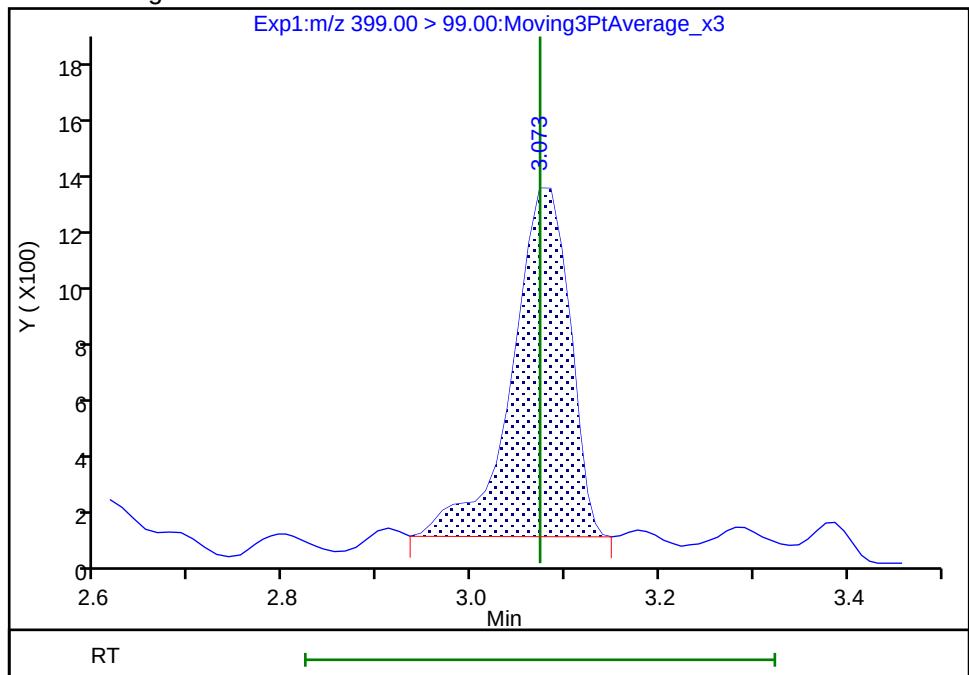
RT: 3.07
Area: 5958
Amount: 0.051620
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 5277
Amount: 0.050182
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:46:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

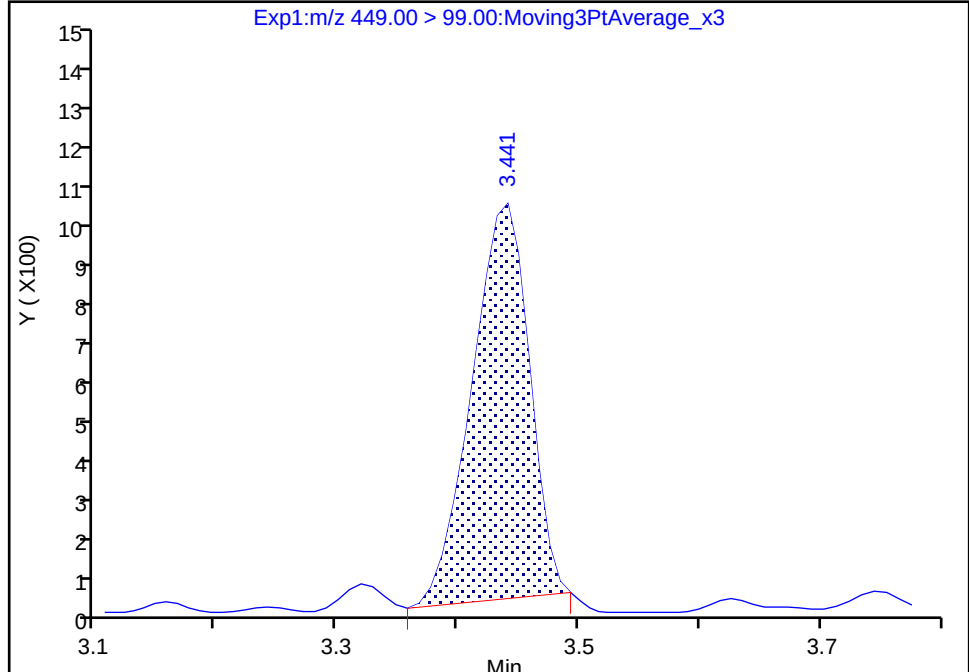
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d
Injection Date: 24-Sep-2020 11:56:57 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

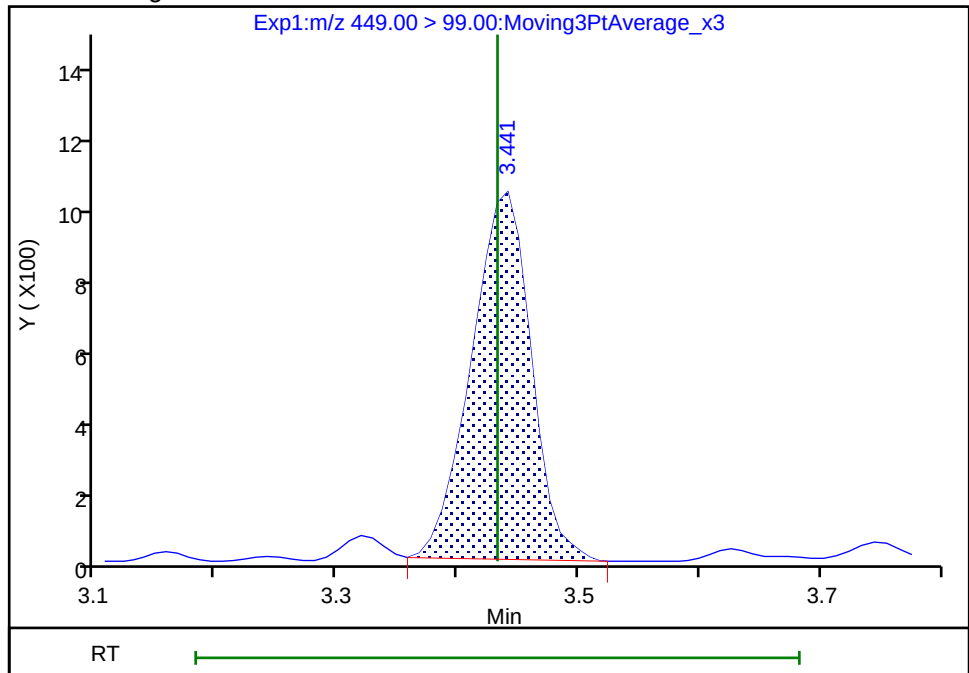
RT: 3.44
Area: 3200
Amount: 0.051405
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 3421
Amount: 0.052293
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:46:39
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 664 of 897

Eurofins TestAmerica, Burlington

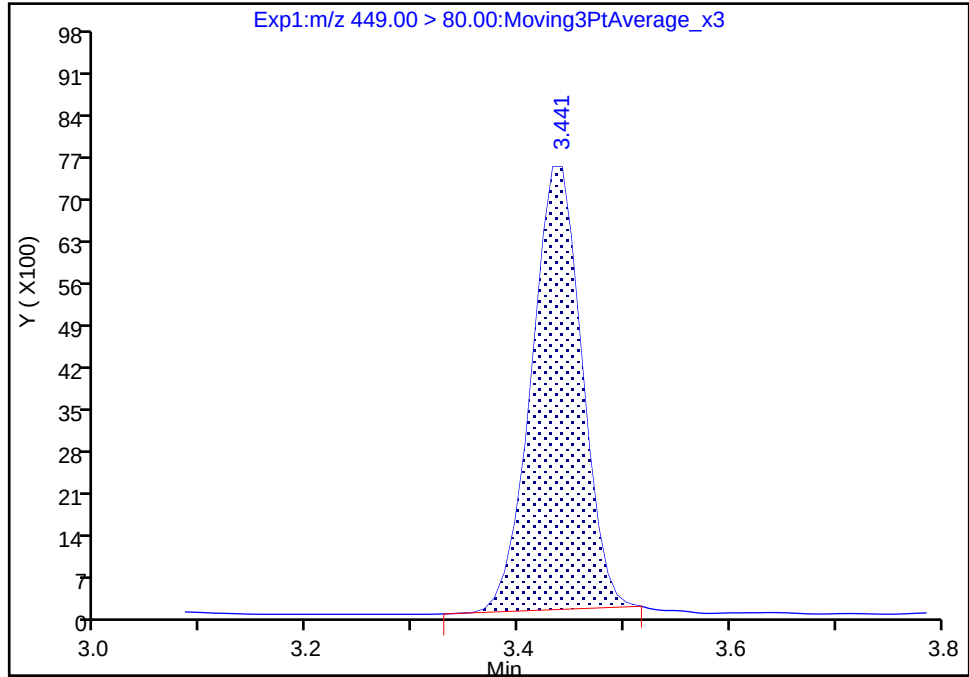
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d
Injection Date: 24-Sep-2020 11:56:57 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

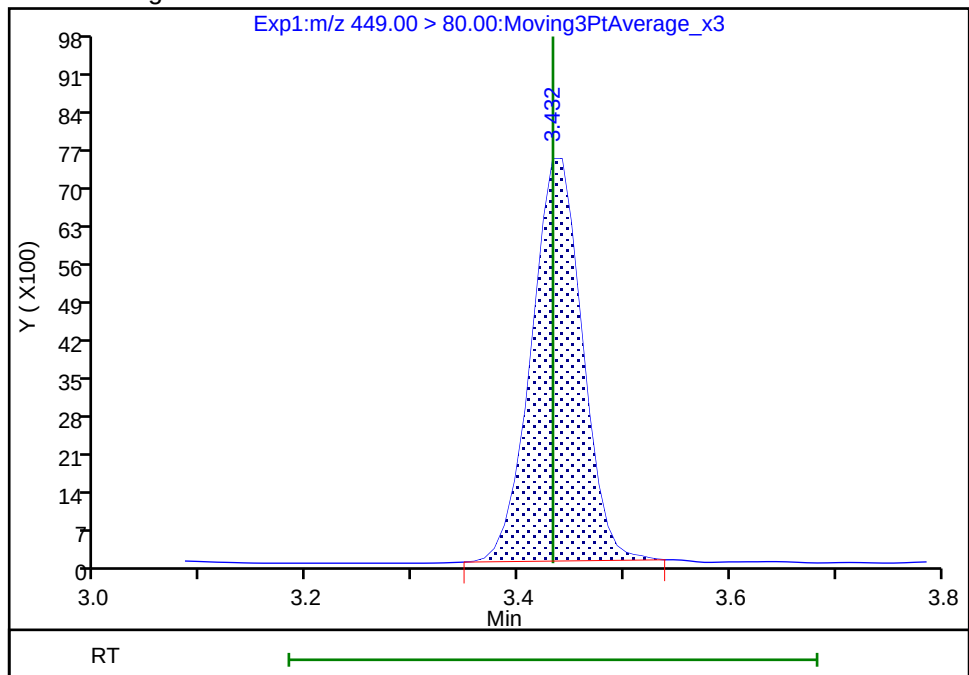
RT: 3.44
Area: 24471
Amount: 0.051405
Amount Units: ng/ml

Processing Integration Results



RT: 3.43
Area: 24894
Amount: 0.052293
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:46:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

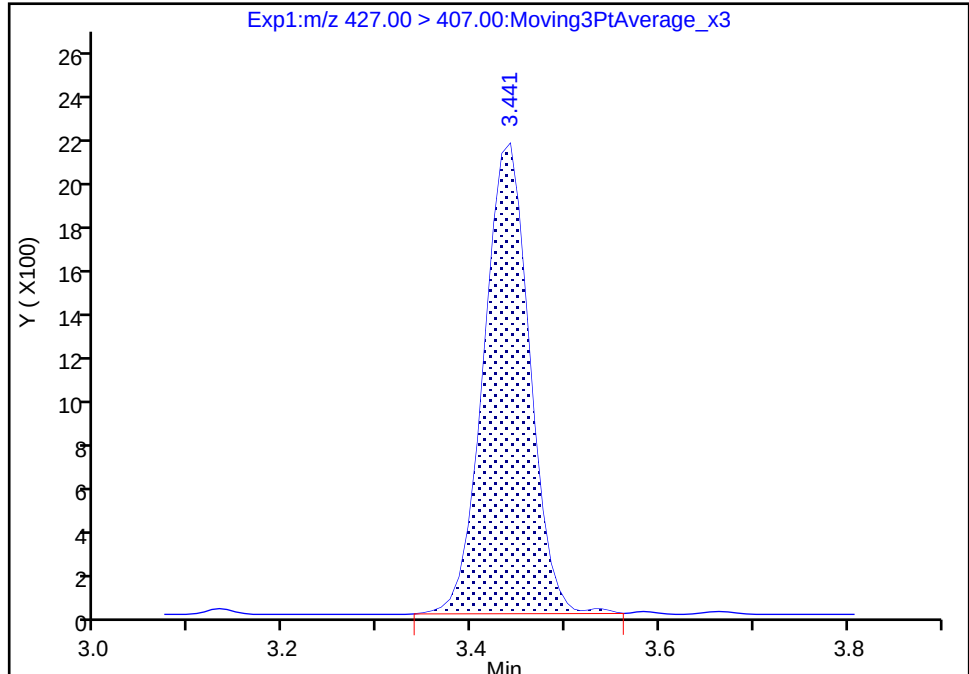
Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

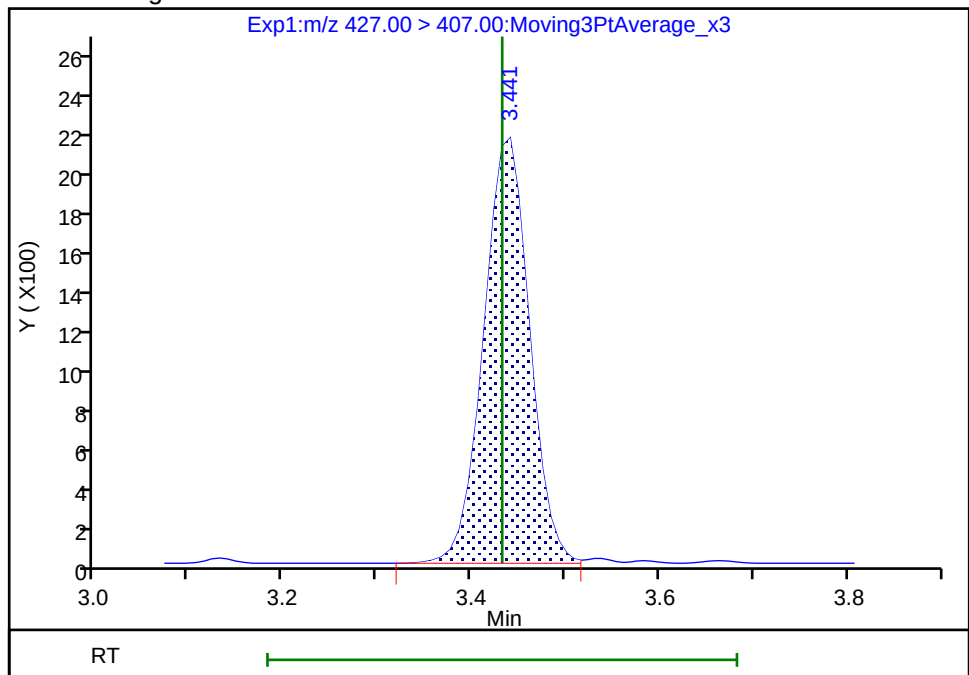
RT: 3.44
Area: 7167
Amount: 0.134362
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 7163
Amount: 0.134287
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:47:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

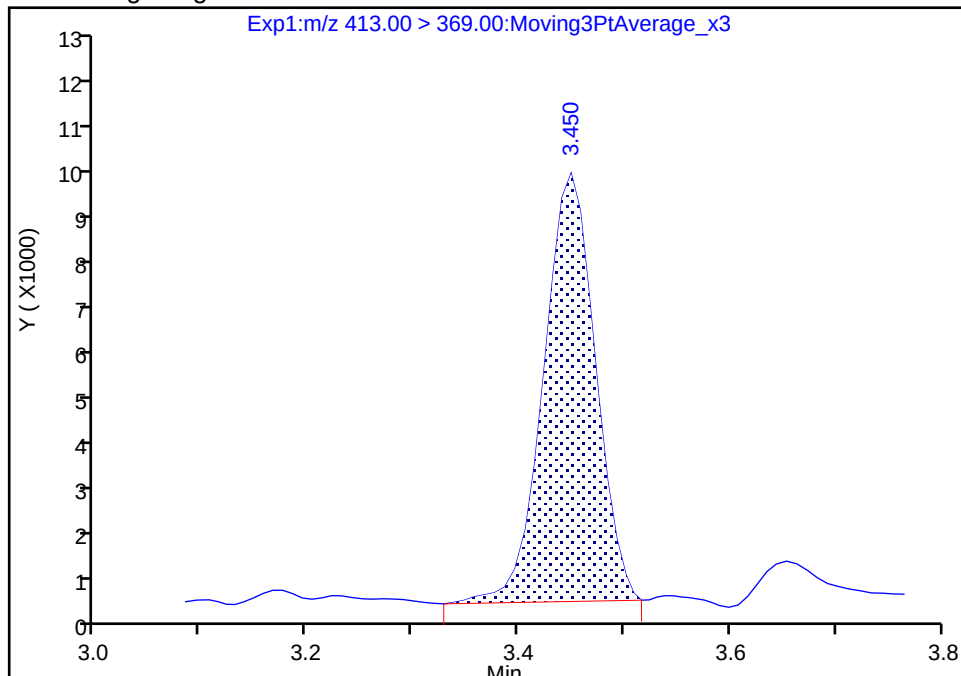
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d
Injection Date: 24-Sep-2020 11:56:57 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

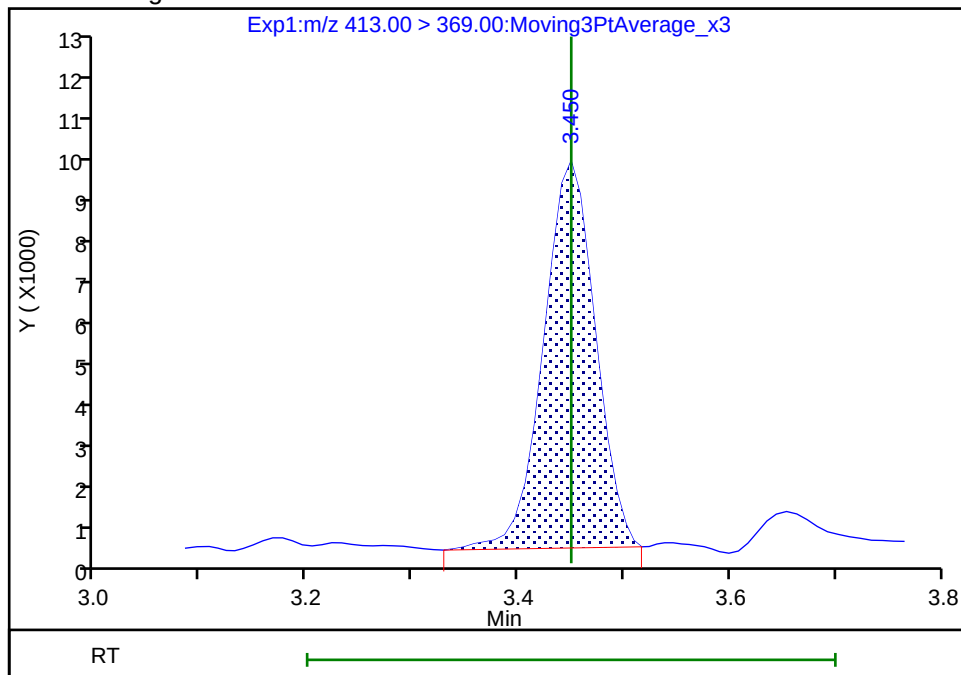
RT: 3.45
Area: 30126
Amount: 0.053922
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 30126
Amount: 0.053922
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:47:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

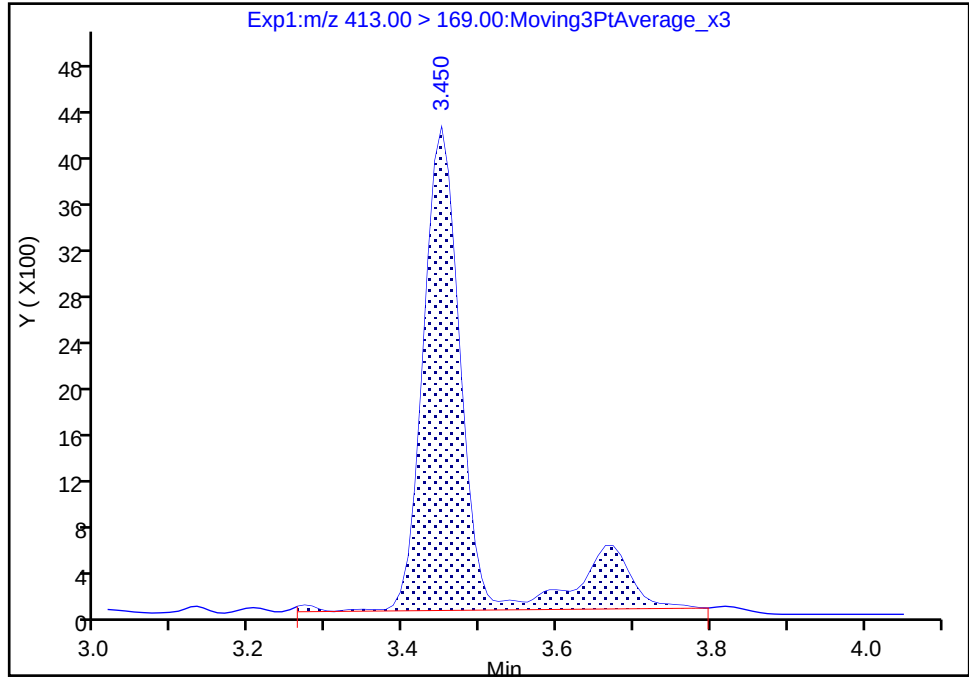
EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

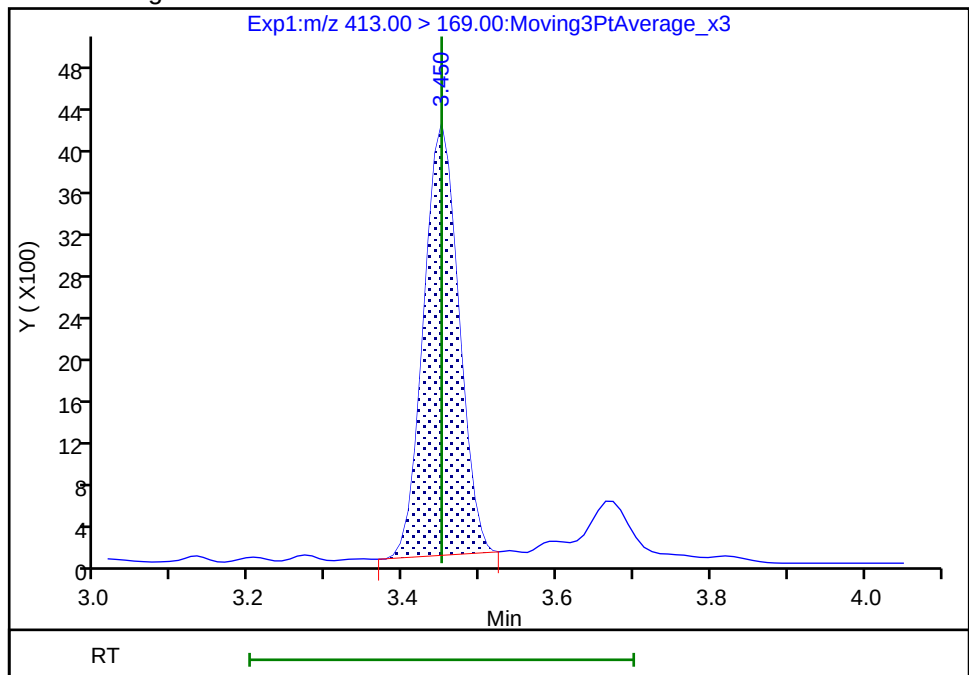
RT: 3.45
Area: 16354
Amount: 0.053922
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 13084
Amount: 0.053922
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:47:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

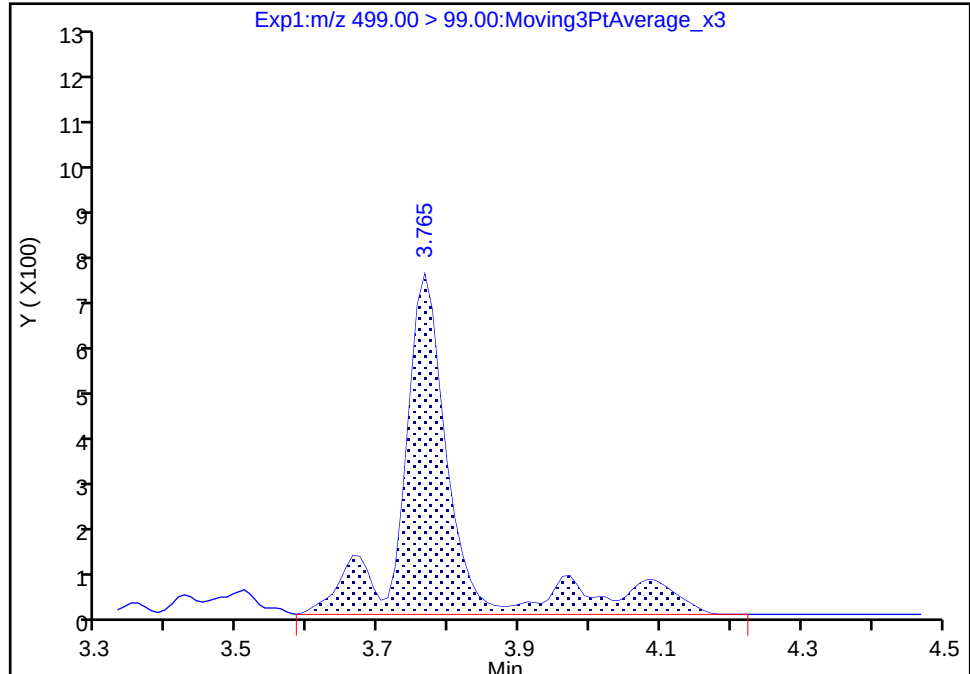
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

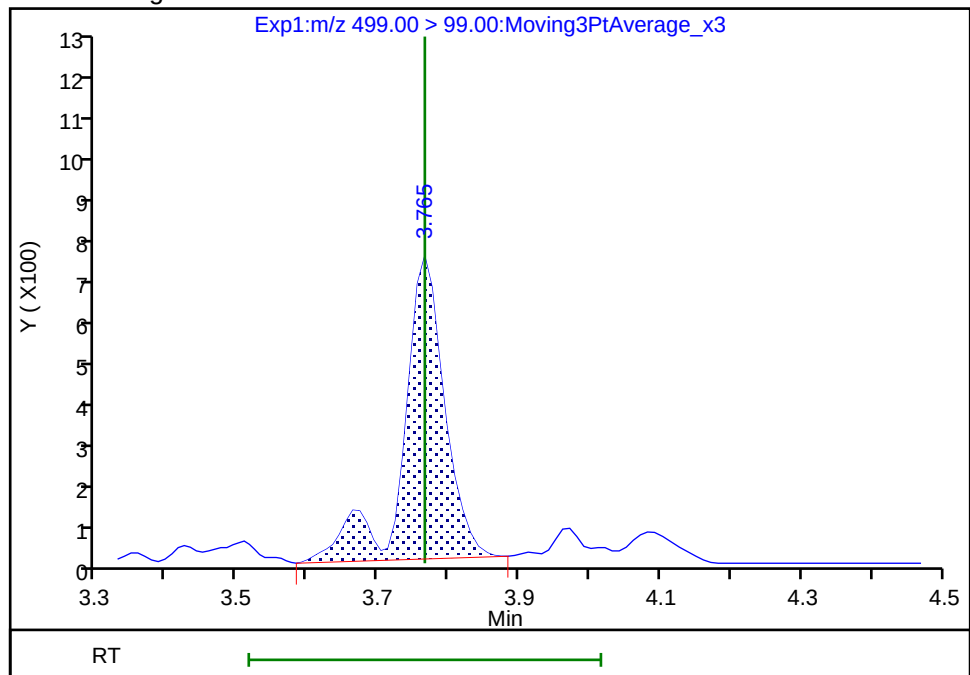
RT: 3.77
Area: 3901
Amount: 0.049907
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 3012
Amount: 0.043723
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:48:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

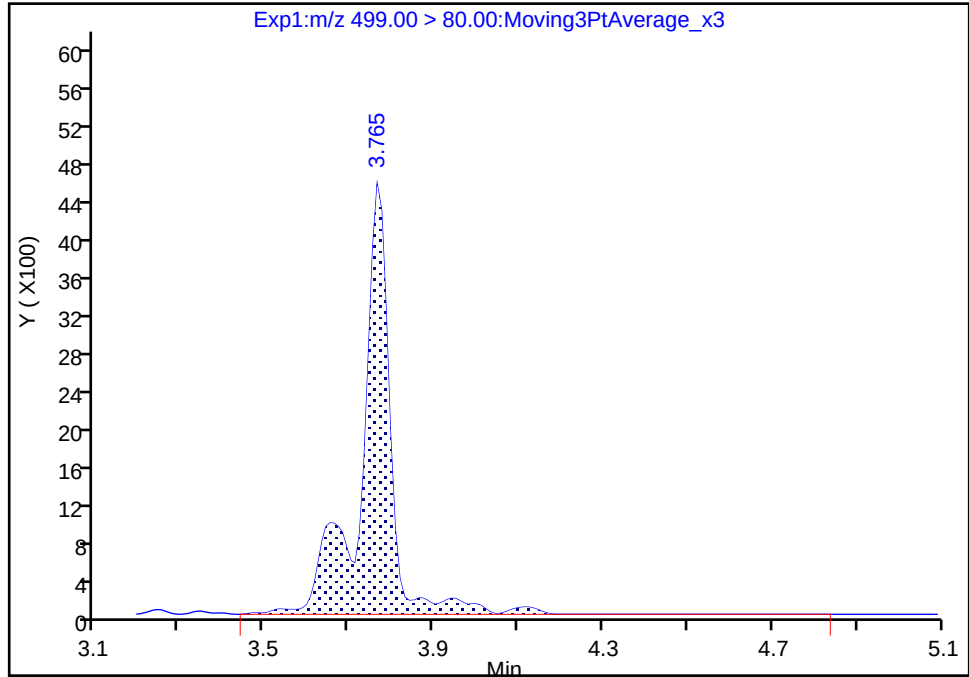
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

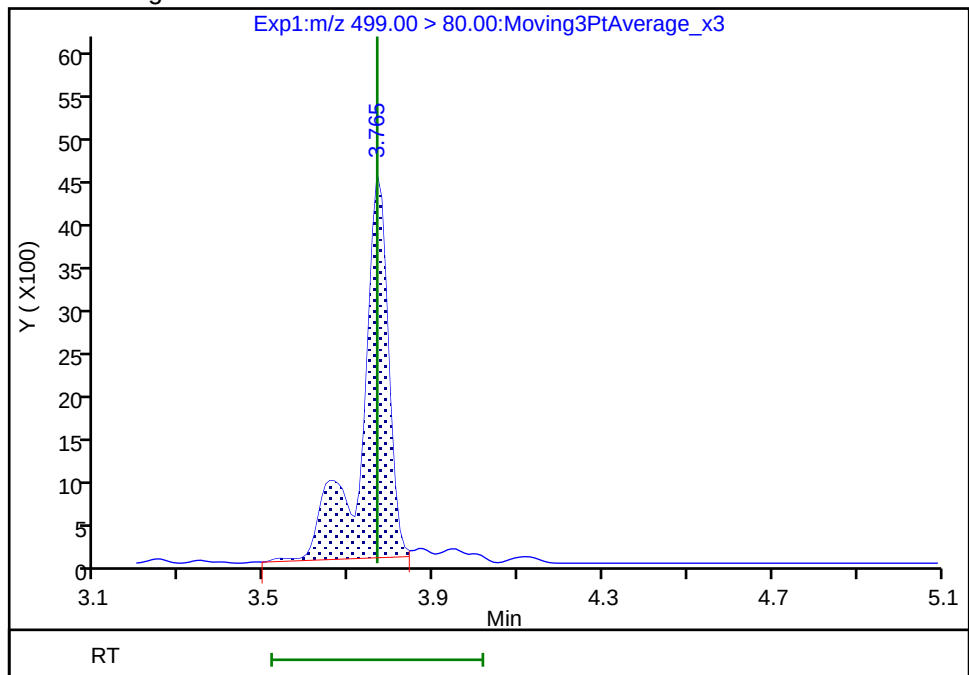
RT: 3.77
Area: 22284
Amount: 0.049907
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 19523
Amount: 0.043723
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:48:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

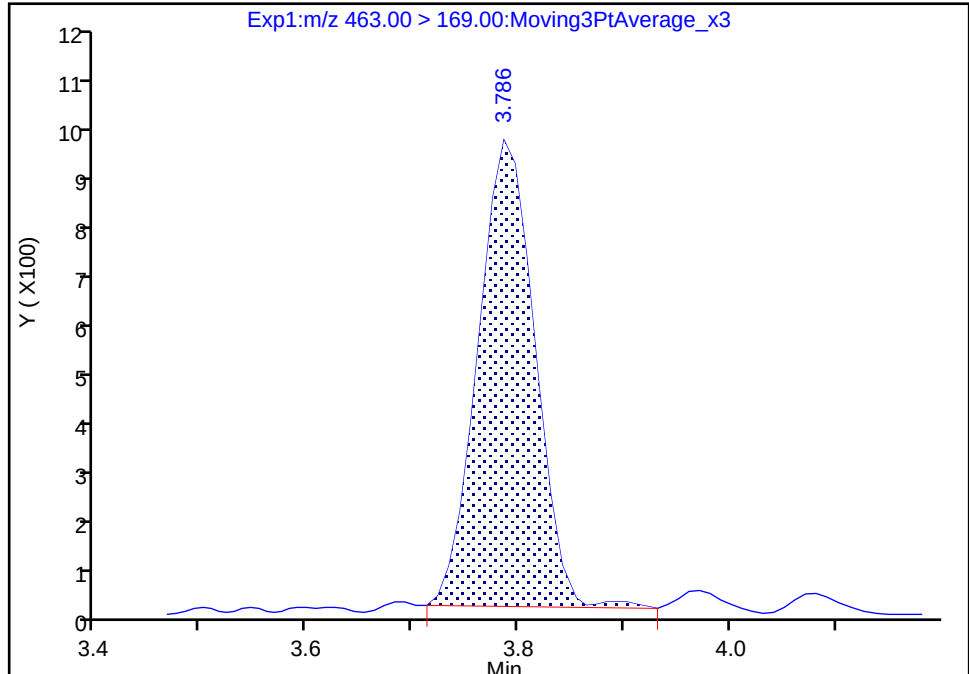
EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

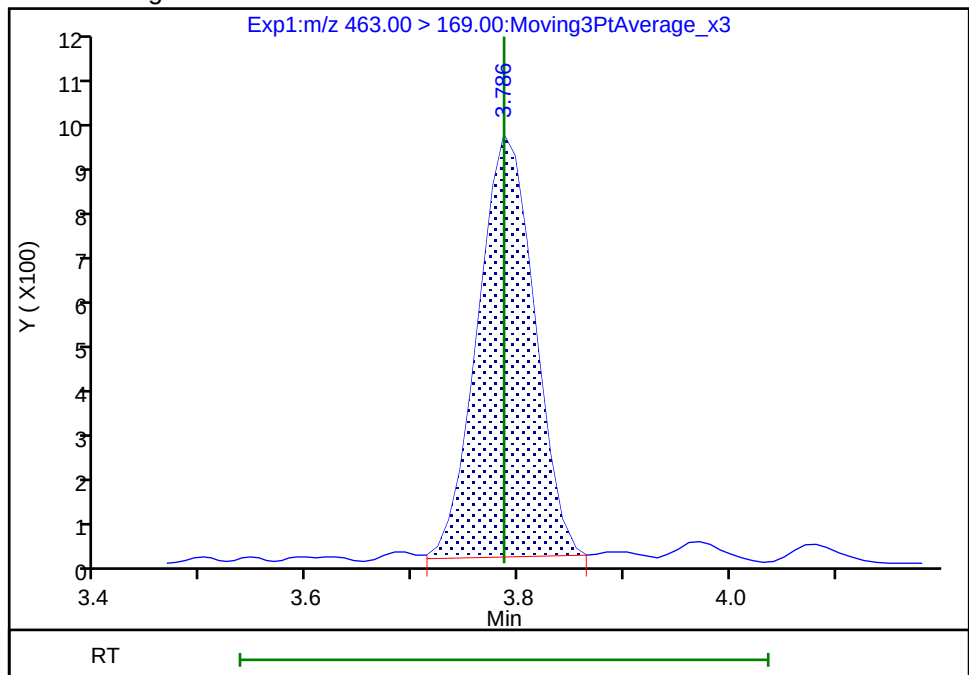
RT: 3.79
Area: 3498
Amount: 0.052833
Amount Units: ng/ml

Processing Integration Results



RT: 3.79
Area: 3483
Amount: 0.052833
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:48:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

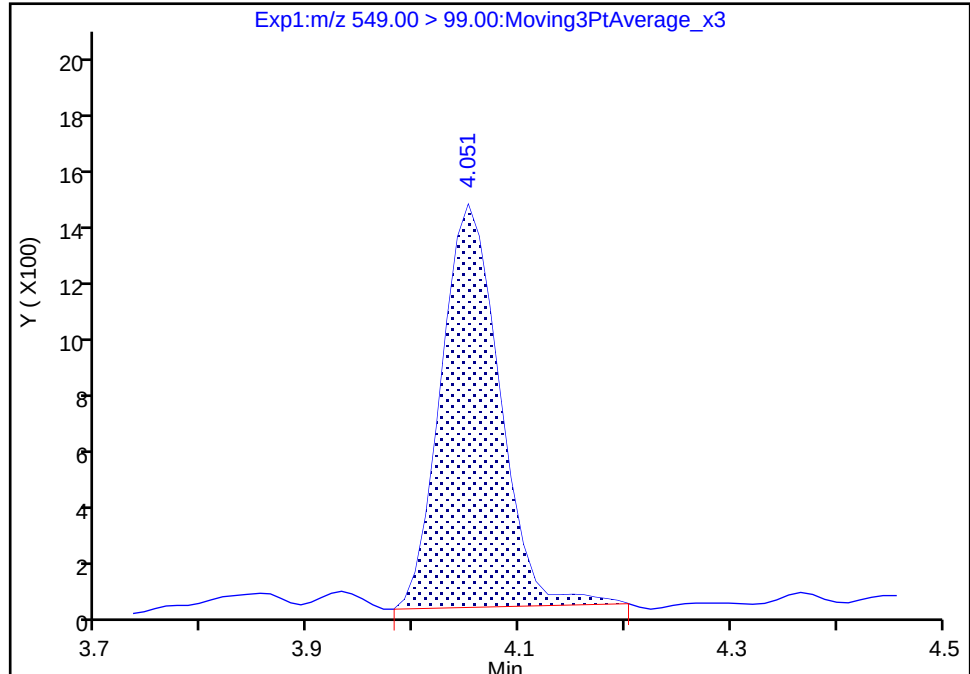
EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

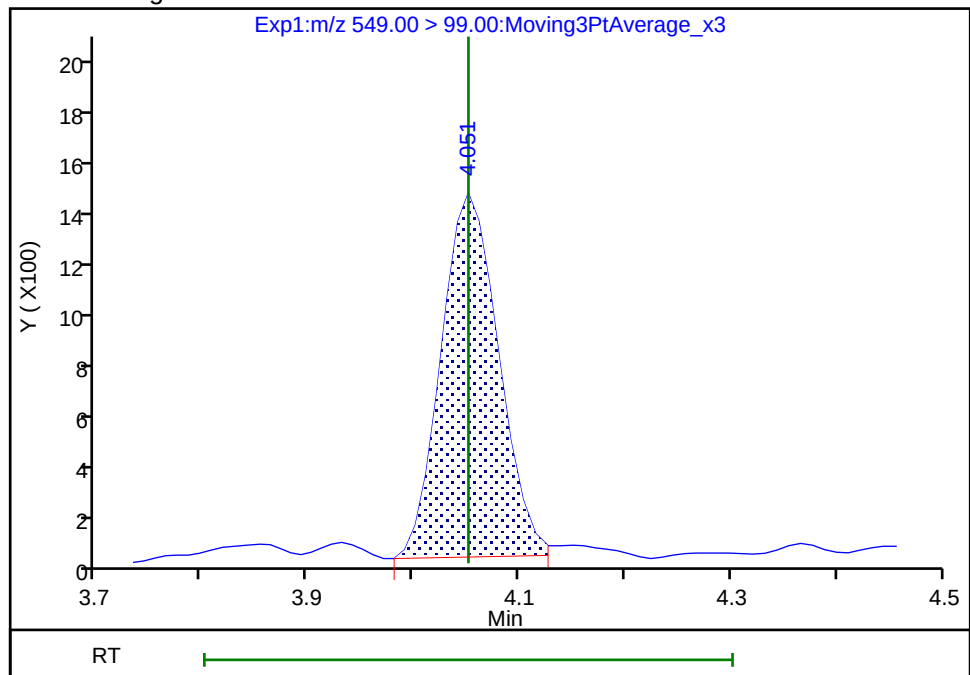
RT: 4.05
Area: 5360
Amount: 0.048762
Amount Units: ng/ml

Processing Integration Results



RT: 4.05
Area: 5243
Amount: 0.048762
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:48:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

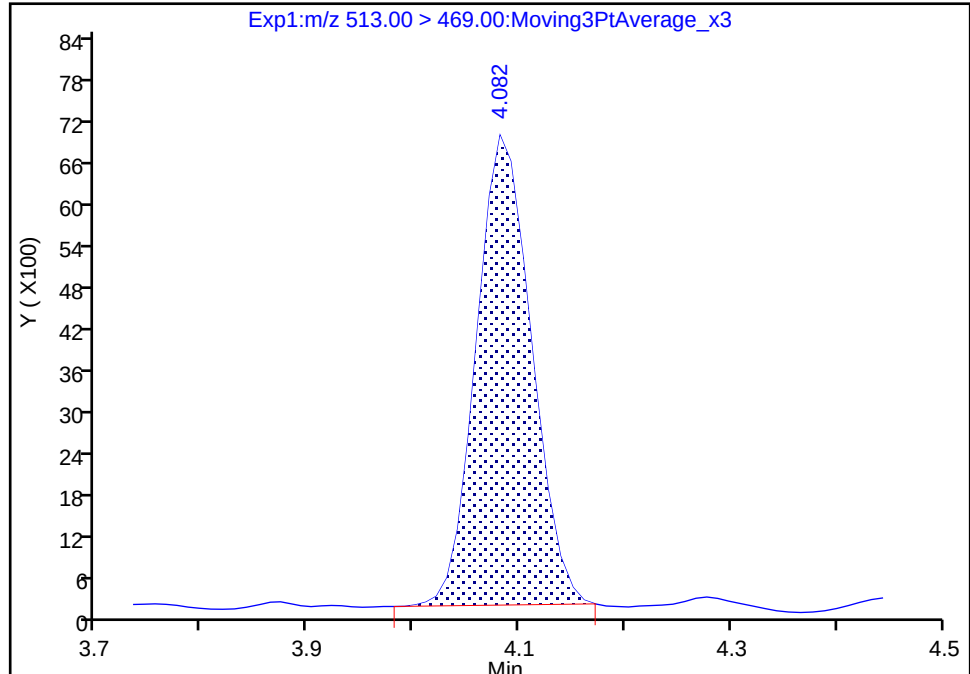
Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 1

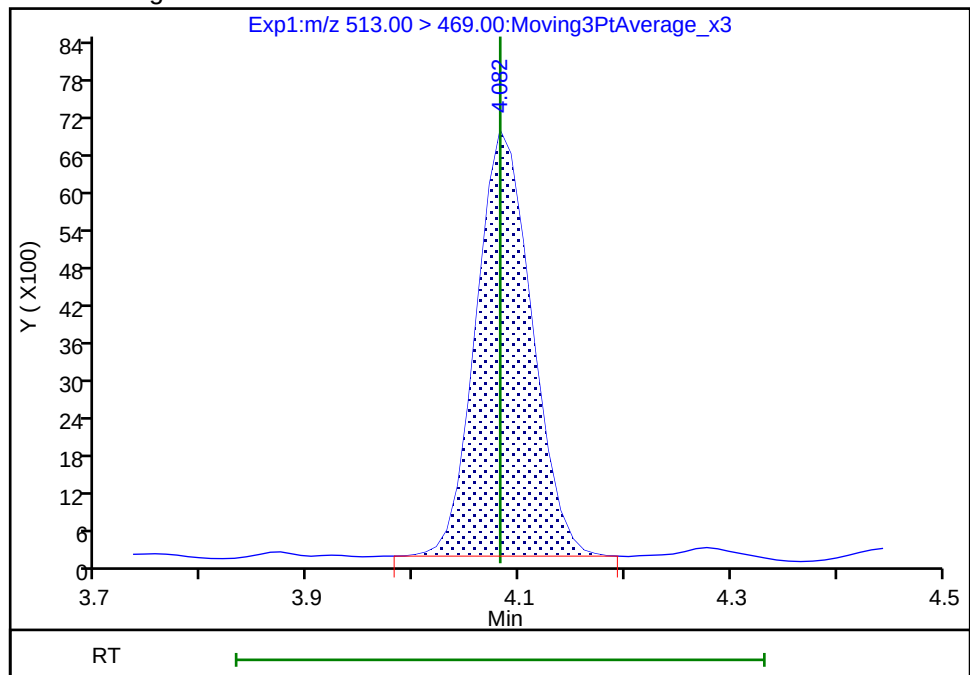
RT: 4.08
Area: 24611
Amount: 0.055924
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 24845
Amount: 0.056456
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:50:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

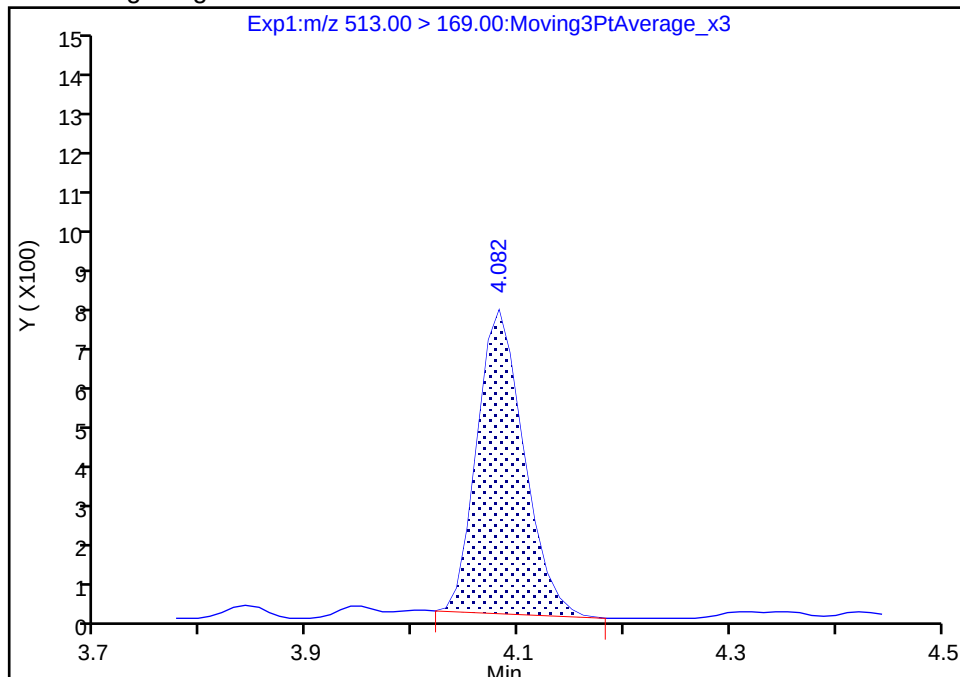
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d
Injection Date: 24-Sep-2020 11:56:57 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

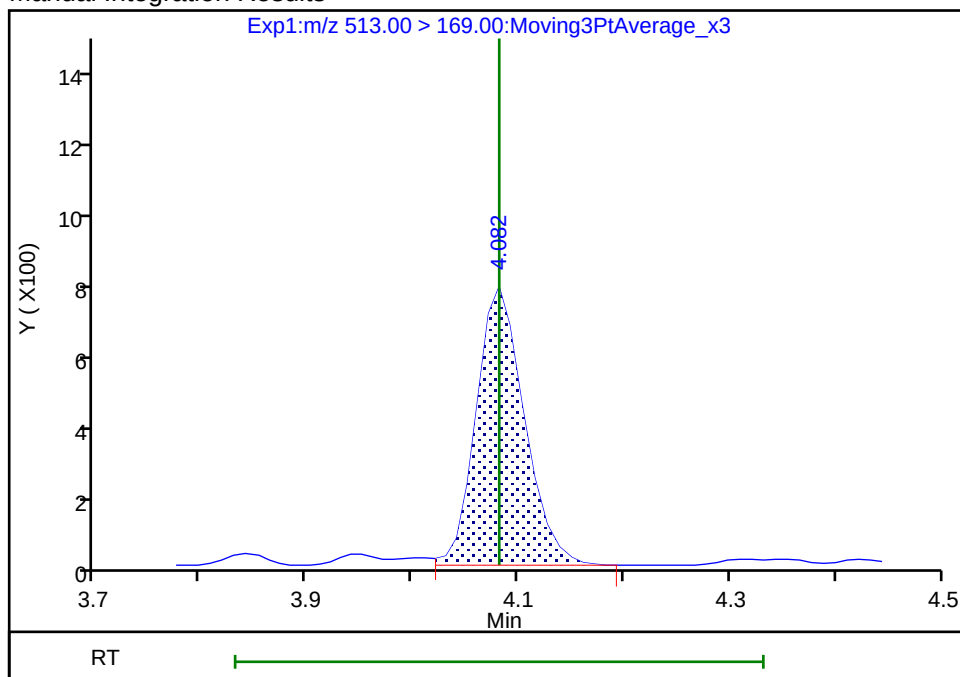
RT: 4.08
Area: 2294
Amount: 0.055924
Amount Units: ng/ml

Processing Integration Results



RT: 4.08
Area: 2381
Amount: 0.056456
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:50:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

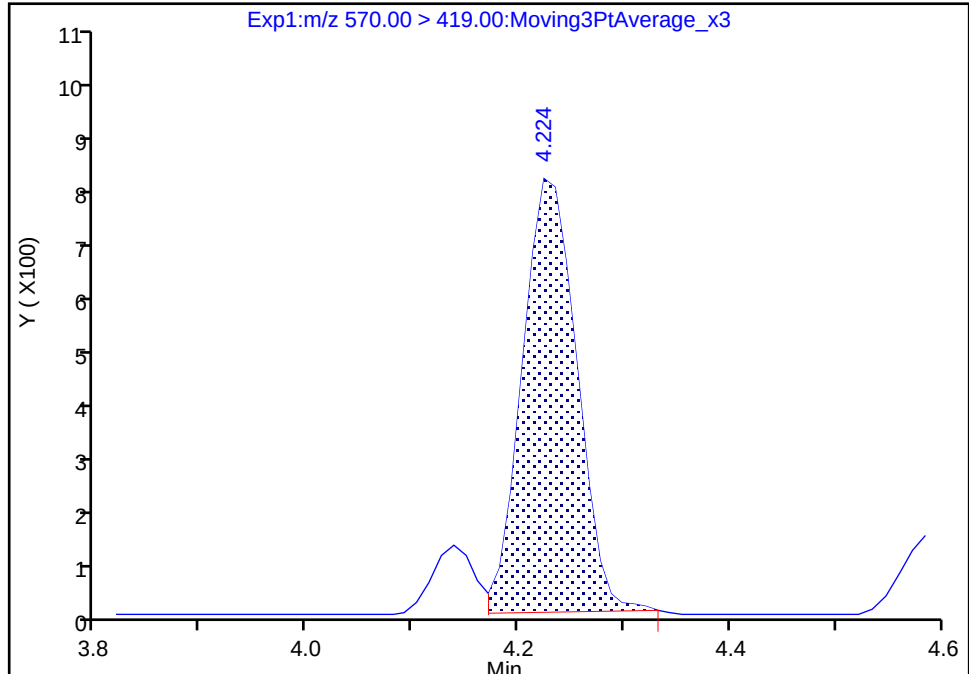
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d
Injection Date: 24-Sep-2020 11:56:57 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

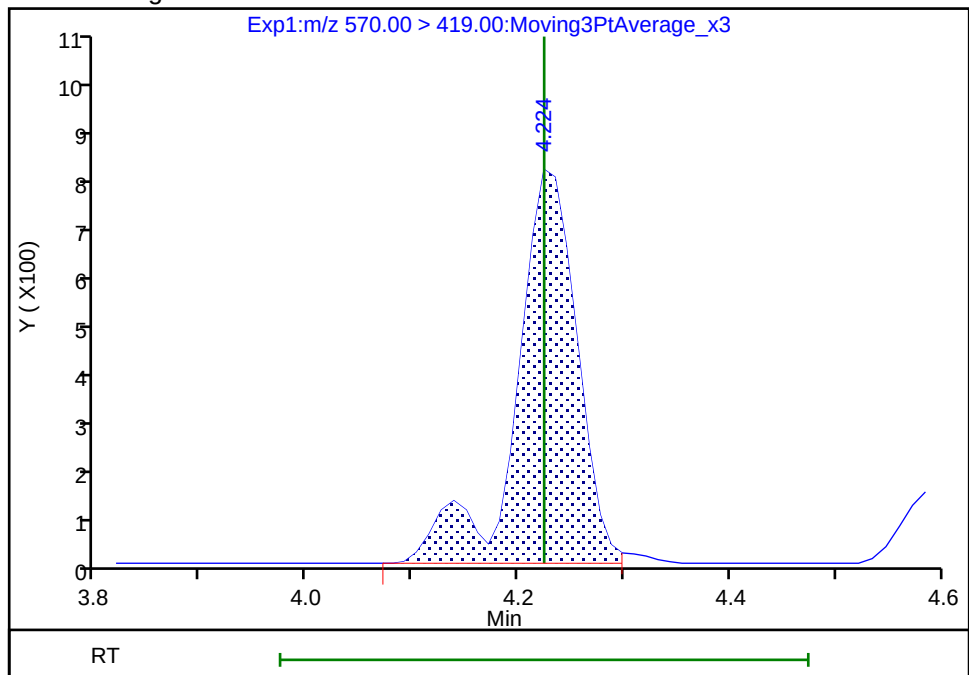
RT: 4.22
Area: 2710
Amount: 0.114316
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 3054
Amount: 0.128827
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 15:41:12
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 675 of 897

Eurofins TestAmerica, Burlington

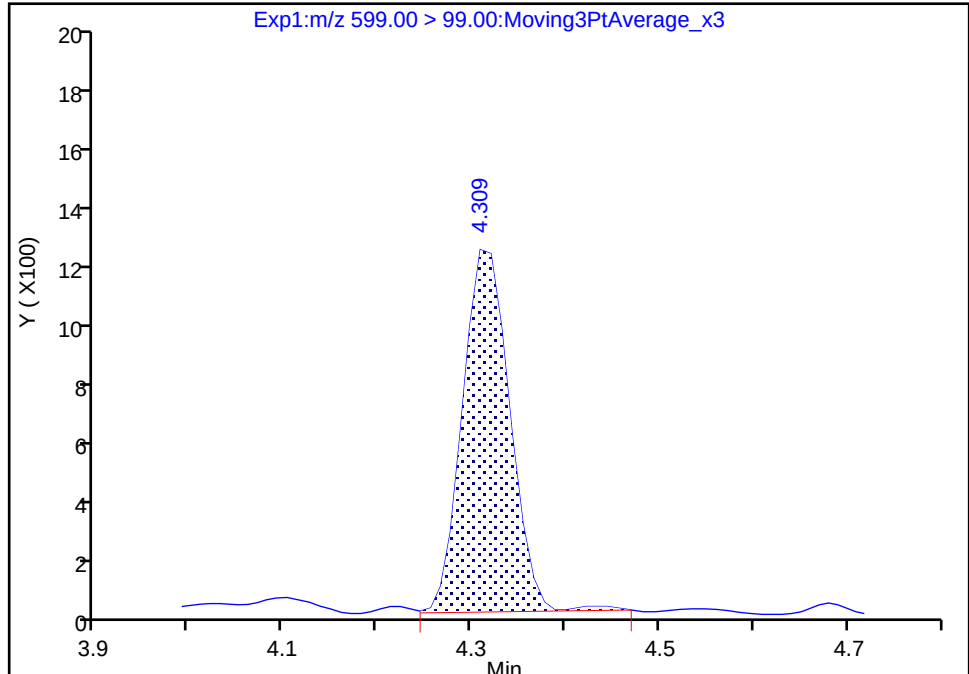
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d
Injection Date: 24-Sep-2020 11:56:57 Instrument ID: LC812
Lims ID: CCVL
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

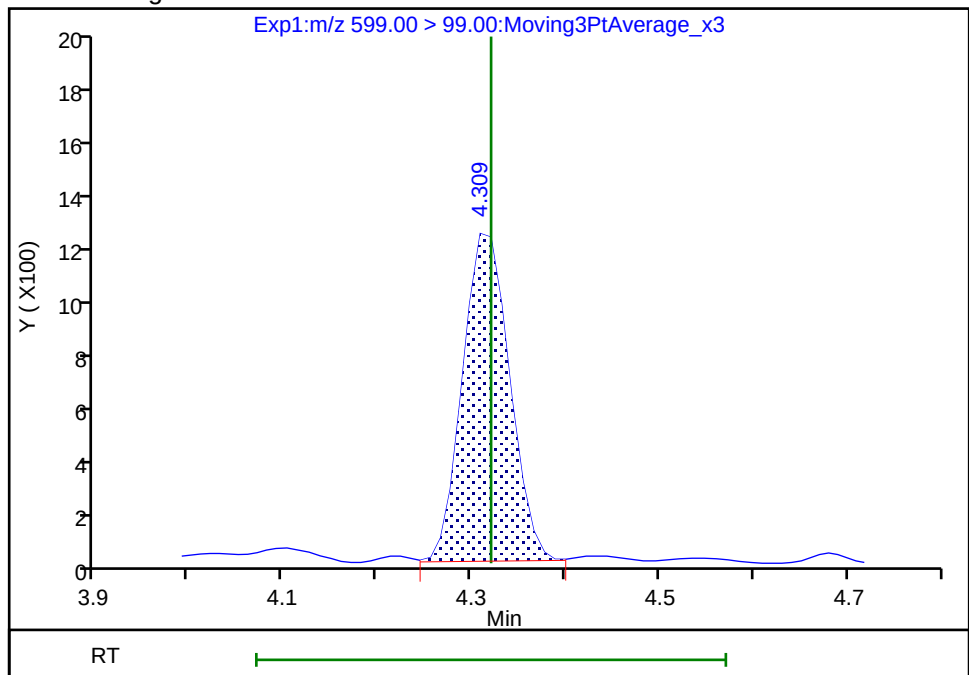
RT: 4.31
Area: 4353
Amount: 0.042828
Amount Units: ng/ml

Processing Integration Results



RT: 4.31
Area: 4318
Amount: 0.042828
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:49:15
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 676 of 897

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

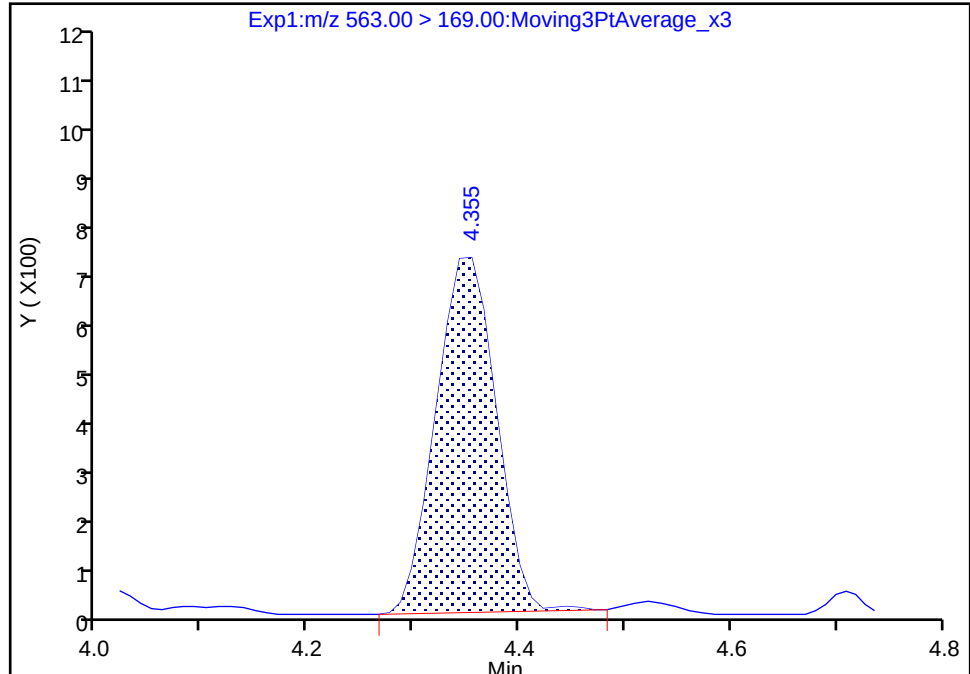
EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

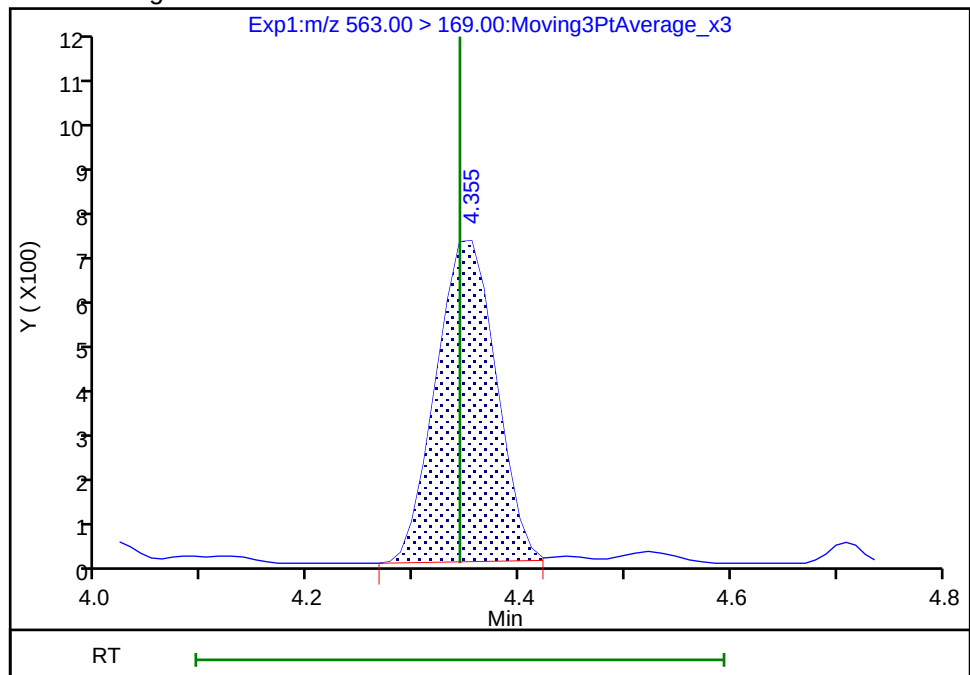
RT: 4.35
Area: 2675
Amount: 0.065136
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 2662
Amount: 0.065136
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:49:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

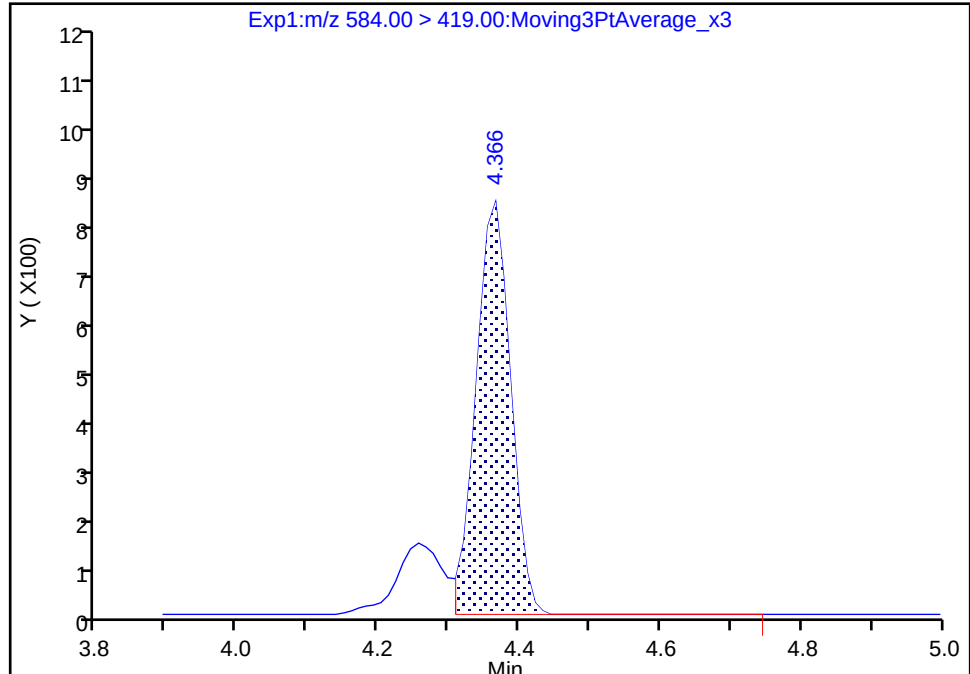
Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

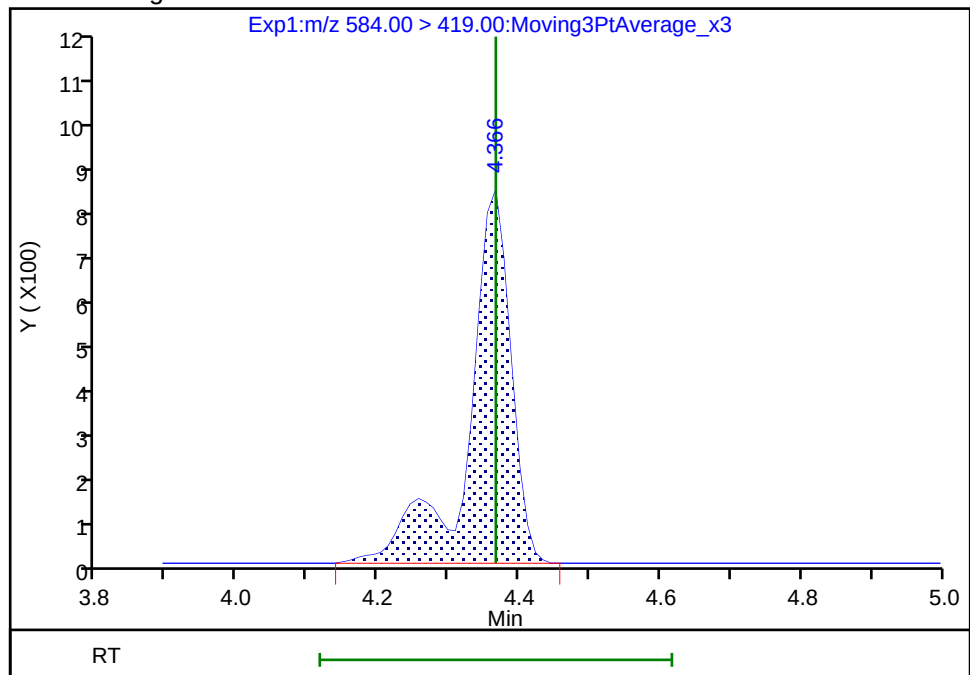
RT: 4.37
Area: 2861
Amount: 0.114880
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 3529
Amount: 0.141703
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 15:41:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

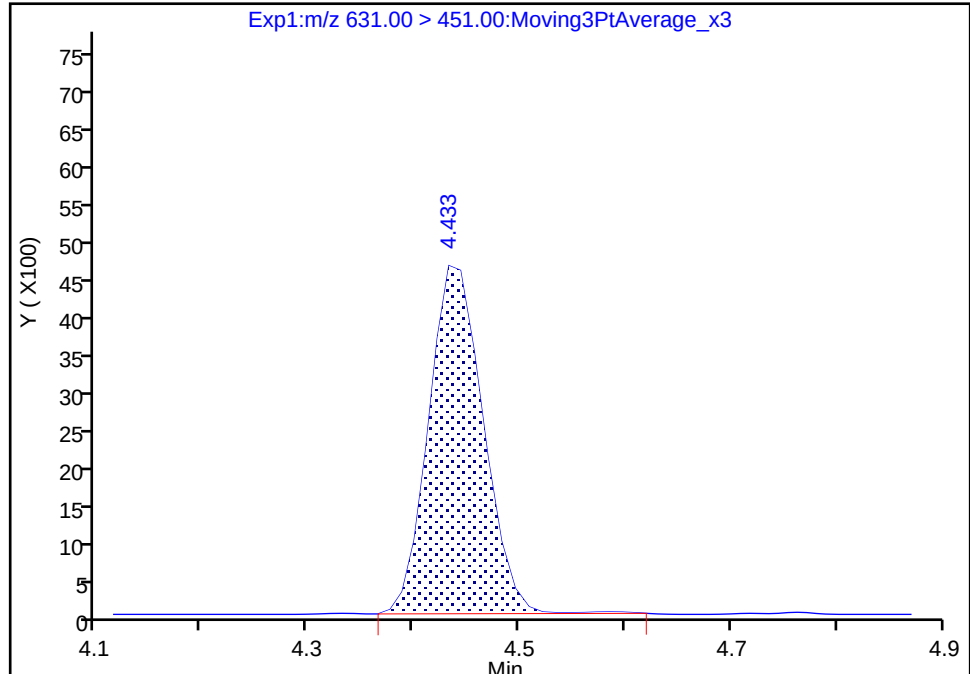
Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

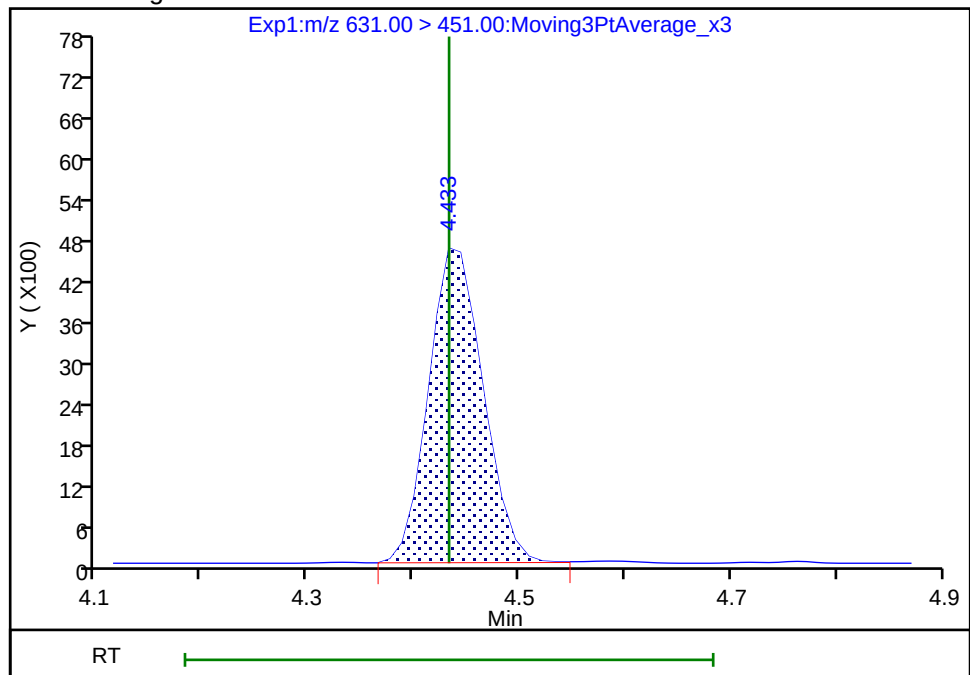
RT: 4.43
Area: 16652
Amount: 0.049126
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 16598
Amount: 0.048966
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:49:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A05.d

Injection Date: 24-Sep-2020 11:56:57

Instrument ID: LC812

Lims ID: CCVL

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 5

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

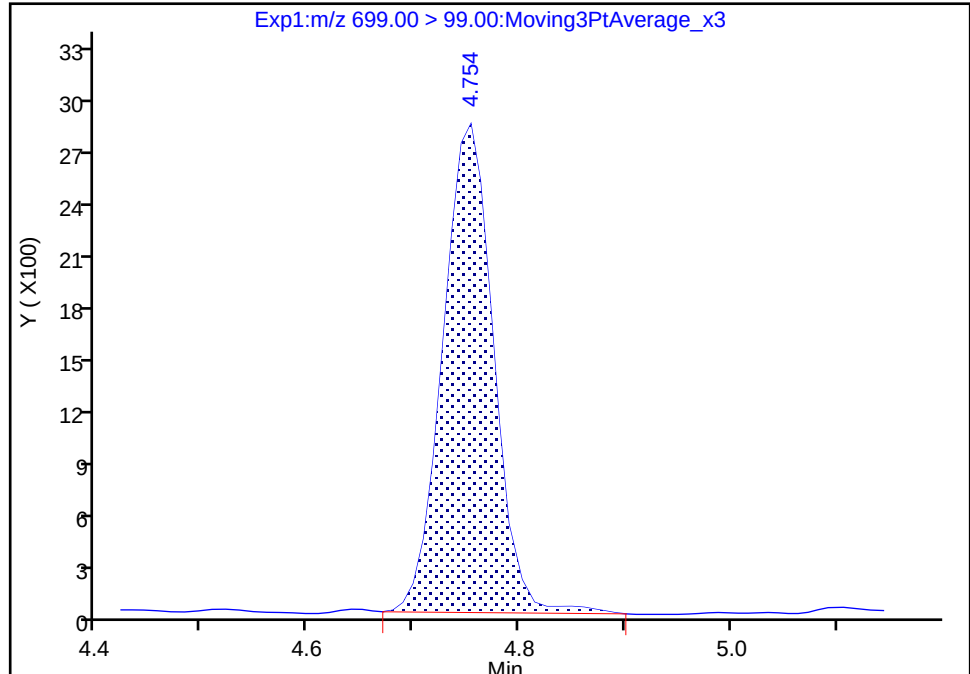
Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

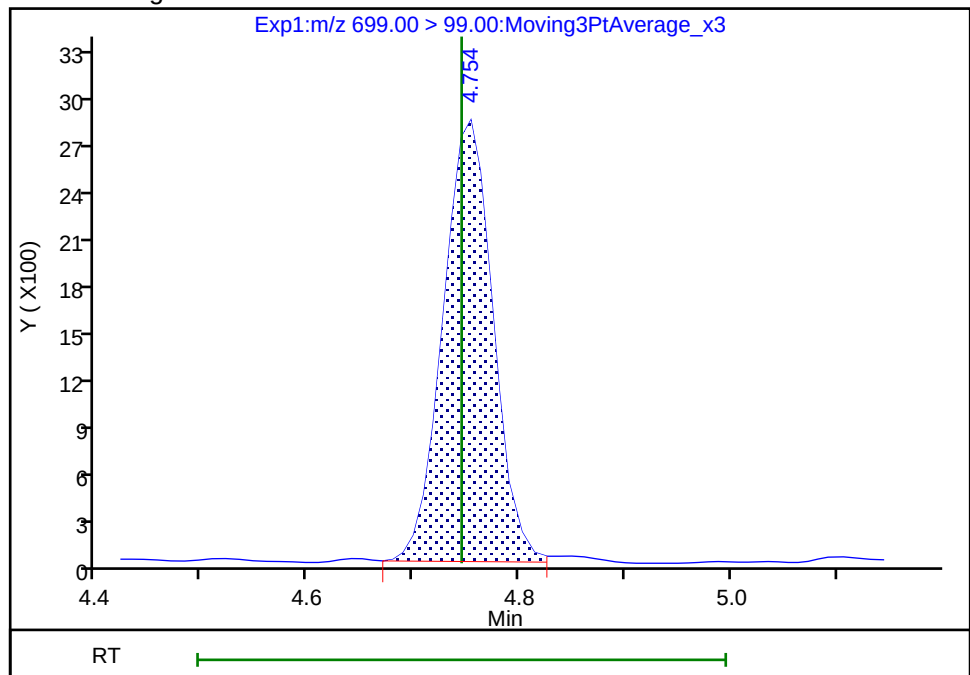
RT: 4.75
Area: 9410
Amount: 0.054600
Amount Units: ng/ml

Processing Integration Results



RT: 4.75
Area: 9289
Amount: 0.054600
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:49:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: CCVIS 200-159162/6 Calibration Date: 09/24/2020 12:05

Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11

Lab File ID: PA200924A06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9347	0.8595		0.920	1.00	-8.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	1.039		0.984	1.00	-1.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	0.9737		0.864	0.884	-2.3	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.574		0.910	0.934	-2.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	0.9789		0.972	1.00	-2.8	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.130		0.895	0.938	-4.6	50.0
HFPO-DA	AveID	2.128	1.860		0.874	1.00	-12.6	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.023		0.843	0.910	-7.4	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.9783		0.976	1.00	-2.4	40.0
DONA	AveID	3.081	2.915		0.891	0.942	-5.4	50.0
6:2 FTS	AveID	0.7981	0.7330		0.871	0.948	-8.2	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.132		0.930	0.952	-2.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	0.9628		0.933	1.00	-6.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.039		0.888	0.928	-4.4	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	0.9360		0.919	1.00	-8.1	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.8398		0.818	0.932	-12.2	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8199		0.917	0.960	-4.5	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.8919		0.901	1.00	-9.9	40.0
8:2 FTS	AveID	0.3958	0.3818		0.924	0.958	-3.5	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9348	0.9029		0.966	1.00	-3.4	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	1.035		1.10	1.00	9.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6836		0.917	0.964	-4.9	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	0.9685		0.982	1.00	-1.8	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.8365		0.914	1.00	-8.6	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7587		0.866	0.942	-8.0	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	1.034		1.06	1.00	6.0	40.0
10:2 FTS	AveID	0.2199	0.2058		0.902	0.964	-6.4	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.1983		0.832	0.968	-14.0	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8743		1.06	1.00	5.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2295		1.00	1.00	0.2	40.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: CCVIS 200-159162/6 Calibration Date: 09/24/2020 12:05
 Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11
 Lab File ID: PA200924A06.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9084		1.02	1.00	2.2	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.7620		1.02	1.00	2.0	50.0
13C4 PFBA	Ave	1.433	1.463		1.28	1.25	2.1	50.0
13C5 PFPeA	Ave	1.027	1.018		1.24	1.25	-0.9	50.0
13C3 PFBS	Ave	1.251	1.181		1.10	1.16	-5.6	50.0
M2-4:2 FTS	Ave	0.0939	0.0921		1.14	1.17	-2.0	50.0
13C2 PFHxA	Ave	1.058	1.081		1.28	1.25	2.2	50.0
13C3 HFPO-DA	Ave	0.0985	0.0982		1.25	1.25	-0.3	50.0
13C4 PFHpA	Ave	0.9620	0.9588		1.25	1.25	-0.3	50.0
18O2 PFHxS	Ave	0.8974	0.9164		1.21	1.18	2.1	50.0
13C4 PFOA	Ave	0.9845	0.9664		1.23	1.25	-1.8	50.0
M2-6:2 FTS	Ave	0.1199	0.1289		1.28	1.19	7.5	50.0
13C4 PFOS	Ave	0.7341	0.7399		1.20	1.20	0.8	50.0
13C5 PFNA	Ave	0.8296	0.8447		1.27	1.25	1.8	50.0
13C2 PFDA	Ave	0.7956	0.7714		1.21	1.25	-3.0	50.0
M2-8:2 FTS	Ave	0.1413	0.1405		1.19	1.20	-0.6	50.0
13C8 FOSA	Ave	1.282	1.250		1.22	1.25	-2.5	50.0
d3-NMeFOSAA	Ave	0.0453	0.0396		1.09	1.25	-12.7	50.0
13C2 PFUnA	Ave	0.6006	0.5507		1.15	1.25	-8.3	50.0
d5-NEtFOSAA	Ave	0.0487	0.0510		1.31	1.25	4.8	50.0
13C2 PFDoA	Ave	0.6348	0.5440		1.07	1.25	-14.3	50.0
13C2 PFTeDA	Ave	0.4522	0.4254		1.18	1.25	-5.9	50.0
13C2 PFHxDA	Ave	0.5124	0.4497		1.10	1.25	-12.2	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d
 Lims ID: CCVIS
 Client ID:
 Sample Type: CCVIS
 Inject. Date: 24-Sep-2020 12:05:14 ALS Bottle#: 3 Worklist Smp#: 6
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCVIS
 Misc. Info.: 200-0042934-006 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 12:36:53 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: chirgwinb

Date: 24-Sep-2020 12:53:47

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.981	1.981	0.0	0.576	1042514	1.28		102	5671	
2 Perfluorobutanoic acid										
212.90 > 169.00	1.990	1.990	0.0	1.005	716859	0.9195		92.0	99.7	
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.676	725724	1.24		99.1	2997	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.326	2.326	0.0	1.000	603508	0.9843		98.4	37.1	
D 47 13C3 PFBS										
301.90 > 80.00	2.339	2.339	0.0	0.680	782855	1.10		94.4	222775	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.339	2.339	0.0	1.000	579655	0.8639	Target=2.07	97.7	1702	
298.90 > 99.00	2.339	2.339	0.0	1.000	289694		2.00(1.04-3.11)		412	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.653	2.653	0.0	1.000	77190	0.9099		97.4	1037	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.653	2.653	0.0	0.771	61288	1.14		98.0	135	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.691	2.691	0.0	0.782	770412	1.28		102	3937	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.691	2.691	0.0	1.000	603334	0.9722	Target=12.44	97.2	240	
313.00 > 119.00	2.691	2.691	0.0	1.000	52146		11.57(6.22-18.66)		161	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.703	2.703	0.0	0.880	553756	0.8952	Target=3.64	95.4	2494	
349.00 > 99.00	2.703	2.703	0.0	0.880	157319		3.52(1.82-5.46)		689	
D 64 13C3 HFPO-DA										M
332.10 > 287.00	2.810	2.810	0.0	0.817	69996	1.25		99.7	764	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.810	2.810	0.0	1.000	104140	0.8740		87.4	27.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.893	617815	1.21		102	1630	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.073	3.073	0.0	1.000	486393	0.8429	Target=4.60	92.6	1186	
399.00 > 99.00	3.073	3.073	0.0	1.000	109976		4.42(2.30-6.91)		293	
D 9 13C4 PFHpA										
367.00 > 322.00	3.073	3.073	0.0	0.893	683341	1.25		99.7	3811	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.004	534816	0.9763	Target=3.34	97.6	294	
363.00 > 169.00	3.073	3.084	-0.011	1.000	154836		3.45(1.67-5.01)		649	
77 DONA										
377.00 > 251.00	3.115	3.115	0.0	0.827	1158545	0.8913	Target=2.44	94.6	2772	
377.00 > 85.00	3.115	3.115	0.0	0.827	489418		2.37(1.22-3.67)		1181	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.433	3.433	0.0	0.912	454463	0.9299	Target=7.08	97.7	2113	
449.00 > 99.00	3.433	3.433	0.0	0.912	66007		6.89(3.54-10.63)		593	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.433	3.433	0.0	0.997	51061	0.8707		91.8	999	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.441	0.0	1.000	87262	1.28		107	765	
D 14 13C4 PFOA										
417.00 > 372.00	3.441	3.441	0.0	1.000	688735	1.23		98.2	2905	
* 62 13C2 PFOA										
415.00 > 370.00	3.441	3.441	0.0		712683	1.25			2921	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.450	3.450	0.0	1.003	530478	0.9325	Target=2.29	93.3	236	
413.00 > 169.00	3.441	3.450	-0.009	1.000	242877		2.18(1.14-3.43)		2014	
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.094	504108	1.20		101	2363	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	406885	0.8876	Target=7.10	95.6	1204	M
499.00 > 99.00	3.765	3.765	0.0	1.000	56389		7.22(3.55-10.64)		341	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.786	0.0	1.100	601982	1.27		102	3319	
20 Perfluorononanoic acid										
463.00 > 419.00	3.786	3.786	0.0	1.000	450780	0.9192	Target=5.83	91.9	177	
463.00 > 169.00	3.786	3.786	0.0	1.000	76889		5.86(2.91-8.74)		1473	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	330164	0.8184		87.8	2673	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.052	0.0	1.076	332033	0.9165	Target=3.38	95.5	3157	
549.00 > 99.00	4.052	4.052	0.0	1.076	94100		3.53(1.69-5.08)		691	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.082	4.082	0.0	1.000	392253	0.9014	Target=6.81	90.1	785	
513.00 > 169.00	4.082	4.082	0.0	1.000	60379		6.50(3.41-10.22)		1172	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.082	0.0	1.186	549760	1.21		97.0	3574	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.092	0.0	1.000	29294	0.9240		96.5	920	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.189	95903	1.19		99.4	1267	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.203	890950	1.22		97.5	2718	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.139	0.0	1.000	643552	0.9658		96.6	1411	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.224	0.0	1.228	28188	1.09		87.3	147	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.224	4.224	0.0	1.000	23330	1.10		110	202	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.321	0.0	1.147	278007	0.9171	Target=3.31	95.1	1609	
599.00 > 99.00	4.321	4.321	0.0	1.147	83759		3.32(1.66-4.97)		747	
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.262	392455	1.15		91.7	3802	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.343	0.0	1.000	304067	0.9819	Target=6.57	98.2	440	
563.00 > 169.00	4.343	4.343	0.0	1.000	49024		6.20(3.28-9.85)		1539	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.266	36363	1.31		105	663	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.366	4.366	0.0	1.003	24335	0.9137		91.4	750	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.177	301501	0.8664		92.0	3098	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.329	387676	1.07		85.7	3384	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	320653	1.06	Target=5.16	106	467	
613.00 > 169.00	4.573	4.573	0.0	1.000	63669		5.04(2.58-7.75)		1338	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.597	4.597	0.0	1.124	15887	0.9019		93.6	618	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.745	4.745	0.0	1.260	80967	0.8324	Target=0.45	86.0	288	
699.00 > 99.00	4.745	4.745	0.0	1.260	194404		0.42(0.22-0.67)		2229	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.790	4.790	0.0	1.047	271169	1.06	Target=3.30	106	171	
663.00 > 169.00	4.781	4.790	-0.009	1.045	83520		3.25(1.65-4.95)		2113	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.978	0.0	1.447	303200	1.18		94.1	5555	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.978	4.978	0.0	1.000	55669	1.00	Target=1.06	100	1439	M
713.00 > 219.00	4.978	4.978	0.0	1.000	55897		1.00(0.53-1.59)		1477	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.350	0.0	1.555	320525	1.10		87.8	3266	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.350	0.0	1.000	232939	1.02	Target=3.06	102	207	
813.00 > 169.00	5.350	5.350	0.0	1.000	75172		3.10(1.53-4.58)		1920	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.738	5.738	0.0	1.072	195404	1.02	Target=2.82	102	219	
913.00 > 169.00	5.738	5.738	0.0	1.072	70787		2.76(1.41-4.24)		1099	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00011

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d

Injection Date: 24-Sep-2020 12:05:14

Instrument ID: LC812

Lims ID: CCVIS

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

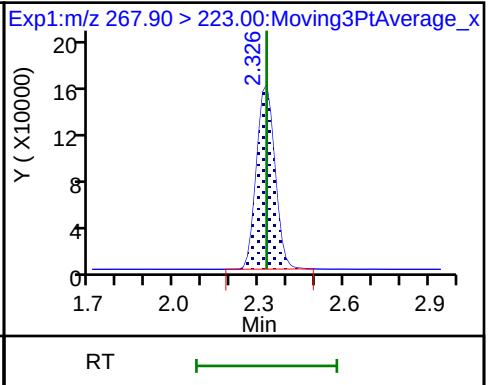
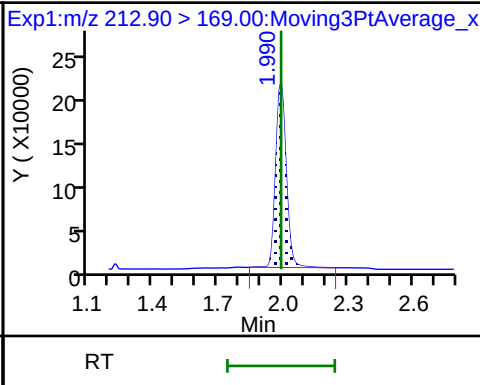
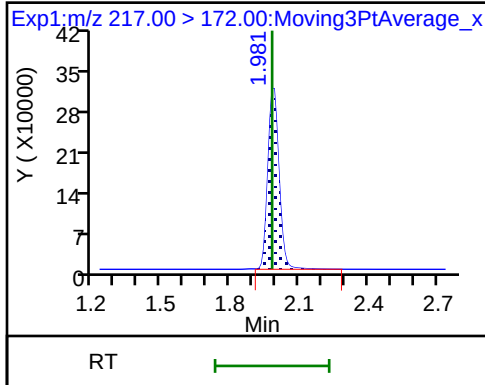
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

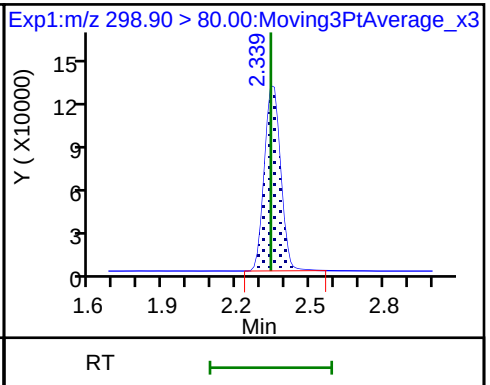
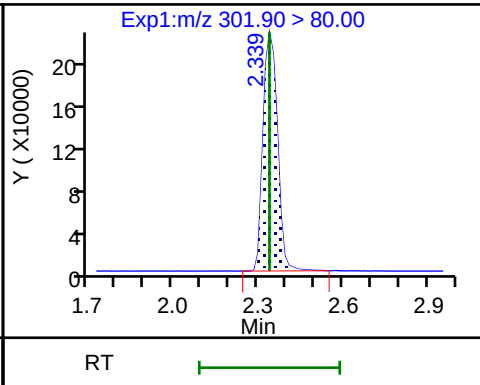
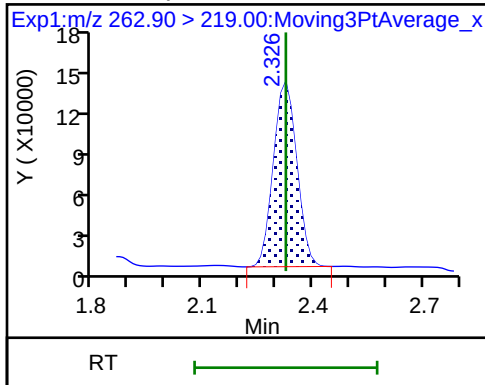
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

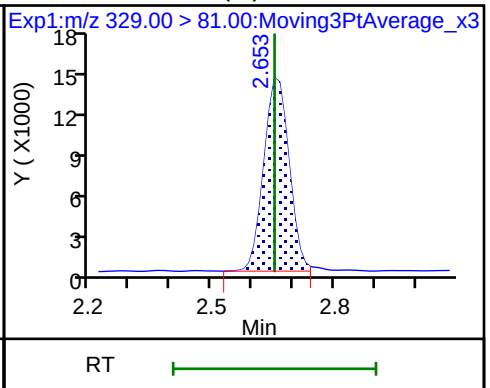
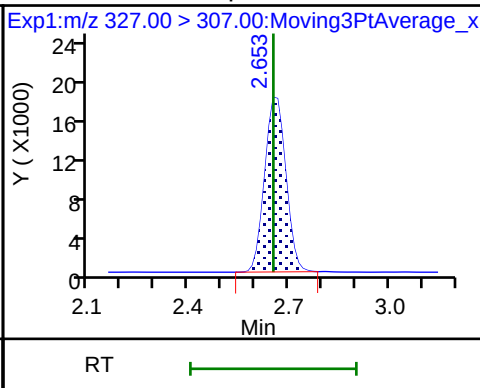
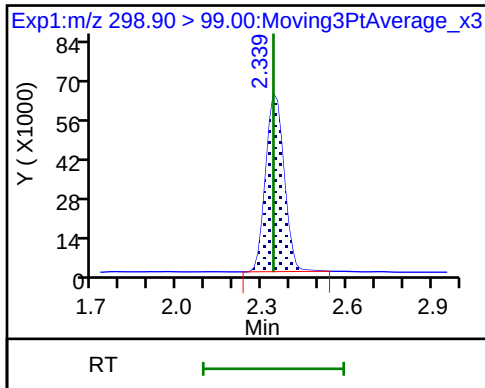
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

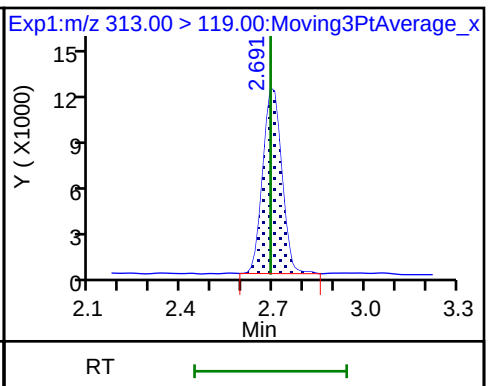
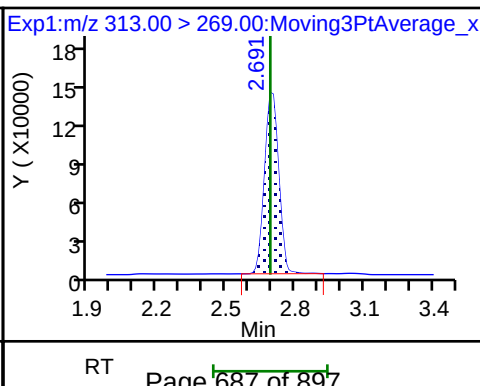
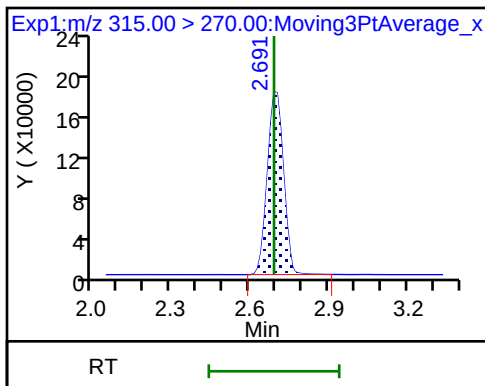
D 60 M2-4:2 FTS (M)

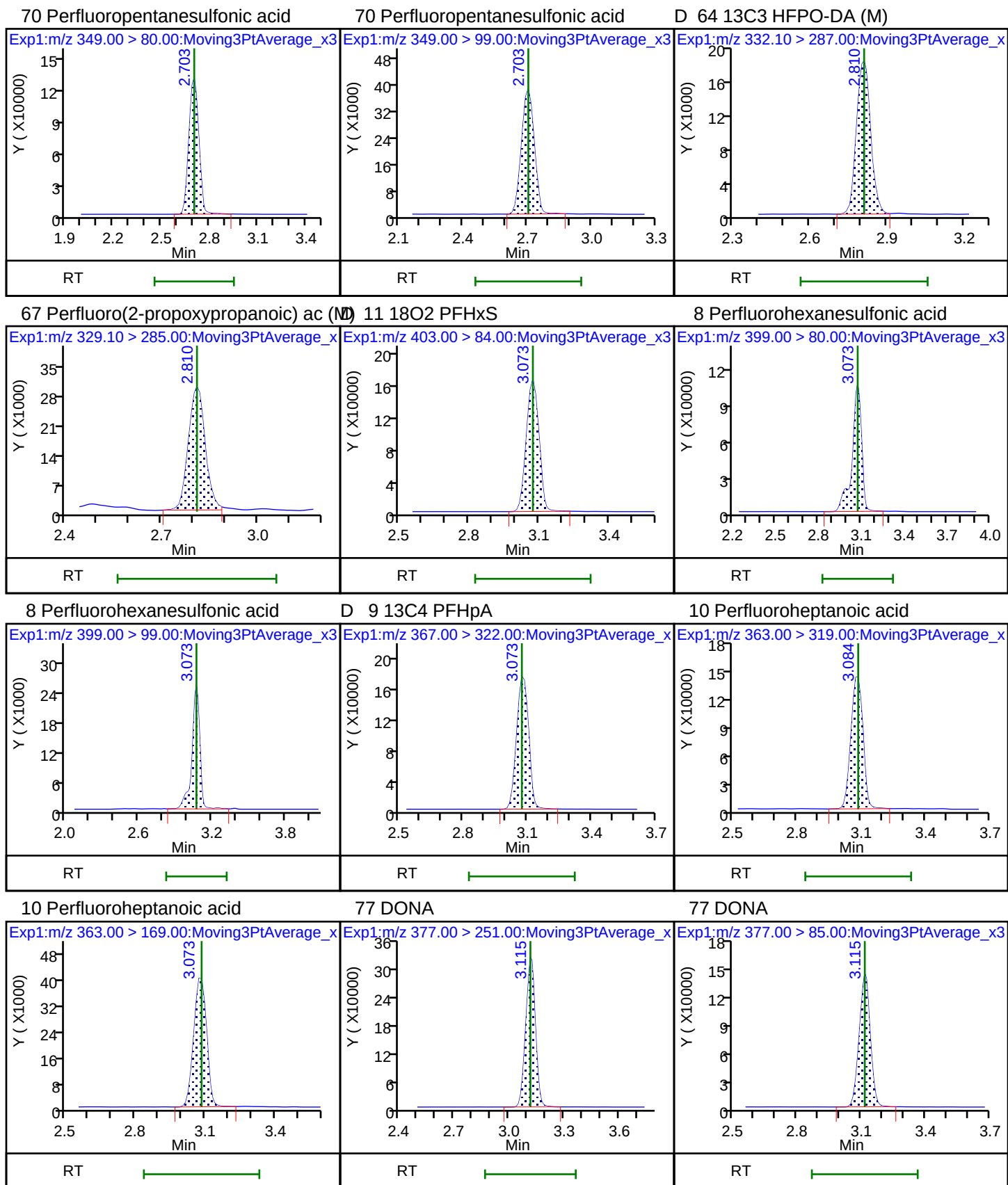


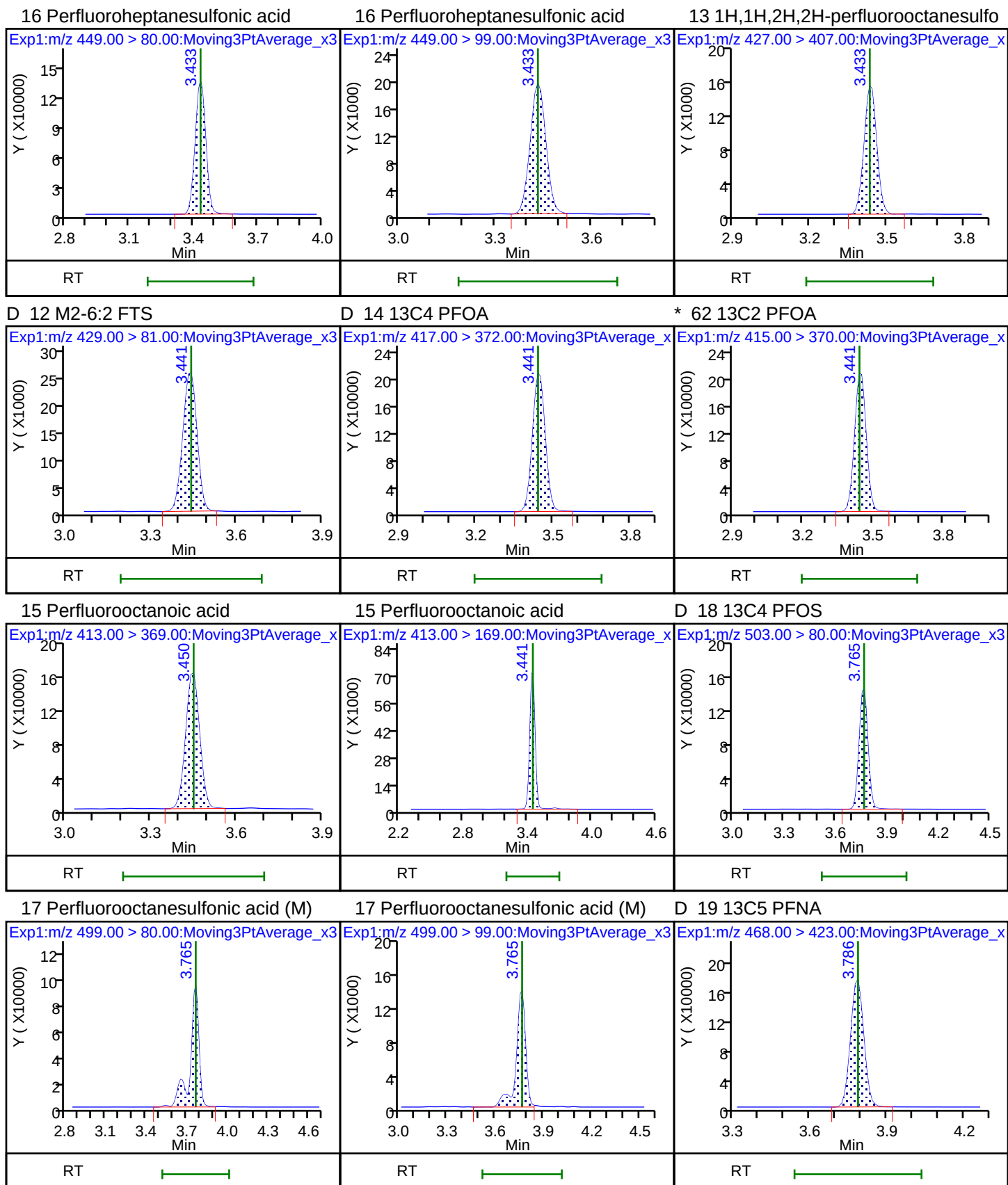
D 7 13C2 PFHxA

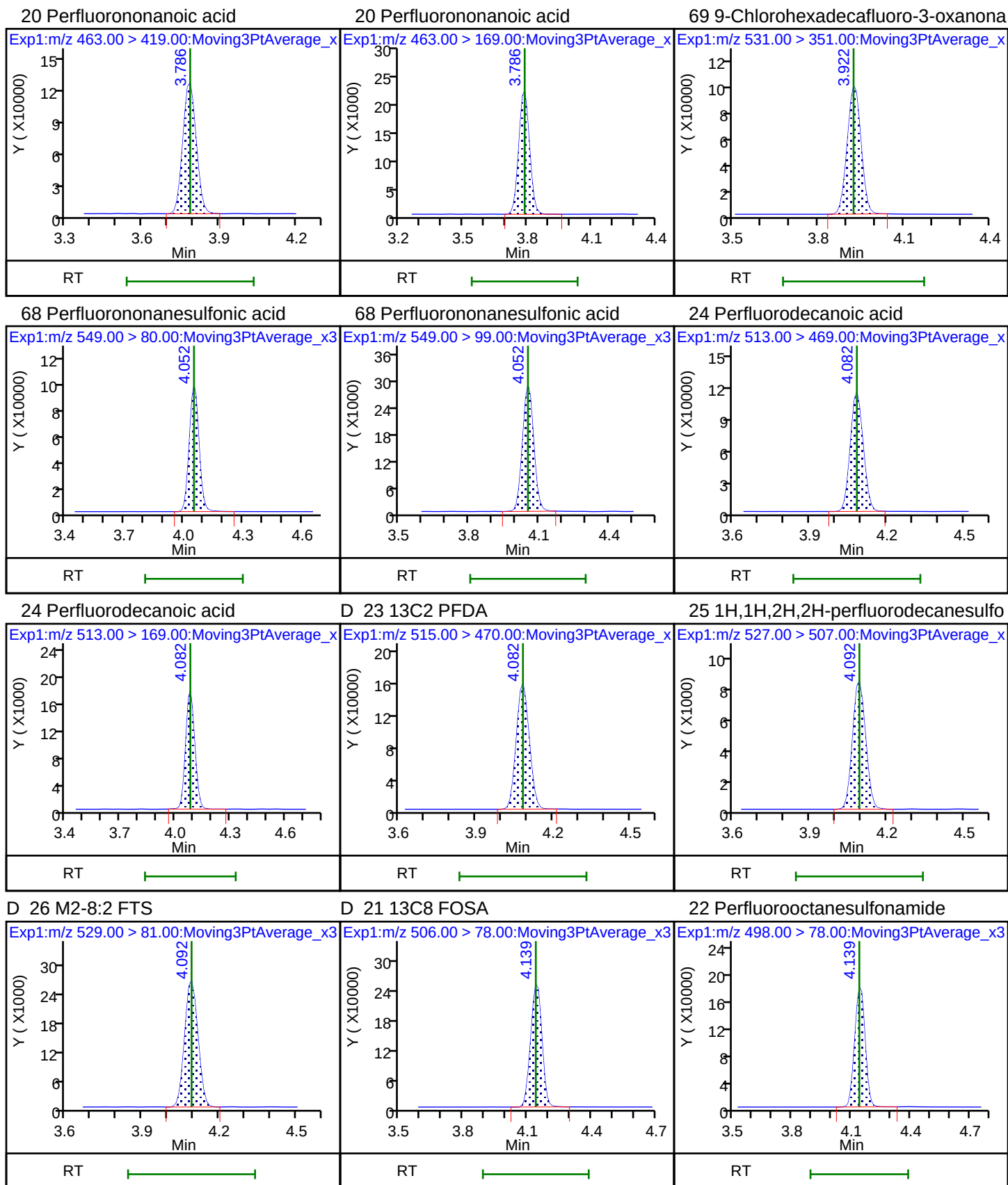
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid







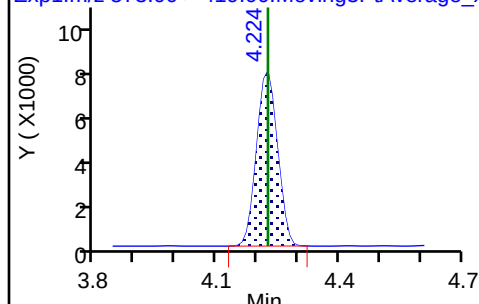


D 27 d3-NMeFOSAA

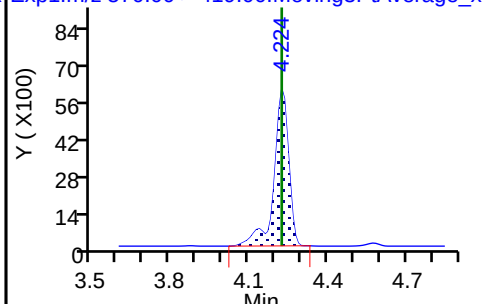
28 N-methylperfluorooctanesulfonami (M₂)

29 Perfluorodecanesulfonic acid

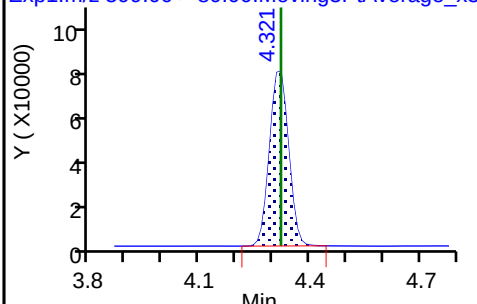
Exp1:m/z 573.00 > 419.00:Moving3PtAverage_x



Exp1:m/z 570.00 > 419.00:Moving3PtAverage_x



Exp1:m/z 599.00 > 80.00:Moving3PtAverage_x3

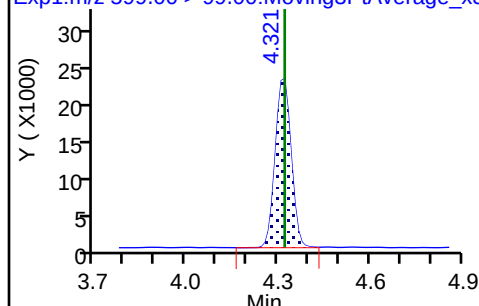


29 Perfluorodecanesulfonic acid

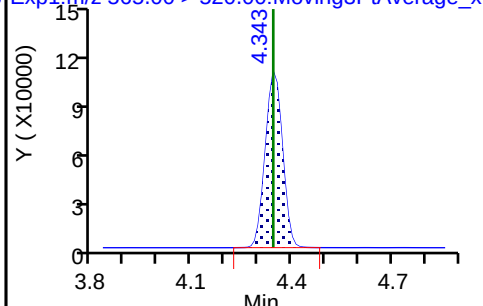
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid

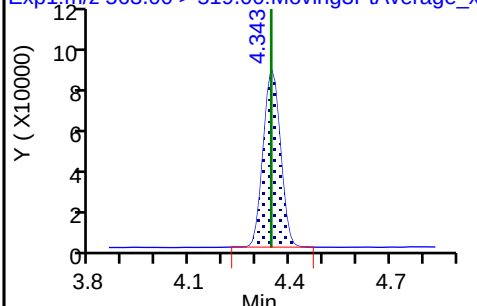
Exp1:m/z 599.00 > 99.00:Moving3PtAverage_x3



Exp1:m/z 565.00 > 520.00:Moving3PtAverage_x



Exp1:m/z 563.00 > 519.00:Moving3PtAverage_x

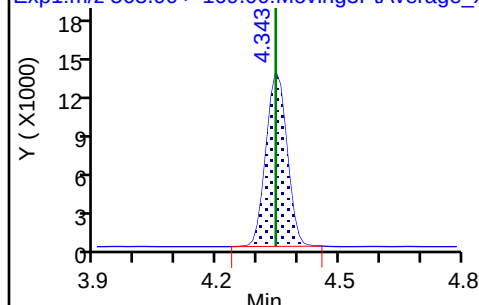


31 Perfluoroundecanoic acid

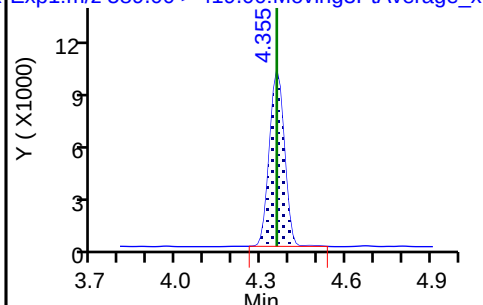
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid (M₂)

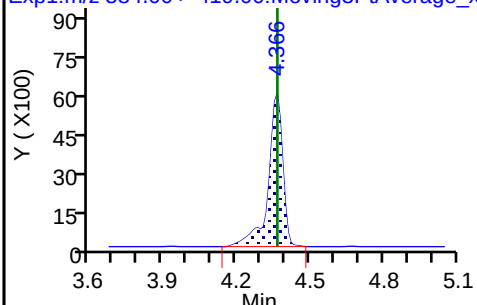
Exp1:m/z 563.00 > 169.00:Moving3PtAverage_x



Exp1:m/z 589.00 > 419.00:Moving3PtAverage_x



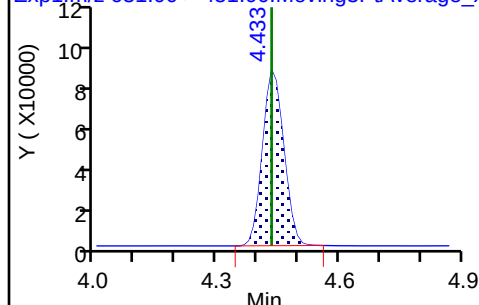
Exp1:m/z 584.00 > 419.00:Moving3PtAverage_x

66 11-Chloroeicosafuoro-3-oxaundec (M₂)

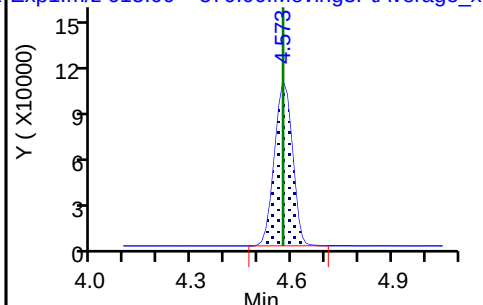
36 13C2 PFDaA

37 Perfluorododecanoic acid

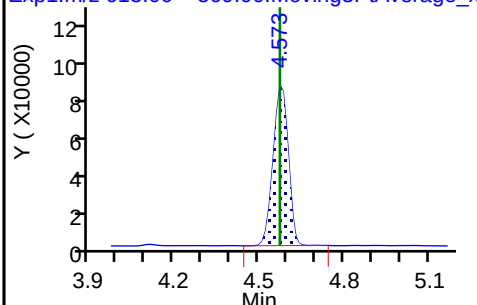
Exp1:m/z 631.00 > 451.00:Moving3PtAverage_x

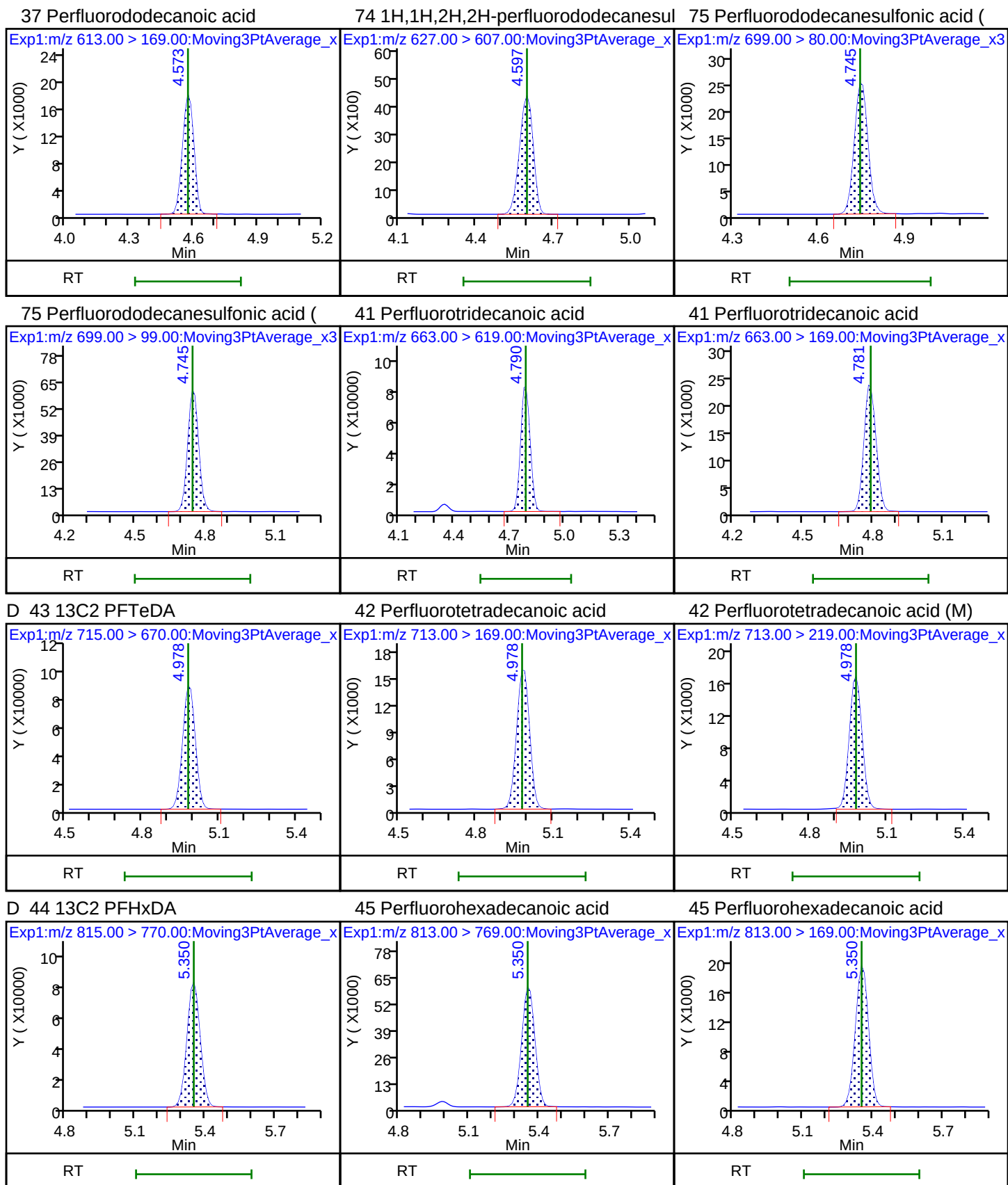


Exp1:m/z 615.00 > 570.00:Moving3PtAverage_x



Exp1:m/z 613.00 > 569.00:Moving3PtAverage_x

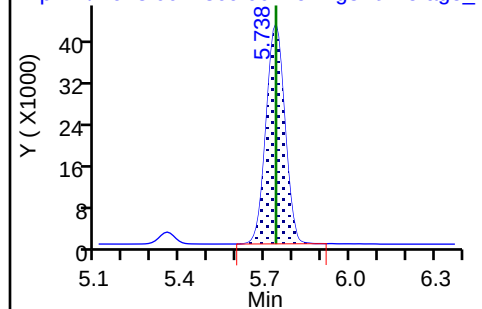




46 Perfluorooctadecanoic acid

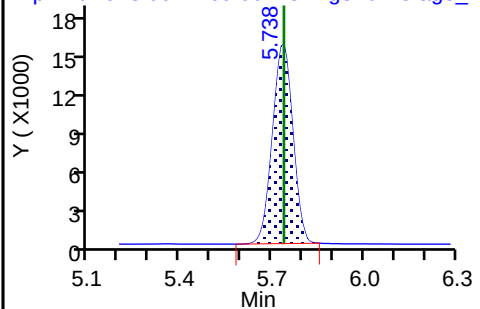
46 Perfluorooctadecanoic acid

Exp1:m/z 913.00 > 869.00:Moving3PtAverage_x



RT

Exp1:m/z 913.00 > 169.00:Moving3PtAverage_x



RT

Eurofins TestAmerica, Burlington

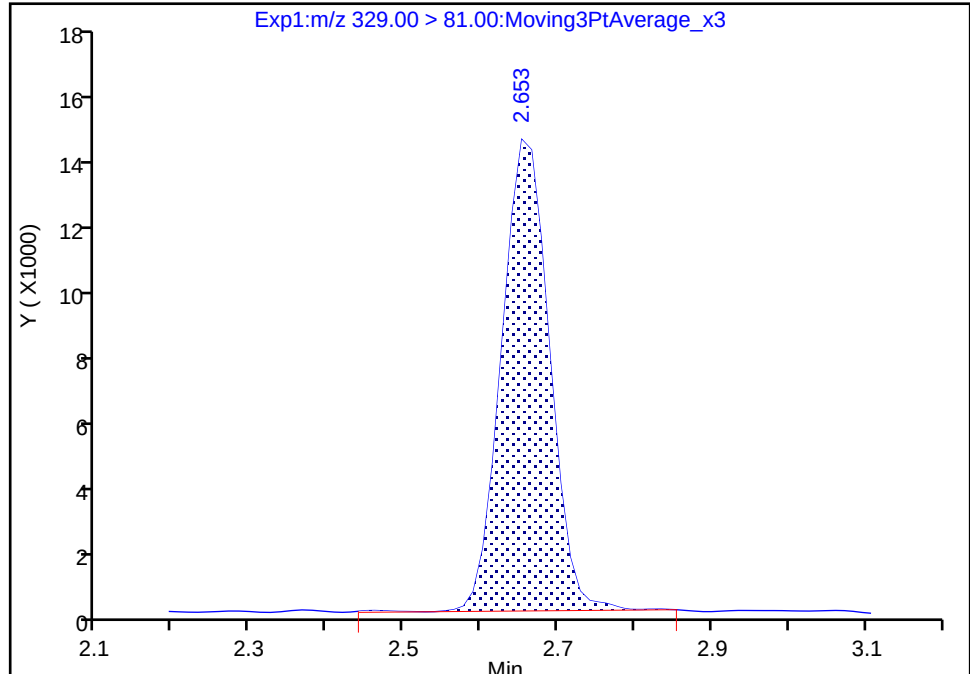
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d
Injection Date: 24-Sep-2020 12:05:14 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

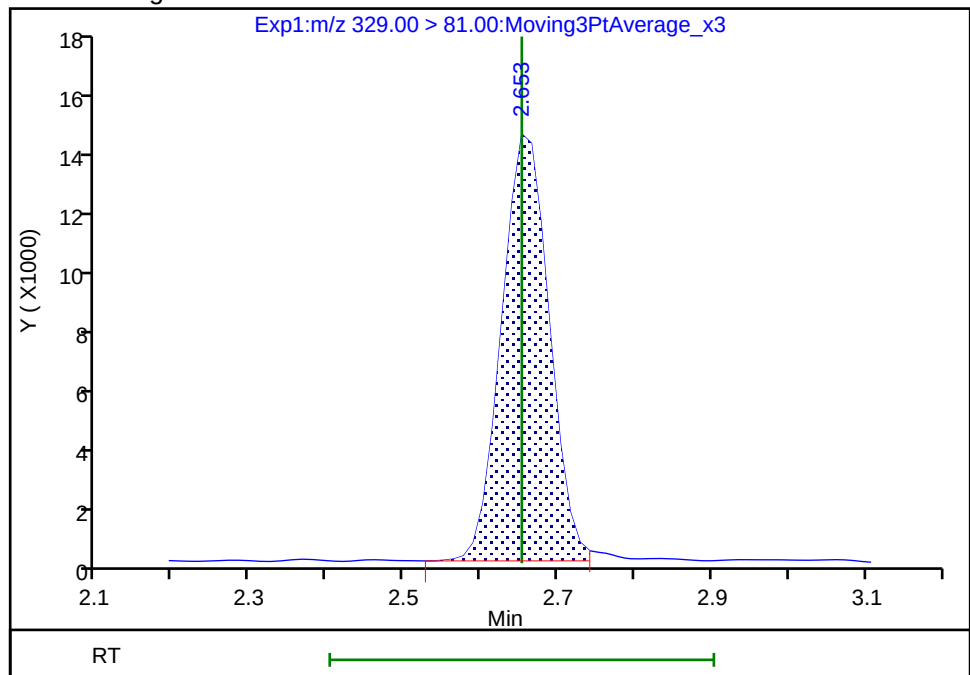
RT: 2.65
Area: 61752
Amount: 1.152888
Amount Units: ng/ml

Processing Integration Results



RT: 2.65
Area: 61288
Amount: 1.144225
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:51:24
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 694 of 897

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d

Injection Date: 24-Sep-2020 12:05:14

Instrument ID: LC812

Lims ID: CCVIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

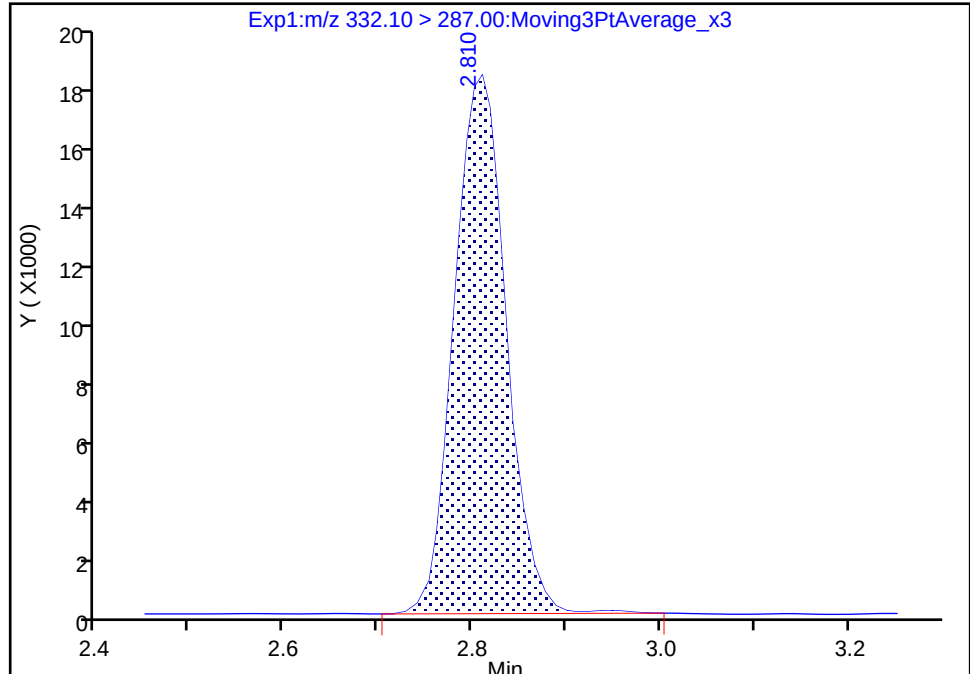
Detector: EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

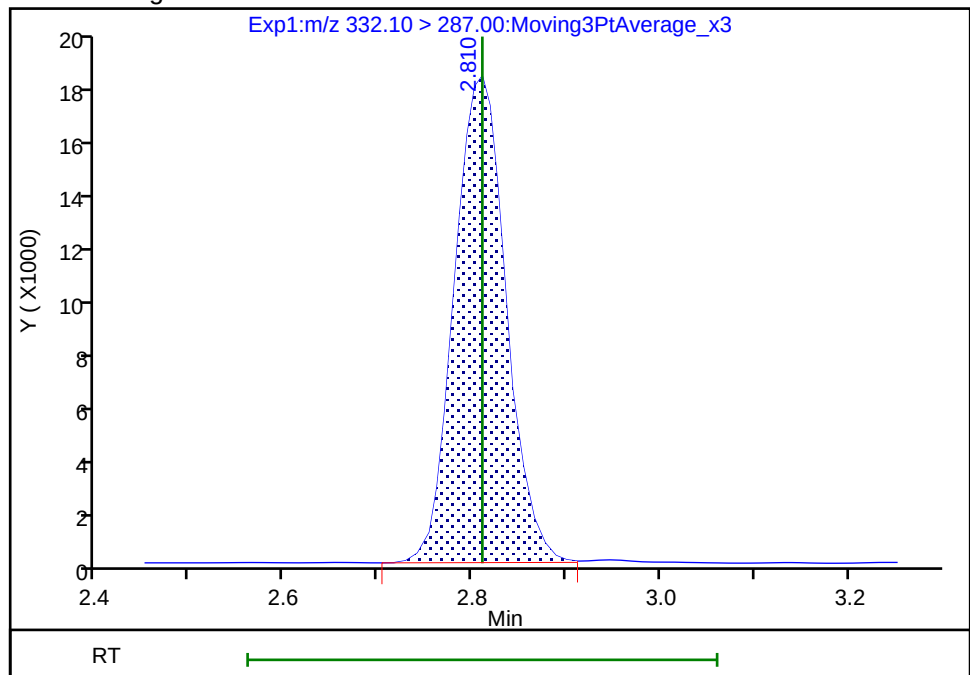
RT: 2.81
Area: 70260
Amount: 1.250472
Amount Units: ng/ml

Processing Integration Results



RT: 2.81
Area: 69996
Amount: 1.245774
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:51:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

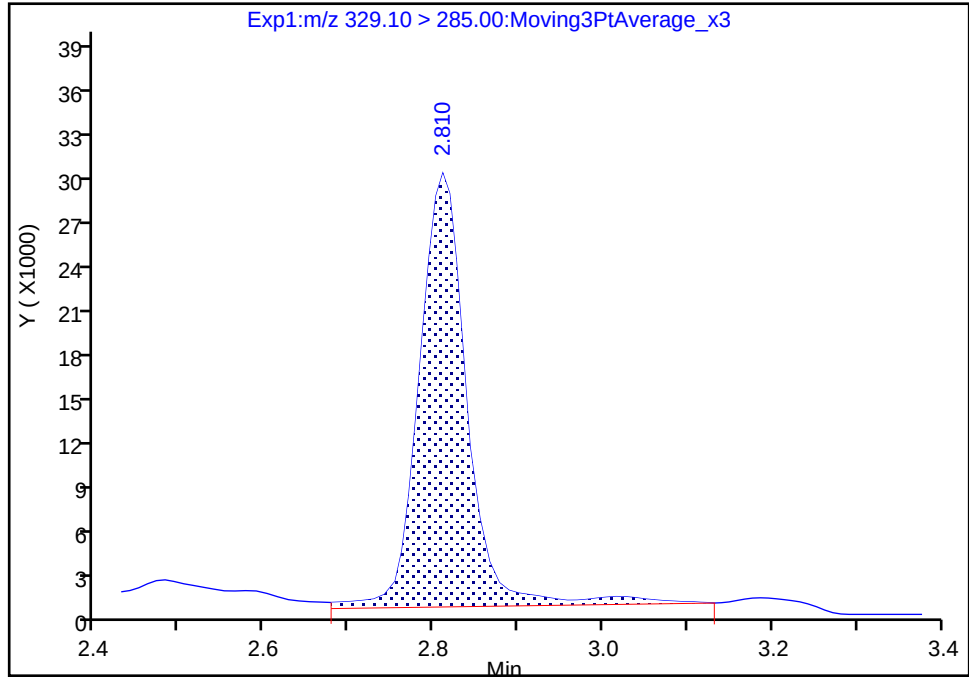
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d
Injection Date: 24-Sep-2020 12:05:14 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

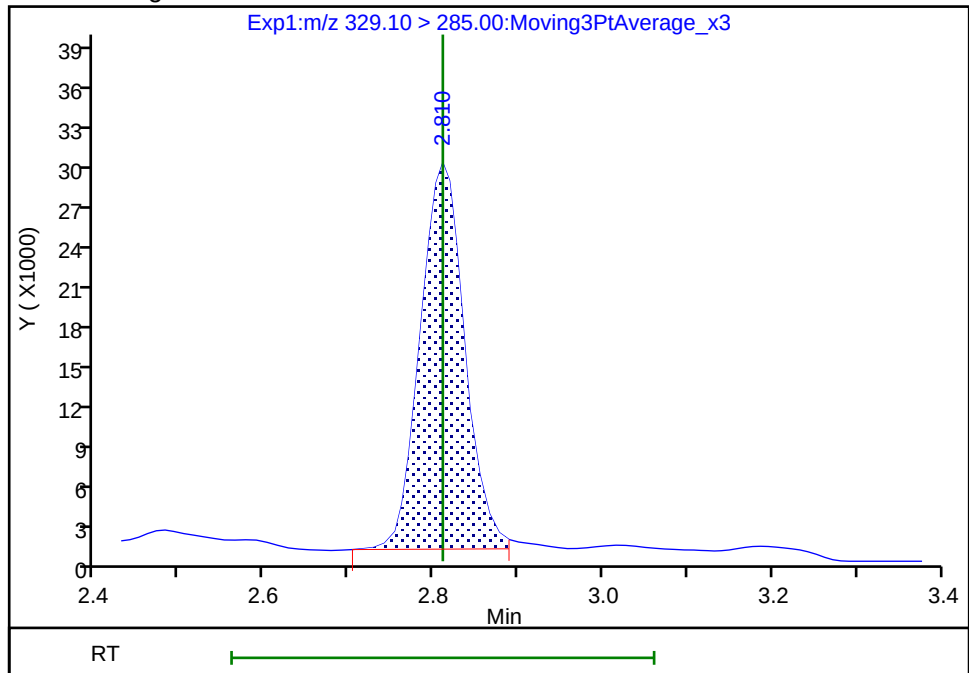
RT: 2.81
Area: 115075
Amount: 0.965794
Amount Units: ng/ml

Processing Integration Results



RT: 2.81
Area: 104140
Amount: 0.874019
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:51:53
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 696 of 897

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d

Injection Date: 24-Sep-2020 12:05:14

Instrument ID: LC812

Lims ID: CCVIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

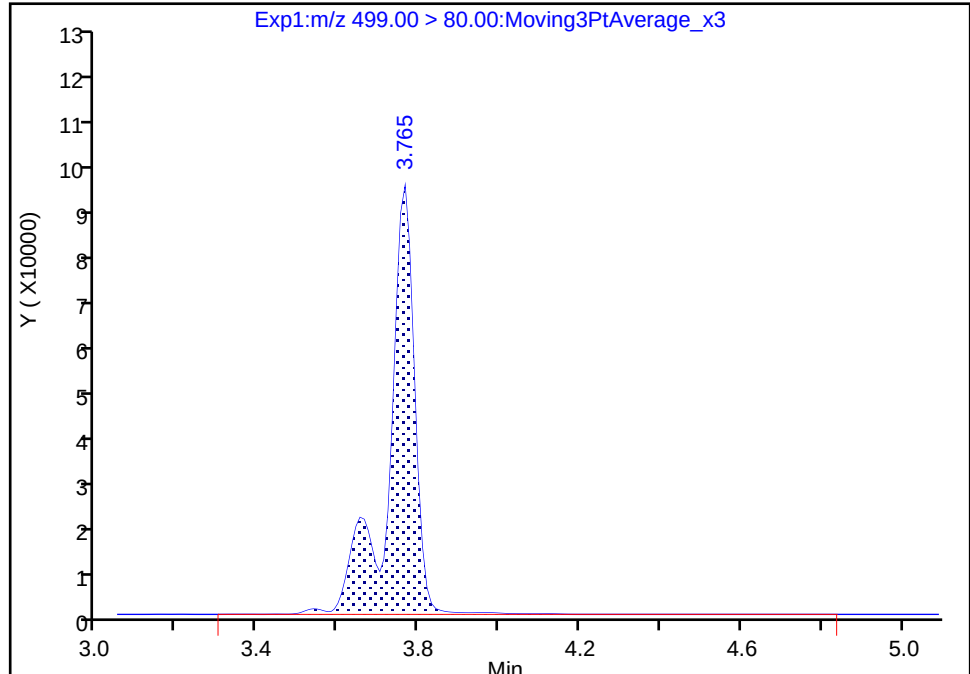
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

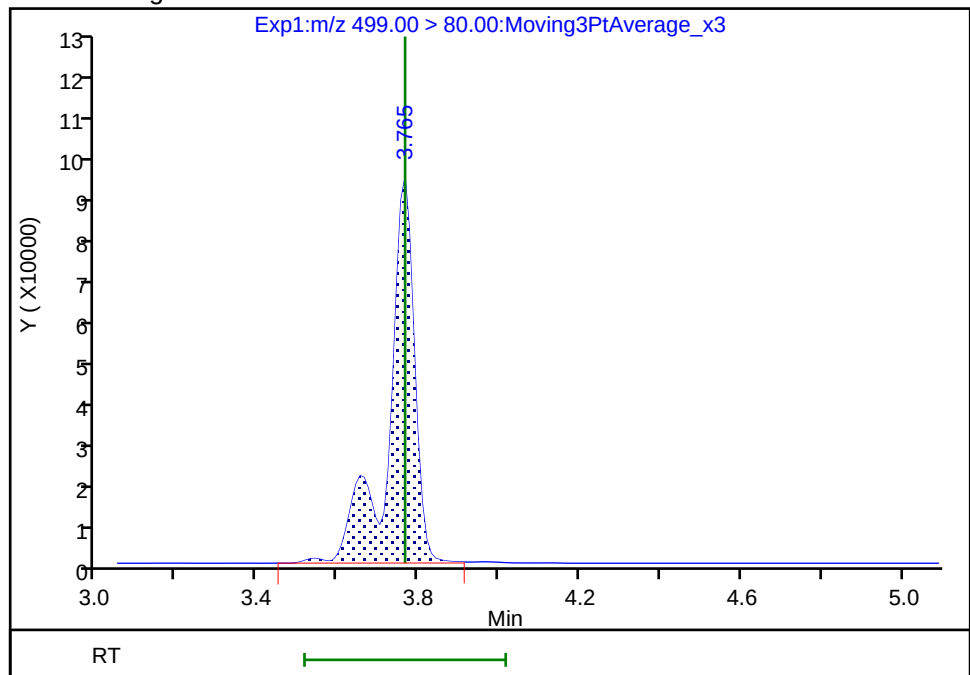
RT: 3.77
Area: 410581
Amount: 0.895647
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 406885
Amount: 0.887585
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:52:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

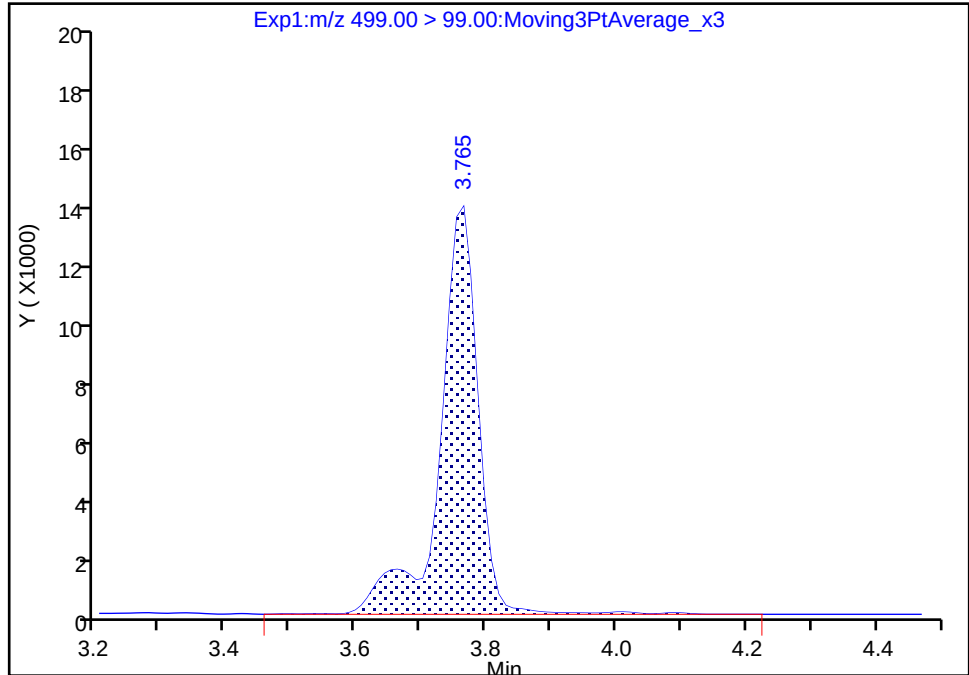
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d
Injection Date: 24-Sep-2020 12:05:14 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

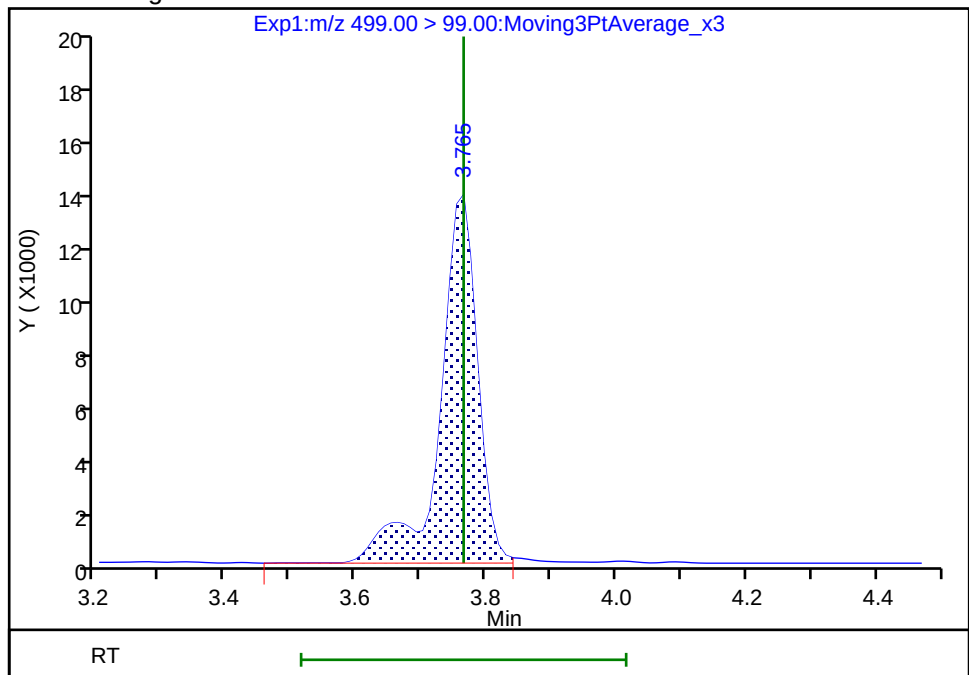
RT: 3.77
Area: 57468
Amount: 0.895647
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 56389
Amount: 0.887585
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:52:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d

Injection Date: 24-Sep-2020 12:05:14

Instrument ID: LC812

Lims ID: CCVIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

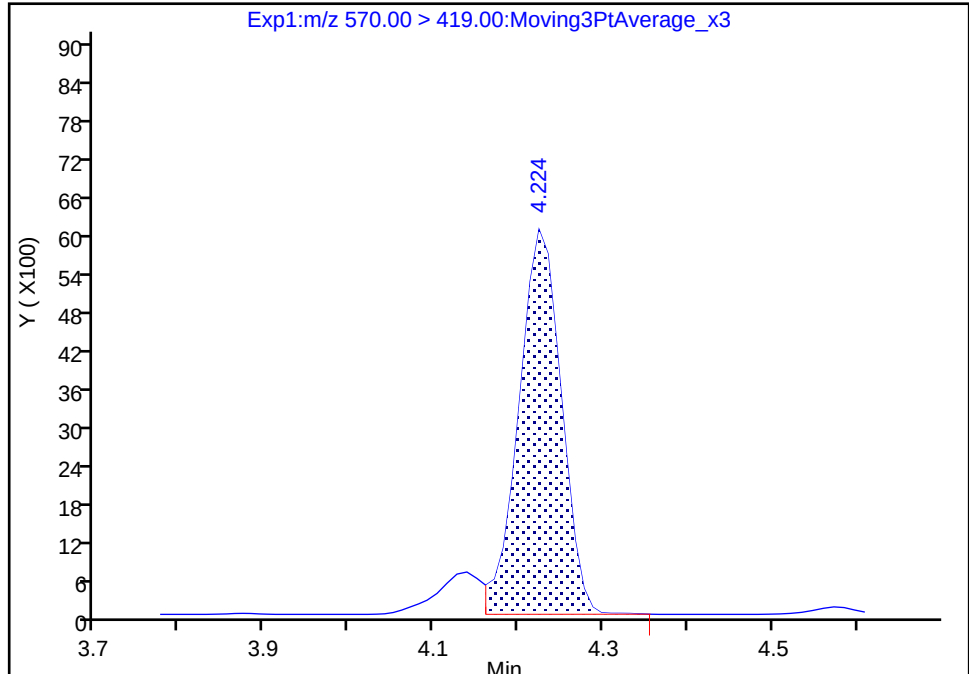
Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

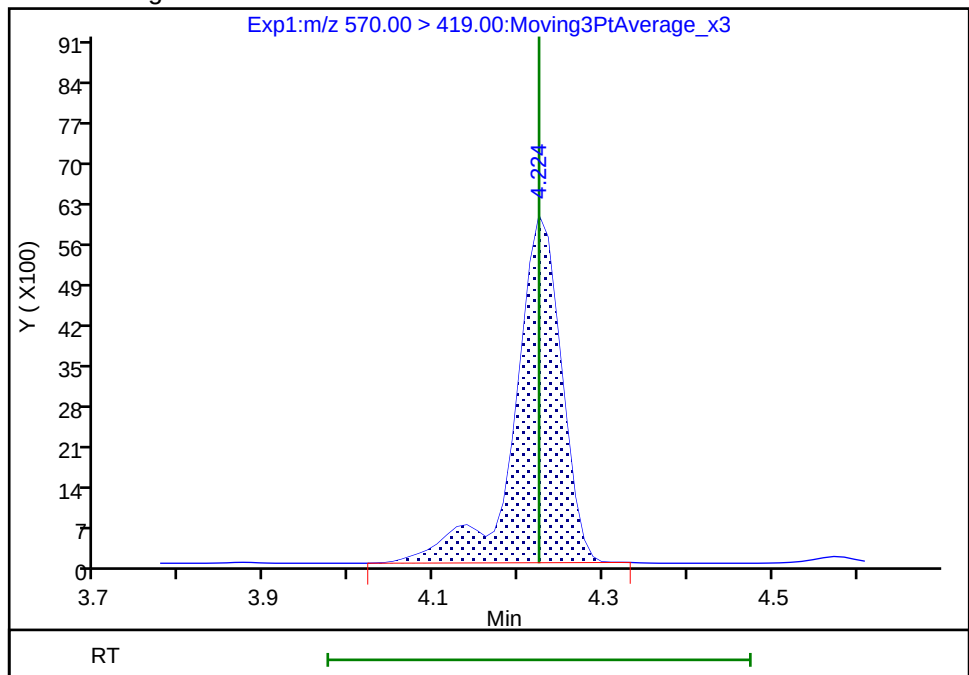
RT: 4.22
Area: 21045
Amount: 0.988901
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 23330
Amount: 1.096272
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:53:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

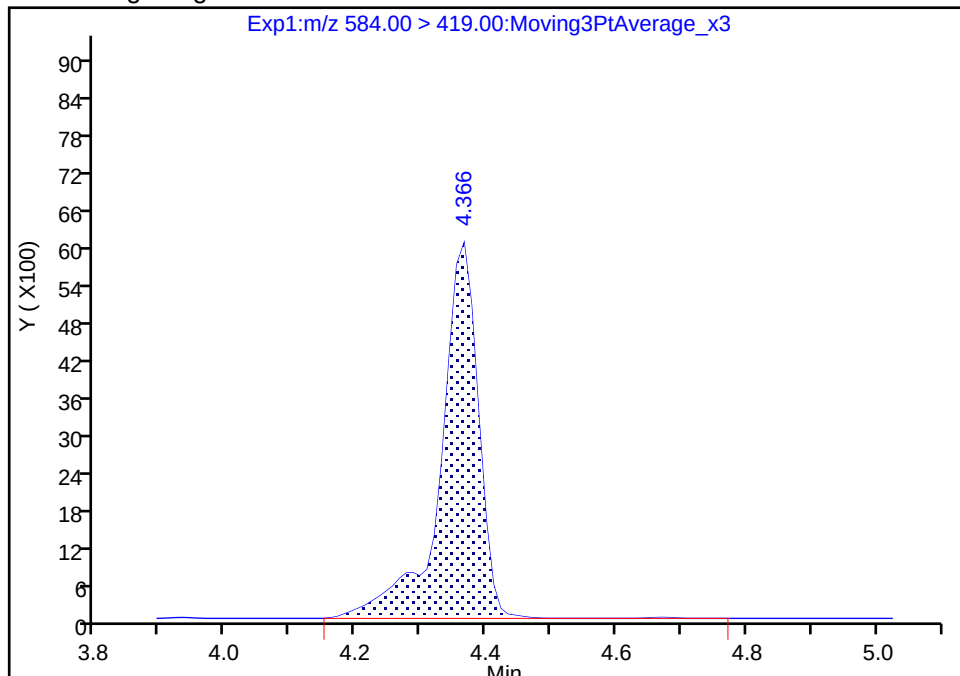
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d
Injection Date: 24-Sep-2020 12:05:14 Instrument ID: LC812
Lims ID: CCVIS
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

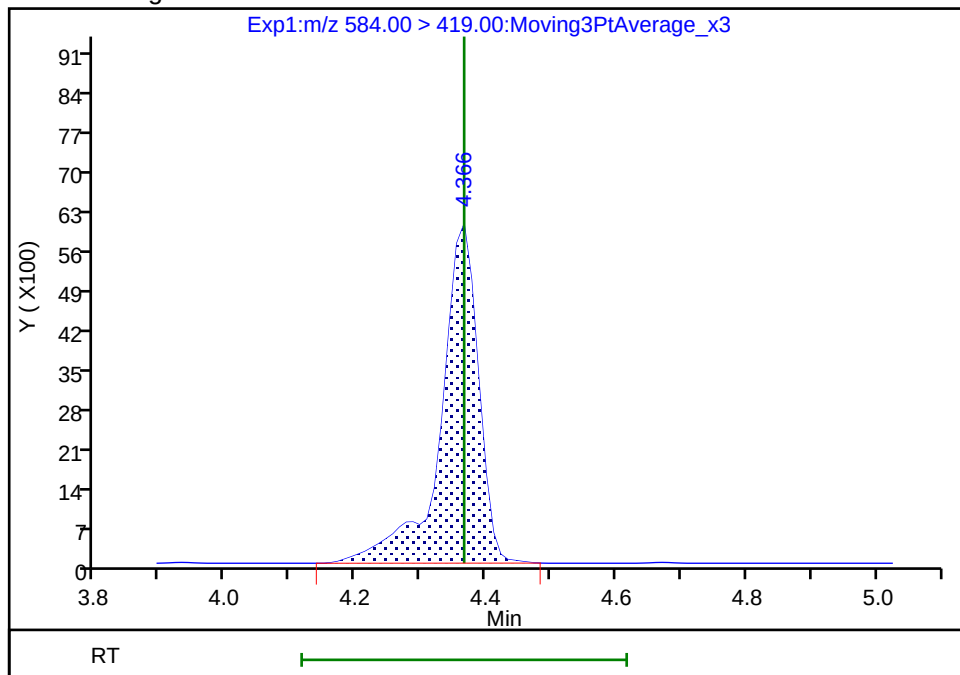
RT: 4.37
Area: 24403
Amount: 0.916280
Amount Units: ng/ml

Processing Integration Results



RT: 4.37
Area: 24335
Amount: 0.913726
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:53:20
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 700 of 897

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d

Injection Date: 24-Sep-2020 12:05:14

Instrument ID: LC812

Lims ID: CCVIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

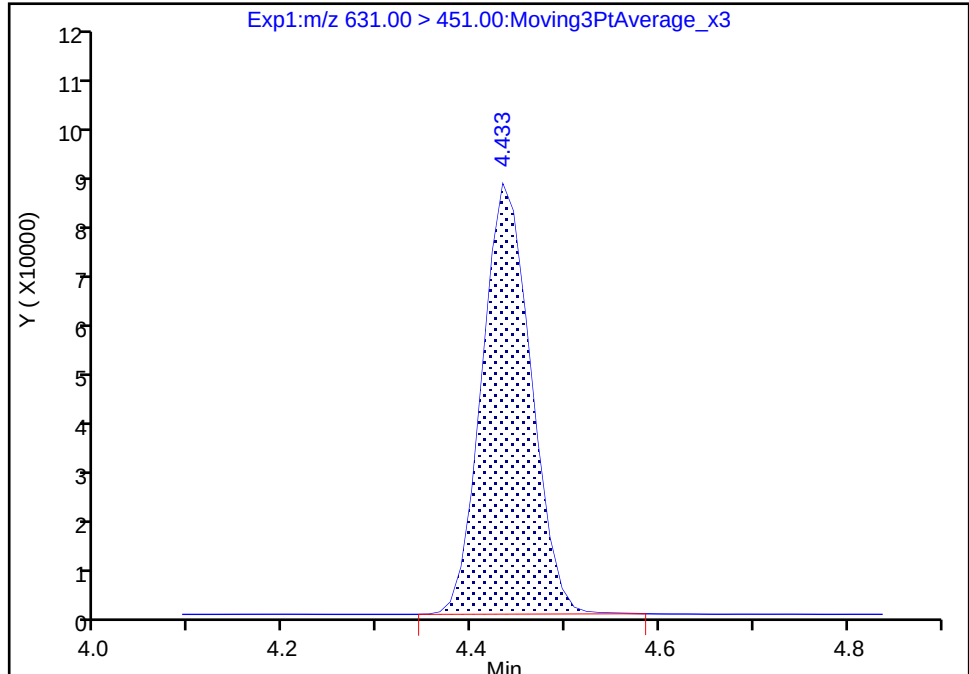
Detector: EXP1

66 11-Chloroeicosafluoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

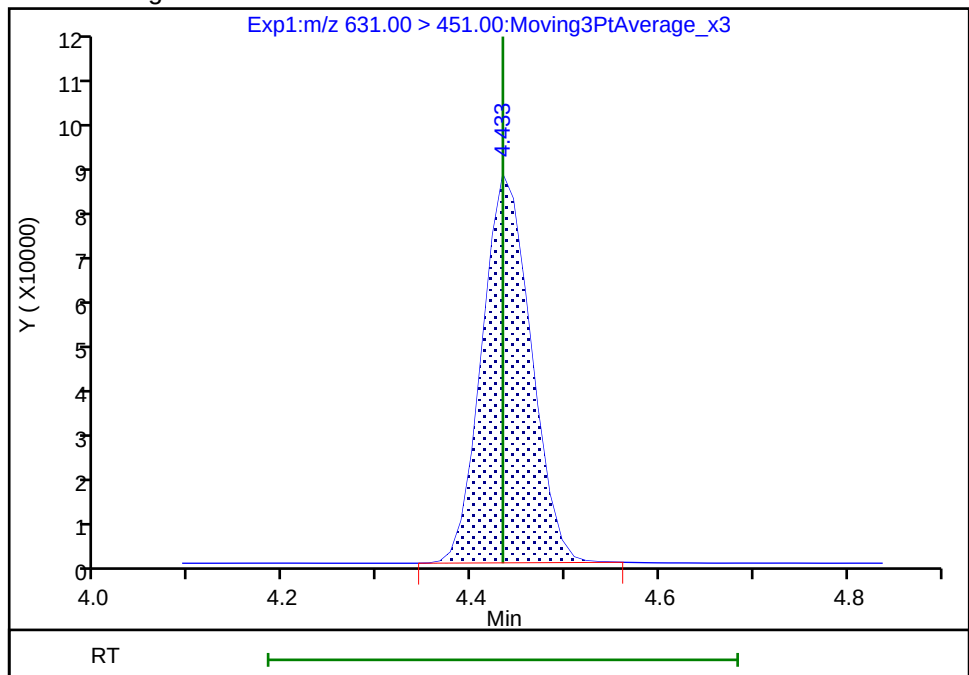
RT: 4.43
Area: 302219
Amount: 0.868435
Amount Units: ng/ml

Processing Integration Results



RT: 4.43
Area: 301501
Amount: 0.866372
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:53:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42934.b\PA200924A06.d

Injection Date: 24-Sep-2020 12:05:14

Instrument ID: LC812

Lims ID: CCVIS

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 6

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

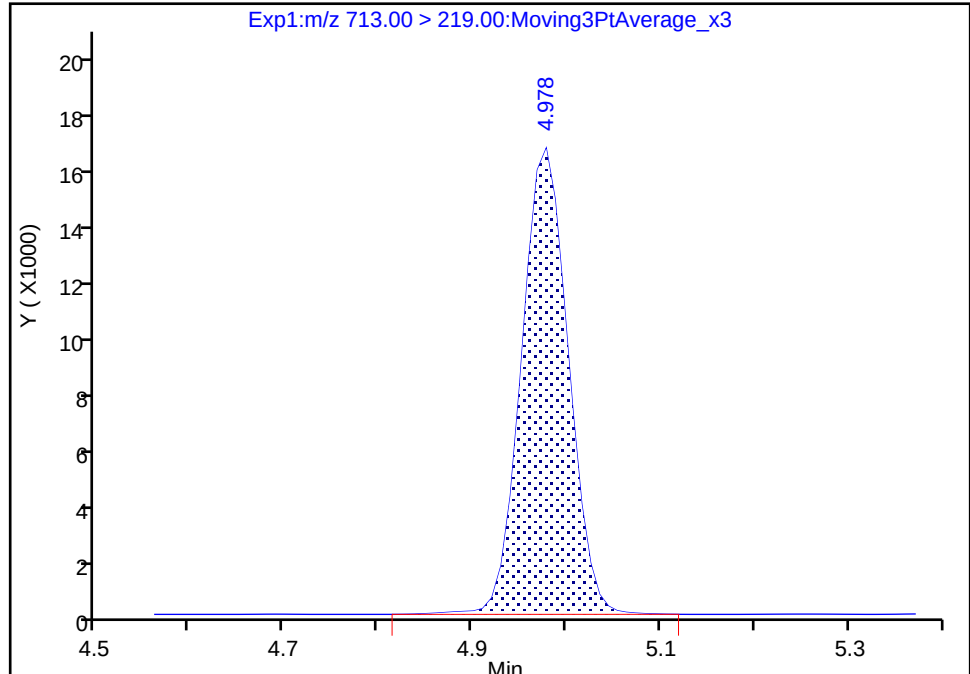
EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

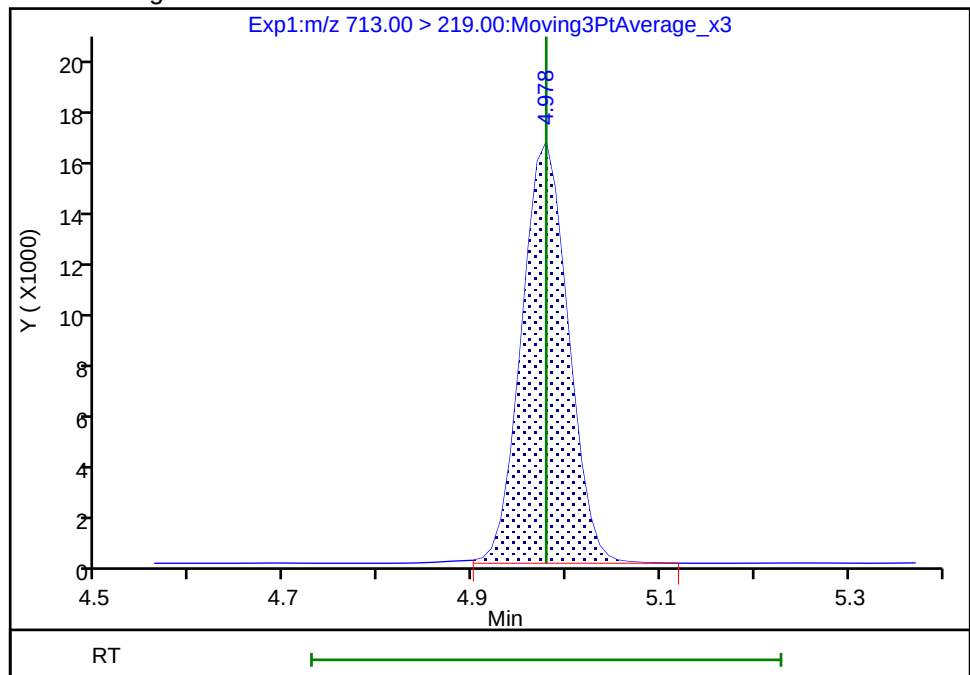
RT: 4.98
Area: 56127
Amount: 1.001999
Amount Units: ng/ml

Processing Integration Results



RT: 4.98
Area: 55897
Amount: 1.001999
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 24-Sep-2020 12:53:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: CCV 200-159169/1 Calibration Date: 09/24/2020 16:13

Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11

Lab File ID: PA200924B01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9347	0.8494		0.909	1.00	-9.1	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	0.9079		0.860	1.00	-14.0	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.028		0.912	0.884	3.2	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.574		0.910	0.934	-2.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	1.028		1.02	1.00	2.1	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.191		0.943	0.938	0.6	50.0
HFPO-DA	AveID	2.128	1.946		0.915	1.00	-8.5	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.9653		0.963	1.00	-3.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.037		0.854	0.910	-6.1	40.0
DONA	AveID	3.081	3.204		0.980	0.942	4.0	50.0
6:2 FTS	AveID	0.7981	0.7632		0.907	0.948	-4.4	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.181		0.971	0.952	2.0	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.016		0.985	1.00	-1.5	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.058		0.903	0.928	-2.7	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	0.9730		0.955	1.00	-4.5	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	1.022		0.996	0.932	6.9	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8848		0.989	0.960	3.0	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.8943		0.904	1.00	-9.6	40.0
8:2 FTS	AveID	0.3958	0.3589		0.868	0.958	-9.3	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9348	0.9595		1.03	1.00	2.6	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.8998		0.953	1.00	-4.7	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.7292		0.978	0.964	1.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	0.9902		1.00	1.00	0.4	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.8314		0.908	1.00	-9.2	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.8589		0.981	0.942	4.1	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.996		1.02	1.00	2.1	40.0
10:2 FTS	AveID	0.2199	0.2098		0.919	0.964	-4.6	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.2114		0.887	0.968	-8.3	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8337		1.01	1.00	0.7	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2151		0.939	1.00	-6.1	40.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: CCV 200-159169/1 Calibration Date: 09/24/2020 16:13
 Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11
 Lab File ID: PA200924B01.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.9329		1.05	1.00	5.0	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.7012		0.938	1.00	-6.2	50.0
13C4 PFBA	Ave	1.433	1.455		1.27	1.25	1.5	50.0
13C5 PFPeA	Ave	1.027	1.055		1.28	1.25	2.7	50.0
13C3 PFBS	Ave	1.251	1.179		1.10	1.16	-5.8	50.0
M2-4:2 FTS	Ave	0.0939	0.0873		1.09	1.17	-7.1	50.0
13C2 PFHxA	Ave	1.058	1.061		1.25	1.25	0.3	50.0
13C3 HFPO-DA	Ave	0.0985	0.0990		1.26	1.25	0.5	50.0
18O2 PFHxS	Ave	0.8974	0.8675		1.14	1.18	-3.3	50.0
13C4 PFHpA	Ave	0.9620	0.9378		1.22	1.25	-2.5	50.0
M2-6:2 FTS	Ave	0.1199	0.1098		1.09	1.19	-8.5	50.0
13C4 PFOA	Ave	0.9845	0.9399		1.19	1.25	-4.5	50.0
13C4 PFOS	Ave	0.7341	0.6690		1.09	1.20	-8.9	50.0
13C5 PFNA	Ave	0.8296	0.7904		1.19	1.25	-4.7	50.0
13C2 PFDA	Ave	0.7956	0.8203		1.29	1.25	3.1	50.0
M2-8:2 FTS	Ave	0.1413	0.1367		1.16	1.20	-3.2	50.0
13C8 FOSA	Ave	1.282	1.170		1.14	1.25	-8.7	50.0
d3-NMeFOSAA	Ave	0.0453	0.0417		1.15	1.25	-7.9	50.0
13C2 PFUnA	Ave	0.6006	0.5338		1.11	1.25	-11.1	50.0
d5-NEtFOSAA	Ave	0.0487	0.0465		1.19	1.25	-4.5	50.0
13C2 PFDoA	Ave	0.6348	0.5942		1.17	1.25	-6.4	50.0
13C2 PFTeDA	Ave	0.4522	0.4443		1.23	1.25	-1.7	50.0
13C2 PFHxDA	Ave	0.5124	0.4447		1.08	1.25	-13.2	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d
 Lims ID: CCV L4
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Sep-2020 16:13:38 ALS Bottle#: 1 Worklist Smp#: 1
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L4
 Misc. Info.: 200-0042936-001 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 08:14:05

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

D 1 13C4 PFBA

217.00 > 172.00 1.990 1.981 0.009 0.577 1039646 1.27 102 4831

2 Perfluorobutanoic acid

212.90 > 169.00 1.990 1.990 0.0 1.000 706456 0.9087 90.9 109 M

D 3 13C5 PFPeA

267.90 > 223.00 2.326 2.326 0.0 0.674 753747 1.28 103 3358

4 Perfluoropentanoic acid

262.90 > 219.00 2.326 2.326 0.0 1.000 547482 0.8597 86.0 31.8 M

D 47 13C3 PFBS

301.90 > 80.00 2.353 2.339 0.014 0.682 783343 1.10 94.2 223265

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.353 2.339 0.014 1.000 612556 0.9123 Target=2.07 103 1865

298.90 > 99.00 2.353 2.339 0.014 1.000 300027 2.04(1.04-3.11) 382

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.665 2.653 0.012 1.000 73374 0.9095 97.4 1330

D 60 M2-4:2 FTS

329.00 > 81.00 2.665 2.653 0.012 0.773 58280 1.09 92.9 165 M

D 7 13C2 PFHxA

315.00 > 270.00 2.703 2.691 0.012 0.784 758253 1.25 100 3115

6 Perfluorohexanoic acid

313.00 > 269.00 2.703 2.691 0.012 1.000 623417 1.02 Target=12.44 102 249

313.00 > 119.00 2.703 2.691 0.012 1.000 51281 12.16(6.22-18.66) 157

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.703 2.703 0.0 0.880 553916 0.9432 Target=3.64 101 2219

349.00 > 99.00 2.703 2.703 0.0 0.880 159476 3.47(1.82-5.46) 554

D 64 13C3 HFPO-DA

332.10 > 287.00 2.810 2.810 0.0 0.815 70771 1.26 100 771

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.818	2.810	0.008	1.003	110187	0.9146		91.5	27.8	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	586487	1.14		96.7	1808	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.004	467949	0.8543	Target=4.60	93.9	1233	M
399.00 > 99.00	3.073	3.073	0.0	1.000	105888		4.42(2.30-6.91)		252	
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.073	0.011	0.894	670164	1.22		97.5	3084	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.000	517536	0.9633	Target=3.34	96.3	314	
363.00 > 169.00	3.084	3.084	0.0	1.000	154889		3.34(1.67-5.01)		577	
77 DONA										
377.00 > 251.00	3.123	3.115	0.008	0.830	1154434	0.9796	Target=2.44	104	2837	
377.00 > 85.00	3.123	3.115	0.008	0.830	473887		2.44(1.22-3.67)		896	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.441	3.433	0.008	0.914	430168	0.9707	Target=7.08	102	1872	
449.00 > 99.00	3.441	3.433	0.008	0.914	64535		6.67(3.54-10.63)		633	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.441	3.433	0.008	1.000	45403	0.9065		95.6	689	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.441	0.0	0.997	74522	1.09		91.5	571	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	671653	1.19		95.5	3046	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.441	0.009		714624	1.25			4552	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.450	3.450	0.0	1.000	546168	0.9845	Target=2.29	98.5	237	
413.00 > 169.00	3.450	3.450	0.0	1.000	248763		2.20(1.14-3.43)		735	
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	457078	1.09		91.1	2218	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	375363	0.9031	Target=7.10	97.3	903	M
499.00 > 99.00	3.765	3.765	0.0	1.000	54085		6.94(3.55-10.64)		487	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.786	0.0	1.098	564825	1.19		95.3	3940	
20 Perfluorononanoic acid										
463.00 > 419.00	3.786	3.786	0.0	1.000	439646	0.9554	Target=5.83	95.5	185	
463.00 > 169.00	3.786	3.786	0.0	1.000	80542		5.46(2.91-8.74)		1083	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.932	3.922	0.010	1.044	364375	1.00		107	5329	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.062	4.052	0.010	1.079	324888	0.9891	Target=3.38	103	3990	
549.00 > 99.00	4.062	4.052	0.010	1.079	87862		3.70(1.69-5.08)		487	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.082	4.082	0.0	1.000	419402	0.9039	Target=6.81	90.4	766	
513.00 > 169.00	4.082	4.082	0.0	1.000	60937		6.88(3.41-10.22)		860	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.082	0.0	1.183	586206	1.29		103	7750	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.103	4.092	0.011	1.003	26871	0.8685		90.7	832	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	93599	1.16		96.8	997	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.139	0.012	1.203	836415	1.14		91.3	2311	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.151	4.139	0.012	1.000	642028	1.03		103	1272	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.224	0.0	1.224	29800	1.15		92.1	195	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.235	4.224	0.011	1.002	21451	0.9535		95.3	357	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.321	0.0	1.147	268864	0.9782	Target=3.31	101	1544	
599.00 > 99.00	4.321	4.321	0.0	1.147	80504		3.34(1.66-4.97)		811	
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.343	0.012	1.262	381501	1.11		88.9	3583	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.343	0.012	1.000	302218	1.00	Target=6.57	100	425	
563.00 > 169.00	4.355	4.343	0.012	1.000	46278		6.53(3.28-9.85)		1061	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	33218	1.19		95.5	443	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.366	4.366	0.0	1.003	22093	0.9081		90.8	458	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.444	4.433	0.011	1.180	309461	0.9807		104	3781	
D 36 13C2 PFDaA										
615.00 > 570.00	4.585	4.573	0.012	1.329	424599	1.17		93.6	2967	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.585	4.573	0.012	1.000	338155	1.02	Target=5.16	102	396	
613.00 > 169.00	4.585	4.573	0.012	1.000	66469		5.09(2.58-7.75)		1052	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.597	4.597	0.0	1.124	15807	0.9195		95.4	538	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.754	4.745	0.009	1.263	78270	0.8875	Target=0.45	91.7	361	
699.00 > 99.00	4.754	4.745	0.009	1.263	177165		0.44(0.22-0.67)		2265	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.790	4.790	0.0	1.045	283198	1.01	Target=3.30	101	184	
663.00 > 169.00	4.790	4.790	0.0	1.045	74852		3.78(1.65-4.95)		1205	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.978	0.010	1.446	317517	1.23		98.3	4637	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.988	4.978	0.010	1.000	54643	0.9392	Target=1.06	93.9	1753	
713.00 > 219.00	4.988	4.978	0.010	1.000	51056		1.07(0.53-1.59)		1346	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.361	5.350	0.011	1.554	317810	1.08		86.8	3056	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.361	5.350	0.011	1.000	237197	1.05	Target=3.06	105	243	
813.00 > 169.00	5.361	5.350	0.011	1.000	76820		3.09(1.53-4.58)		1509	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.747	5.738	0.009	1.072	178286	0.9383	Target=2.82	93.8	227	
913.00 > 169.00	5.738	5.738	0.0	1.070	65444		2.72(1.41-4.24)		1159	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC4_00011

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d

Injection Date: 24-Sep-2020 16:13:38

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

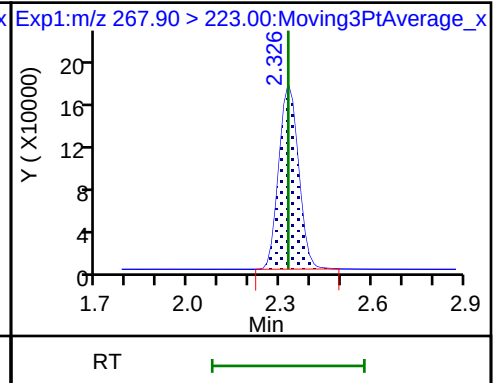
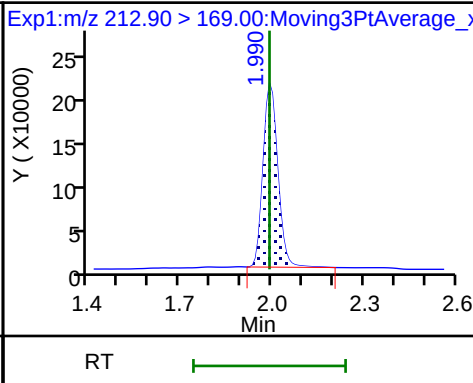
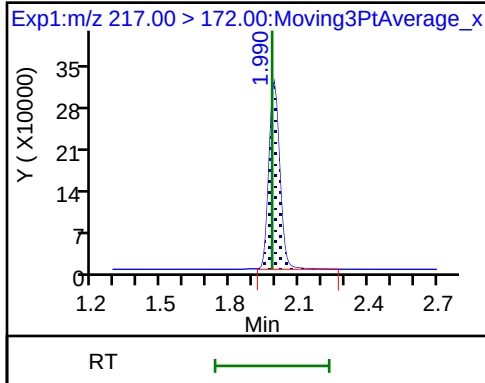
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

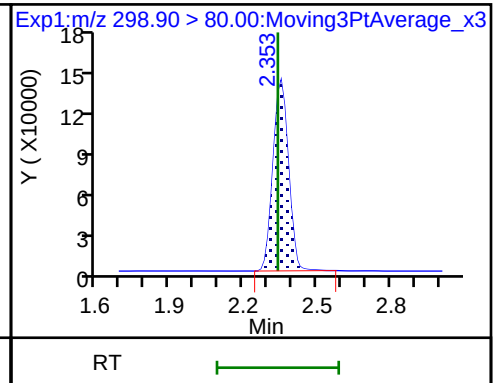
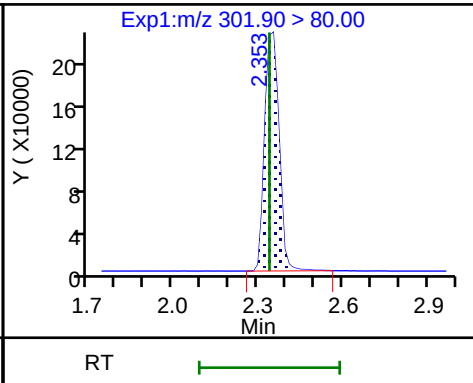
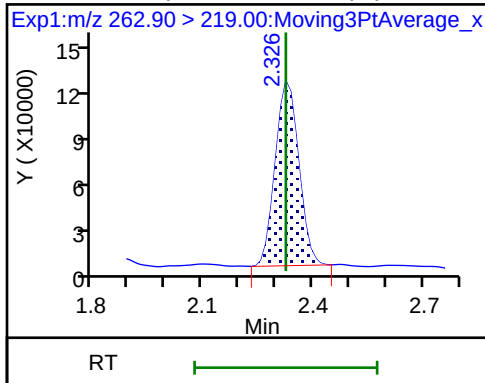
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

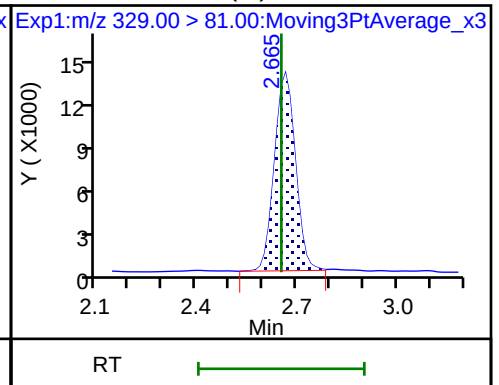
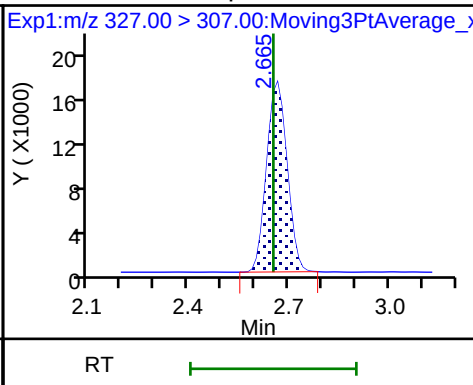
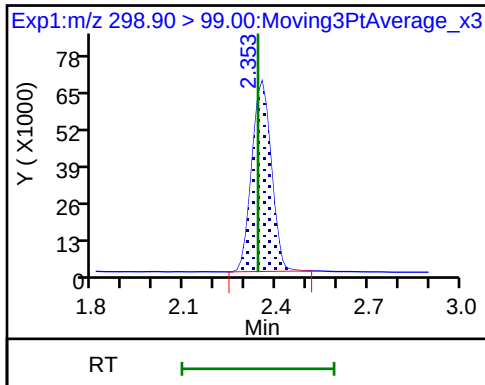
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

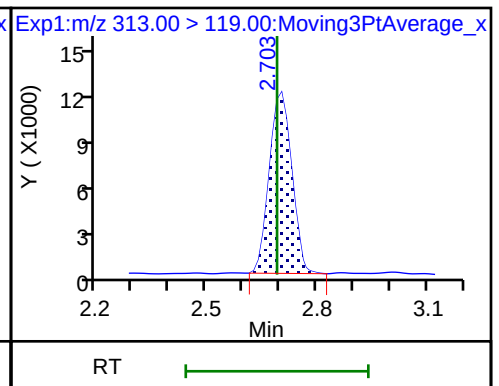
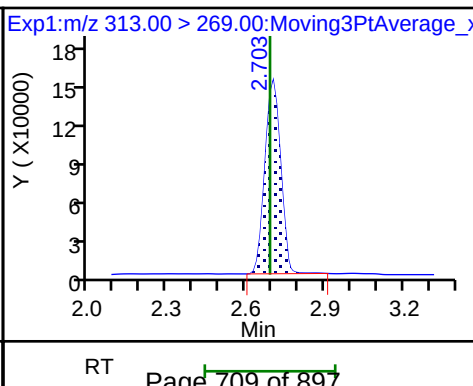
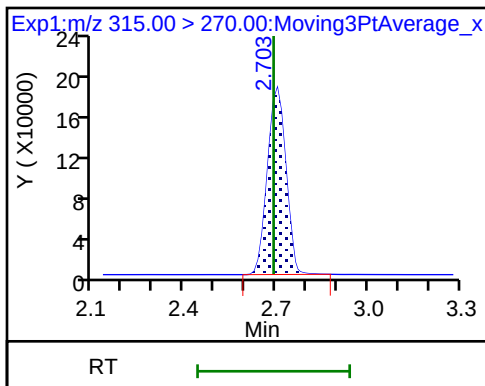
D 60 M2-4:2 FTS (M)

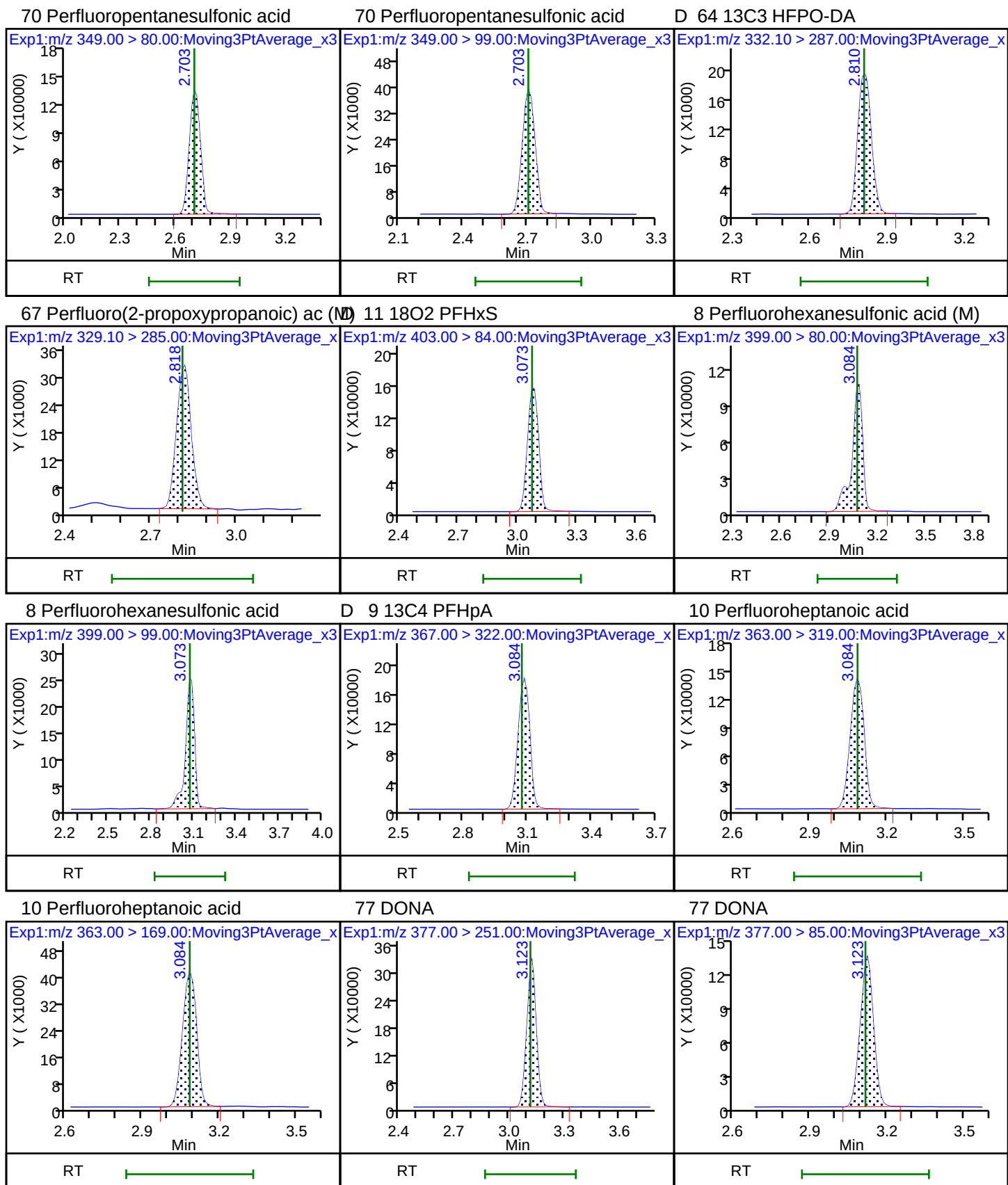


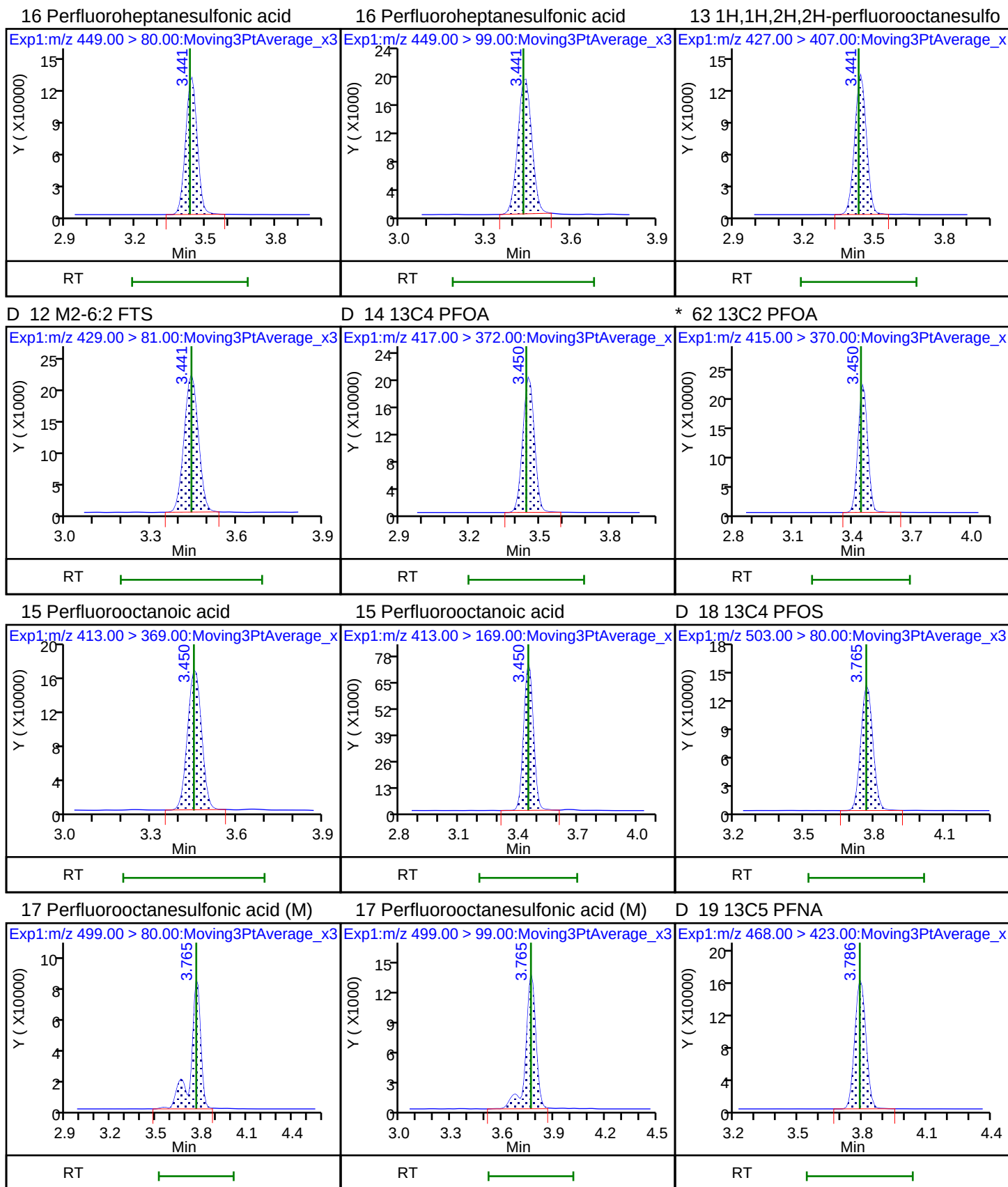
D 7 13C2 PFHxA

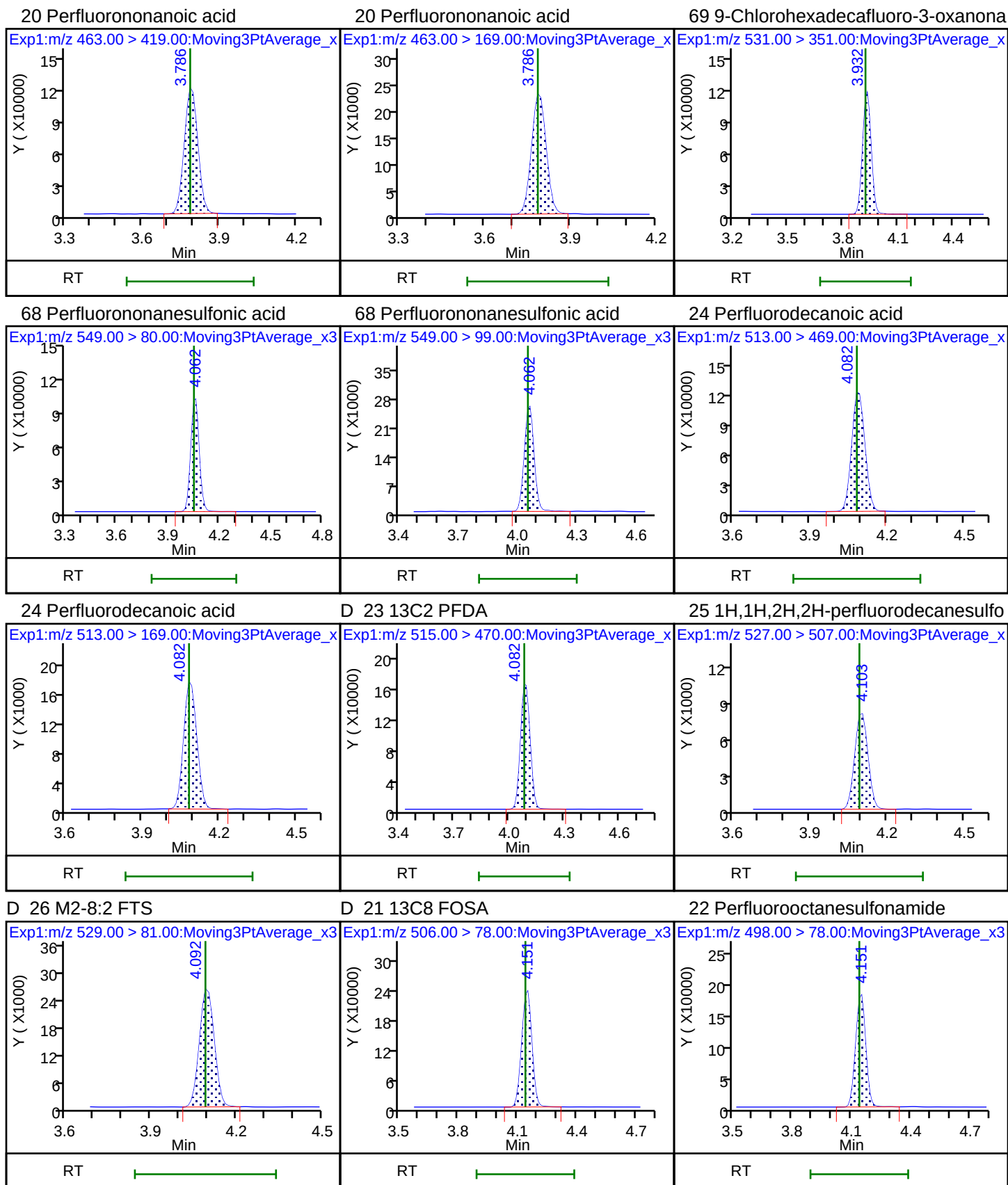
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid







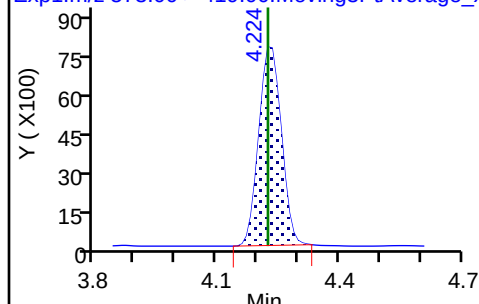


D 27 d3-NMeFOSAA

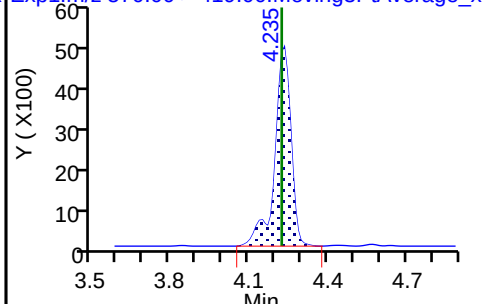
28 N-methylperfluorooctanesulfonami

29 Perfluorodecanesulfonic acid

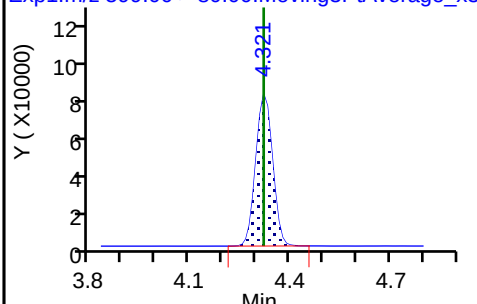
Exp1:m/z 573.00 > 419.00:Moving3PtAverage_x



Exp1:m/z 570.00 > 419.00:Moving3PtAverage_x



Exp1:m/z 599.00 > 80.00:Moving3PtAverage_x3

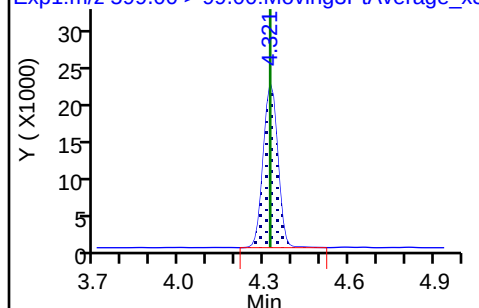


29 Perfluorodecanesulfonic acid

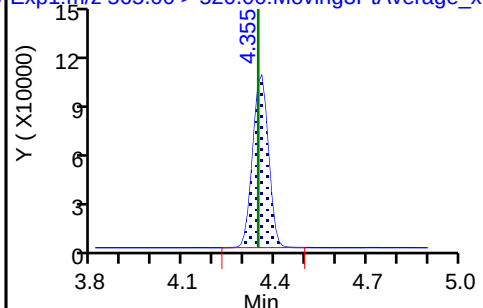
D 30 13C2 PFUoA

31 Perfluoroundecanoic acid

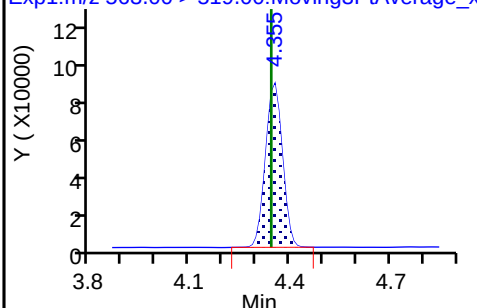
Exp1:m/z 599.00 > 99.00:Moving3PtAverage_x3



Exp1:m/z 565.00 > 520.00:Moving3PtAverage_x



Exp1:m/z 563.00 > 519.00:Moving3PtAverage_x

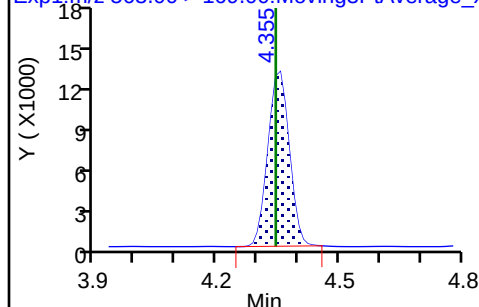


31 Perfluoroundecanoic acid

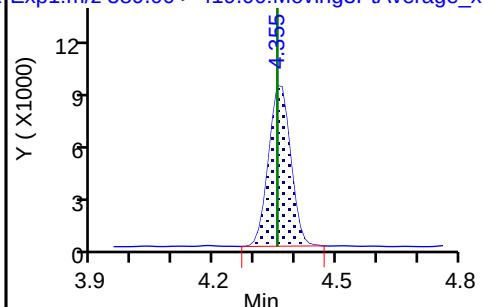
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid

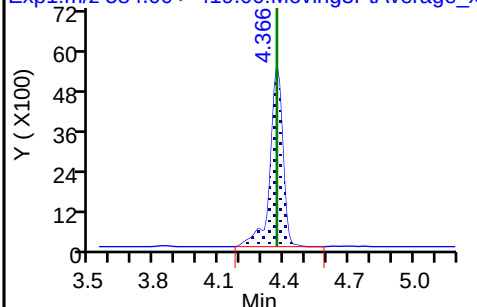
Exp1:m/z 563.00 > 169.00:Moving3PtAverage_x



Exp1:m/z 589.00 > 419.00:Moving3PtAverage_x



Exp1:m/z 584.00 > 419.00:Moving3PtAverage_x

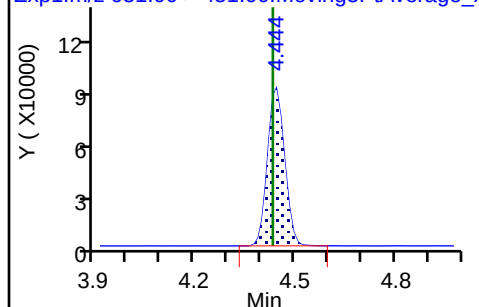


66 11-Chloroeicosafluoro-3-oxaundec

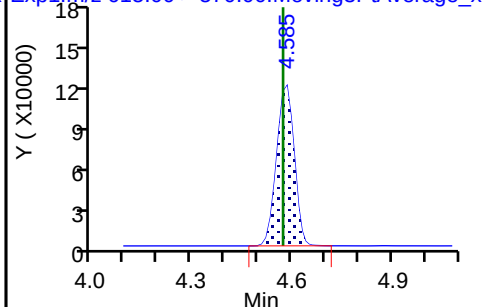
D 36 13C2 PFDaA

37 Perfluorododecanoic acid

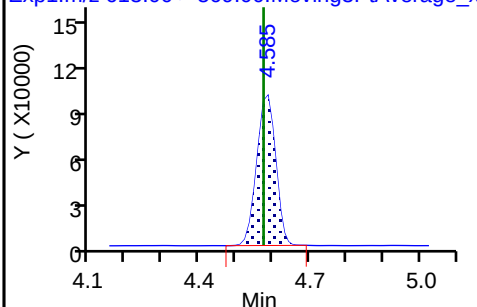
Exp1:m/z 631.00 > 451.00:Moving3PtAverage_x



Exp1:m/z 615.00 > 570.00:Moving3PtAverage_x



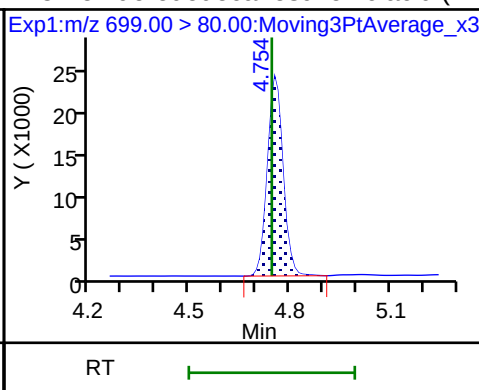
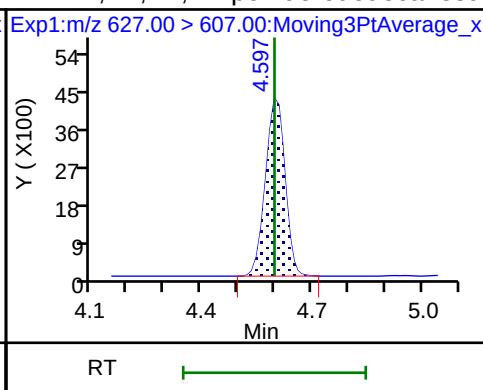
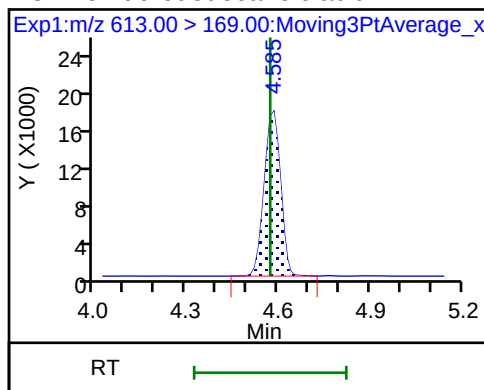
Exp1:m/z 613.00 > 569.00:Moving3PtAverage_x



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

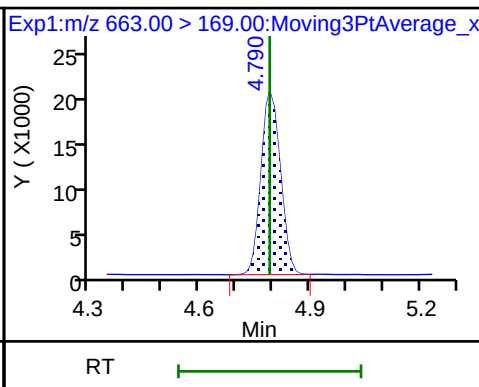
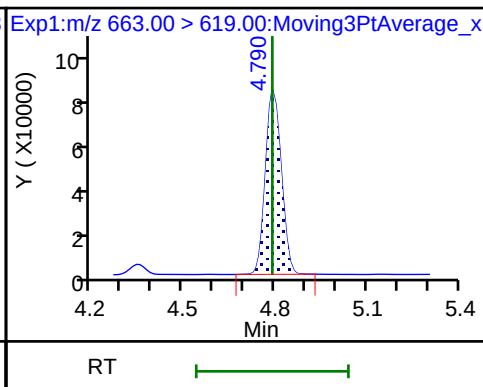
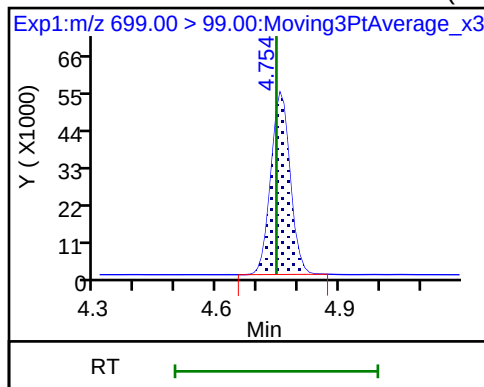
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

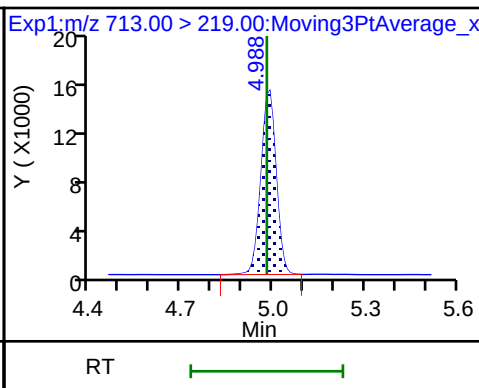
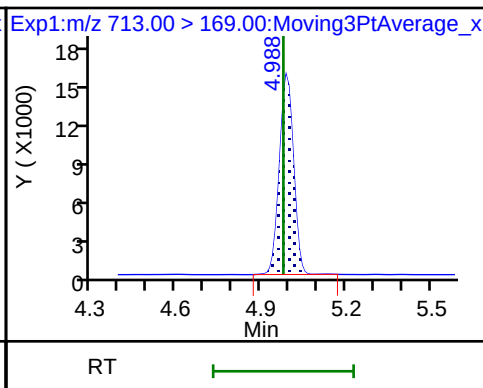
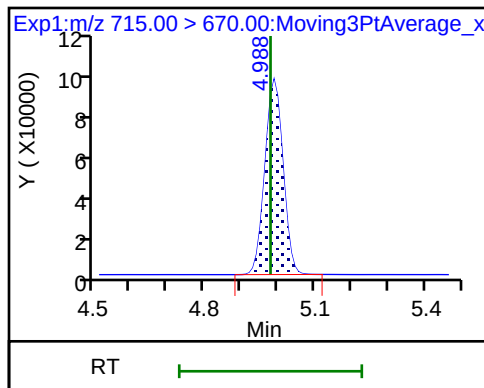
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

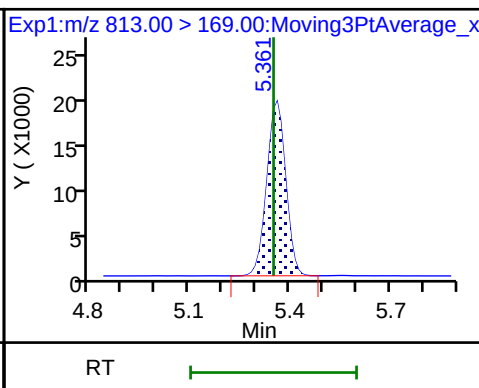
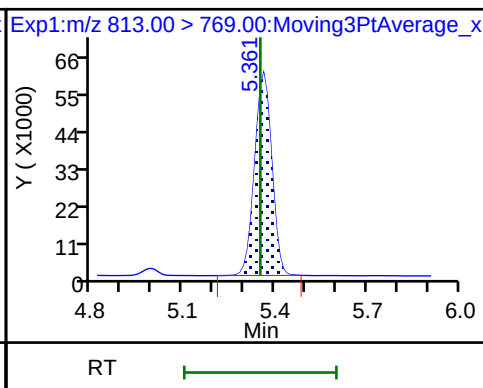
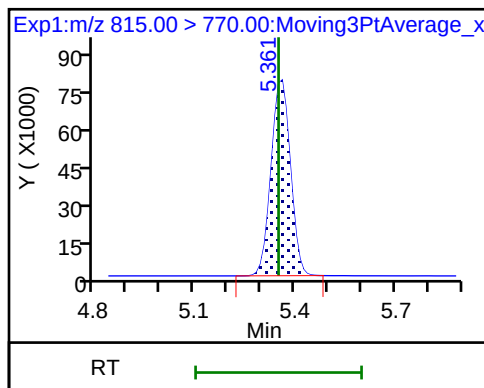
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

45 Perfluorohexadecanoic acid

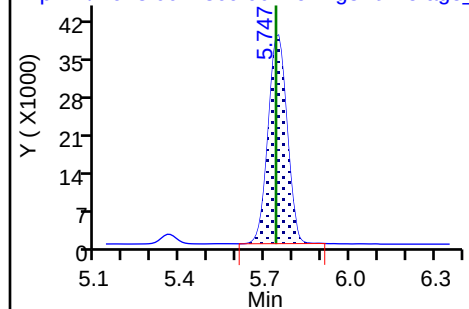
45 Perfluorohexadecanoic acid



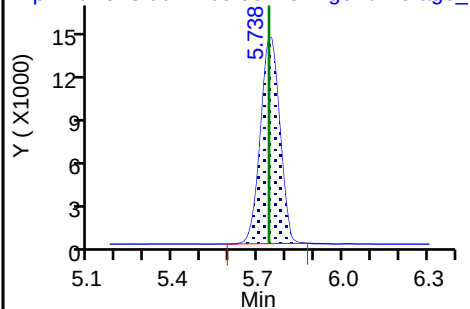
46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid

Exp1:m/z 913.00 > 869.00:Moving3PtAverage_x



Exp1:m/z 913.00 > 169.00:Moving3PtAverage_x



Eurofins TestAmerica, Burlington

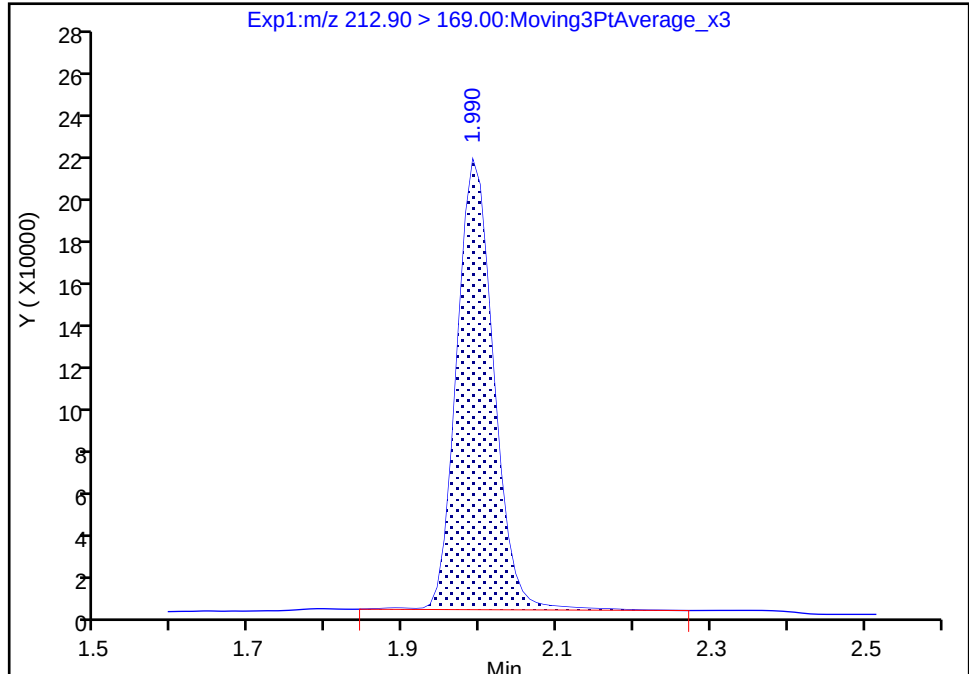
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d
Injection Date: 24-Sep-2020 16:13:38 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

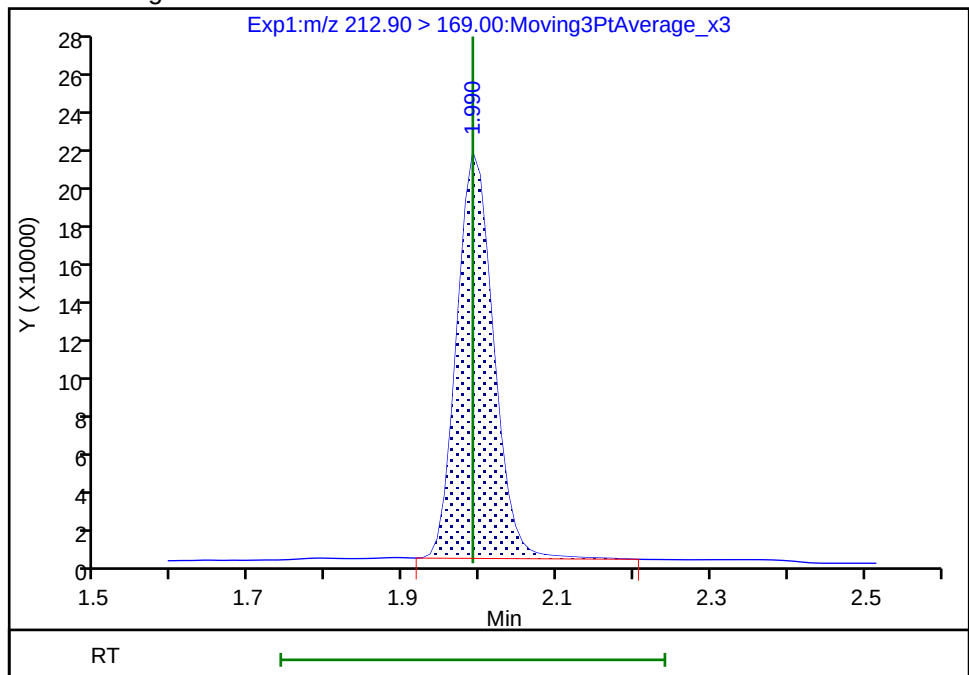
RT: 1.99
Area: 712767
Amount: 0.916813
Amount Units: ng/ml

Processing Integration Results



RT: 1.99
Area: 706456
Amount: 0.908695
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:12:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

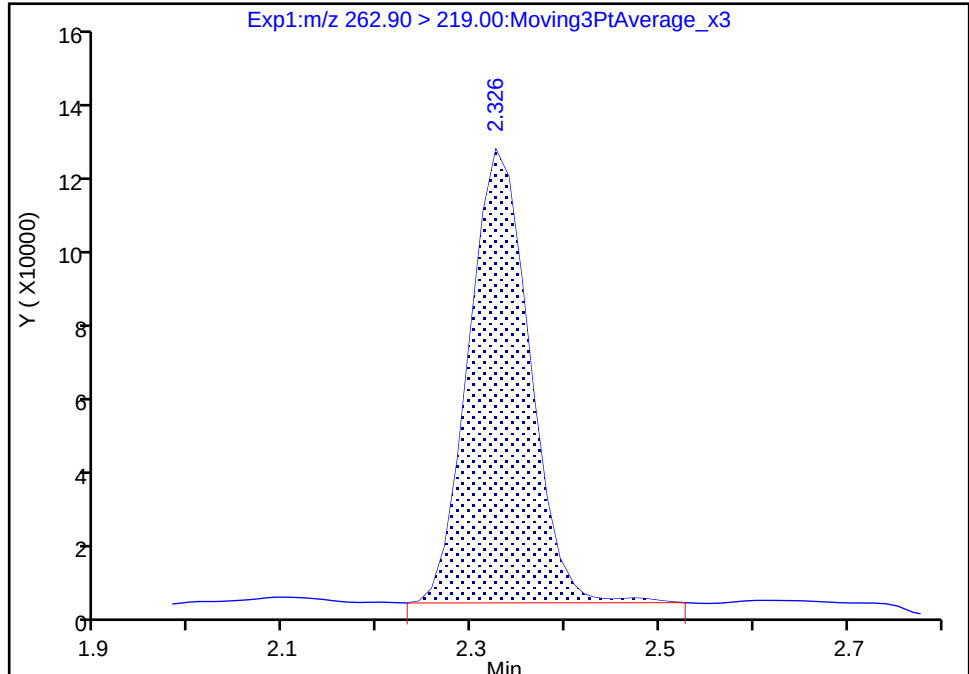
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d
Injection Date: 24-Sep-2020 16:13:38 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

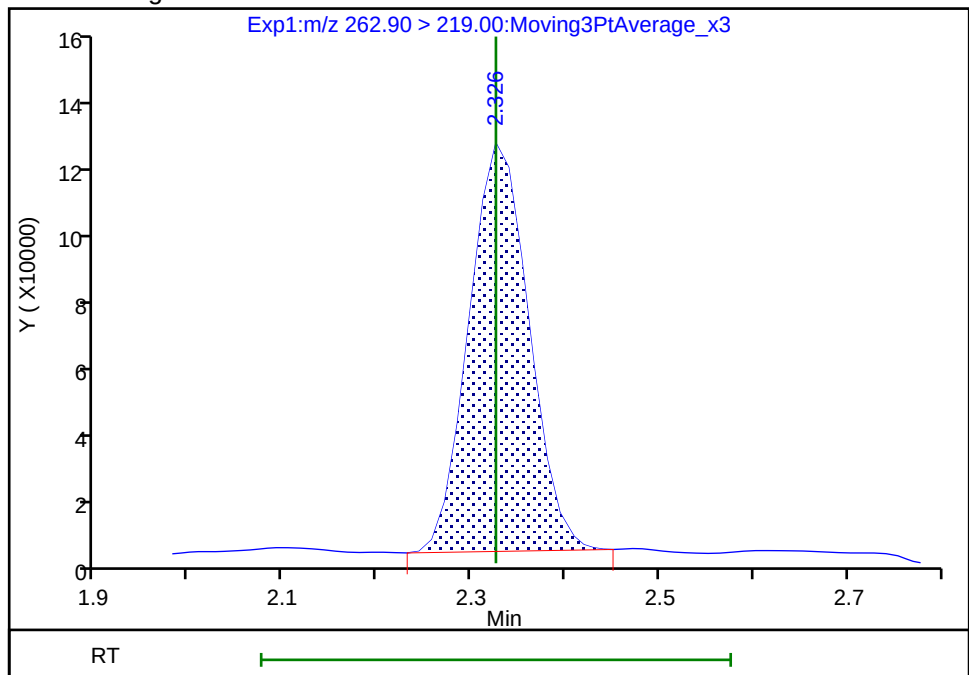
RT: 2.33
Area: 557611
Amount: 0.875625
Amount Units: ng/ml

Processing Integration Results



RT: 2.33
Area: 547482
Amount: 0.859720
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:12:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

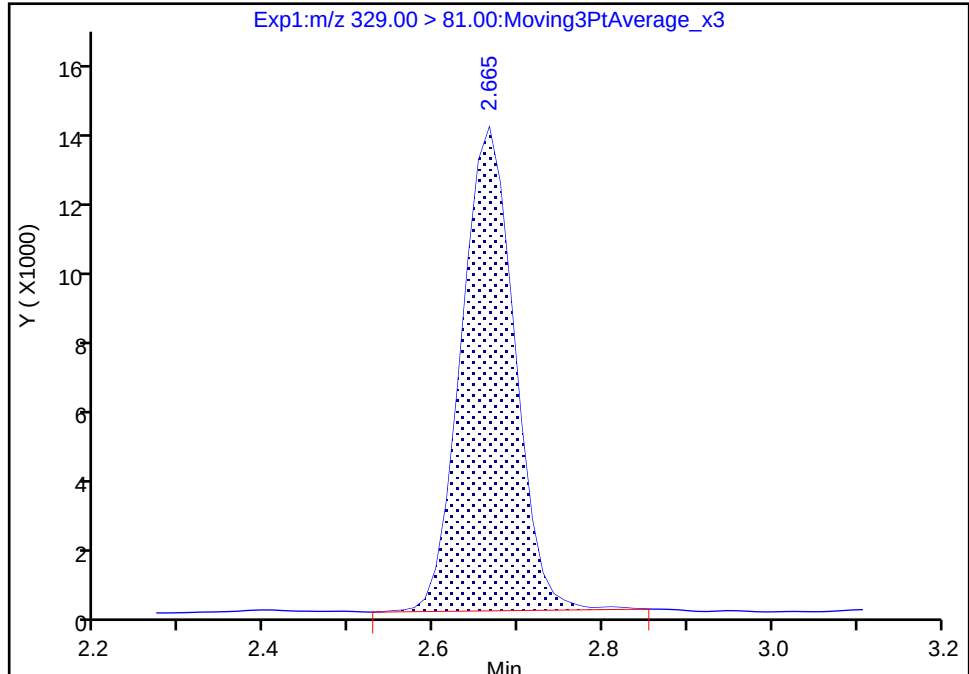
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d
Injection Date: 24-Sep-2020 16:13:38 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

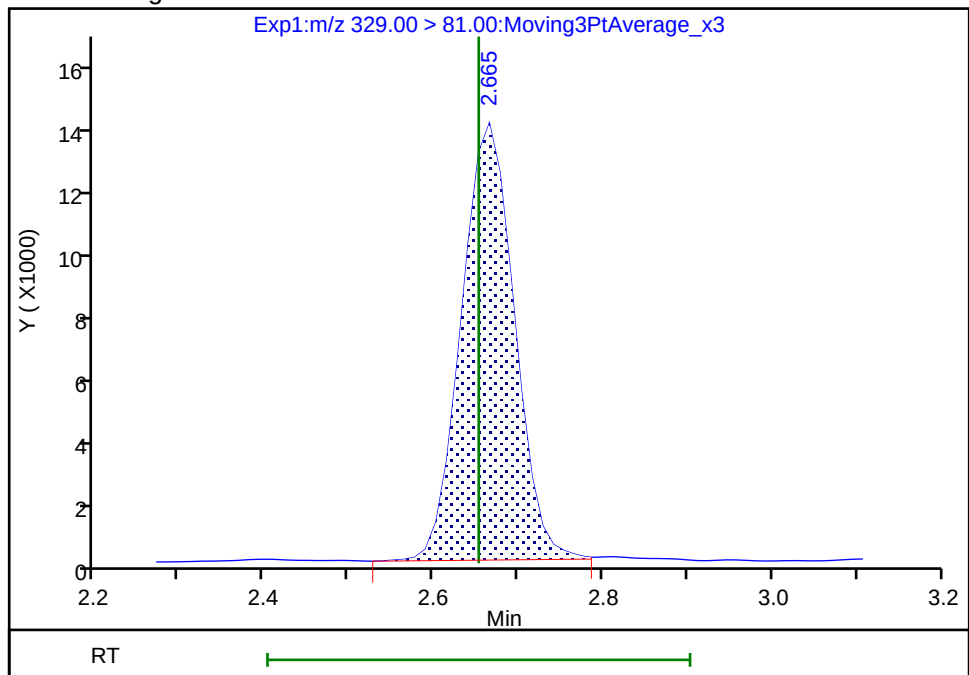
RT: 2.67
Area: 58445
Amount: 1.088184
Amount Units: ng/ml

Processing Integration Results



RT: 2.67
Area: 58280
Amount: 1.085112
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:12:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

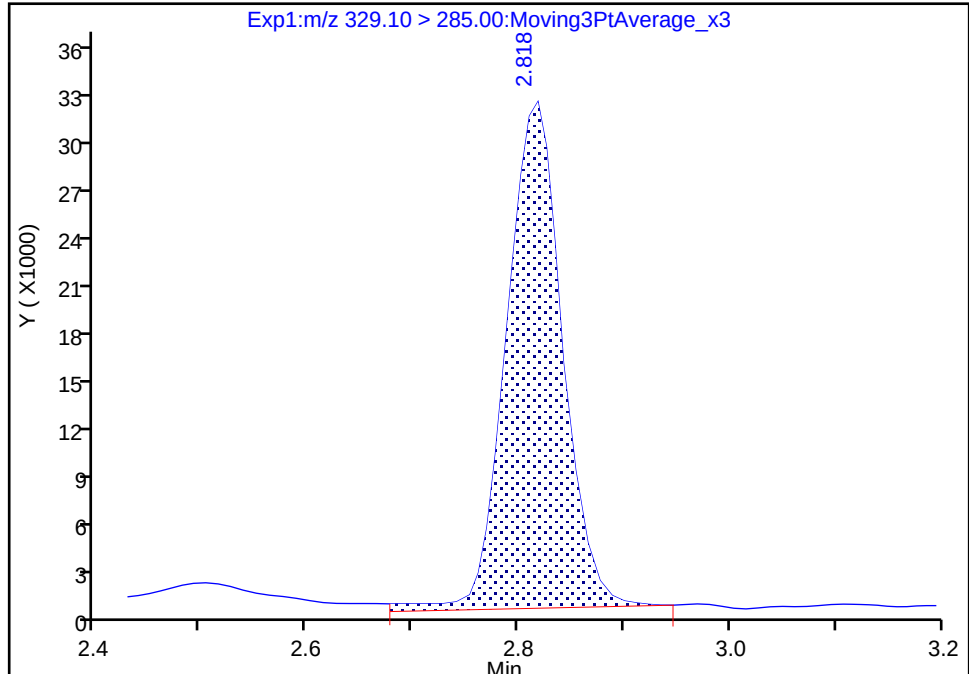
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d
Injection Date: 24-Sep-2020 16:13:38 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

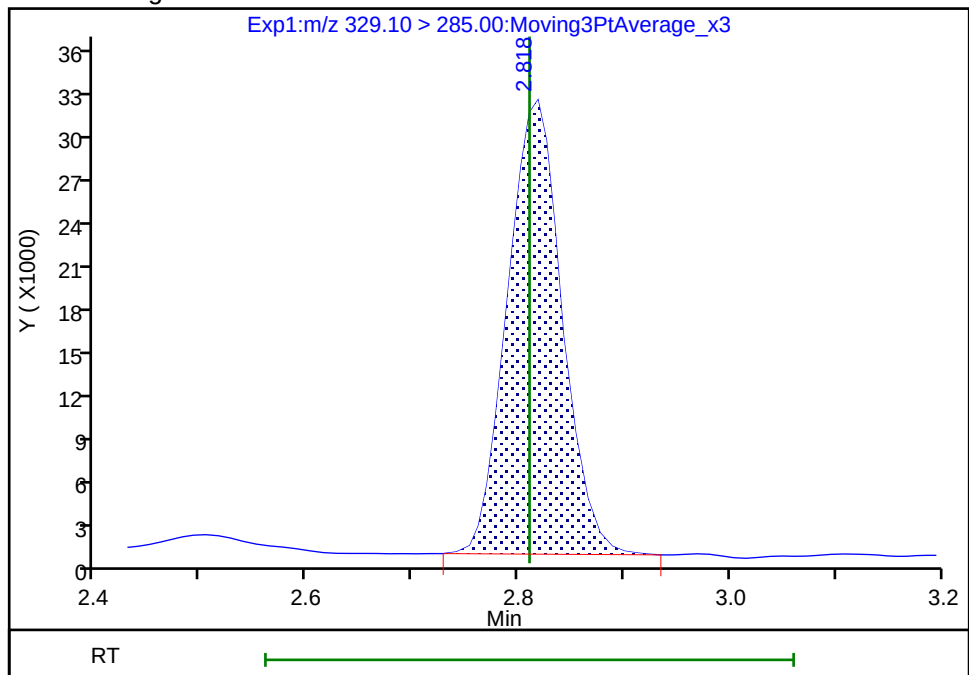
RT: 2.82
Area: 114172
Amount: 0.947722
Amount Units: ng/ml

Processing Integration Results



RT: 2.82
Area: 110187
Amount: 0.914643
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:13:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

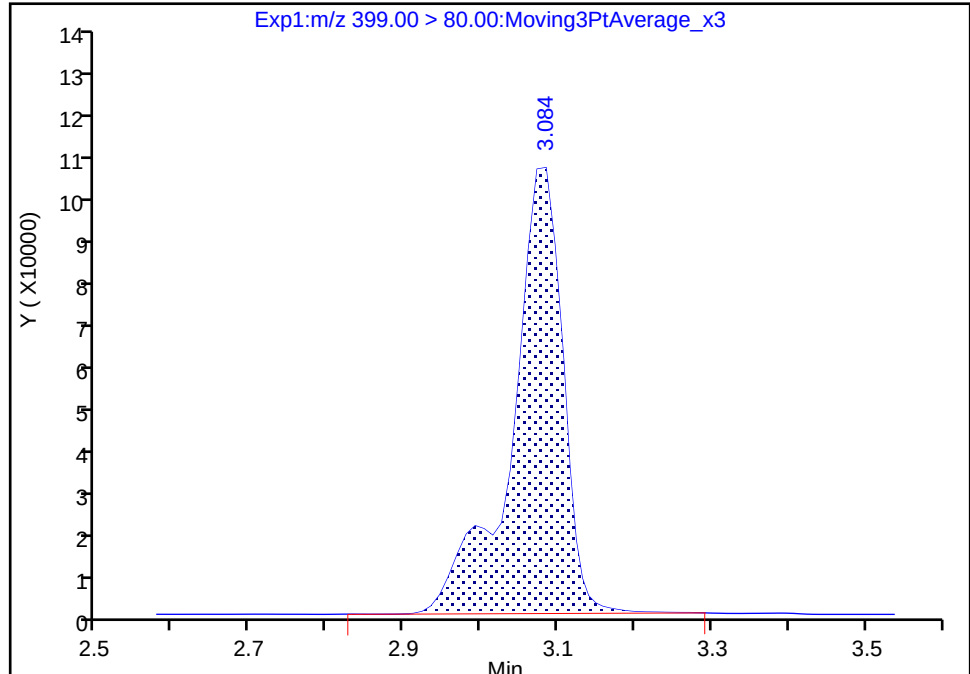
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d
Injection Date: 24-Sep-2020 16:13:38 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

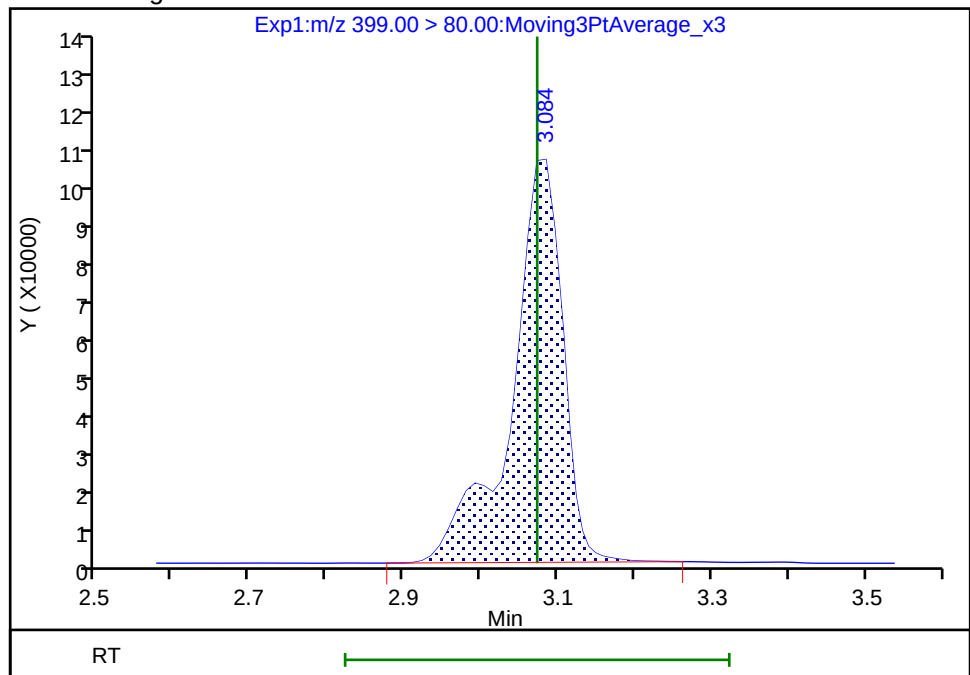
RT: 3.08
Area: 469021
Amount: 0.856260
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 467949
Amount: 0.854303
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:13:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

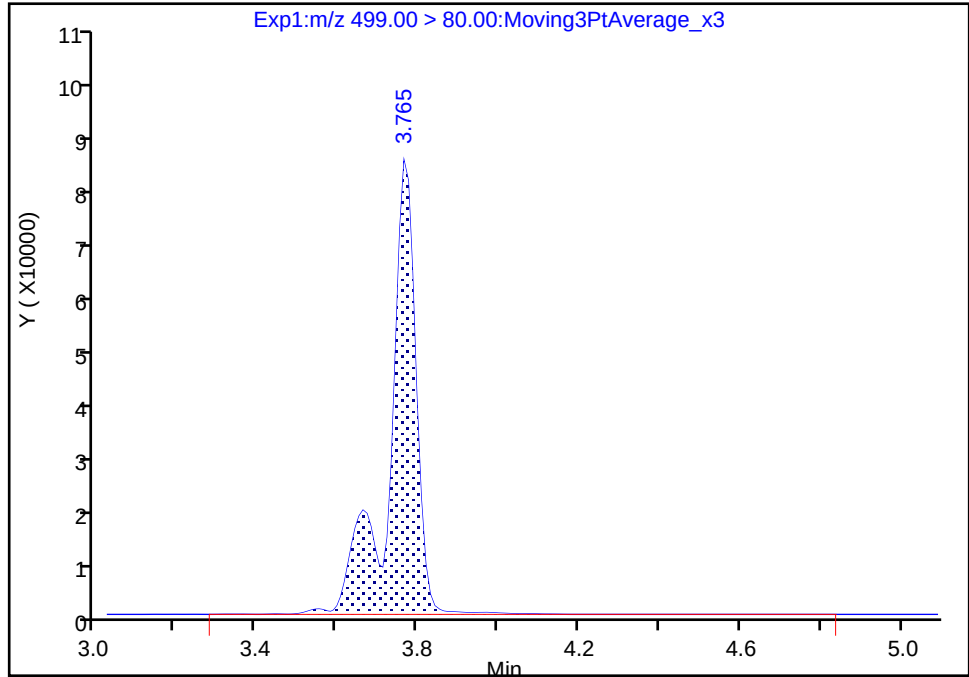
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d
Injection Date: 24-Sep-2020 16:13:38 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

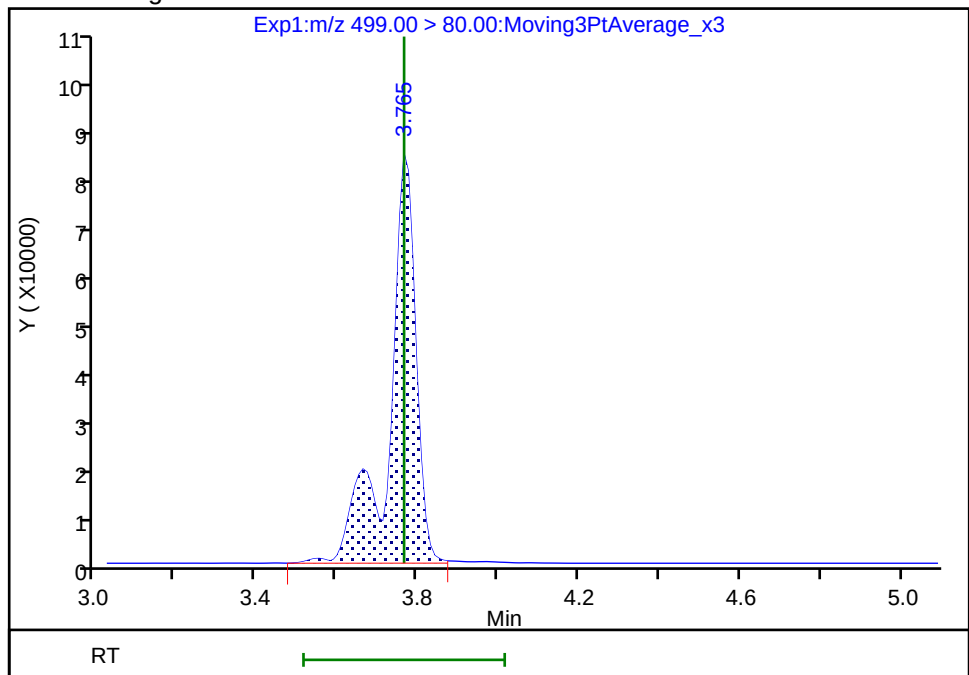
RT: 3.77
Area: 379305
Amount: 0.912557
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 375363
Amount: 0.903073
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 08:43:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

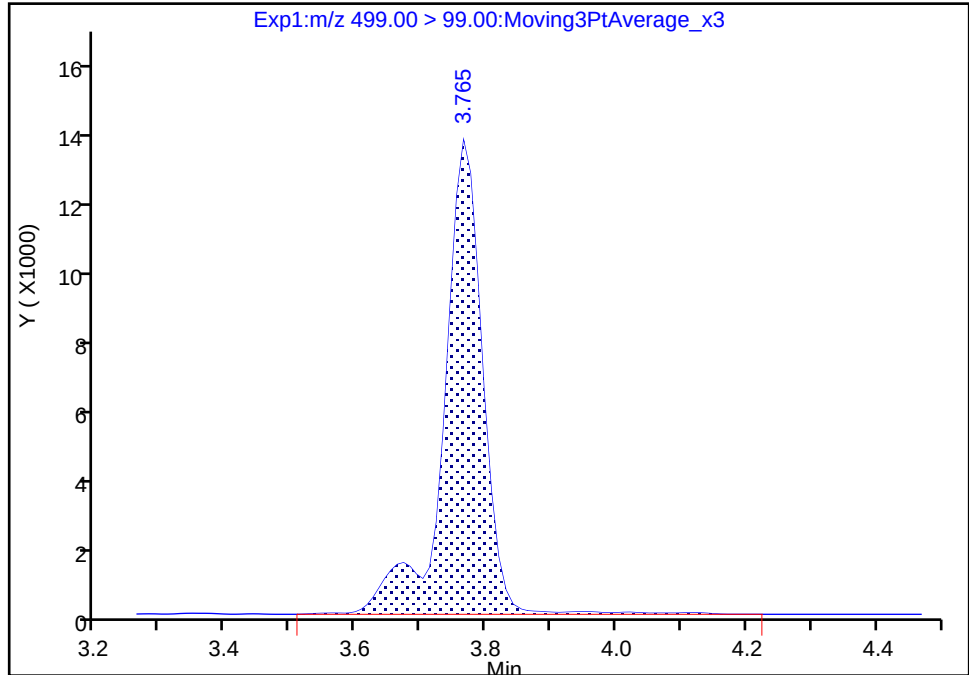
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B01.d
Injection Date: 24-Sep-2020 16:13:38 Instrument ID: LC812
Lims ID: CCV L4
Client ID:
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

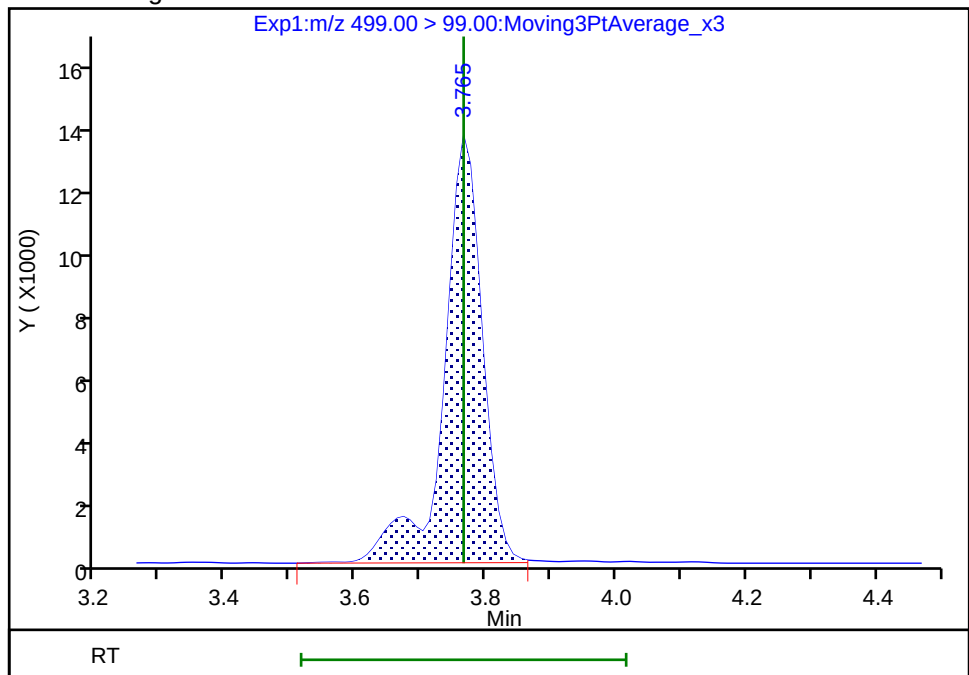
RT: 3.77
Area: 55098
Amount: 0.912557
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 54085
Amount: 0.903073
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 08:43:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Lab Sample ID: CCV 200-159169/16 Calibration Date: 09/24/2020 18:18

Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30

GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11

Lab File ID: PA200924B16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluorobutanoic acid (PFBA)	AveID	0.9347	0.8523		2.28	2.50	-8.8	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	1.019		2.41	2.50	-3.5	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.016		2.25	2.21	1.9	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.625		2.35	2.34	0.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	0.995		2.47	2.50	-1.1	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.162		2.30	2.35	-1.9	50.0
HFPO-DA	AveID	2.128	1.639		1.93	2.50	-23.0	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.055		2.17	2.28	-4.5	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.996		2.48	2.50	-0.6	40.0
DONA	AveID	3.081	3.031		2.32	2.36	-1.6	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.121		2.30	2.38	-3.2	50.0
6:2 FTS	AveID	0.7981	0.7808		2.32	2.37	-2.2	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	0.996		2.41	2.50	-3.5	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	0.9899		2.11	2.32	-8.9	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	1.005		2.47	2.50	-1.3	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.8930		2.18	2.33	-6.6	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8023		2.24	2.40	-6.6	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.9870		2.49	2.50	-0.2	40.0
8:2 FTS	AveID	0.3958	0.3798		2.30	2.40	-4.1	40.0
Perfluorooctanesulfonamide (FOSA)	AveID	0.9348	0.9500		2.54	2.50	1.6	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9523		2.52	2.50	0.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6644		2.23	2.41	-7.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	1.002		2.54	2.50	1.6	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.7899		2.16	2.50	-13.7	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7320		2.09	2.36	-11.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.8689		2.23	2.50	-10.9	40.0
10:2 FTS	AveID	0.2199	0.1696		1.86	2.41	-22.9	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.1905		2.00	2.42	-17.4	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.7876		2.38	2.50	-4.9	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2305		2.52	2.50	0.6	40.0

FORM VII
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Lab Sample ID: CCV 200-159169/16 Calibration Date: 09/24/2020 18:18
 Instrument ID: LC812 Calib Start Date: 09/22/2020 19:30
 GC Column: C-18 ID: 4.60 (mm) Calib End Date: 09/22/2020 20:11
 Lab File ID: PA200924B16.d Conc. Units: ng/mL

ANALYTE	CURVE TYPE	AVE RRF	RRF	MIN RRF	CALC AMOUNT	SPIKE AMOUNT	%D	MAX %D
Perfluoro-n-hexadecanoic acid (PFHxDA)	L2ID		0.8909		2.54	2.50	1.6	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.7286		2.44	2.50	-2.5	50.0
13C4 PFBA	Ave	1.433	1.443		1.26	1.25	0.7	50.0
13C5 PFPeA	Ave	1.027	0.997		1.21	1.25	-2.9	50.0
13C3 PFBS	Ave	1.251	1.155		1.07	1.16	-7.7	50.0
M2-4:2 FTS	Ave	0.0939	0.0898		1.12	1.17	-4.4	50.0
13C2 PFHxA	Ave	1.058	1.068		1.26	1.25	1.0	50.0
13C3 HFPO-DA	Ave	0.0985	0.1112		1.41	1.25	12.9	50.0
18O2 PFHxS	Ave	0.8974	0.8778		1.16	1.18	-2.2	50.0
13C4 PFHpA	Ave	0.9620	0.9540		1.24	1.25	-0.8	50.0
M2-6:2 FTS	Ave	0.1199	0.1121		1.11	1.19	-6.5	50.0
13C4 PFOA	Ave	0.9845	0.9360		1.19	1.25	-4.9	50.0
13C4 PFOS	Ave	0.7341	0.7303		1.19	1.20	-0.5	50.0
13C5 PFNA	Ave	0.8296	0.7778		1.17	1.25	-6.2	50.0
13C2 PFDA	Ave	0.7956	0.7678		1.21	1.25	-3.5	50.0
M2-8:2 FTS	Ave	0.1413	0.1409		1.19	1.20	-0.2	50.0
13C8 FOSA	Ave	1.282	1.173		1.14	1.25	-8.5	50.0
d3-NMeFOSAA	Ave	0.0453	0.0411		1.14	1.25	-9.2	50.0
13C2 PFUnA	Ave	0.6006	0.5390		1.12	1.25	-10.3	50.0
d5-NEtFOSAA	Ave	0.0487	0.0478		1.23	1.25	-1.9	50.0
13C2 PFDoA	Ave	0.6348	0.5890		1.16	1.25	-7.2	50.0
13C2 PFTeDA	Ave	0.4522	0.4073		1.13	1.25	-9.9	50.0
13C2 PFHxDA	Ave	0.5124	0.4391		1.07	1.25	-14.3	50.0

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
 Lims ID: CCV L5
 Client ID:
 Sample Type: CCV
 Inject. Date: 24-Sep-2020 18:18:08 ALS Bottle#: 16 Worklist Smp#: 16
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: CCV L5
 Misc. Info.: 200-0042936-016 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Sublist: chrom-PFC_LC812*sub3
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:43 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 09:07:02

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags

D 1 13C4 PFBA

217.00 > 172.00 1.990 1.981 0.009 0.577 1159192 1.26 101 4762

2 Perfluorobutanoic acid

212.90 > 169.00 1.990 1.990 0.0 1.000 1975938 2.28 91.2 275 M

D 3 13C5 PFPeA

267.90 > 223.00 2.326 2.326 0.0 0.674 801166 1.21 97.1 3741

4 Perfluoropentanoic acid

262.90 > 219.00 2.326 2.326 0.0 1.000 1633376 2.41 96.5 87.5

D 47 13C3 PFBS

301.90 > 80.00 2.353 2.339 0.014 0.682 862820 1.07 92.3 126985 M

5 Perfluorobutanesulfonic acid

298.90 > 80.00 2.353 2.339 0.014 1.000 1665790 2.25 Target=2.07 102 3647

298.90 > 99.00 2.353 2.339 0.014 1.000 821999 2.03(1.04-3.11) 845

61 1H,1H,2H,2H-perfluorohexanesulfo

327.00 > 307.00 2.665 2.653 0.012 1.000 219047 2.35 101 1742

D 60 M2-4:2 FTS

329.00 > 81.00 2.665 2.653 0.012 0.773 67393 1.12 95.6 171 M

D 7 13C2 PFHxA

315.00 > 270.00 2.703 2.691 0.012 0.784 857783 1.26 101 3237

6 Perfluorohexanoic acid

313.00 > 269.00 2.703 2.691 0.012 1.000 1707709 2.47 Target=12.44 98.9 635

313.00 > 119.00 2.703 2.691 0.012 1.000 140729 12.13(6.22-18.66) 505

70 Perfluoropentanesulfonic acid

349.00 > 80.00 2.703 2.703 0.0 0.880 1536807 2.30 Target=3.64 98.1 3027

349.00 > 99.00 2.703 2.703 0.0 0.880 459021 3.35(1.82-5.46) 1329

D 64 13C3 HFPO-DA

332.10 > 287.00 2.810 2.810 0.0 0.815 89344 1.41 113 1335

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.810	2.810	0.0	1.000	292833	1.93		77.0	69.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	667022	1.16		97.8	1694	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	1353771	2.17	Target=4.60	95.5	1281	M
399.00 > 99.00	3.073	3.073	0.0	1.000	296183		4.57(2.30-6.91)		699	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.073	0.011	0.894	766316	1.24		99.2	5287	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.000	1525826	2.48	Target=3.34	99.4	770	
363.00 > 169.00	3.084	3.084	0.0	1.000	463897		3.29(1.67-5.01)		1975	
77 DONA										
377.00 > 251.00	3.123	3.115	0.008	0.830	3349778	2.32	Target=2.44	98.4	6439	
377.00 > 85.00	3.115	3.115	0.0	0.827	1396296		2.40(1.22-3.67)		2899	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.432	3.433	-0.001	0.912	1252090	2.30	Target=7.08	96.8	4960	
449.00 > 99.00	3.432	3.433	-0.001	0.912	182952		6.84(3.54-10.63)		1108	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.008	1.000	133298	2.32		97.8	1246	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.441	0.0	0.997	85536	1.11		93.5	718	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	751879	1.19		95.1	4198	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.441	0.009		803272	1.25			3326	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.450	3.450	0.0	1.000	1498258	2.41	Target=2.29	96.5	564	
413.00 > 169.00	3.450	3.450	0.0	1.000	685359		2.19(1.14-3.43)		1585	
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	560804	1.19		99.5	1938	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	1077756	2.11	Target=7.10	91.1	928	M
499.00 > 99.00	3.765	3.765	0.0	1.000	158472		6.80(3.55-10.64)		950	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.786	0.0	1.098	624762	1.17		93.8	2331	
20 Perfluorononanoic acid										
463.00 > 419.00	3.786	3.786	0.0	1.000	1256077	2.47	Target=5.83	98.7	561	
463.00 > 169.00	3.786	3.786	0.0	1.000	212652		5.91(2.91-8.74)		1964	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	976404	2.18		93.4	2578	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.051	4.052	-0.001	1.076	903652	2.24	Target=3.38	93.4	5366	
549.00 > 99.00	4.051	4.052	-0.001	1.076	249063		3.63(1.69-5.08)		1179	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.082	4.082	0.0	1.000	1217498	2.49	Target=6.81	99.8	1551	
513.00 > 169.00	4.082	4.082	0.0	1.000	170777		7.13(3.41-10.22)		1195	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.082	0.0	1.183	616736	1.21		96.5	3181	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.092	0.0	1.000	82366	2.30		95.9	1766	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	108435	1.19		99.8	883	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	942255	1.14		91.5	3275	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.139	0.0	1.000	1790361	2.54		102	1475	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.224	0.0	1.224	33053	1.14		90.8	92.5	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.224	4.224	0.0	1.000	62956	2.52		101	514	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.309	4.321	-0.012	1.144	751401	2.23	Target=3.31	92.5	2910	
599.00 > 99.00	4.309	4.321	-0.012	1.144	234807		3.20(1.66-4.97)		2285	
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	432971	1.12		89.7	2697	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.343	0.0	1.000	868006	2.54	Target=6.57	102	1148	
563.00 > 169.00	4.343	4.343	0.0	1.000	135664		6.40(3.28-9.85)		1713	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	38375	1.23		98.1	750	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.366	-0.011	1.000	60628	2.16		86.3	625	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.177	808995	2.09		88.7	5587	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	473104	1.16		92.8	4210	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	822201	2.23	Target=5.16	89.1	1129	
613.00 > 169.00	4.573	4.573	0.0	1.000	171125		4.80(2.58-7.75)		2711	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.597	4.597	0.0	1.124	37022	1.86		77.1	976	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.745	4.745	0.0	1.260	216337	2.00	Target=0.45	82.6	889	
699.00 > 99.00	4.745	4.745	0.0	1.260	533550		0.41(0.22-0.67)		4895	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.781	4.790	-0.009	1.045	745201	2.38	Target=3.30	95.1	473	
663.00 > 169.00	4.781	4.790	-0.009	1.045	238392		3.13(1.65-4.95)		4820	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.978	0.0	1.443	327201	1.13		90.1	3184	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.978	4.978	0.0	1.000	150842	2.52	Target=1.06	101	2709	
713.00 > 219.00	4.978	4.978	0.0	1.000	147486		1.02(0.53-1.59)		2815	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.350	5.350	0.0	1.551	352751	1.07		85.7	3318	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.350	0.0	1.000	628537	2.54	Target=3.06	102	508	
813.00 > 169.00	5.350	5.350	0.0	1.000	210652		2.98(1.53-4.58)		2796	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.729	5.738	-0.009	1.071	514033	2.44	Target=2.82	97.5	469	
913.00 > 169.00	5.729	5.738	-0.009	1.071	193513		2.66(1.41-4.24)		1912	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Reagents:

PFAS32NCIC5_00011

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d

Injection Date: 24-Sep-2020 18:18:08

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 16

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

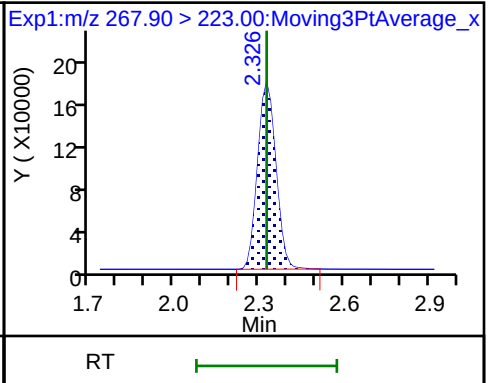
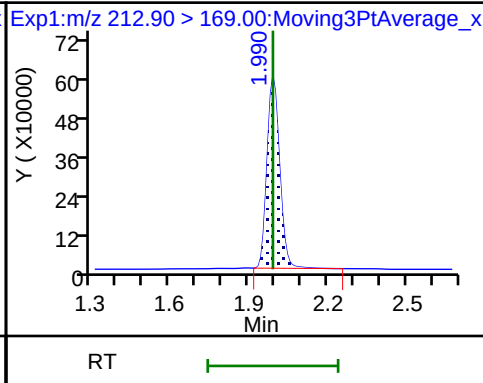
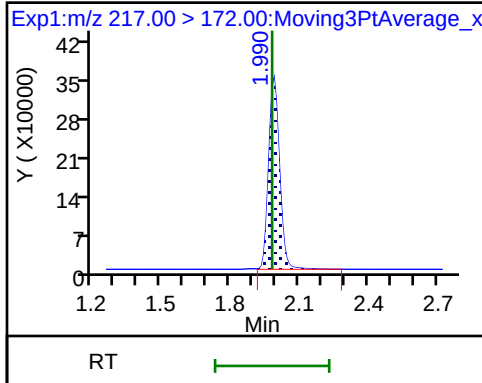
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

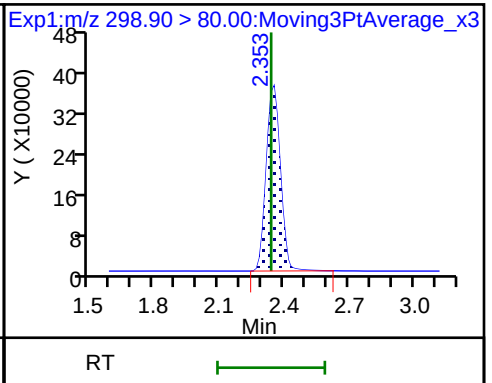
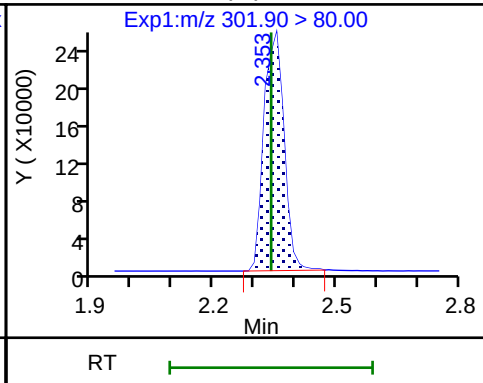
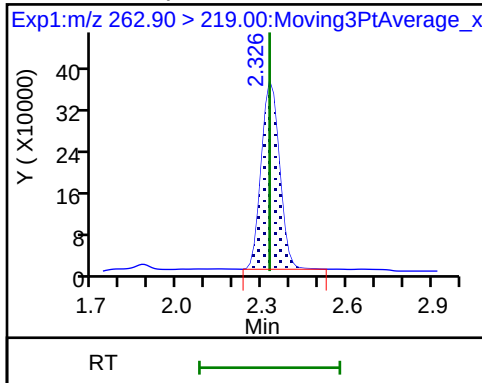
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

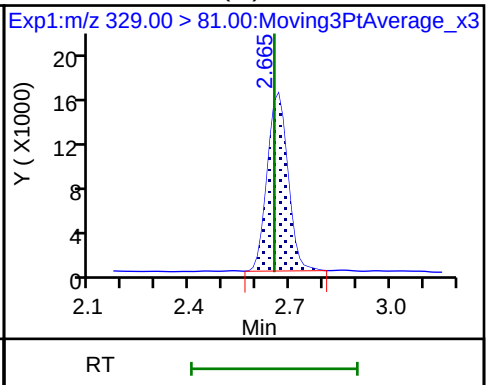
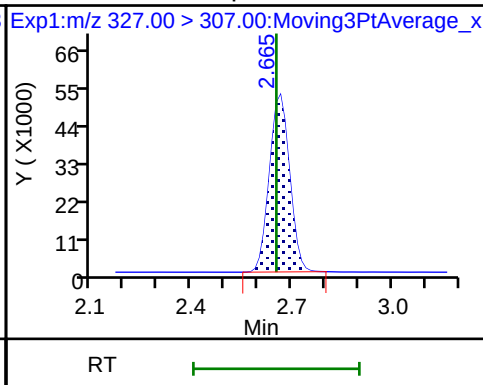
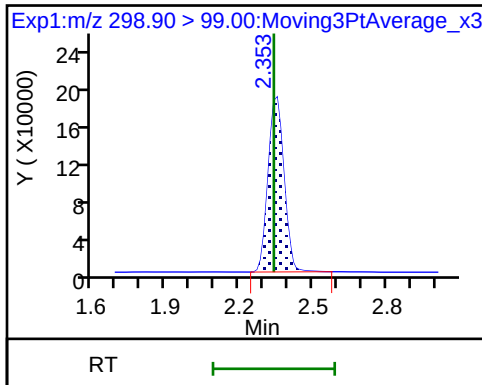
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo

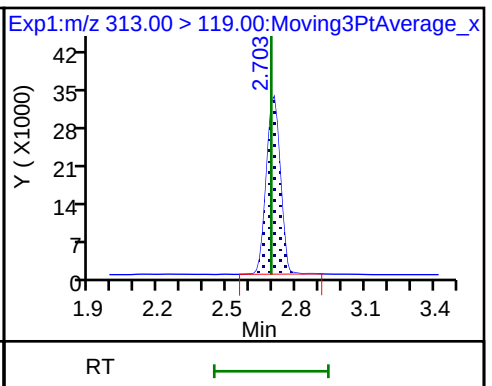
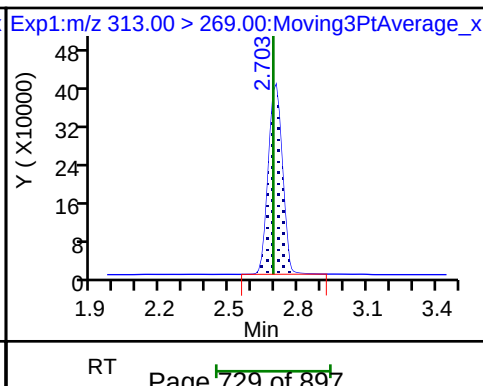
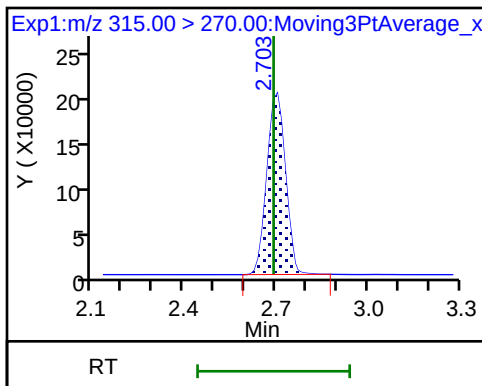
D 60 M2-4:2 FTS (M)

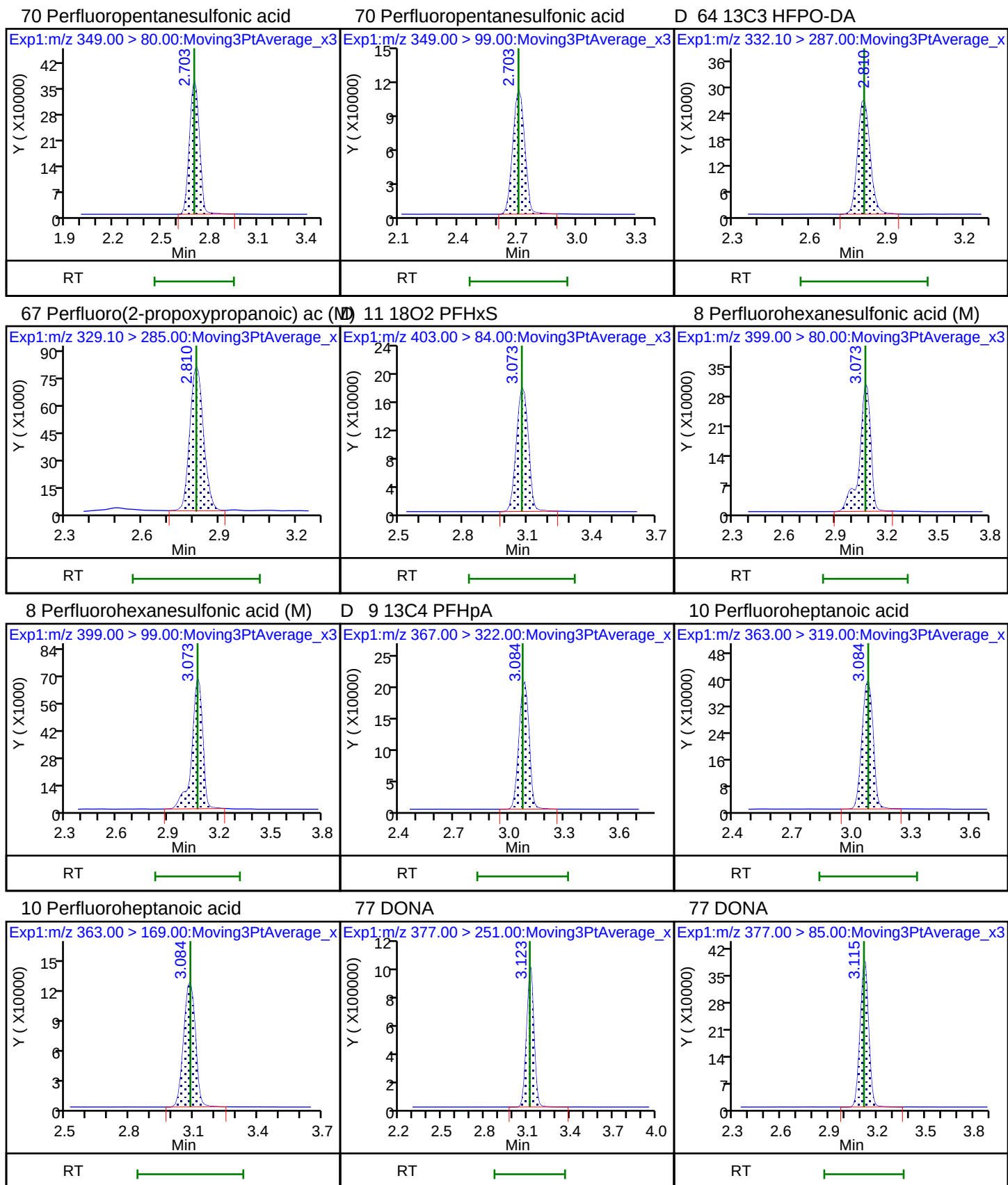


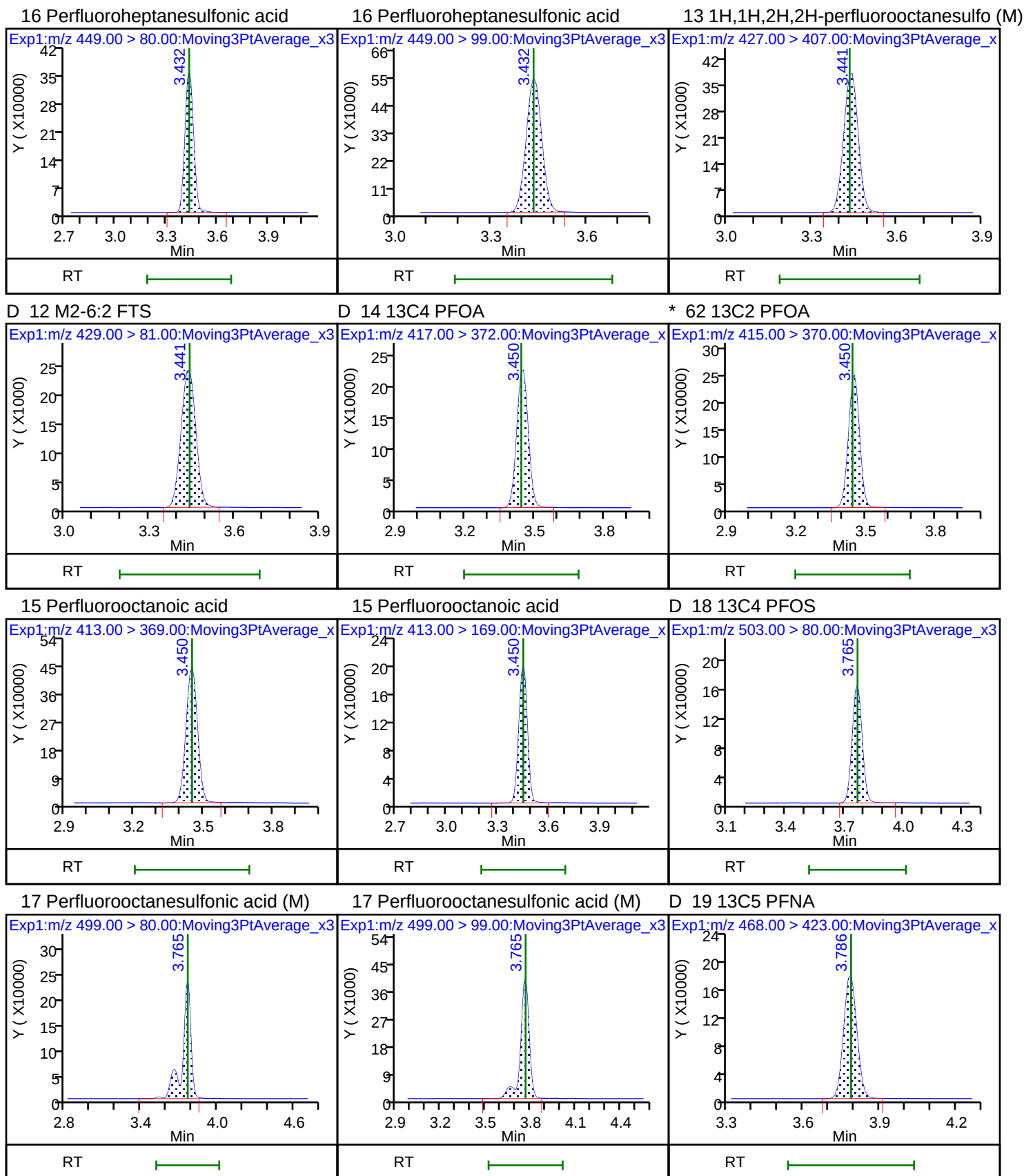
D 7 13C2 PFHxA

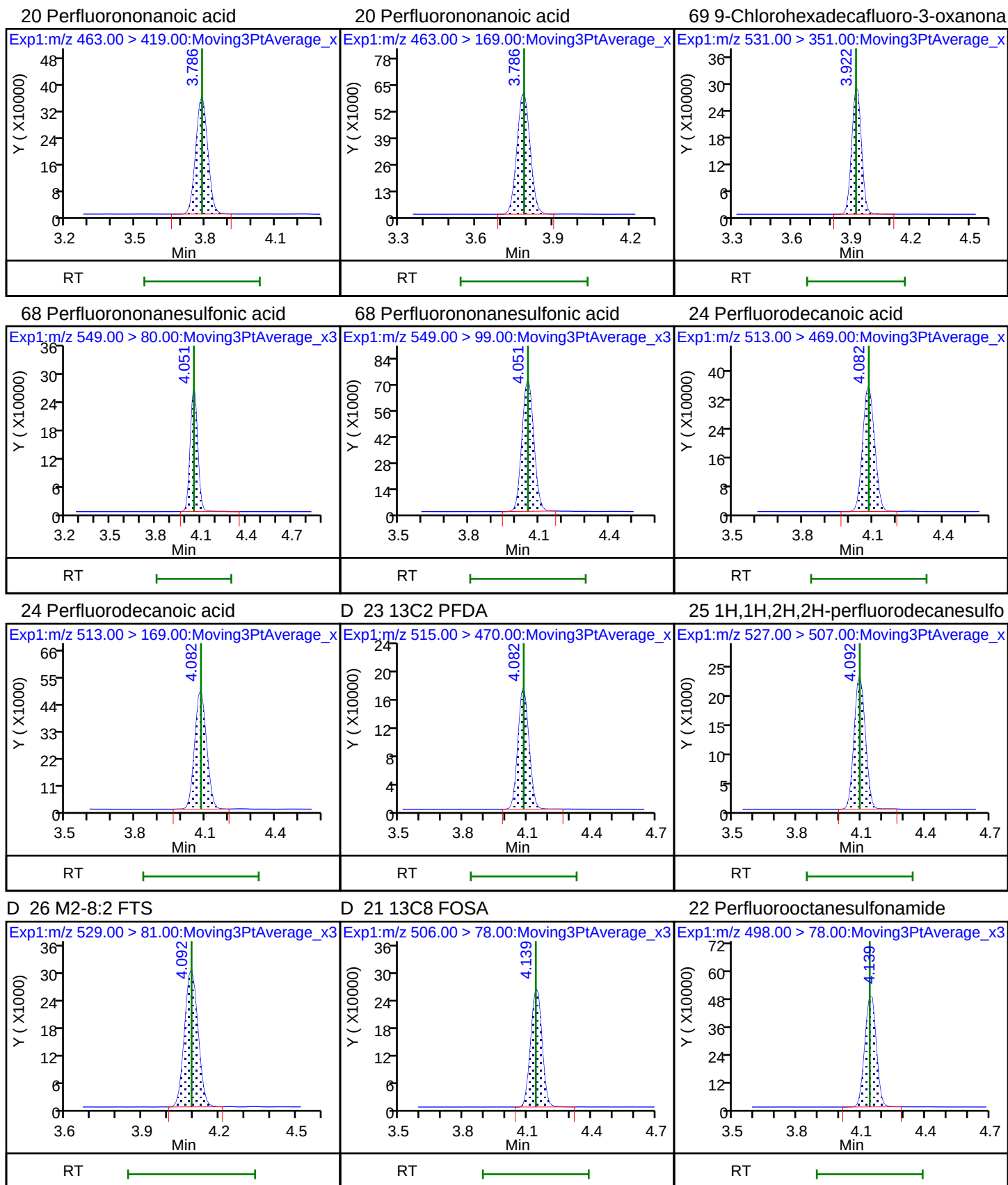
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid





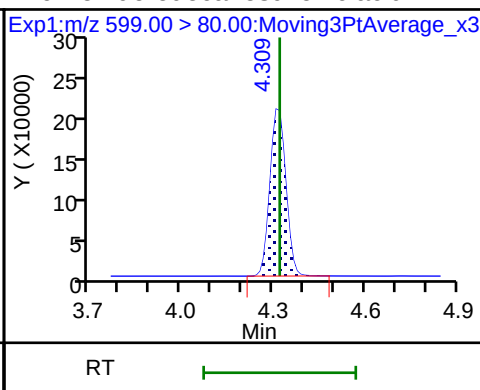
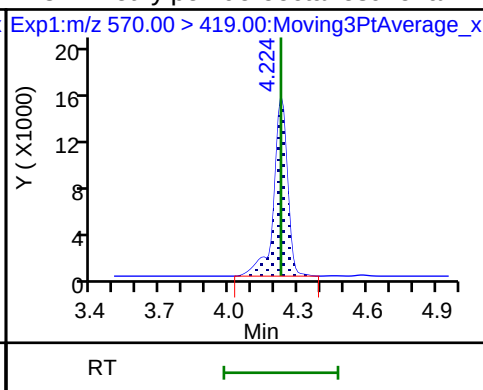
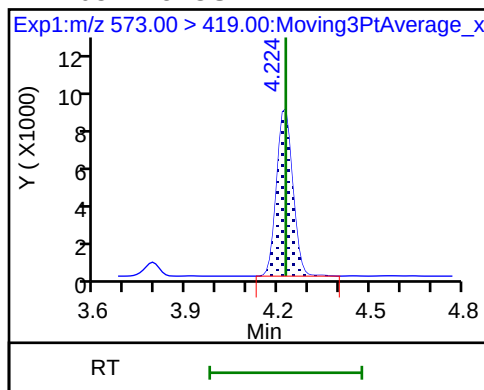




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

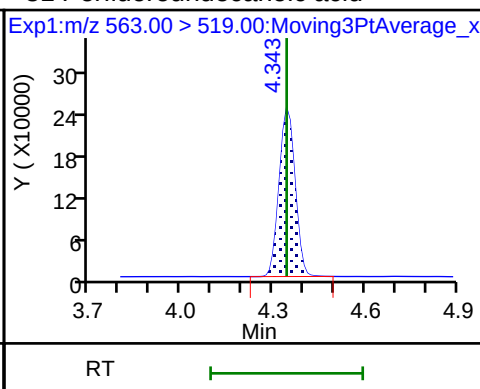
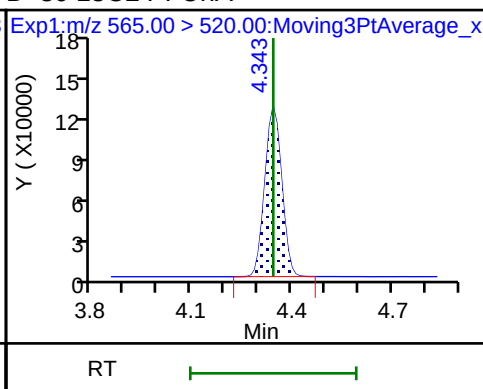
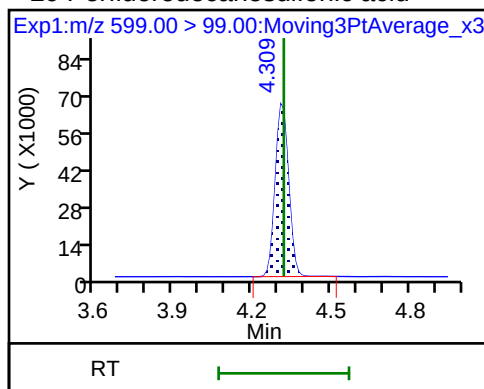
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

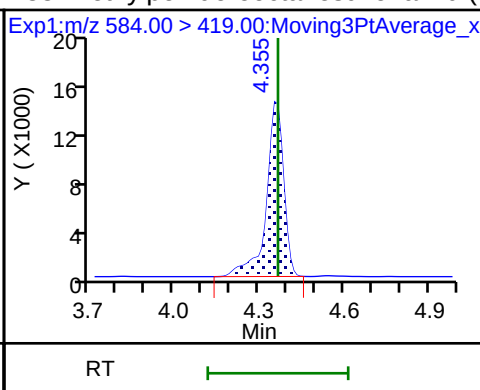
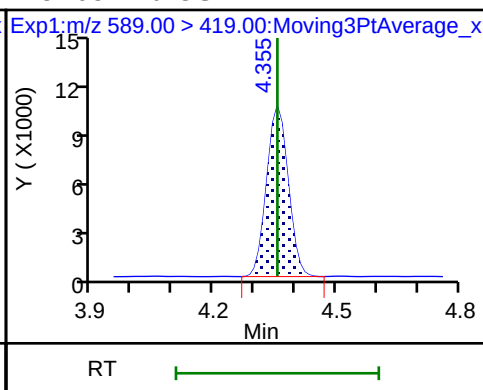
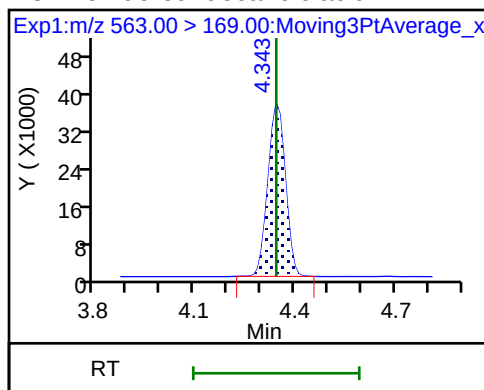
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

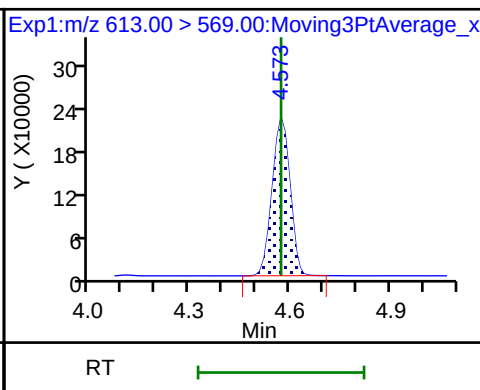
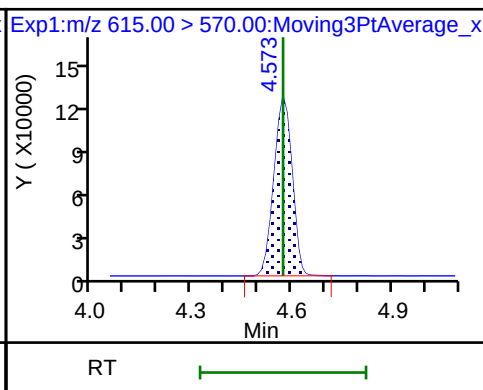
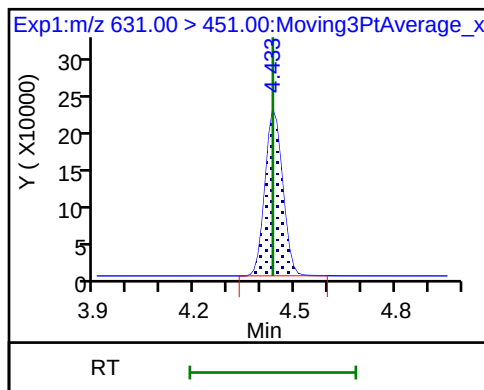
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

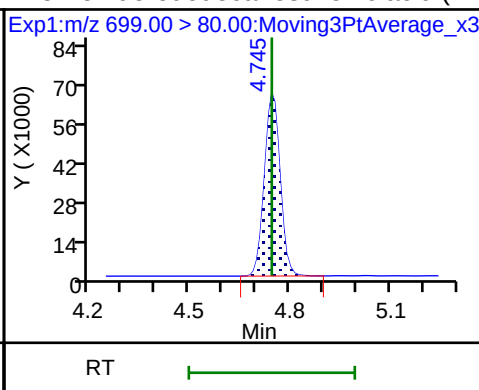
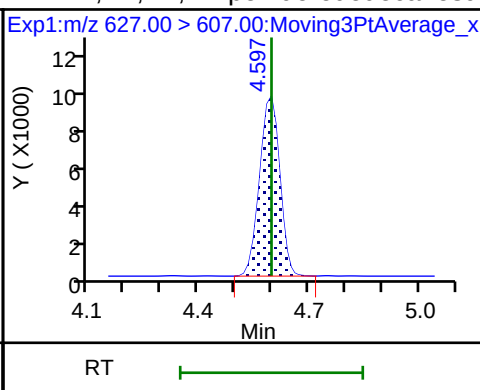
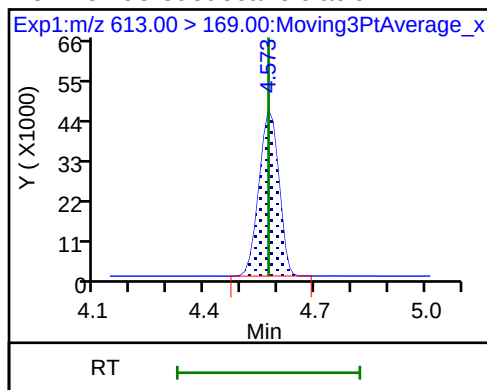
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

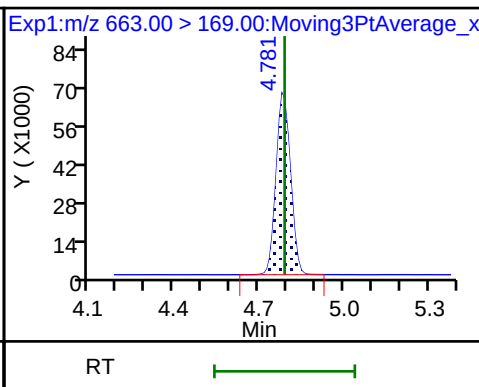
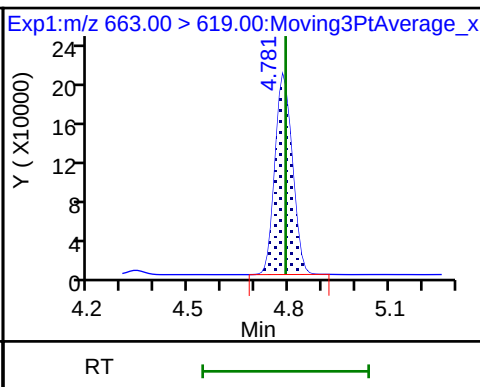
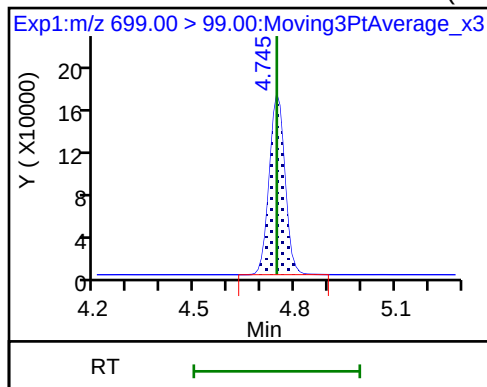
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

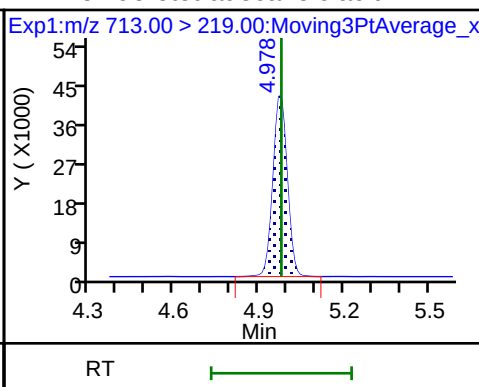
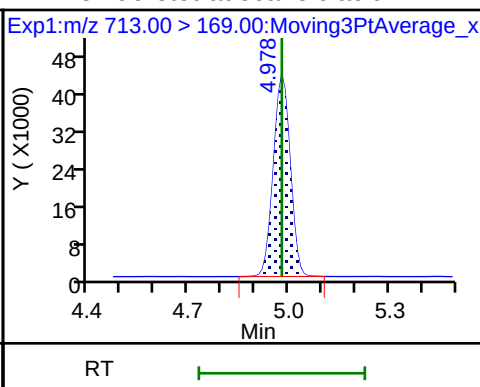
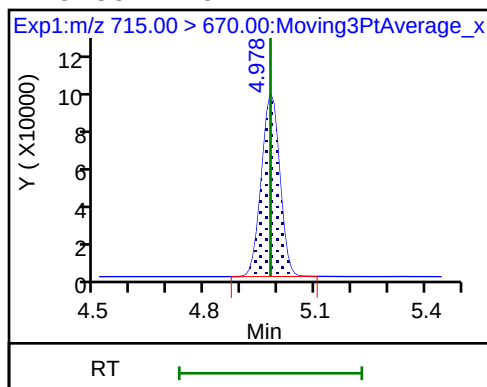
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

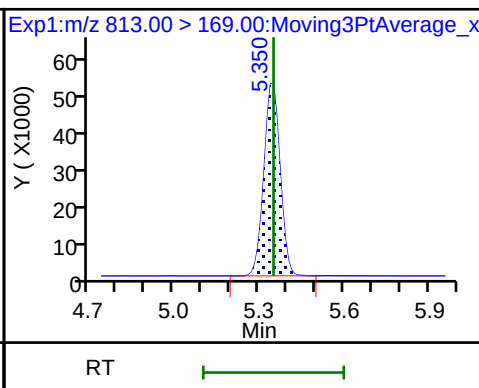
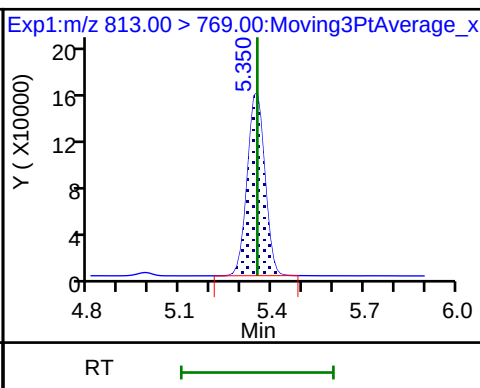
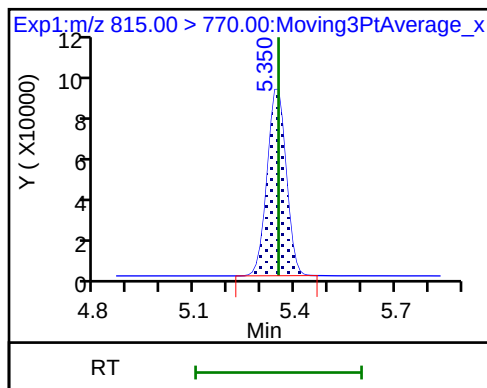
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

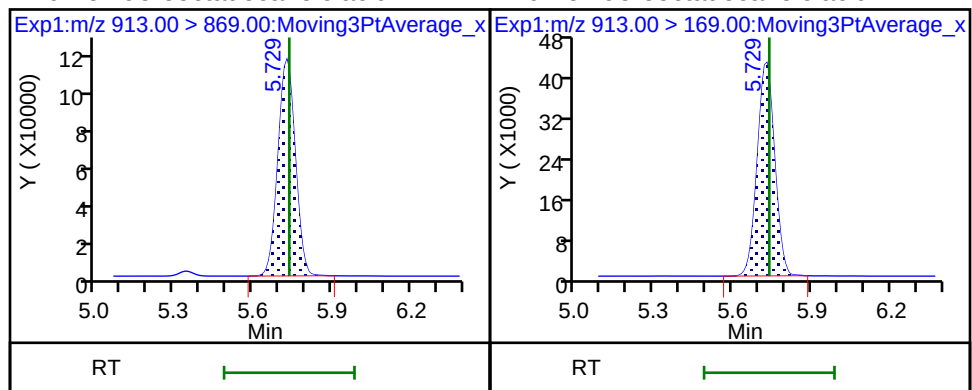
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

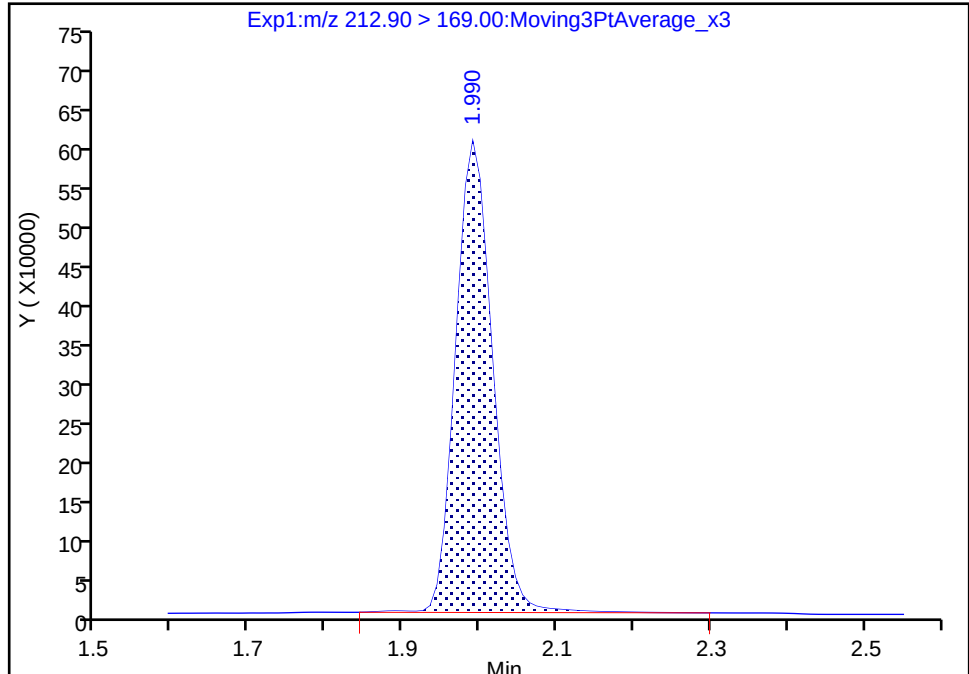
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
Injection Date: 24-Sep-2020 18:18:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

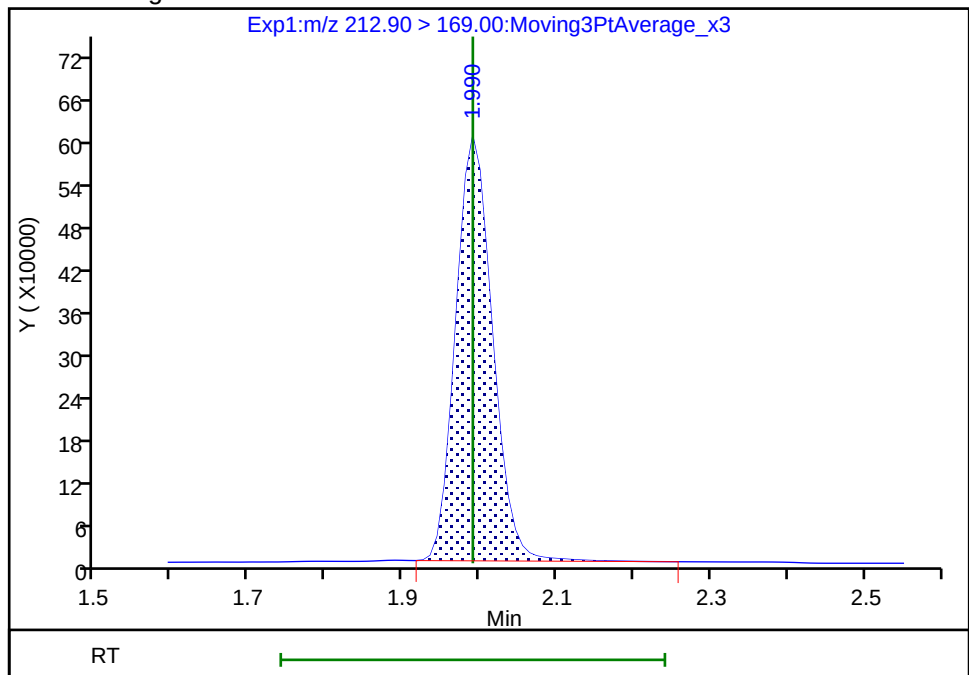
RT: 1.99
Area: 1994692
Amount: 2.301119
Amount Units: ng/ml

Processing Integration Results



RT: 1.99
Area: 1975938
Amount: 2.279484
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:05:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

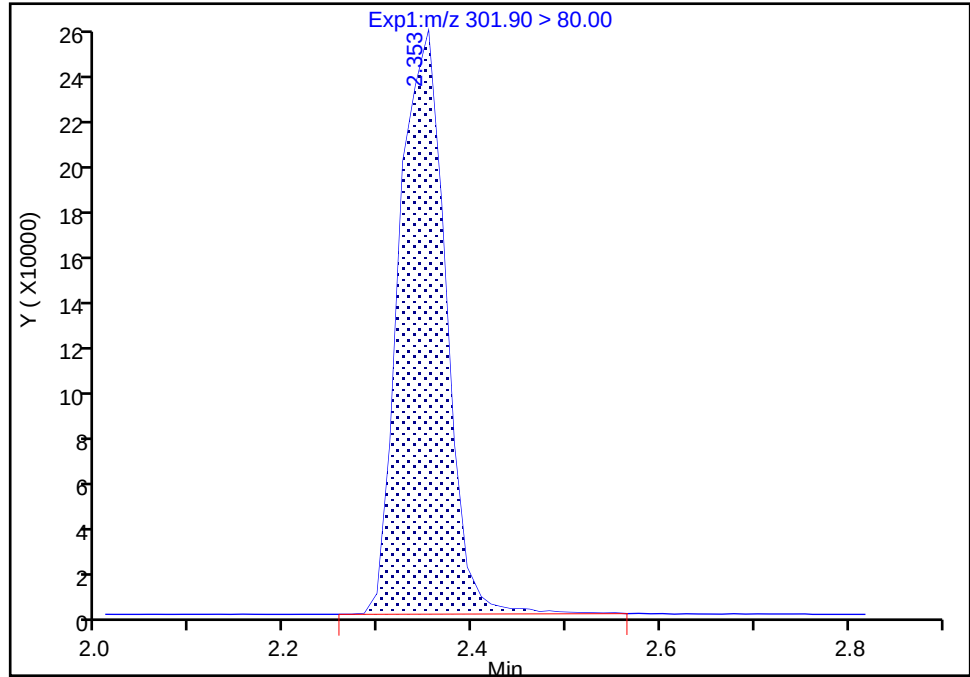
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
Injection Date: 24-Sep-2020 18:18:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

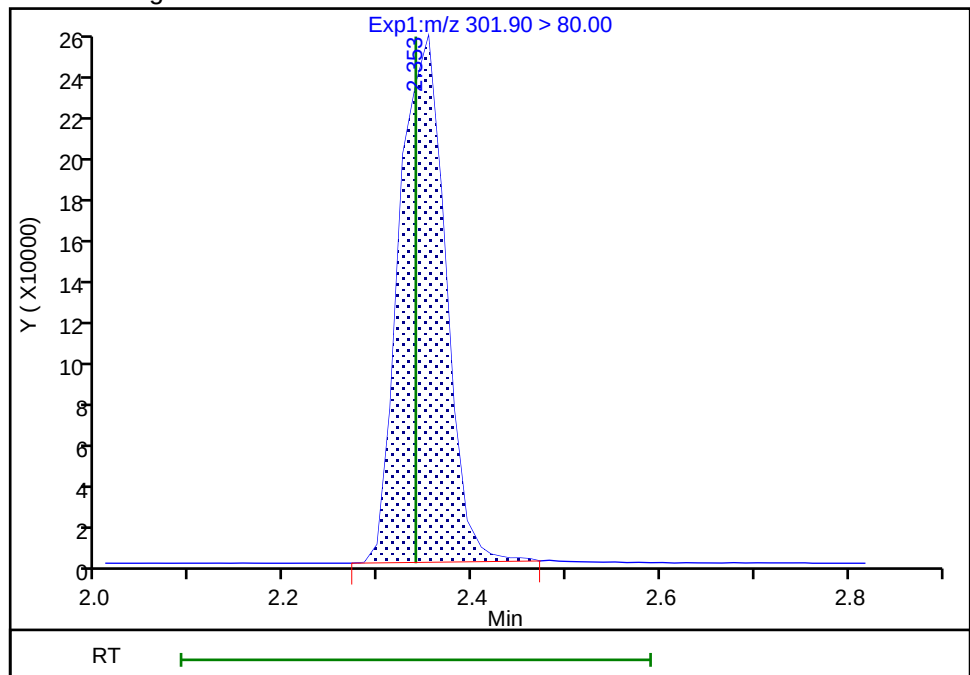
RT: 2.35
Area: 871061
Amount: 1.083784
Amount Units: ng/ml

Processing Integration Results



RT: 2.35
Area: 862820
Amount: 1.073531
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:05:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

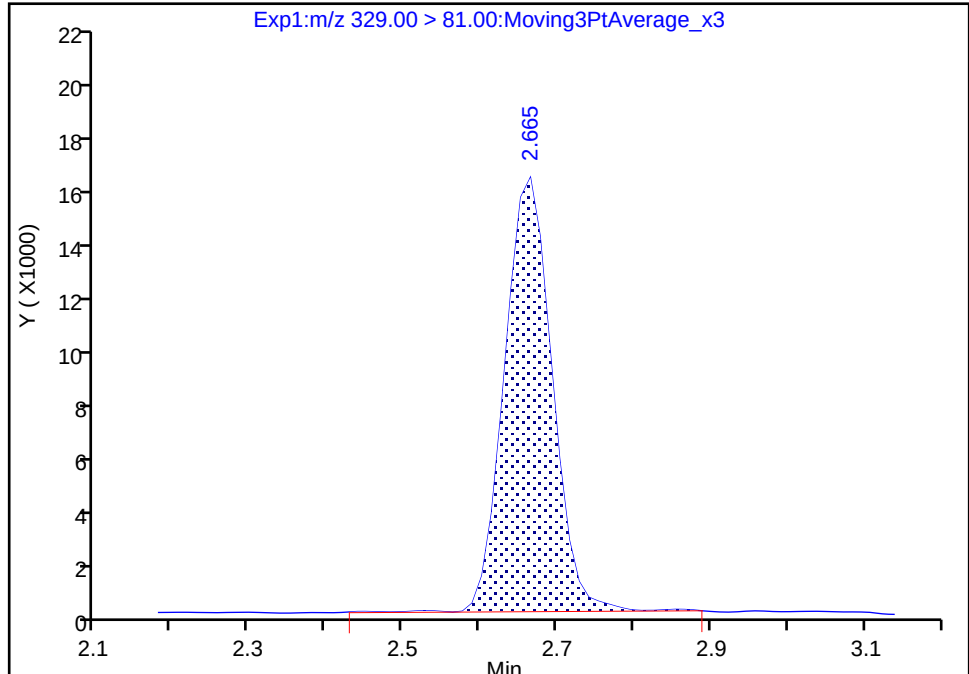
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
Injection Date: 24-Sep-2020 18:18:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

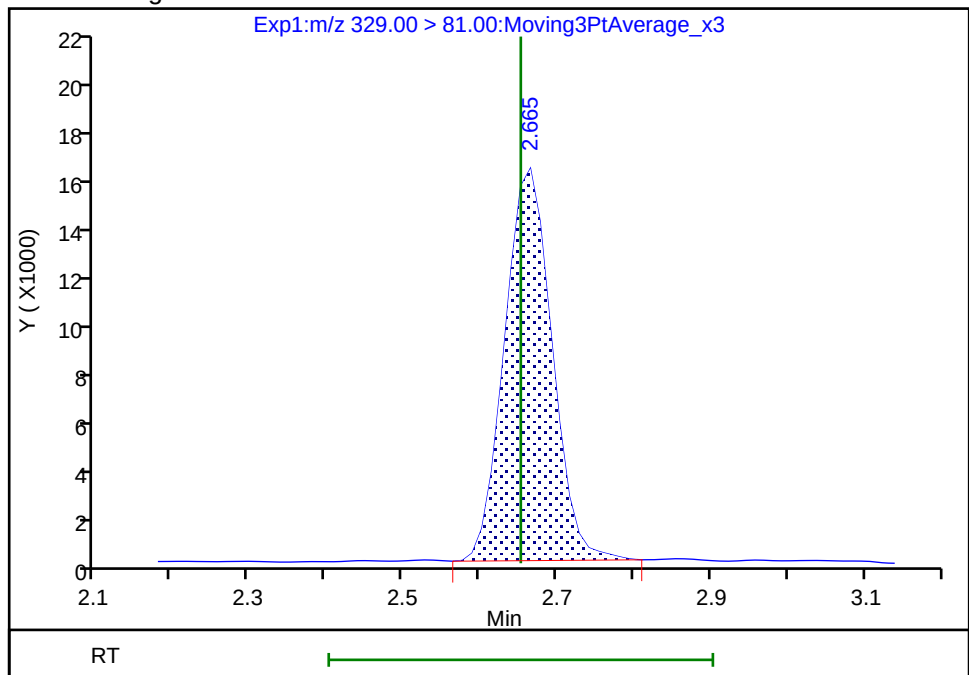
RT: 2.67
Area: 67951
Amount: 1.125552
Amount Units: ng/ml

Processing Integration Results



RT: 2.67
Area: 67393
Amount: 1.116309
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:05:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

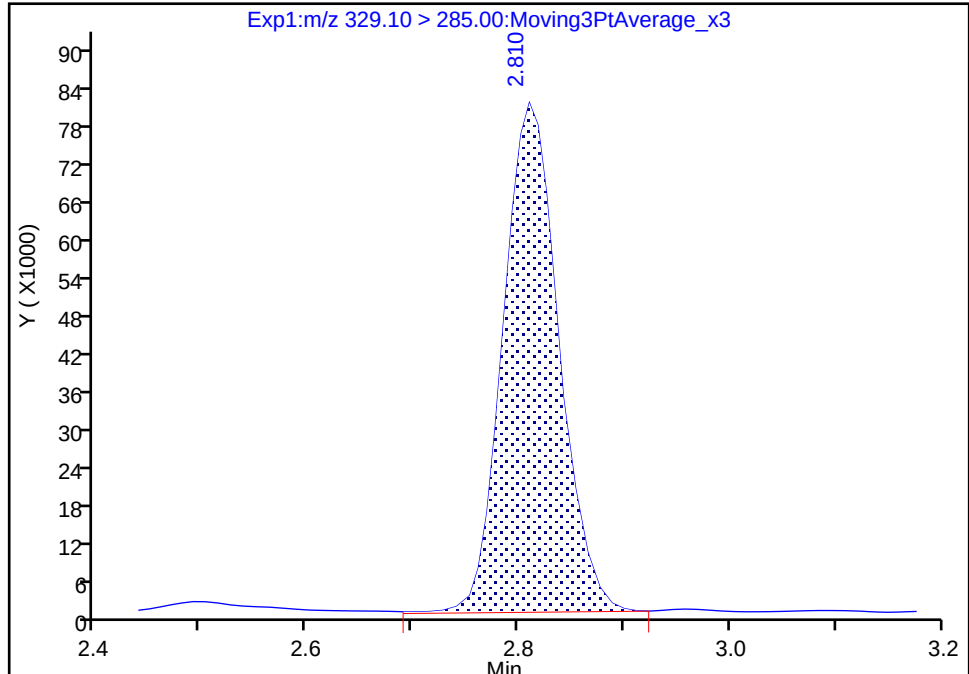
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
Injection Date: 24-Sep-2020 18:18:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

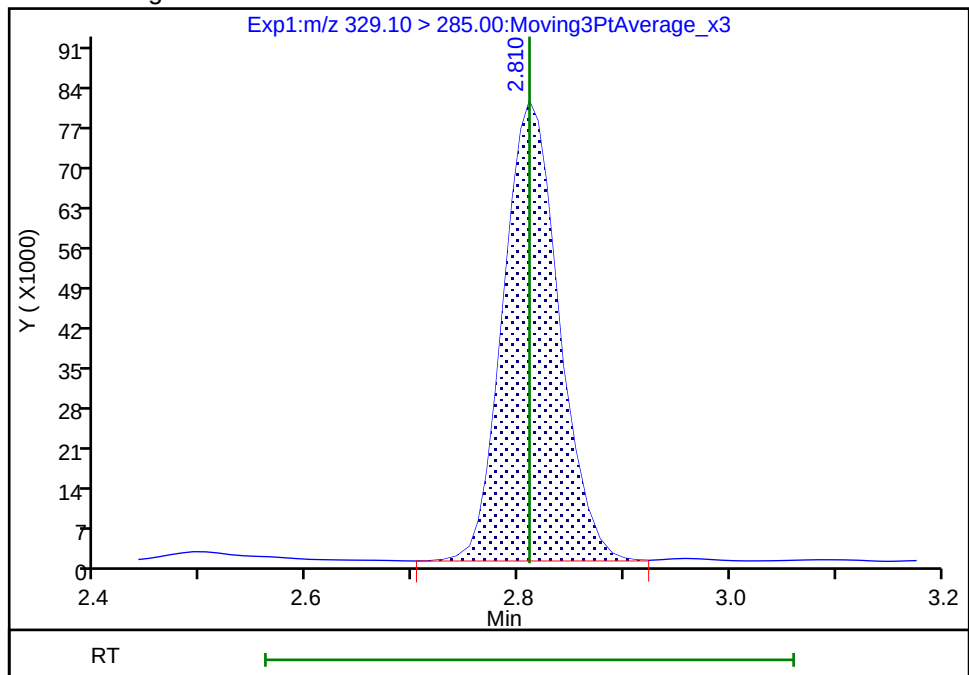
RT: 2.81
Area: 293850
Amount: 1.932133
Amount Units: ng/ml

Processing Integration Results



RT: 2.81
Area: 292833
Amount: 1.925446
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 08:45:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

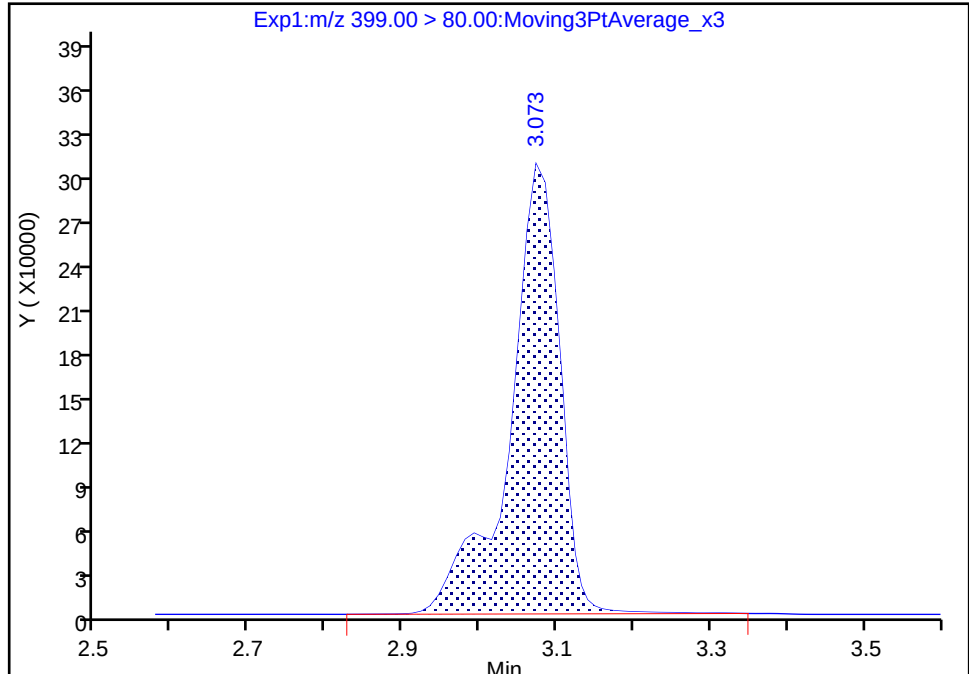
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
Injection Date: 24-Sep-2020 18:18:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

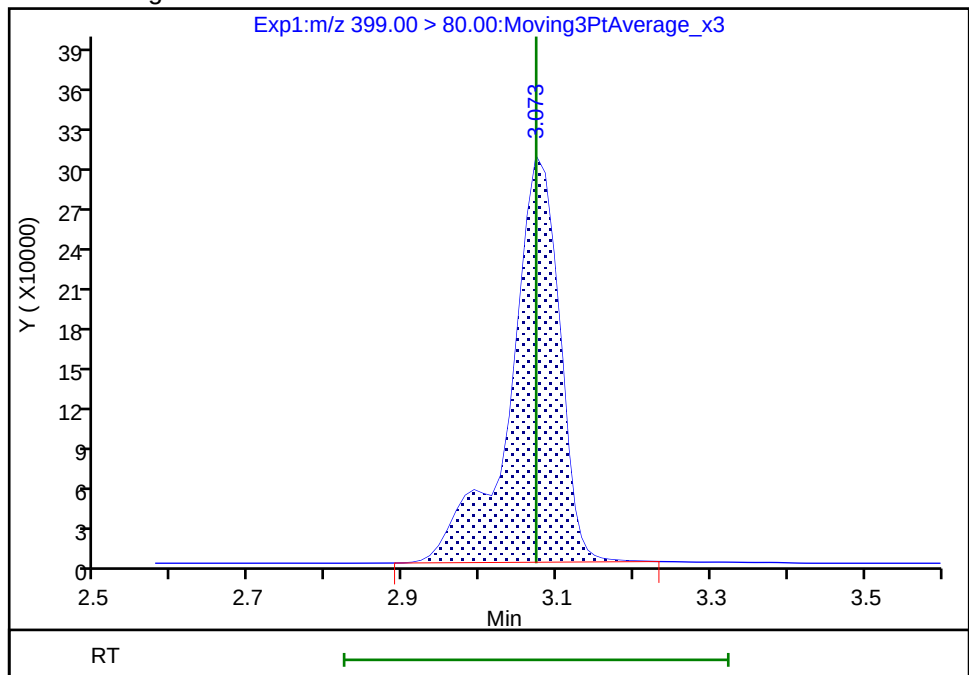
RT: 3.07
Area: 1365266
Amount: 2.191536
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 1353771
Amount: 2.173085
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:06:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d

Injection Date: 24-Sep-2020 18:18:08

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

16

Worklist Smp#: 16

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

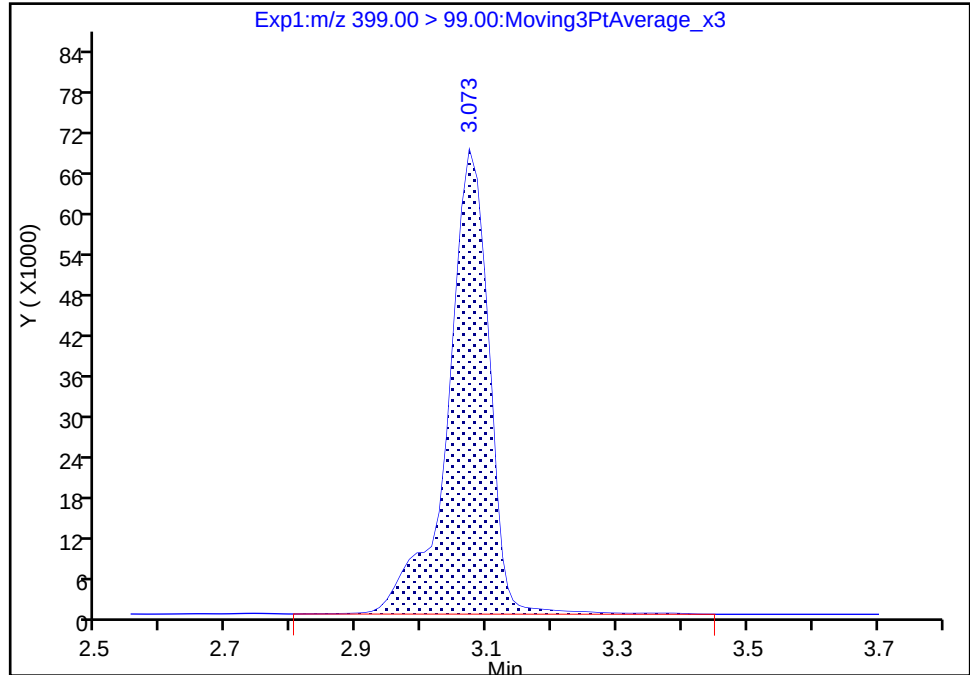
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

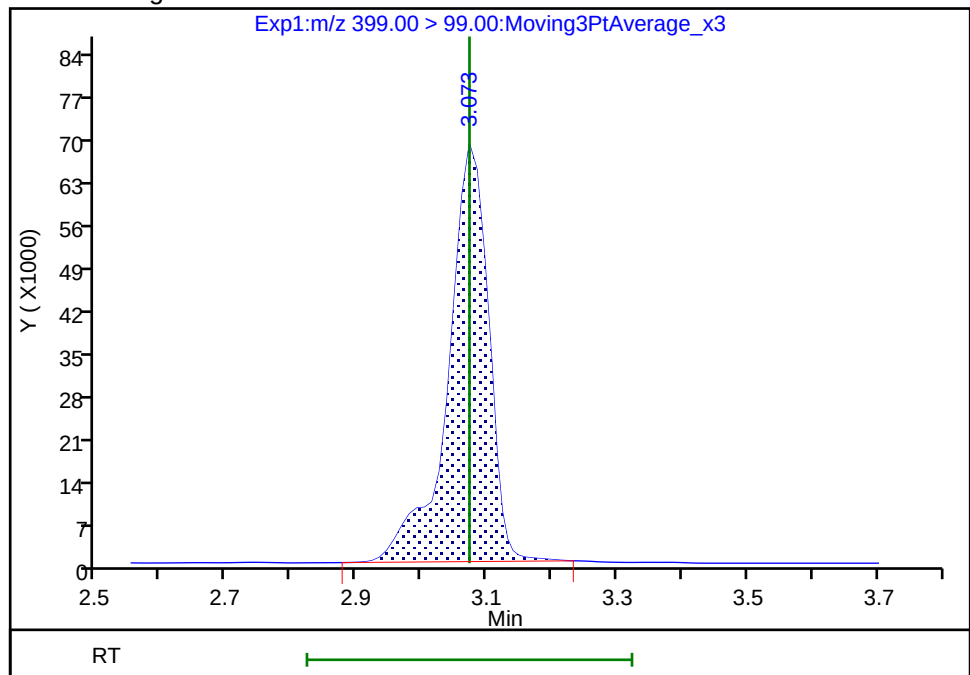
RT: 3.07
Area: 302795
Amount: 2.191536
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 296183
Amount: 2.173085
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:06:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

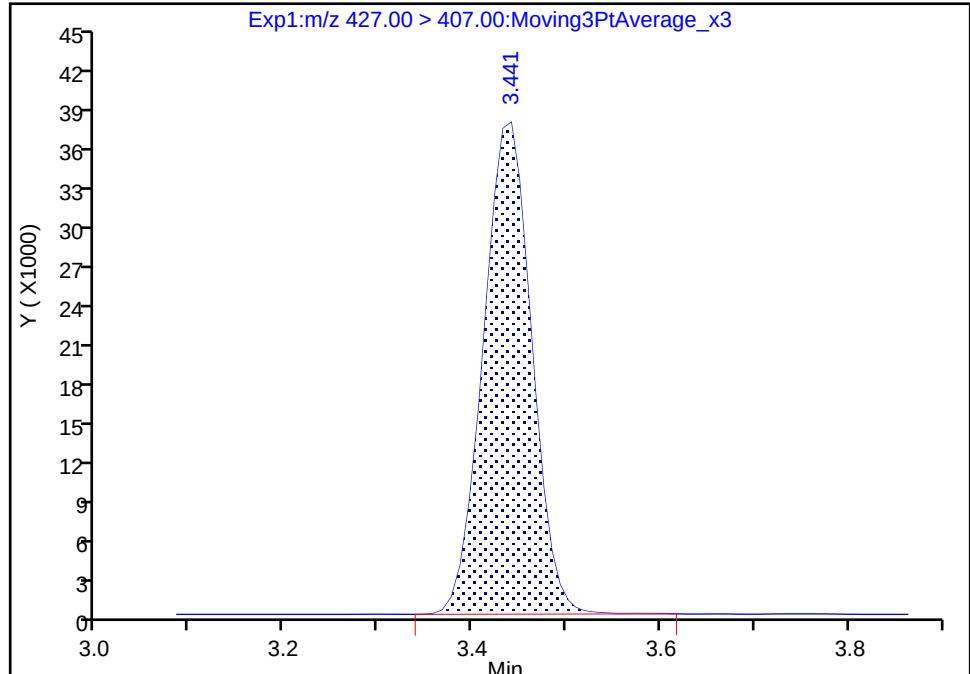
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
Injection Date: 24-Sep-2020 18:18:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

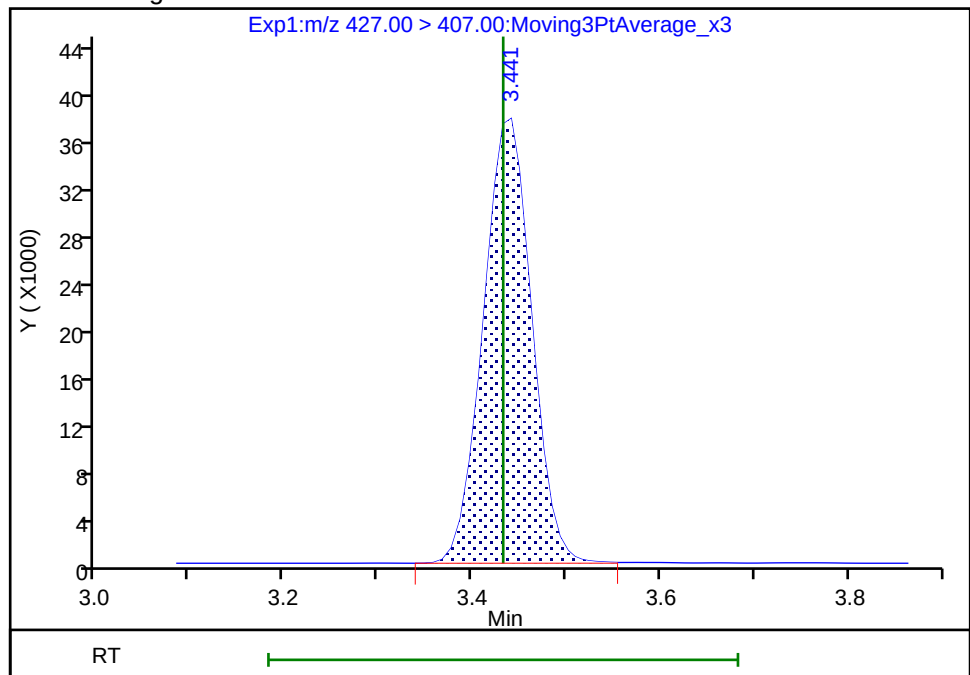
RT: 3.44
Area: 133219
Amount: 2.317439
Amount Units: ng/ml

Processing Integration Results



RT: 3.44
Area: 133298
Amount: 2.318814
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 08:45:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

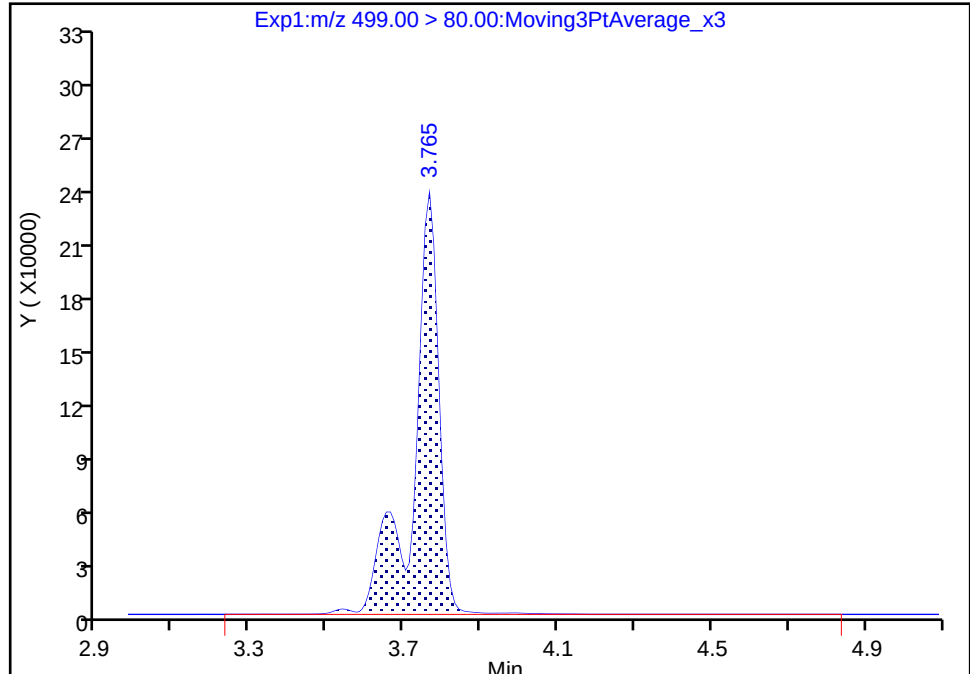
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
Injection Date: 24-Sep-2020 18:18:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

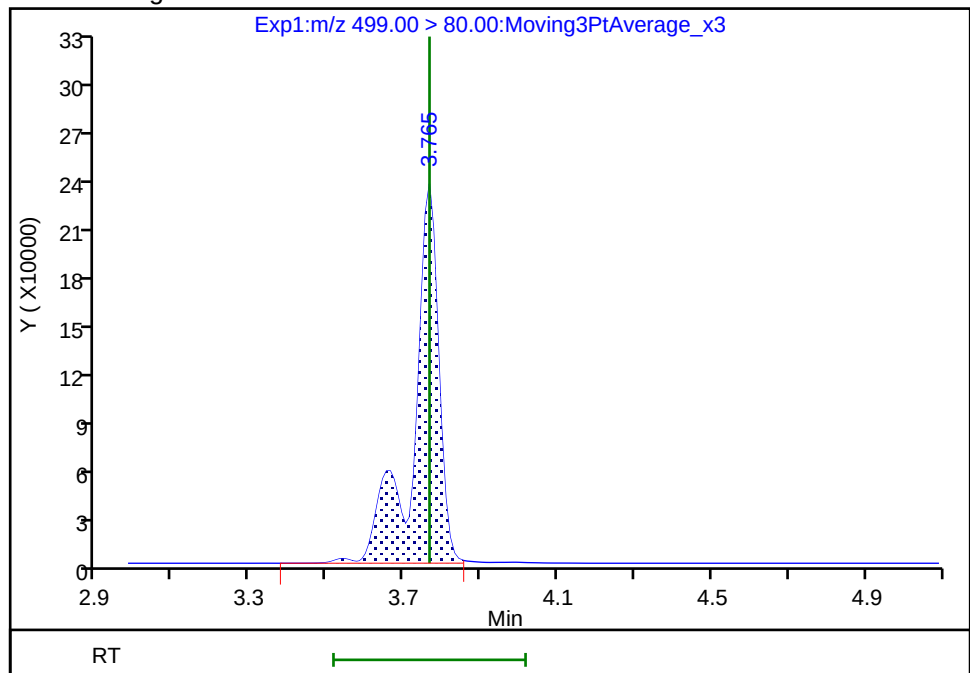
RT: 3.77
Area: 1087352
Amount: 2.132165
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 1077756
Amount: 2.113349
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 08:46:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 743 of 897

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d

Injection Date: 24-Sep-2020 18:18:08

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#:

16

Worklist Smp#:

16

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

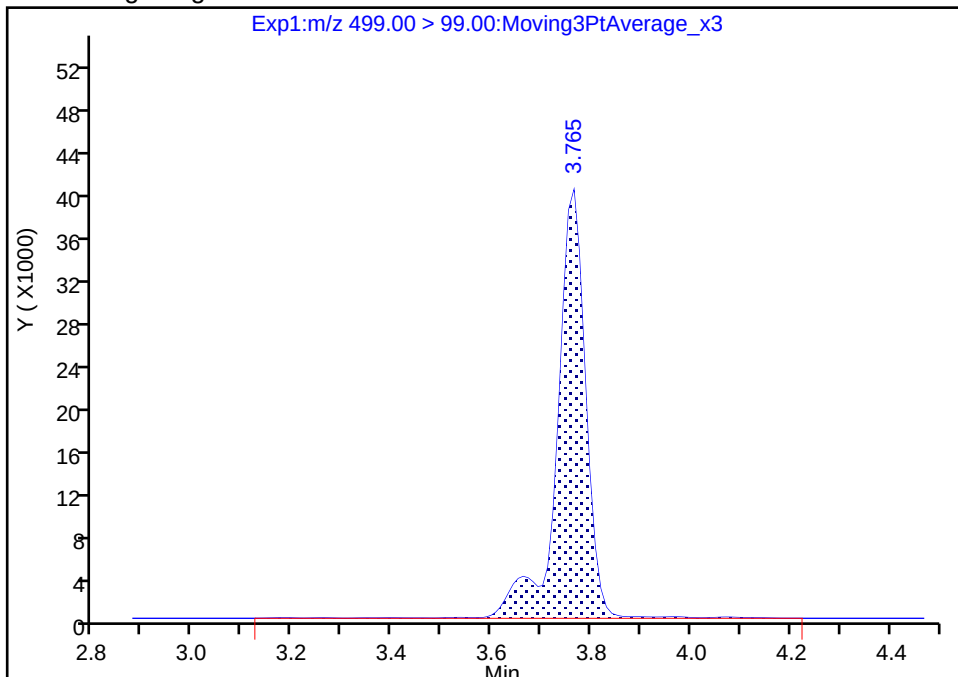
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

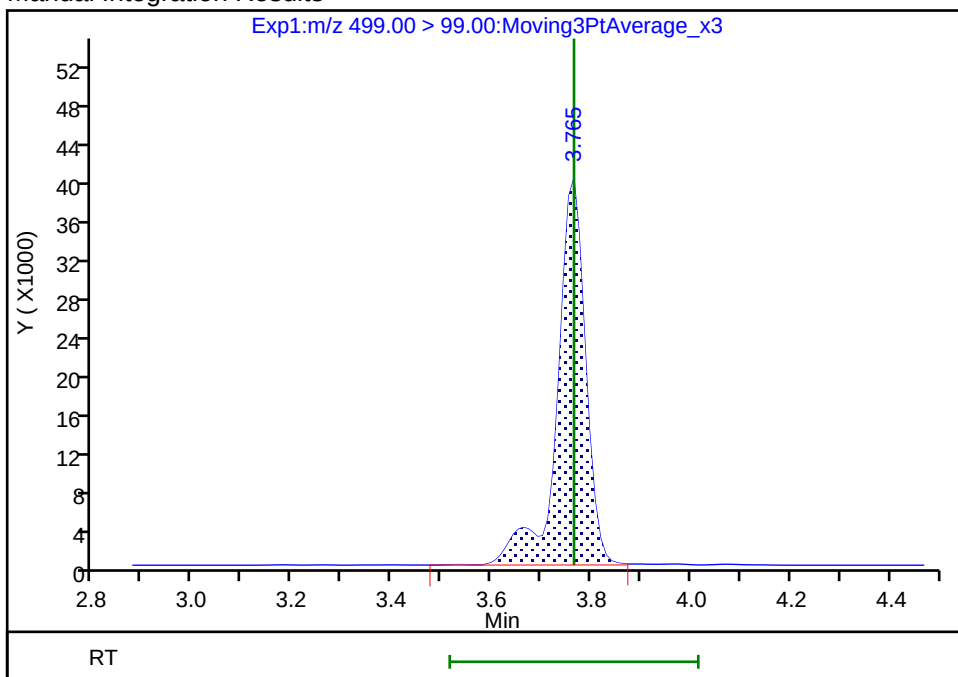
RT: 3.77
Area: 160612
Amount: 2.132165
Amount Units: ng/ml

Processing Integration Results



RT: 3.77
Area: 158472
Amount: 2.113349
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 08:46:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

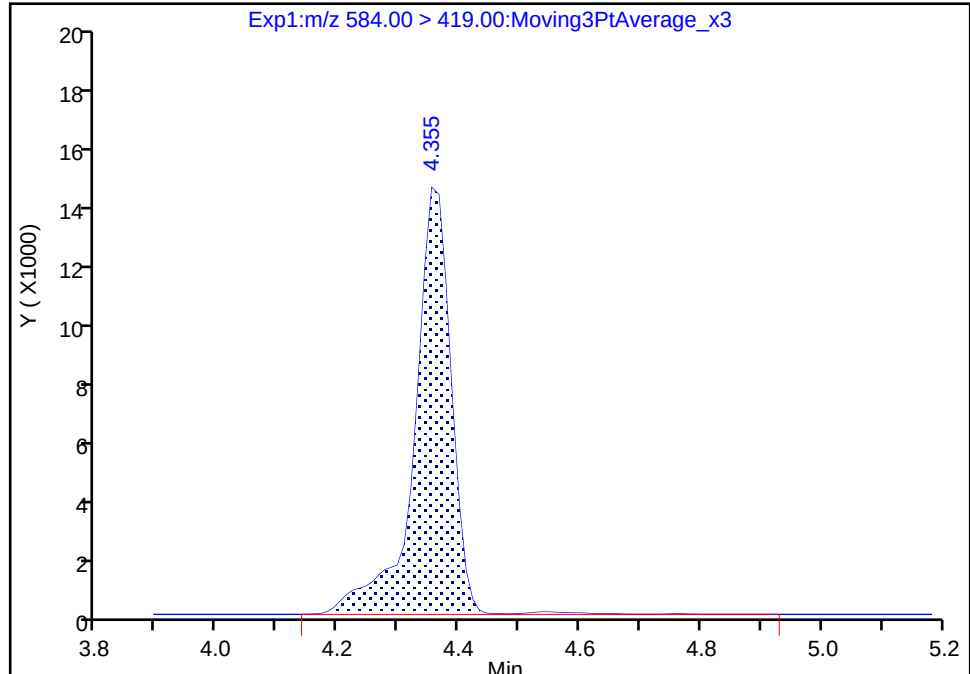
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B16.d
Injection Date: 24-Sep-2020 18:18:08 Instrument ID: LC812
Lims ID: CCV L5
Client ID:
Operator ID: lc812tech ALS Bottle#: 16 Worklist Smp#: 16
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

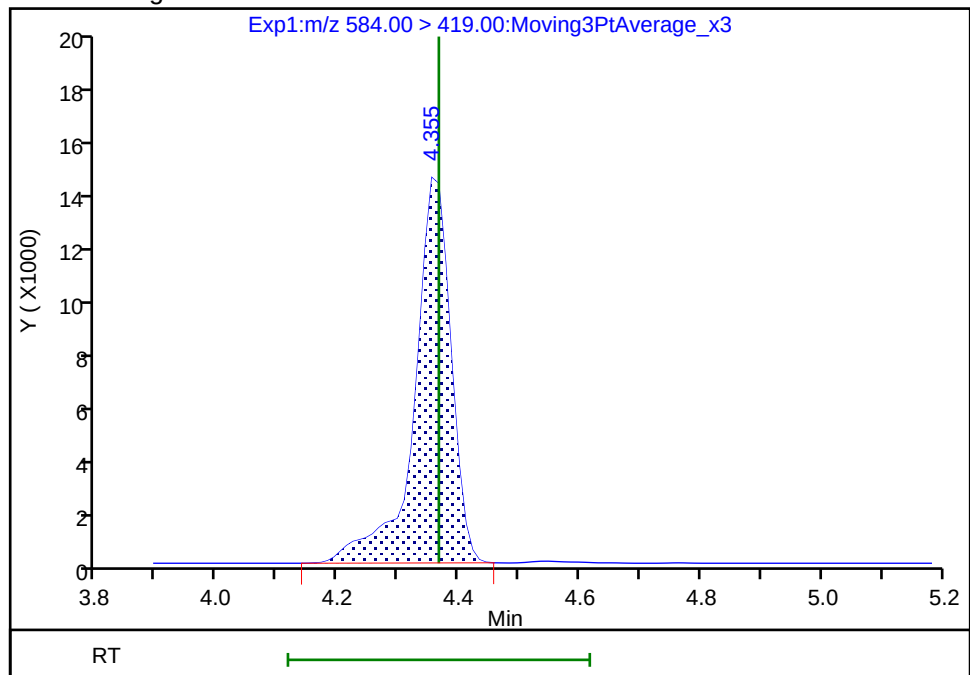
RT: 4.35
Area: 61273
Amount: 2.180044
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 60628
Amount: 2.157096
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 09:06:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: MB 200-159139/1-A

Matrix: Water Lab File ID: PA200924B02.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 09/24/2020 07:00

Sample wt/vol: 250 (mL) Date Analyzed: 09/24/2020 16:21

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 159169 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		5.0	1.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		2.0	1.1
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		2.0	0.83
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	ND		2.0	0.98
375-95-1	Perfluorononanoic acid (PFNA)	ND		2.0	0.58
335-76-2	Perfluorodecanoic acid (PFDA)	ND		2.0	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.73
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		2.0	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.59
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.63
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.39
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.87
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		2.0	0.57
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.79
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.93
27619-97-2	6:2 FTS	ND		5.0	0.72
39108-34-4	8:2 FTS	ND		2.0	0.66

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: MB 200-159139/1-A
 Matrix: Water Lab File ID: PA200924B02.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 250 (mL) Date Analyzed: 09/24/2020 16:21
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	56		25-150
STL00992	13C4 PFBA	80		25-150
STL01893	13C5 PFPeA	78		25-150
STL00993	13C2 PFHxA	78		50-150
STL01892	13C4 PFHpA	75		50-150
STL00990	13C4 PFOA	73		50-150
STL00995	13C5 PFNA	72		50-150
STL00996	13C2 PFDA	77		50-150
STL00997	13C2 PFUnA	70		50-150
STL00998	13C2 PFDoA	56		50-150
STL02116	13C2 PFTeDA	63		50-150
STL02337	13C3 PFBS	72		50-150
STL00994	18O2 PFHxS	76		50-150
STL00991	13C4 PFOS	69		50-150
STL02118	d3-NMeFOSAA	66		50-150
STL02117	d5-NEtFOSAA	72		50-150
STL02279	M2-6:2 FTS	78		25-150
STL02280	M2-8:2 FTS	80		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d
 Lims ID: MB 200-159139/1-A
 Client ID:
 Sample Type: MB
 Inject. Date: 24-Sep-2020 16:21:55 ALS Bottle#: 2 Worklist Smp#: 2
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: MB 200-159139/1-A
 Misc. Info.: 200-0042936-002 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 08:19:19

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.981	1.981	0.0	0.574	916380	1.00		80.1	5081	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.005	2101	0.003066			0.4	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.674	642985	0.9802		78.4	3409	
D 47 13C3 PFBS										M
301.90 > 80.00	2.339	2.339	0.0	0.678	665318	0.8329		71.6	98257	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.339	2.339	0.0	1.000	3198	0.005608	Target=2.07		15.5	
298.90 > 99.00	2.353	2.339	0.014	1.006	1203		2.66(1.04-3.11)		1.9	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.653	2.653	0.0	1.000	65	0.000918			2.2	M
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.653	2.653	0.0	0.769	51177	0.8529		73.1	139	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.691	2.691	0.0	0.780	656905	0.9725		77.8	3641	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.691	0.012	1.005	3917	0.007402	Target=12.44		1.1	M
313.00 > 119.00	2.678	2.691	-0.013	0.995	344		11.39(6.22-18.66)		1.1	M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.810	2.810	0.0	0.815	59005	0.9374		75.0	728	
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	513034	0.8951		75.7	2076	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	3852	0.008039	Target=4.60		10.3	M
399.00 > 99.00	3.073	3.073	0.0	1.000	707		5.45(2.30-6.91)		1.8	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.073	0.011	0.894	578280	0.9412		75.3	3756	
77 DONA										M
377.00 > 251.00	3.115	3.115	0.0	0.827	1166	0.001165	Target=2.44		4.6	M
377.00 > 85.00	3.115	3.115	0.0	0.827	347		3.36(1.22-3.67)		1.6	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.450	3.433	0.017	1.005	252	0.005257			9.7	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.441	-0.009	0.995	71332	0.9312		78.4	636	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	571491	0.9089		72.7	4888	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.441	0.009		798370	1.25			3163	
15 Perfluorooctanoic acid										RM
413.00 > 369.00	3.458	3.450	0.008	1.003	3191	0.006760	Target=2.29		0.9	RM
413.00 > 169.00	3.450	3.450	0.0	1.000	664		4.81(1.14-3.43)		2.4	M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	388182	0.8280		69.3	1482	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	1370	0.003881	Target=7.10		4.7	M
499.00 > 99.00	3.765	3.765	0.0	1.000	295		4.64(3.55-10.64)		1.7	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.786	0.0	1.098	475652	0.8977		71.8	3601	
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.912	3.922	-0.010	1.039	237	0.000763			5.6	M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.082	0.0	1.183	489982	0.9643		77.1	5629	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	86291	0.9564		79.9	1295	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.139	0.011	1.203	570622	0.6969		55.7	1880	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.139	0.011	1.000	770	0.001804			2.7	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.224	0.0	1.224	23889	0.8258		66.1	580	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.224	4.224	0.0	1.000	163	0.009038			2.5	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.343	0.012	1.262	333609	0.8697		69.6	3443	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.343	0.012	1.000	1130	0.004293	Target=6.57		1.6	M
563.00 > 169.00	4.343	4.343	0.0	0.997	343		3.29(3.28-9.85)		6.9	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	27840	0.8952		71.6	407	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.343	4.366	-0.023	0.997	81	0.003972			1.6	M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.433	4.433	0.0	1.177	216	0.000806			4.8	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.585	4.573	0.012	1.329	284053	0.7006		56.1	2283	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.585	4.573	0.012	1.000	617	0.002784	Target=5.16		1.1	M
613.00 > 169.00	4.585	4.573	0.012	1.000	145		4.26(2.58-7.75)		3.5	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.978	0.010	1.446	226330	0.7837		62.7	3392	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.998	4.978	0.020	1.002	119	0.002869	Target=1.06		5.7	M
713.00 > 219.00	4.988	4.978	0.010	1.000	192		0.62(0.53-1.59)		8.7	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.351	5.350	0.001	1.551	270571	0.8267		66.1	2842	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.351	5.350	0.001	1.000	2520	-0.0100	Target=3.06		3.9	
813.00 > 169.00	5.351	5.350	0.001	1.000	847		2.98(1.53-4.58)		45.6	
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.747	5.738	0.009	1.074	146	0.000903	Target=2.82		0.3	M
913.00 > 169.00	5.721	5.738	-0.017	1.069	51		2.86(1.41-4.24)		3.6	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

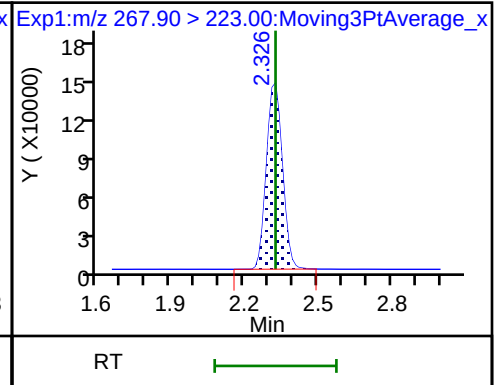
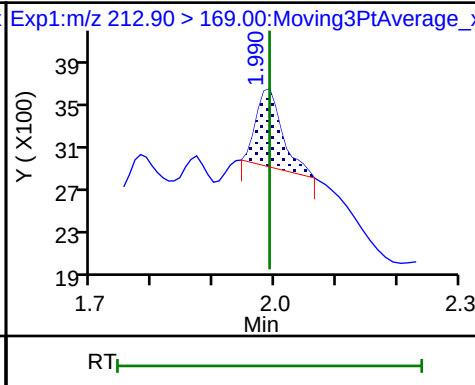
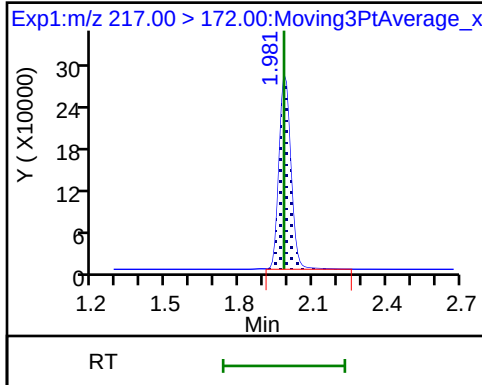
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

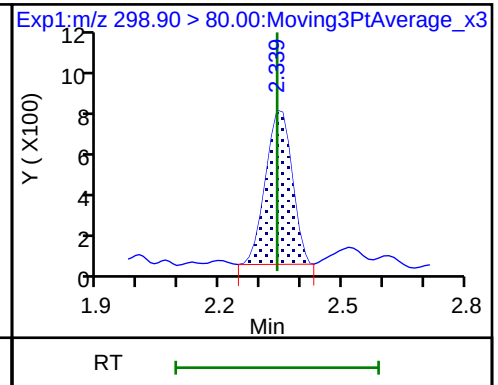
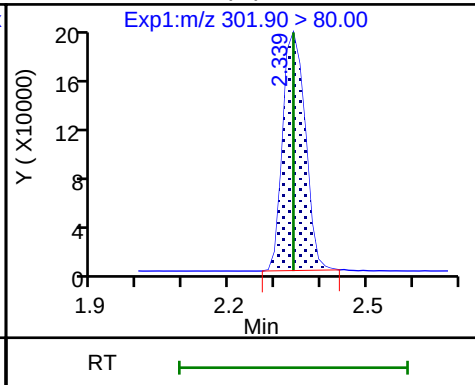
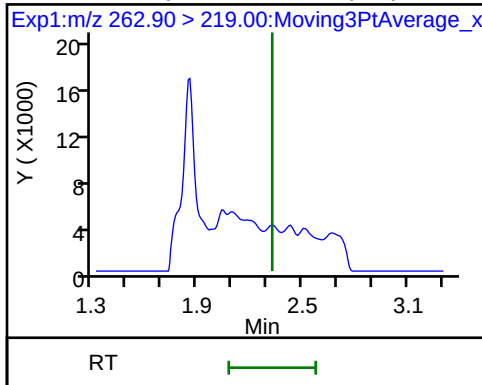
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (ND)

D 47 13C3 PFBS (M)

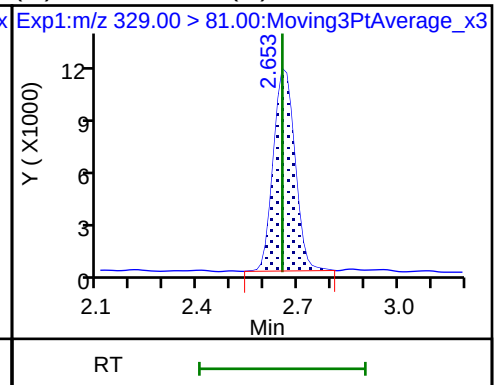
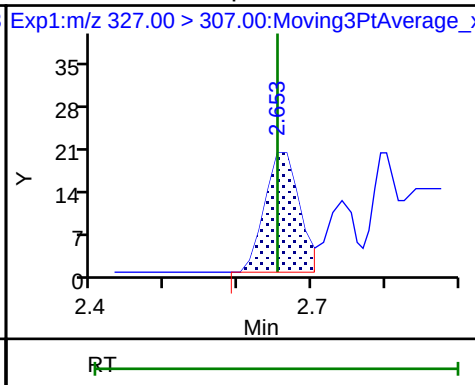
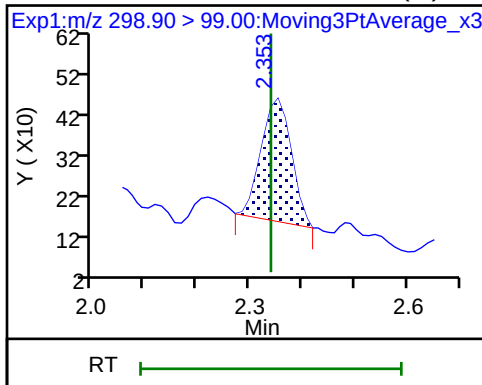
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

61 1H,1H,2H,2H-perfluorohexanesulfo (M)

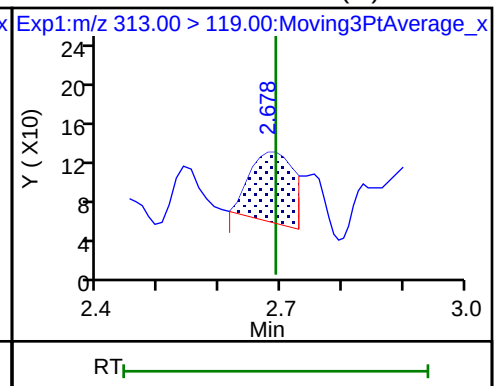
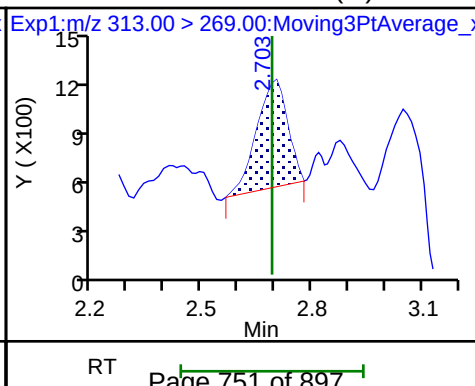
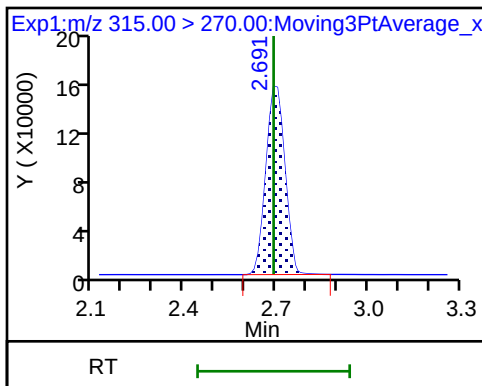
D 50 M2-4:2 FTS (M)



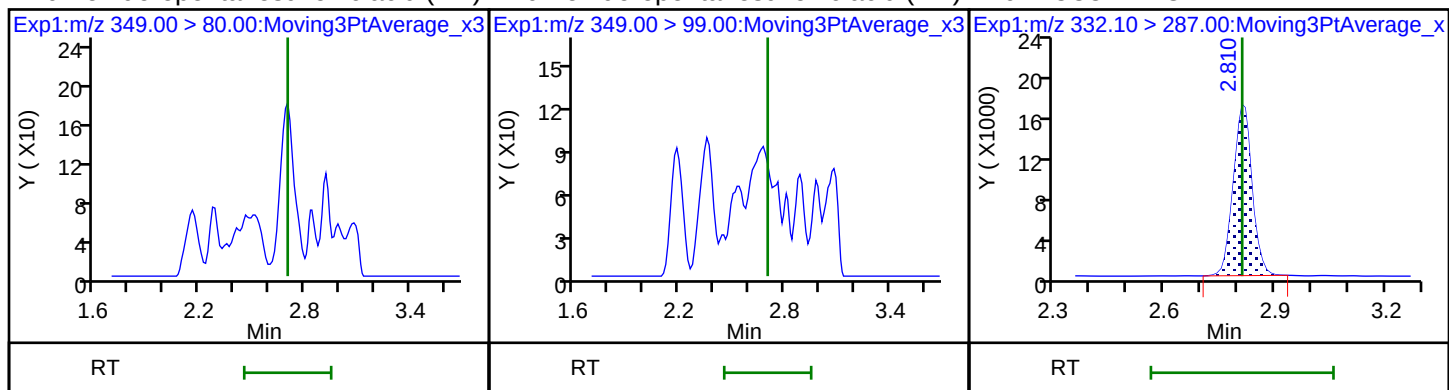
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)

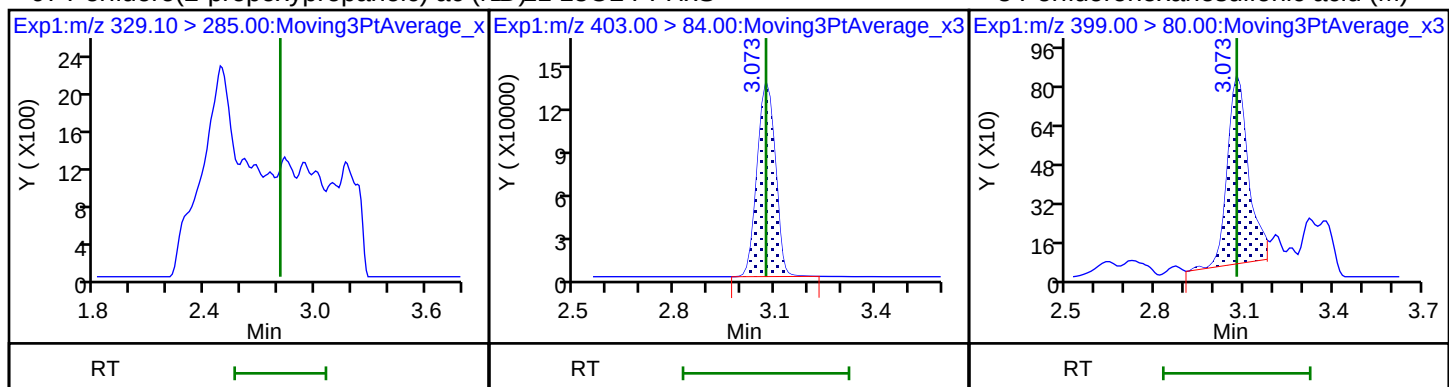


70 Perfluoropentanesulfonic acid (ND) 70 Perfluoropentanesulfonic acid (ND) D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (ND) 11 18O2 PFHxS

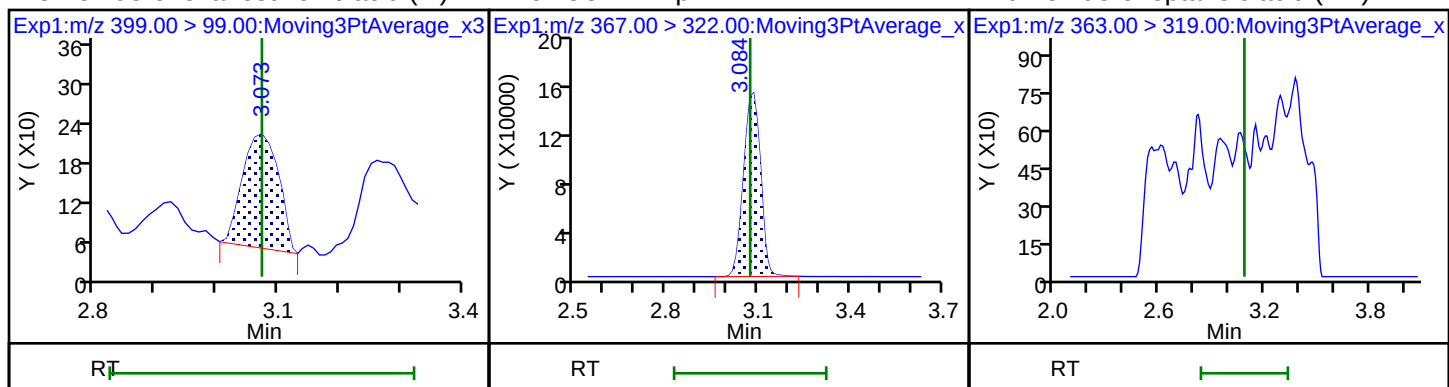
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpa

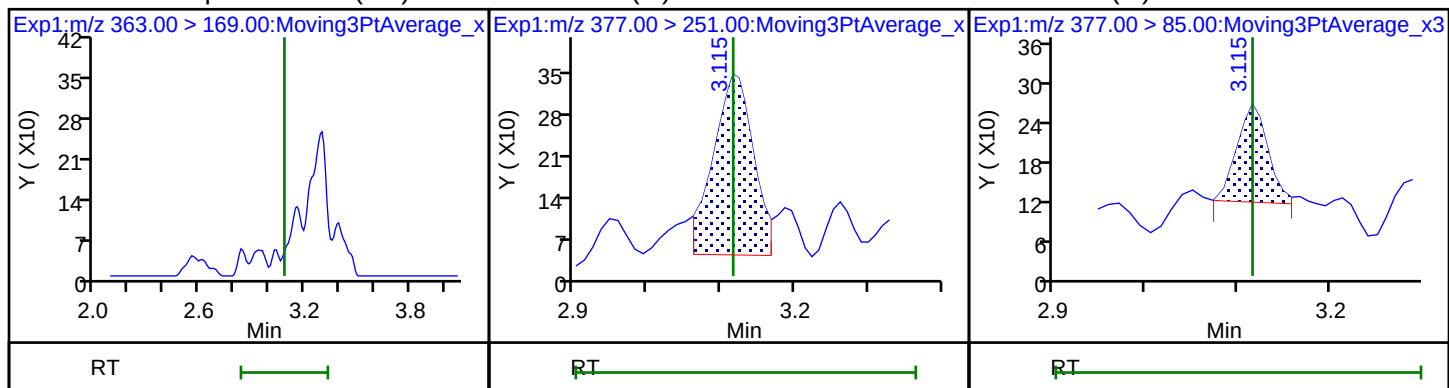
10 Perfluoroheptanoic acid (ND)



10 Perfluoroheptanoic acid (ND)

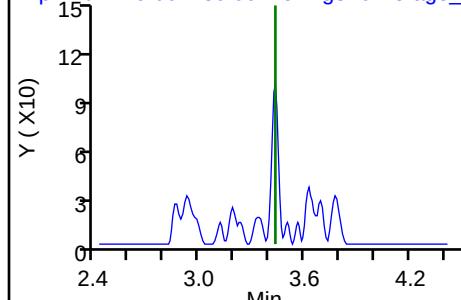
77 DONA (M)

77 DONA (M)



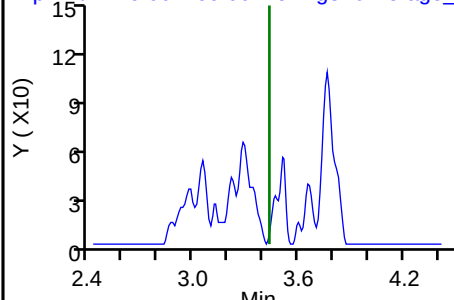
16 Perfluoroheptanesulfonic acid (ND) 16 Perfluoroheptanesulfonic acid (ND) 13 1H,1H,2H,2H-perfluorooctanesulfo (M)

Exp1:m/z 449.00 > 80.00:Moving3PtAverage_x3



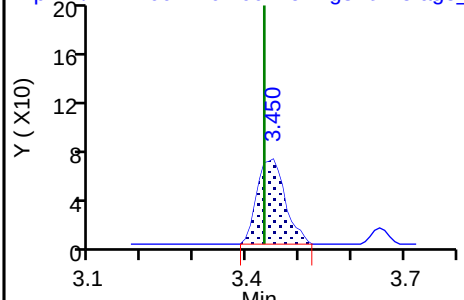
RT

Exp1:m/z 449.00 > 99.00:Moving3PtAverage_x3



RT

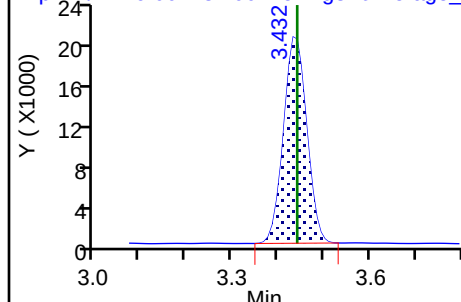
Exp1:m/z 427.00 > 407.00:Moving3PtAverage_x3



RT

D 12 M2-6:2 FTS

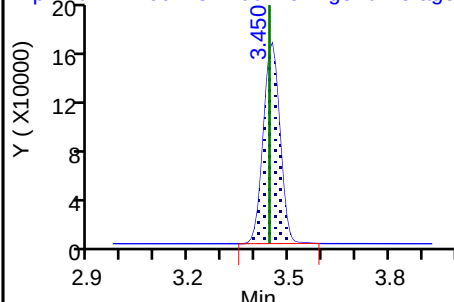
Exp1:m/z 429.00 > 81.00:Moving3PtAverage_x3



RT

D 14 13C4 PFOA

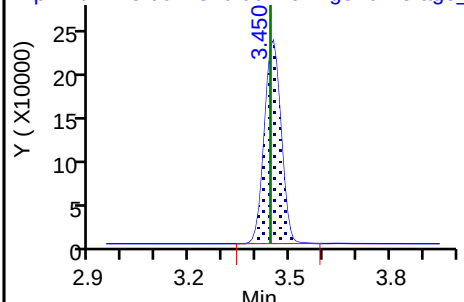
Exp1:m/z 417.00 > 372.00:Moving3PtAverage_x3



RT

* 62 13C2 PFOA

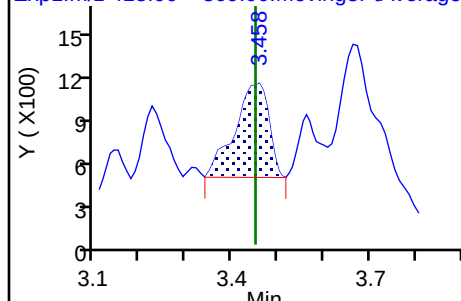
Exp1:m/z 415.00 > 370.00:Moving3PtAverage_x3



RT

15 Perfluorooctanoic acid (M)

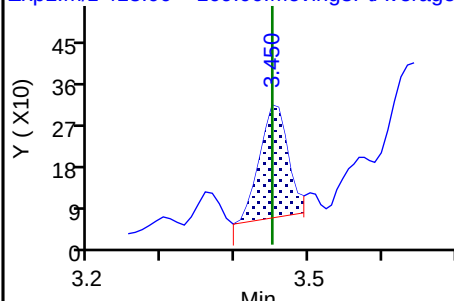
Exp1:m/z 413.00 > 369.00:Moving3PtAverage_x3



RT

15 Perfluorooctanoic acid (M)

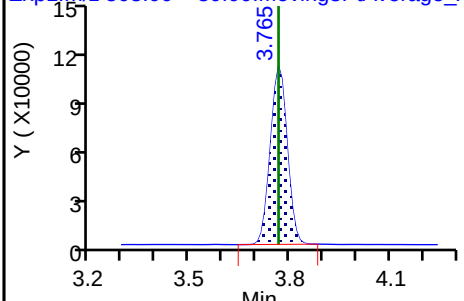
Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x3



RT

D 18 13C4 PFOS

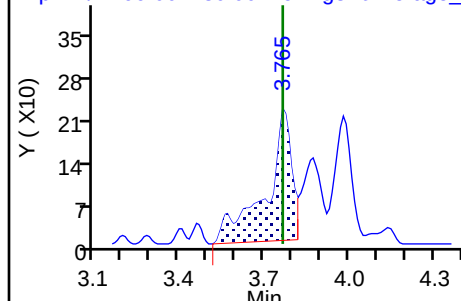
Exp1:m/z 503.00 > 80.00:Moving3PtAverage_x3



RT

17 Perfluorooctanesulfonic acid (M)

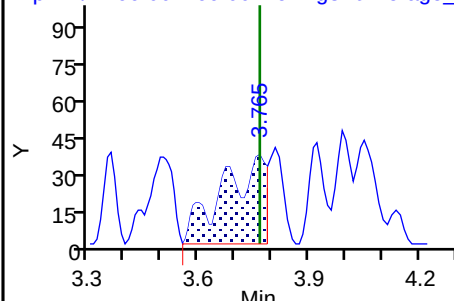
Exp1:m/z 499.00 > 80.00:Moving3PtAverage_x3



RT

17 Perfluorooctanesulfonic acid (M)

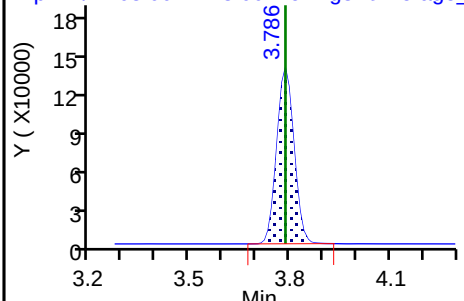
Exp1:m/z 499.00 > 99.00:Moving3PtAverage_x3



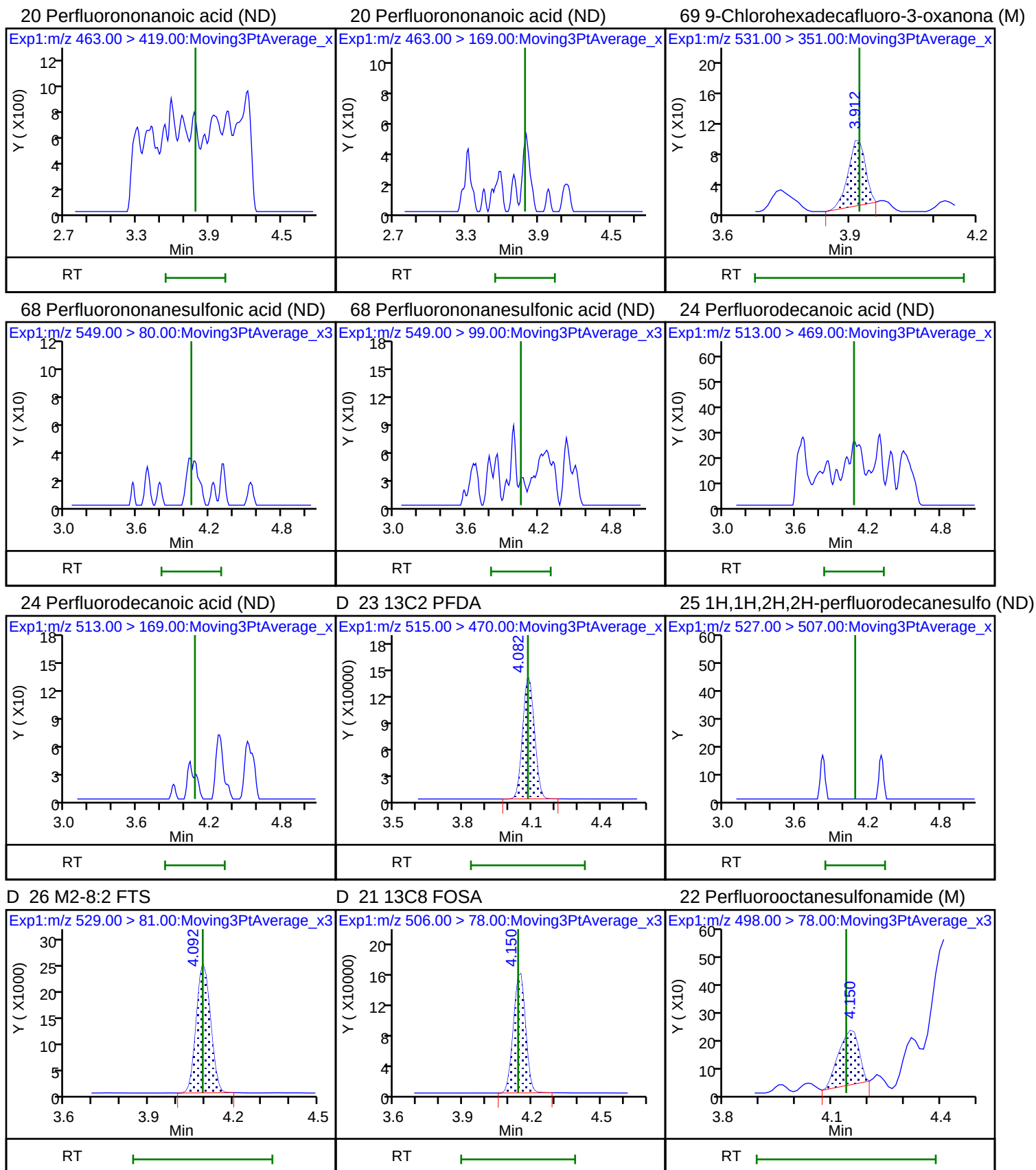
RT

D 19 13C5 PFNA

Exp1:m/z 468.00 > 423.00:Moving3PtAverage_x3



RT



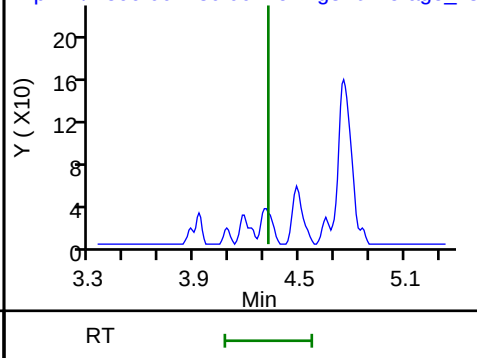
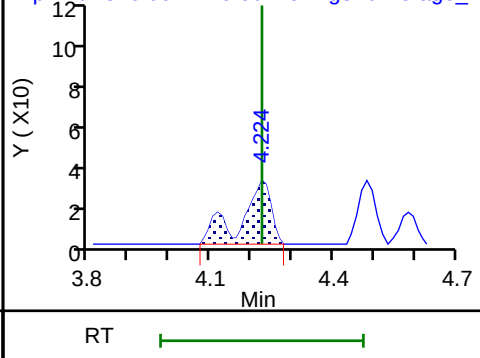
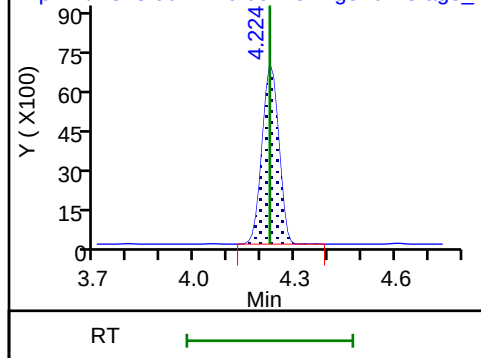
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (ND)

Exp1:m/z 573.00 > 419.00:Moving3PtAverage_x

Exp1:m/z 570.00 > 419.00:Moving3PtAverage_x

Exp1:m/z 599.00 > 80.00:Moving3PtAverage_x3



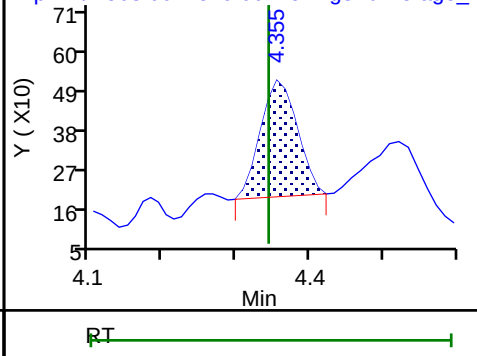
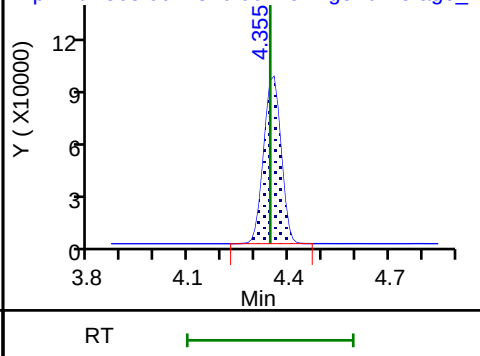
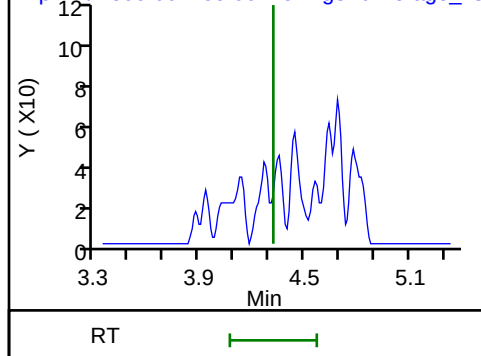
29 Perfluorodecanesulfonic acid (ND) D 30 13C2 PFUnA

31 Perfluoroundecanoic acid (M)

Exp1:m/z 599.00 > 99.00:Moving3PtAverage_x3

Exp1:m/z 565.00 > 520.00:Moving3PtAverage_x

Exp1:m/z 563.00 > 519.00:Moving3PtAverage_x



31 Perfluoroundecanoic acid (M)

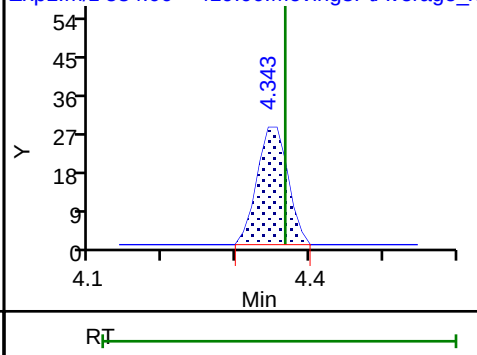
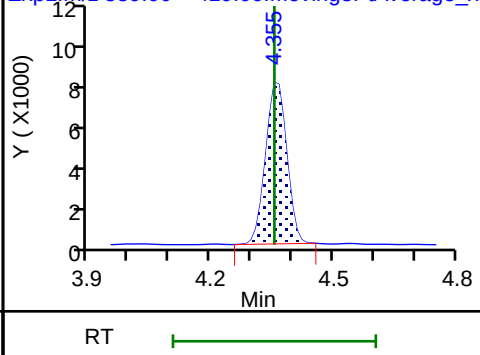
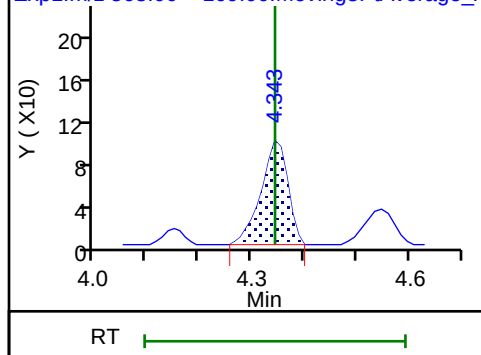
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid (M)

Exp1:m/z 563.00 > 169.00:Moving3PtAverage_x

Exp1:m/z 589.00 > 419.00:Moving3PtAverage_x

Exp1:m/z 584.00 > 419.00:Moving3PtAverage_x



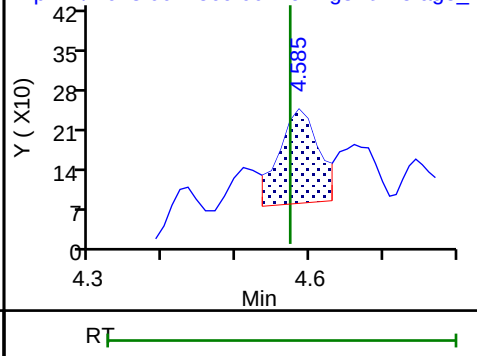
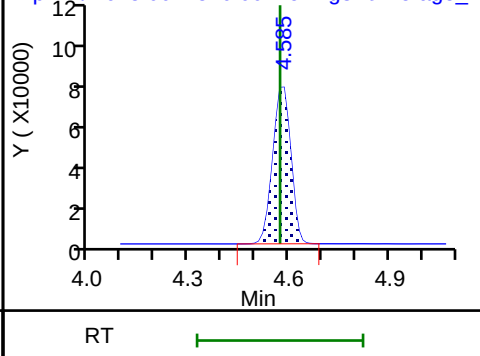
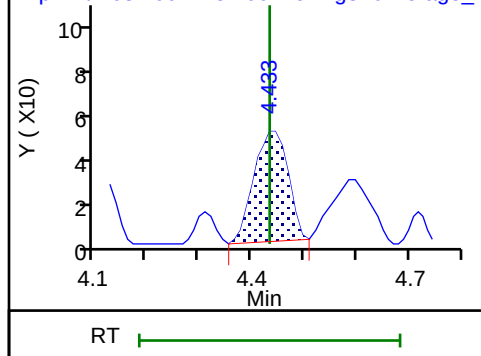
66 11-Chloroeicosafluoro-3-oxaundec (M) 36 13C2 PFDaA

37 Perfluorododecanoic acid (M)

Exp1:m/z 631.00 > 451.00:Moving3PtAverage_x

Exp1:m/z 615.00 > 570.00:Moving3PtAverage_x

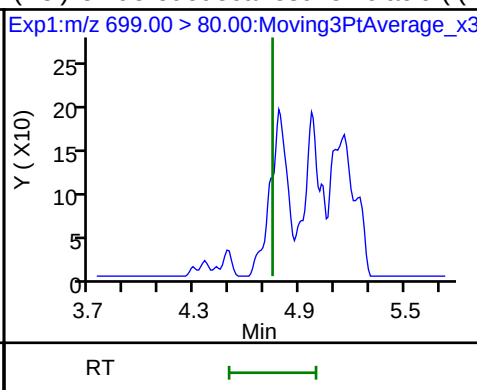
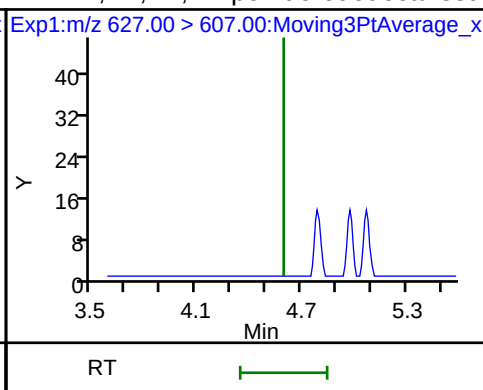
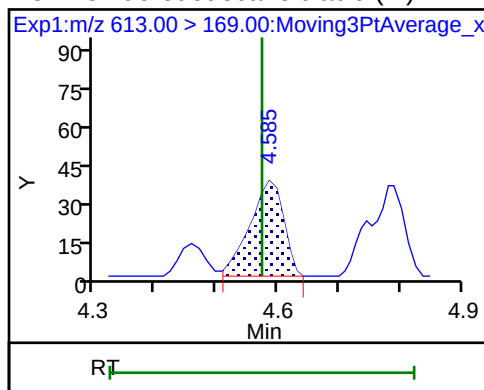
Exp1:m/z 613.00 > 569.00:Moving3PtAverage_x



37 Perfluorododecanoic acid (M)

74 1H,1H,2H,2H-perfluorododecanesul (M)

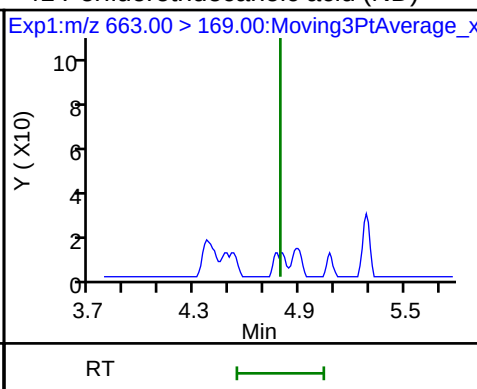
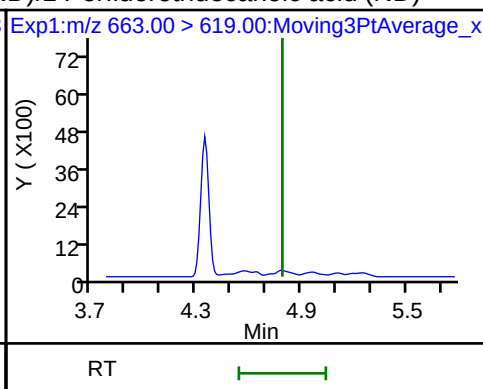
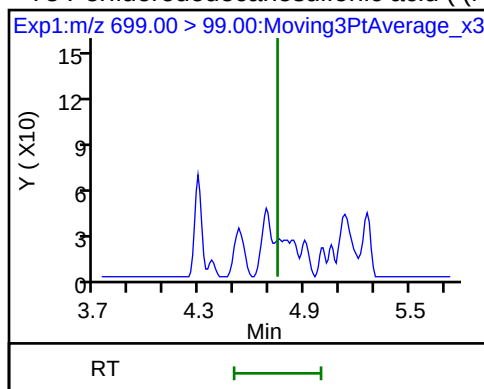
15 Perfluorododecanesulfonic acid ((ND)



75 Perfluorododecanesulfonic acid ((ND)

41 Perfluorotridecanoic acid (ND)

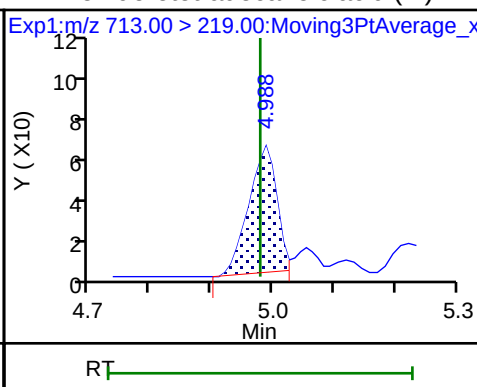
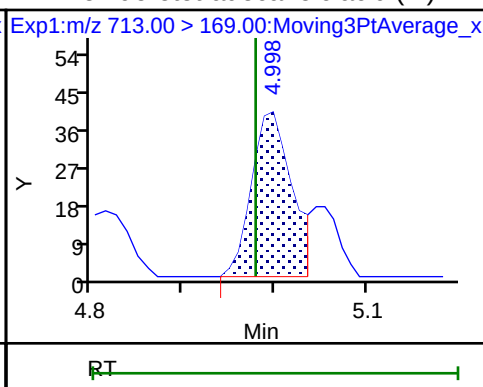
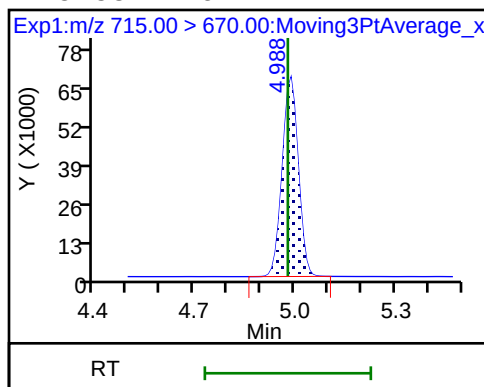
41 Perfluorotridecanoic acid (ND)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

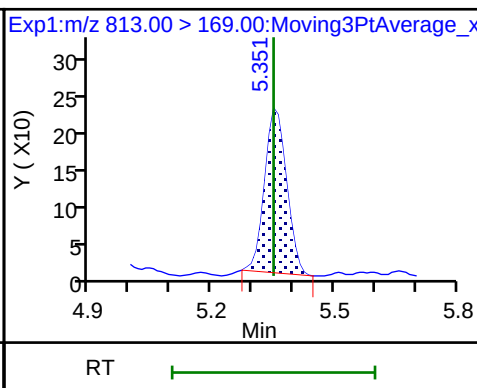
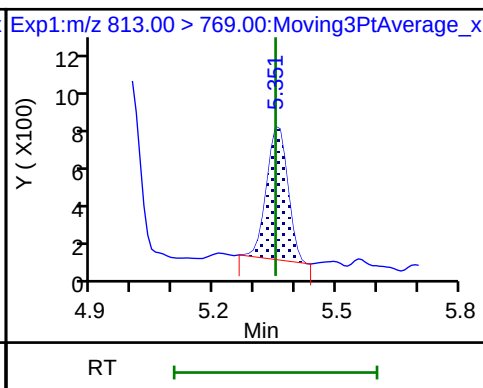
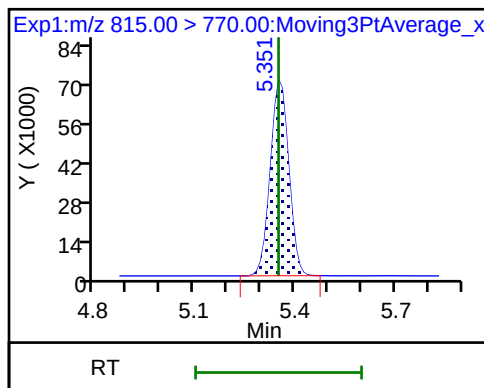
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

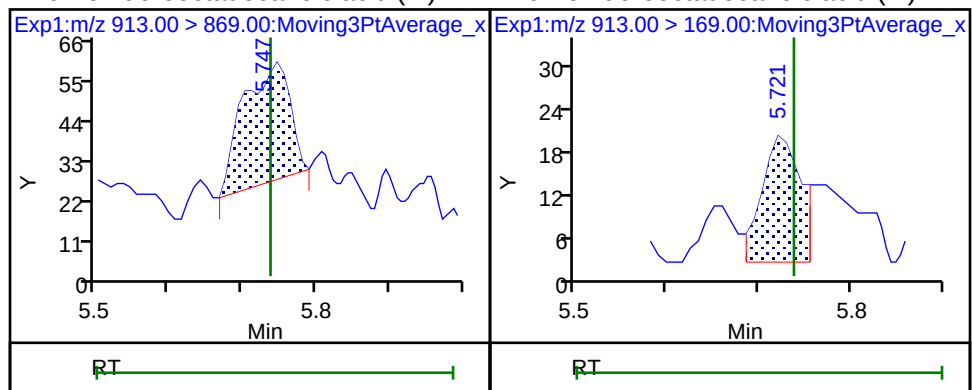
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

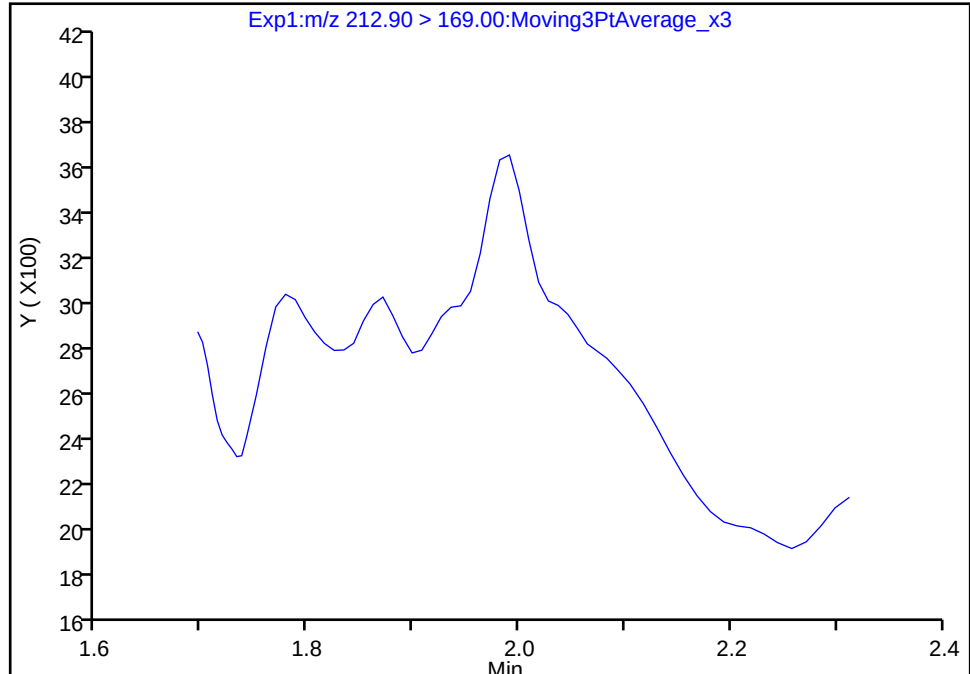
2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

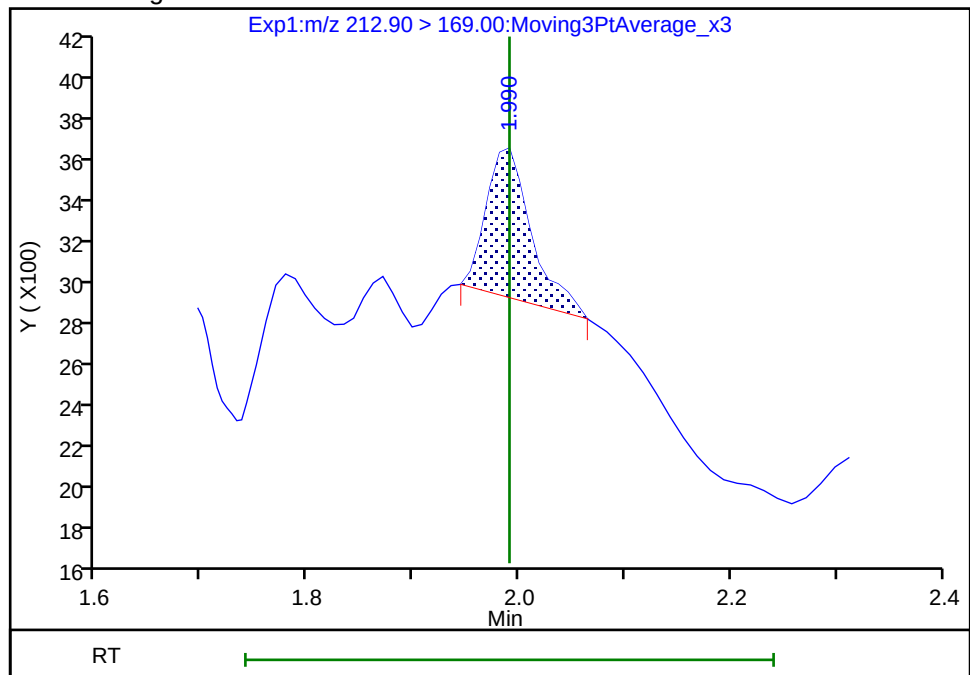
Not Detected

Expected RT: 1.99

Processing Integration Results



Manual Integration Results



RT: 1.99

Area: 2101

Amount: 0.003066

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:14:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

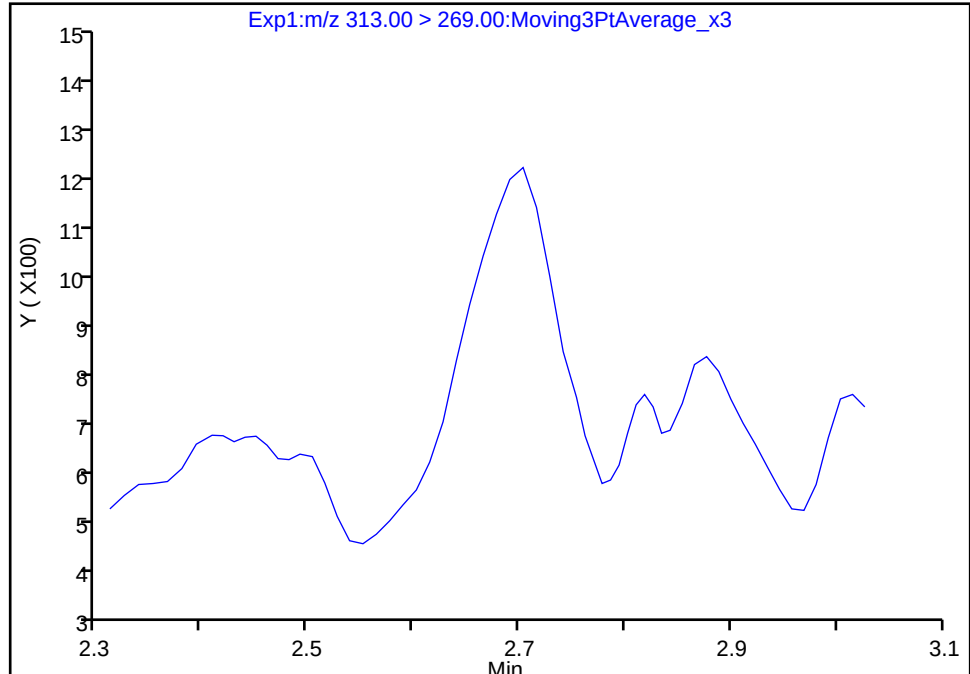
6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

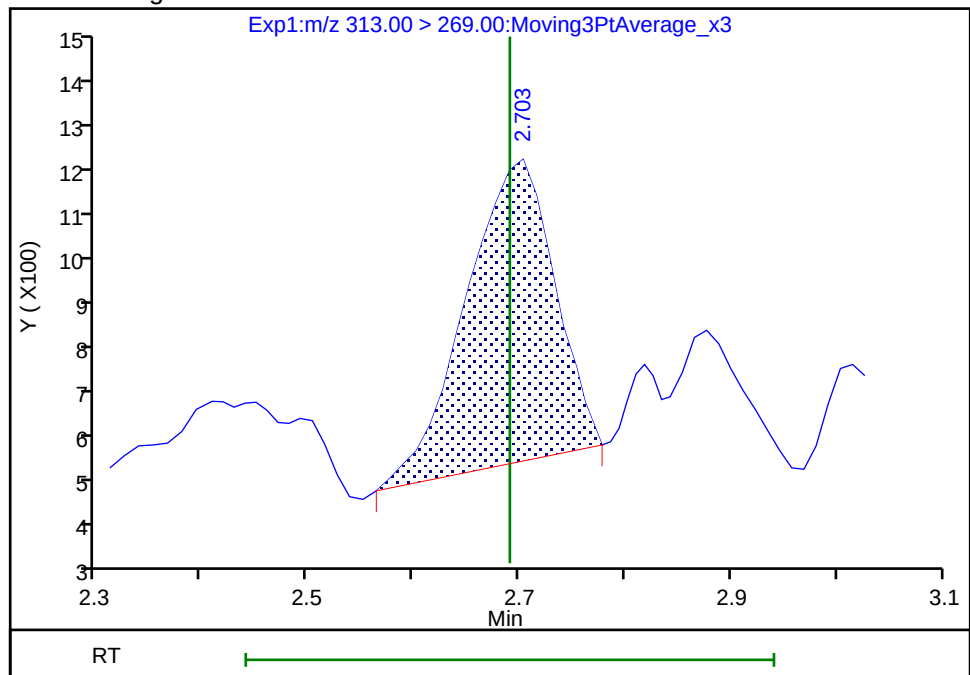
Not Detected

Expected RT: 2.69

Processing Integration Results



Manual Integration Results



RT: 2.70

Area: 3917

Amount: 0.007402

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:15:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

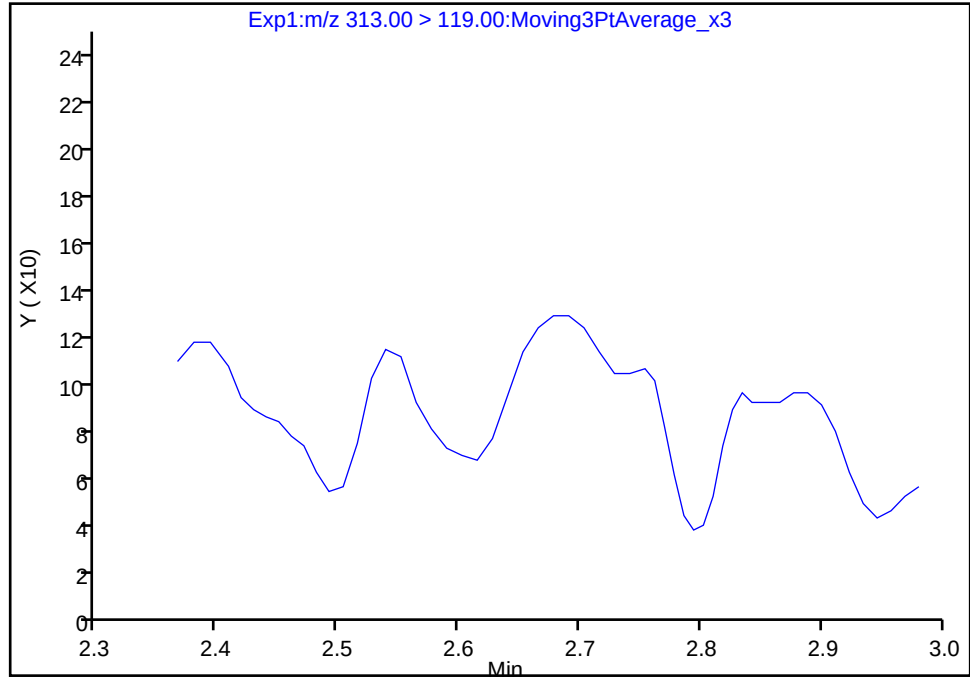
6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

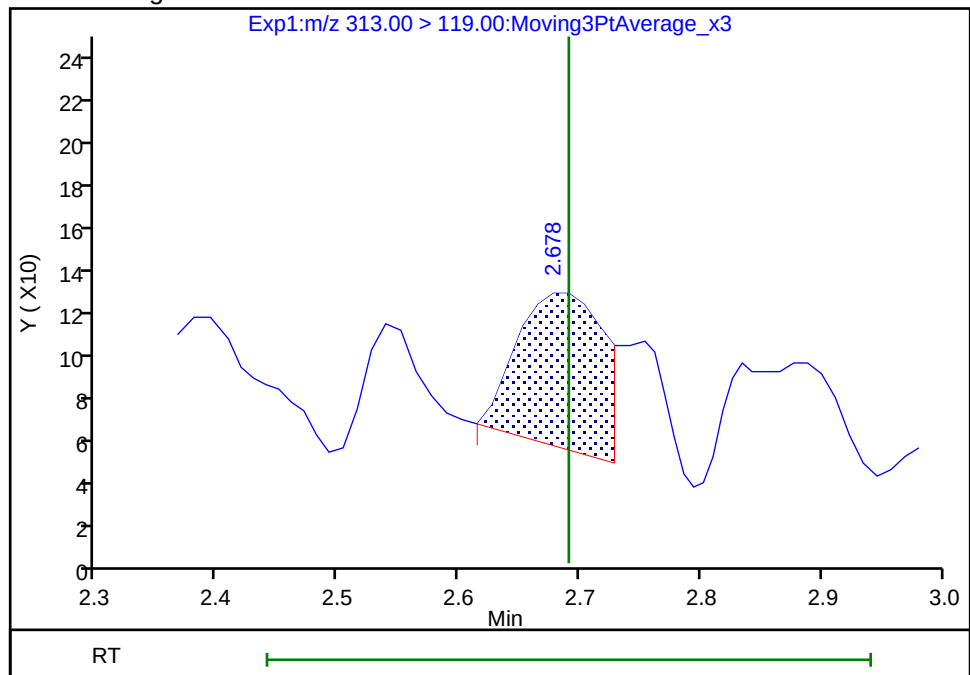
Not Detected

Expected RT: 2.69

Processing Integration Results



Manual Integration Results



RT: 2.68

Area: 344

Amount: 0.007402

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:15:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector: EXP1

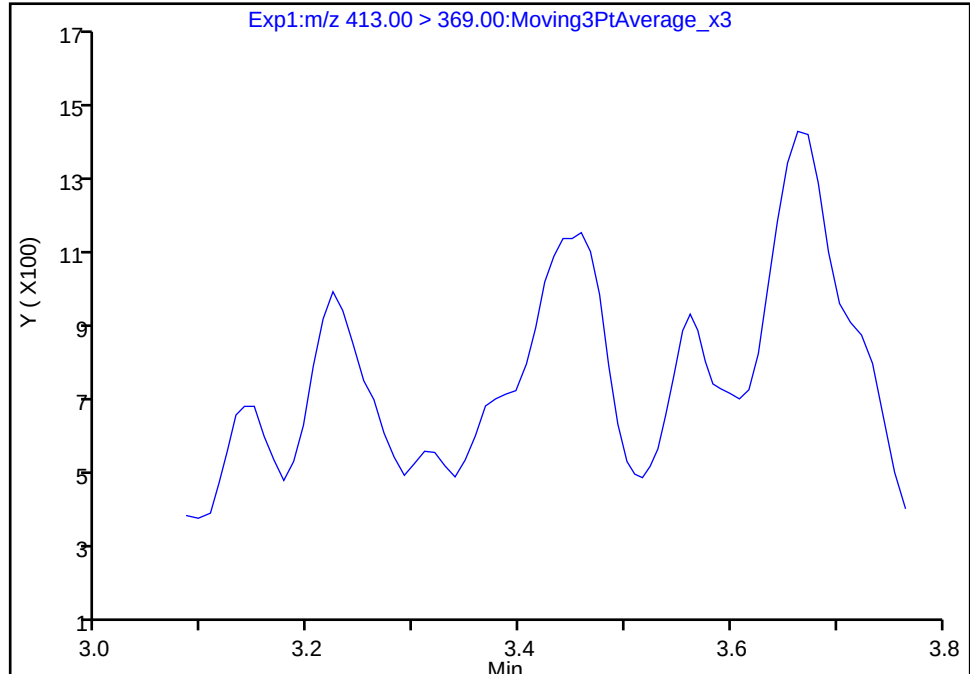
15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

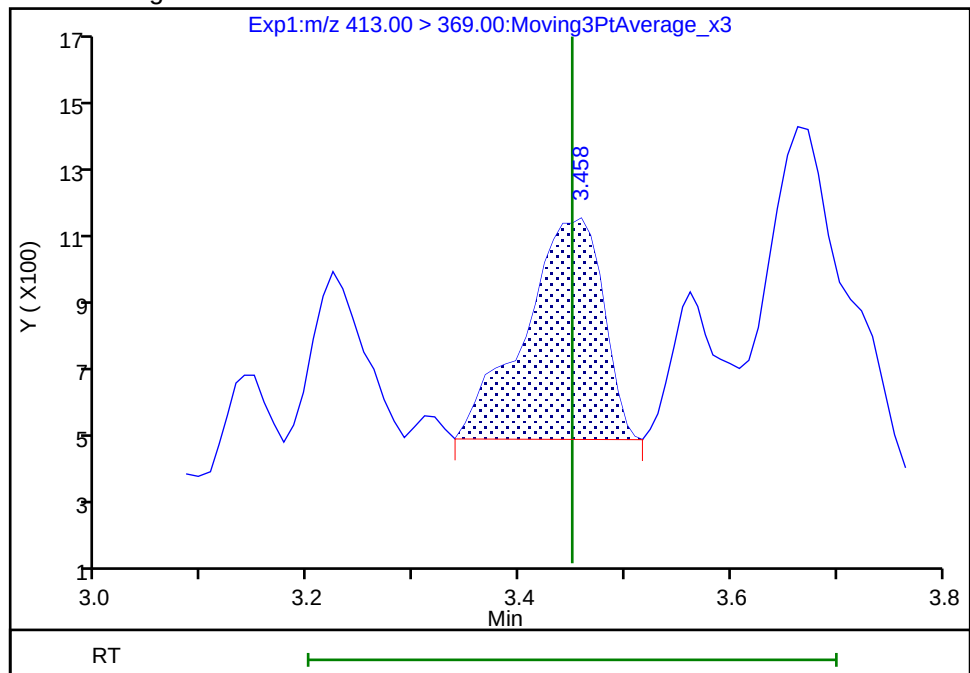
Not Detected

Expected RT: 3.45

Processing Integration Results



Manual Integration Results



RT: 3.46

Area: 3191

Amount: 0.006760

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:16:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

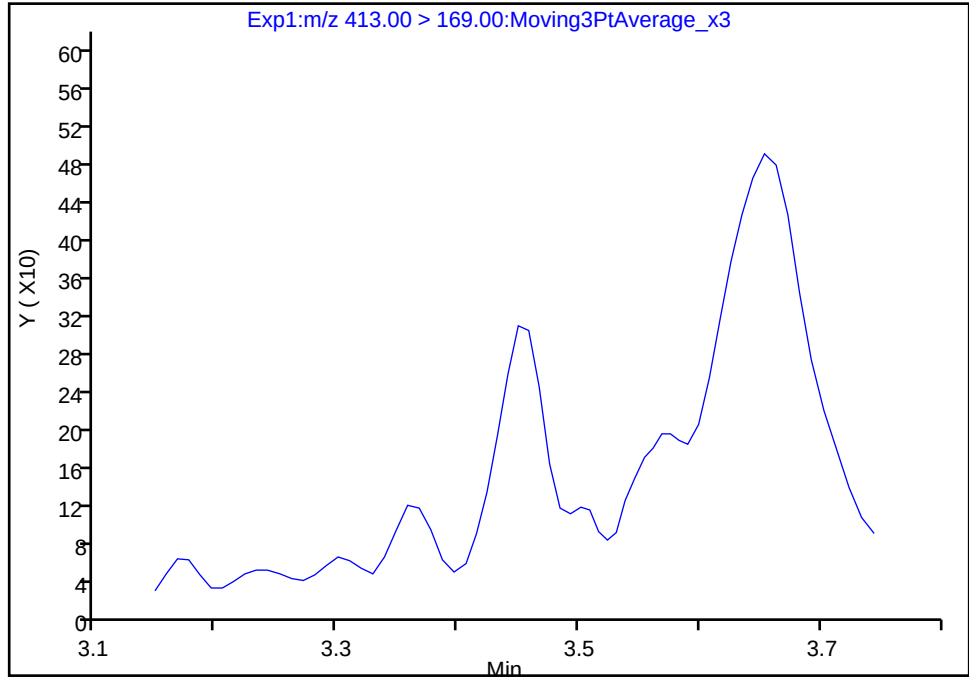
15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

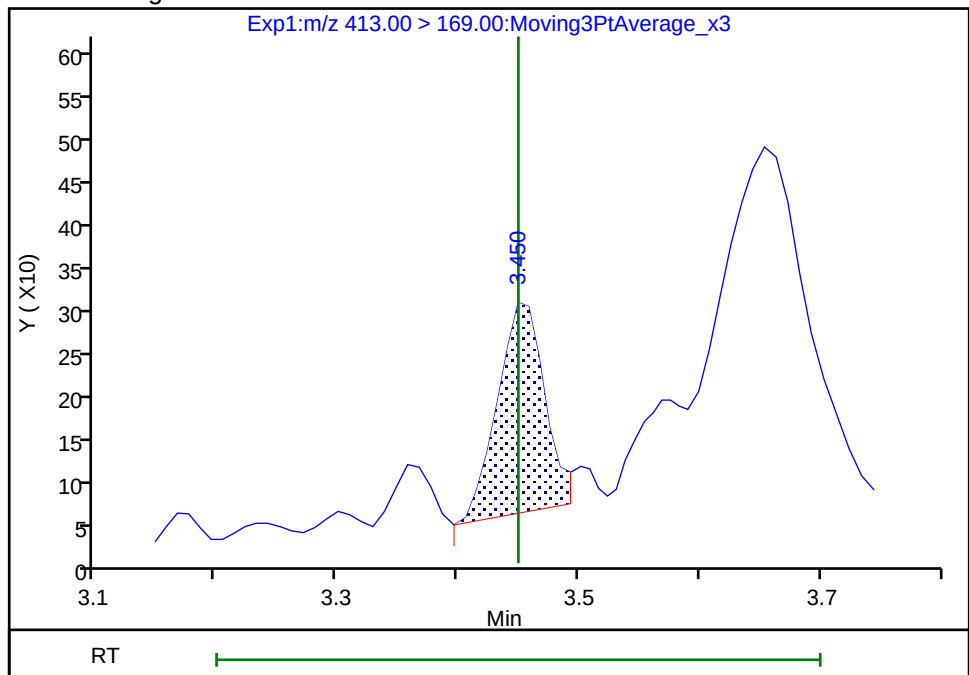
Not Detected

Expected RT: 3.45

Processing Integration Results



Manual Integration Results



RT: 3.45

Area: 664

Amount: 0.006760

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:17:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

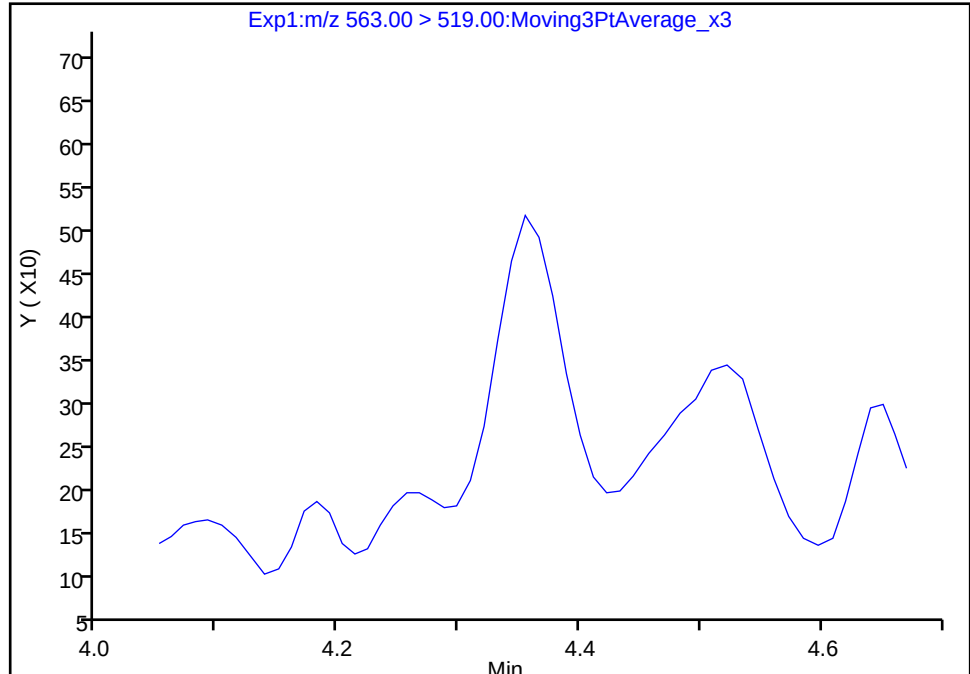
31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

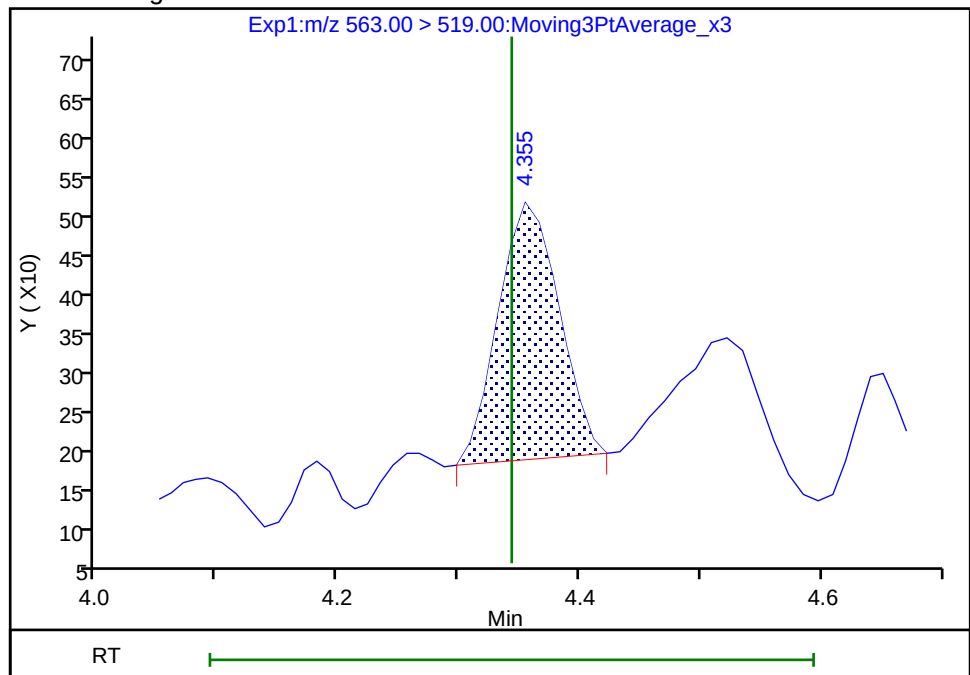
Not Detected

Expected RT: 4.34

Processing Integration Results



Manual Integration Results



RT: 4.35

Area: 1130

Amount: 0.004293

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:18:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

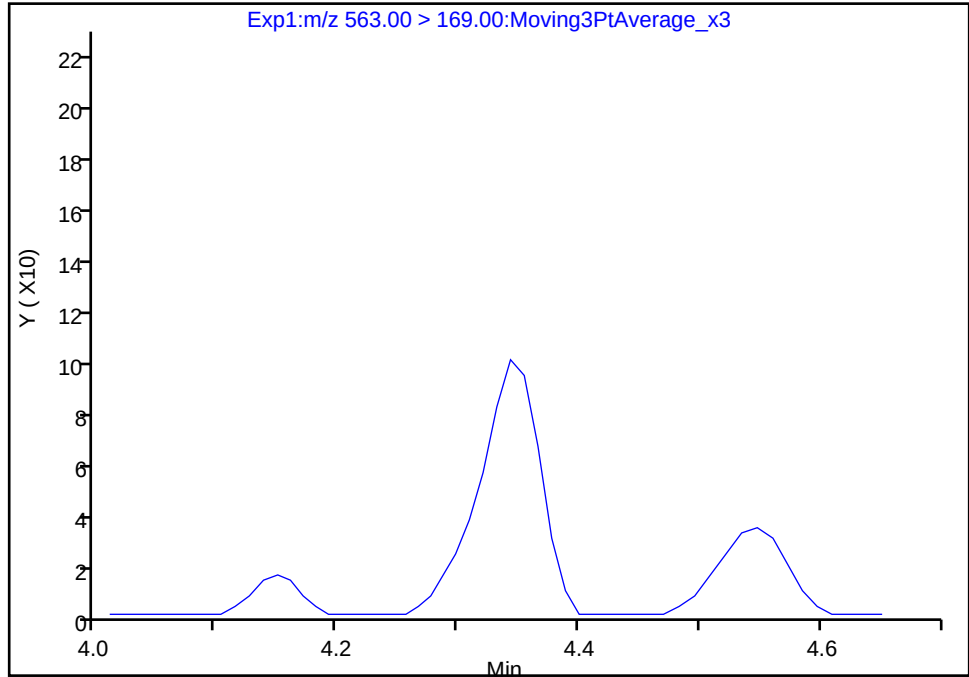
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d
Injection Date: 24-Sep-2020 16:21:55 Instrument ID: LC812
Lims ID: MB 200-159139/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

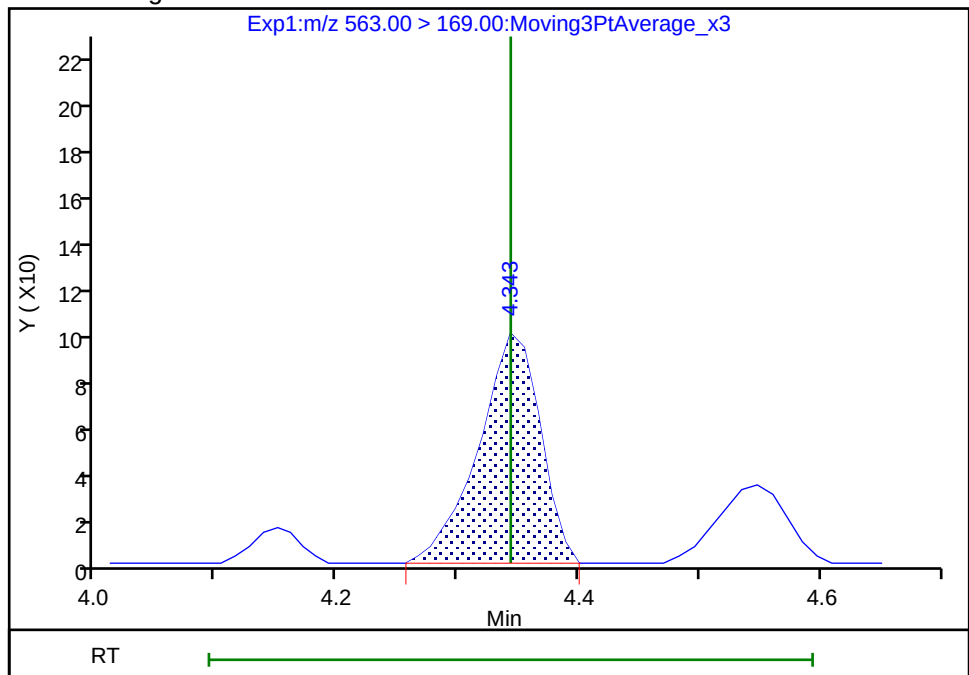
Not Detected
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34
Area: 343
Amount: 0.004293
Amount Units: ng/ml



Reviewer: khanphomeea, 25-Sep-2020 08:18:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

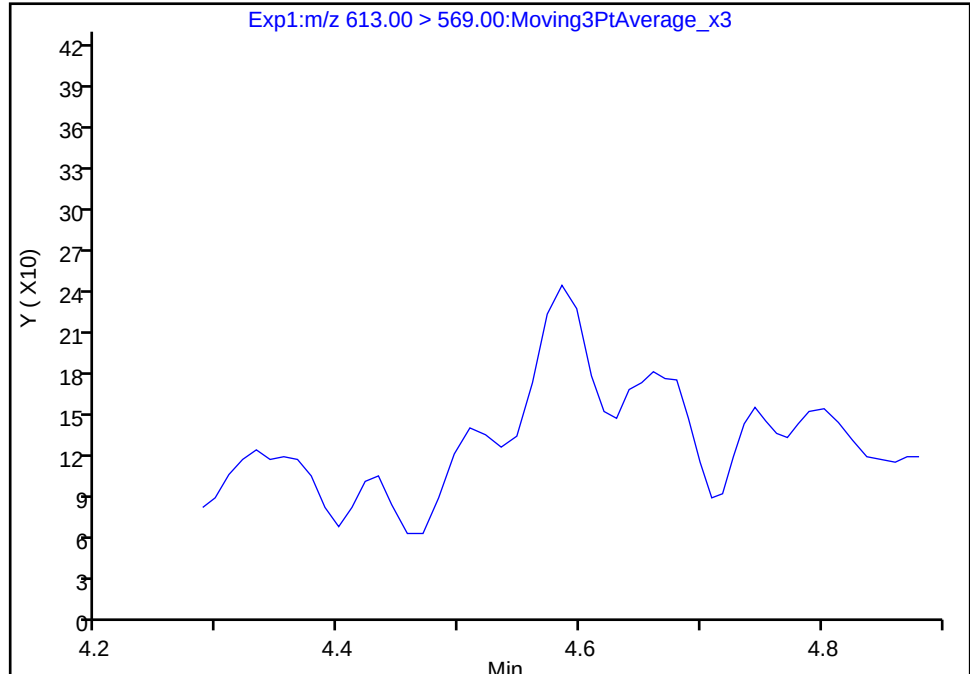
37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

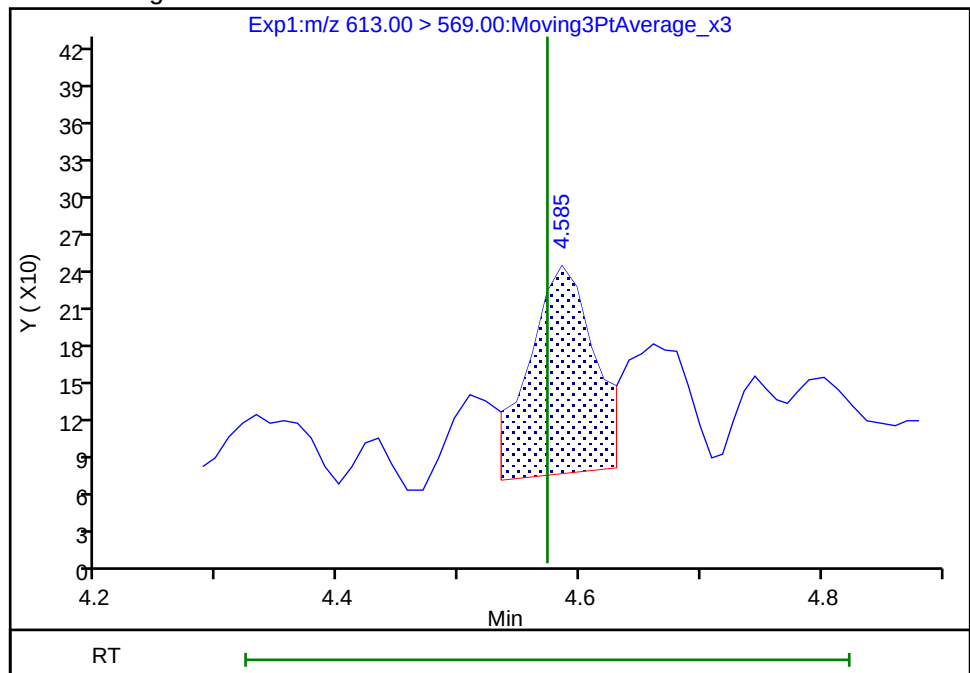
Not Detected

Expected RT: 4.57

Processing Integration Results



Manual Integration Results



RT: 4.59

Area: 617

Amount: 0.002784

Amount Units: ng/ml

Reviewer: chirgwinb, 25-Sep-2020 09:53:20

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#:

2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

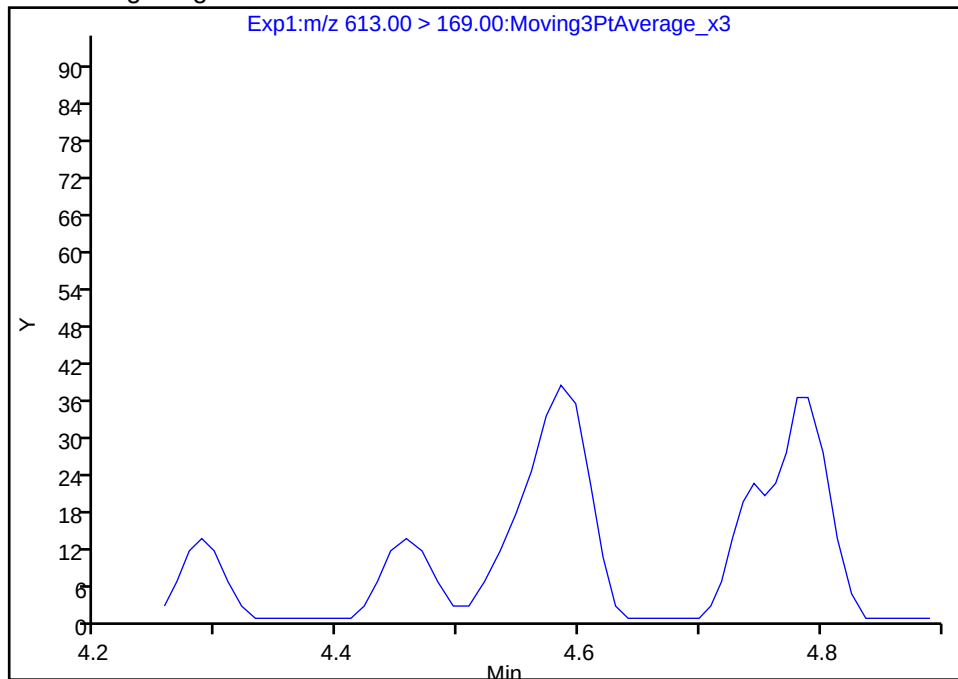
37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

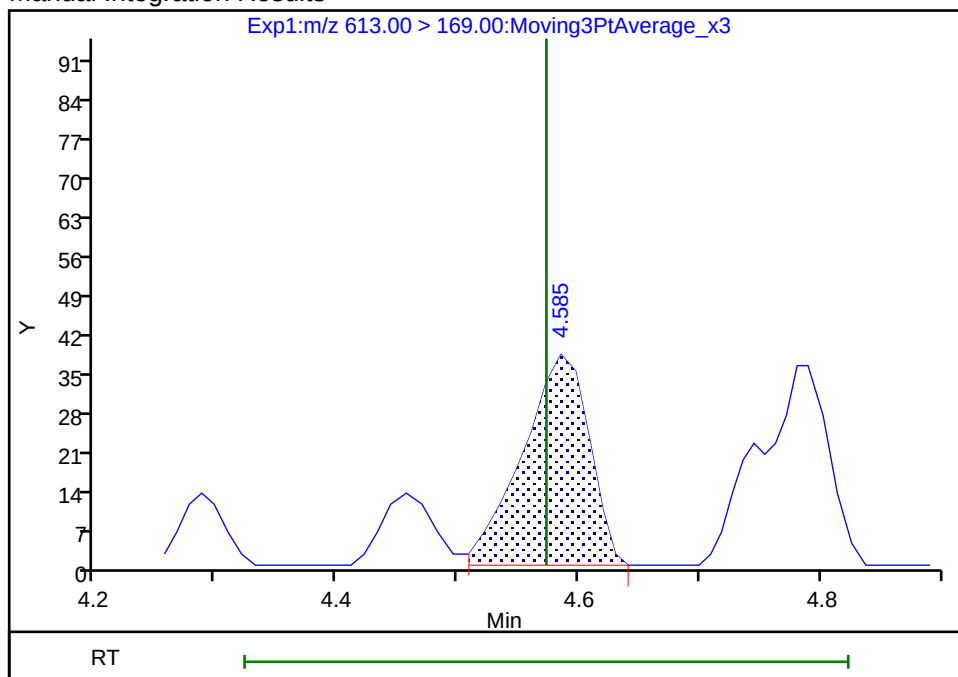
Not Detected

Expected RT: 4.57

Processing Integration Results



Manual Integration Results



RT: 4.59

Area: 145

Amount: 0.002784

Amount Units: ng/ml

Reviewer: chirgwinb, 25-Sep-2020 09:53:23

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

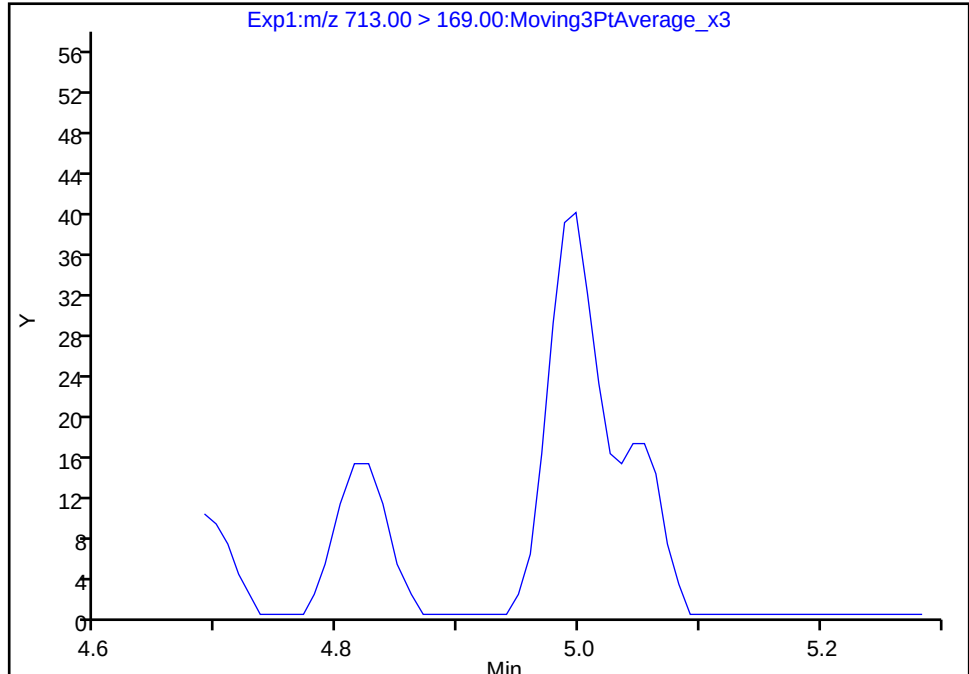
42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

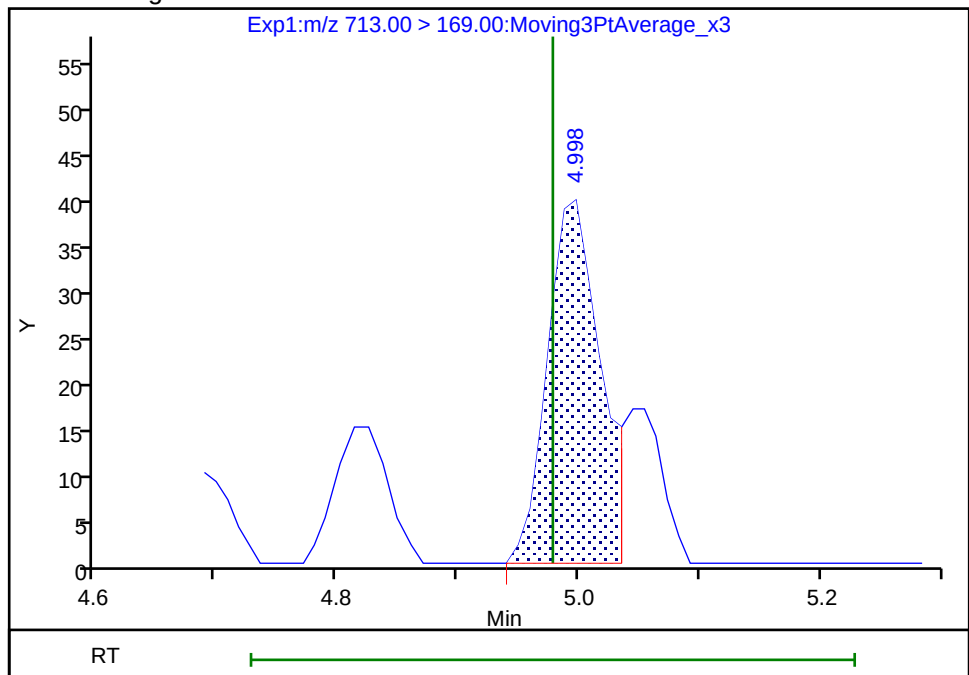
Not Detected

Expected RT: 4.98

Processing Integration Results



Manual Integration Results



RT: 5.00

Area: 119

Amount: 0.002869

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:19:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

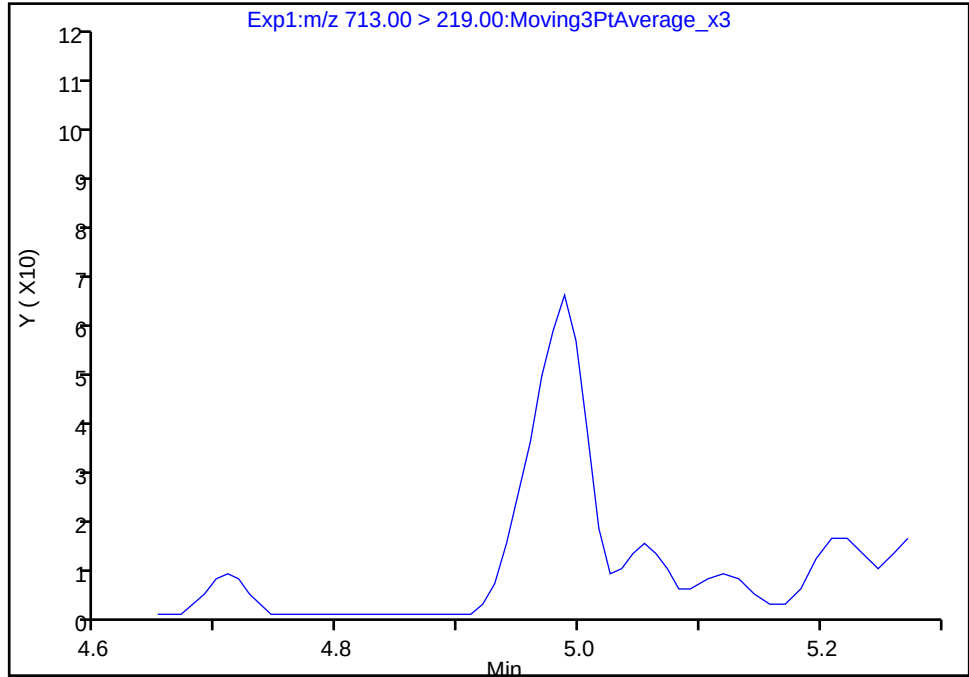
42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

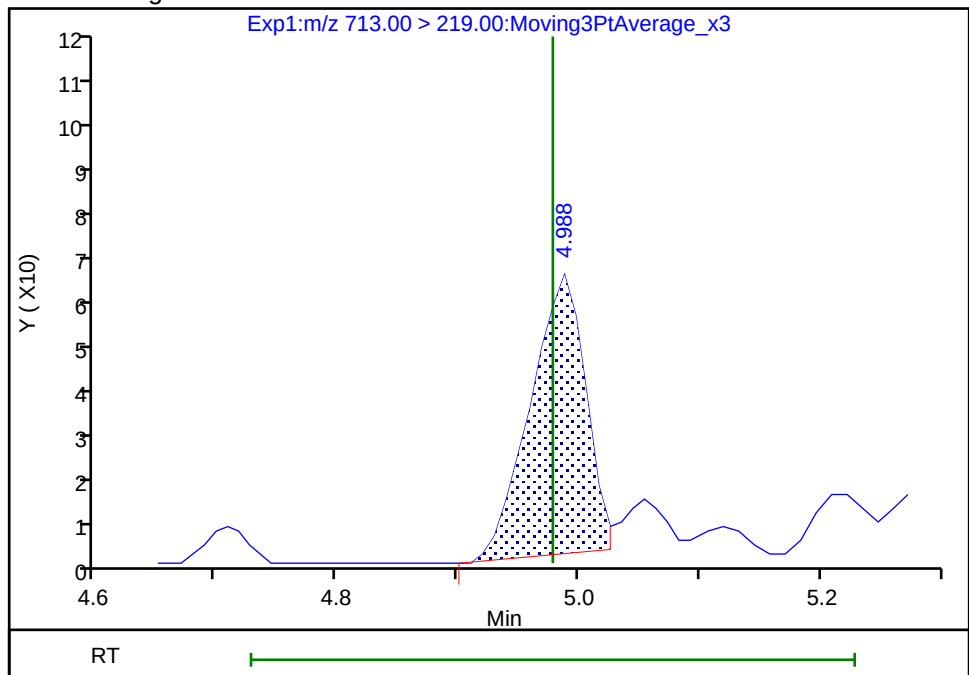
Not Detected

Expected RT: 4.98

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:19:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

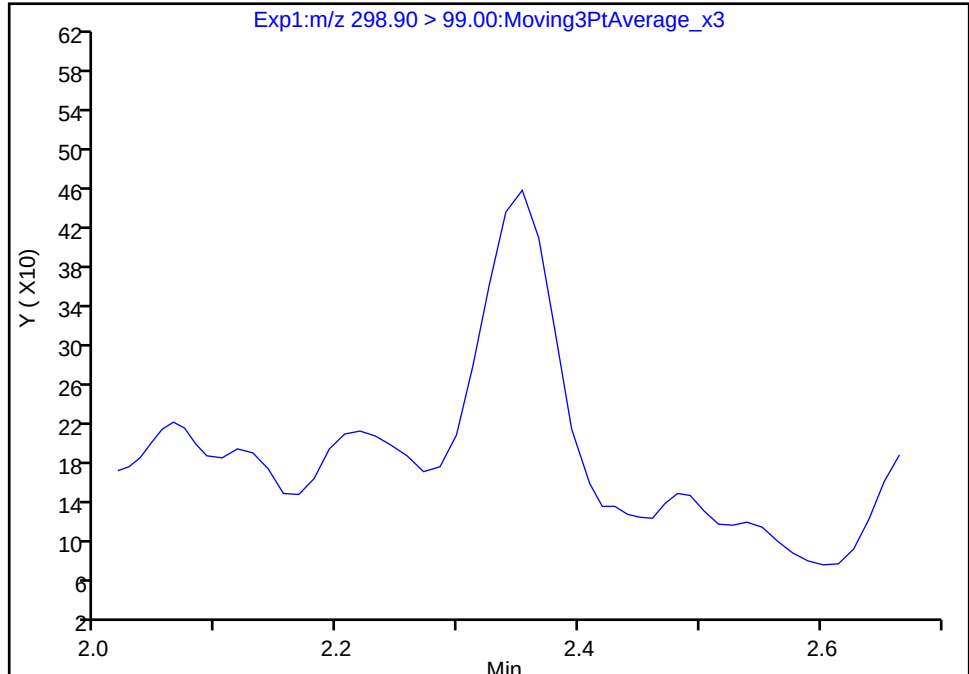
5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

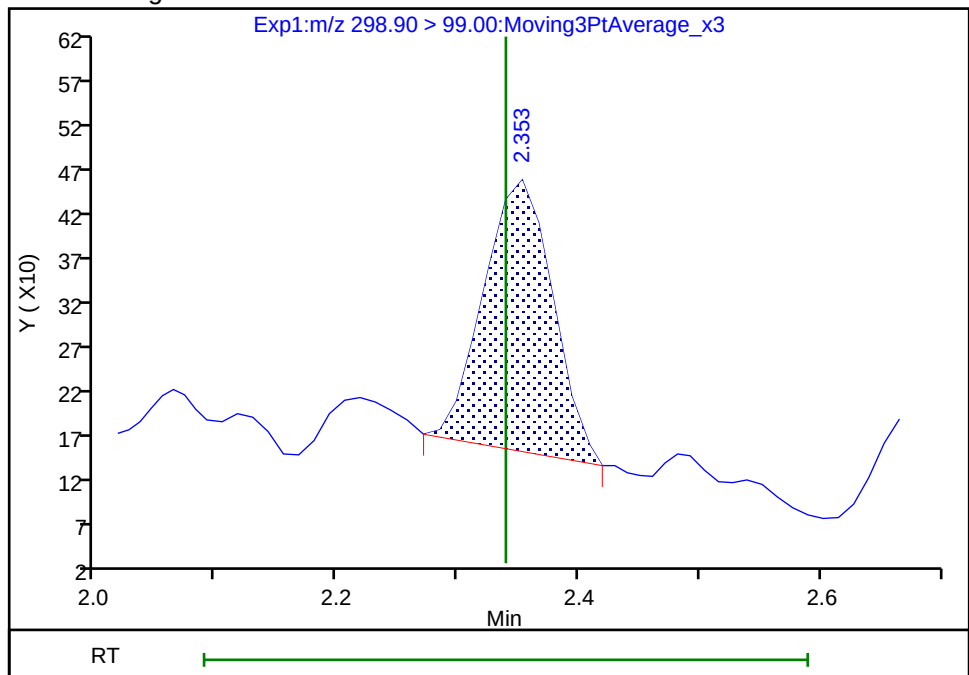
Not Detected

Expected RT: 2.34

Processing Integration Results



Manual Integration Results



RT: 2.35

Area: 1203

Amount: 0.005608

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:14:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

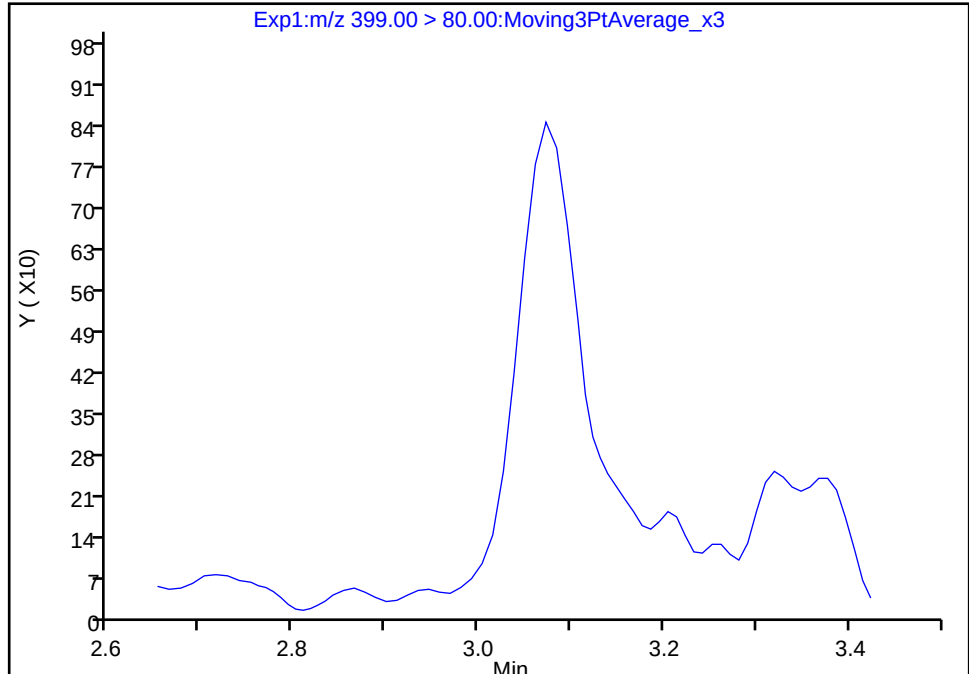
8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

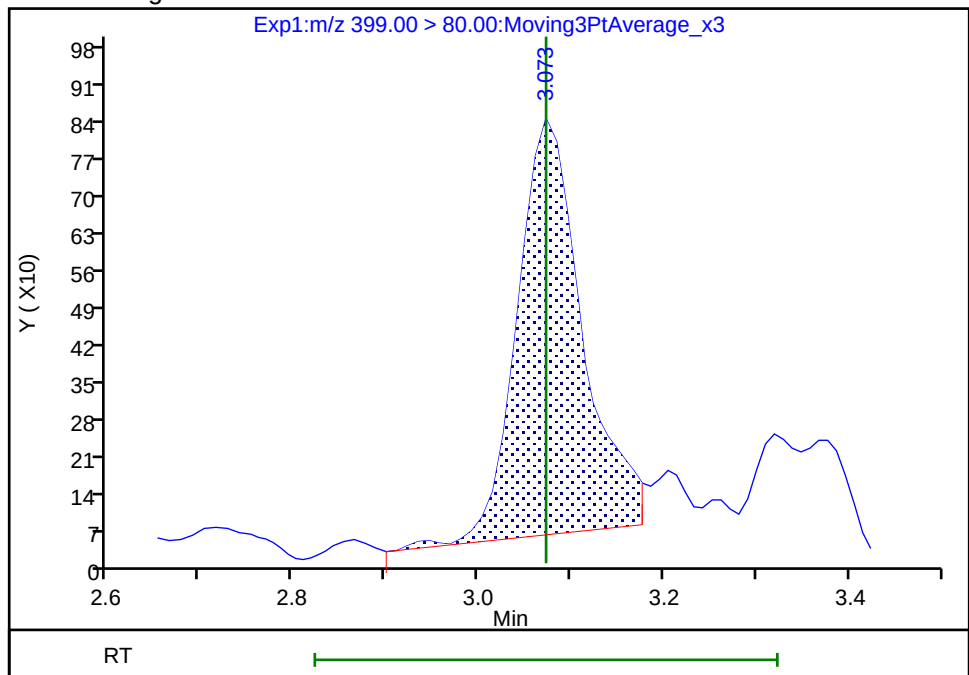
Not Detected

Expected RT: 3.07

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:16:07

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

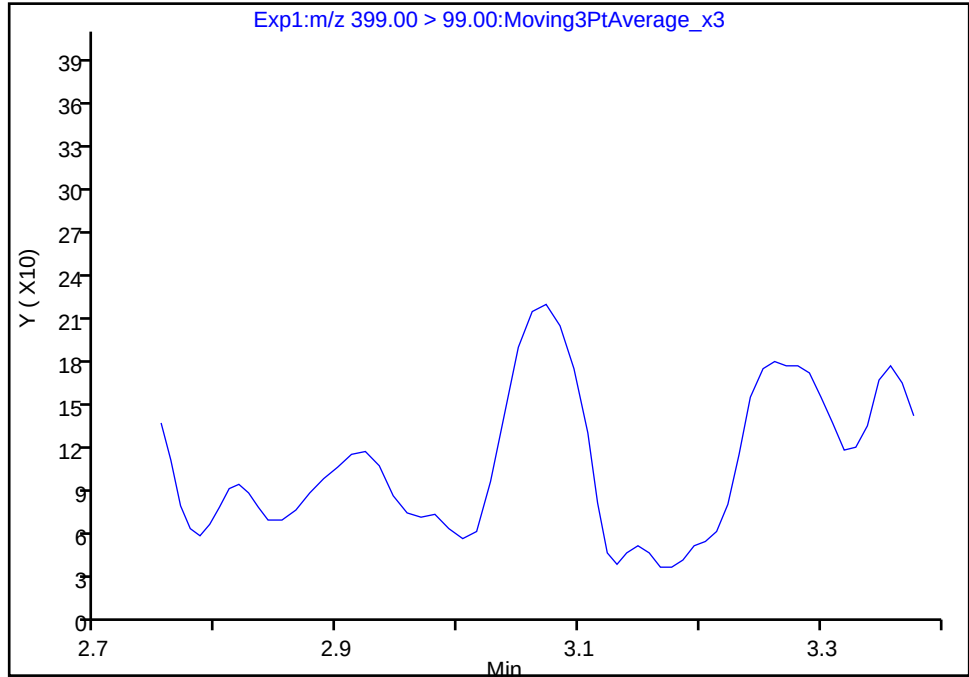
8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

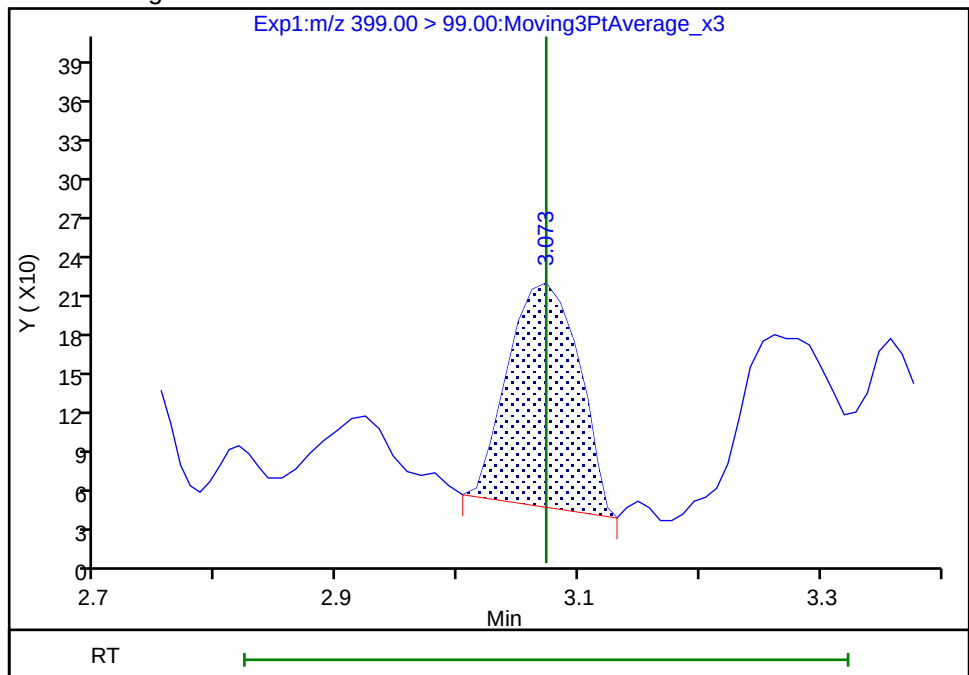
Not Detected

Expected RT: 3.07

Processing Integration Results



Manual Integration Results



RT: 3.07

Area: 707

Amount: 0.008039

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:16:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

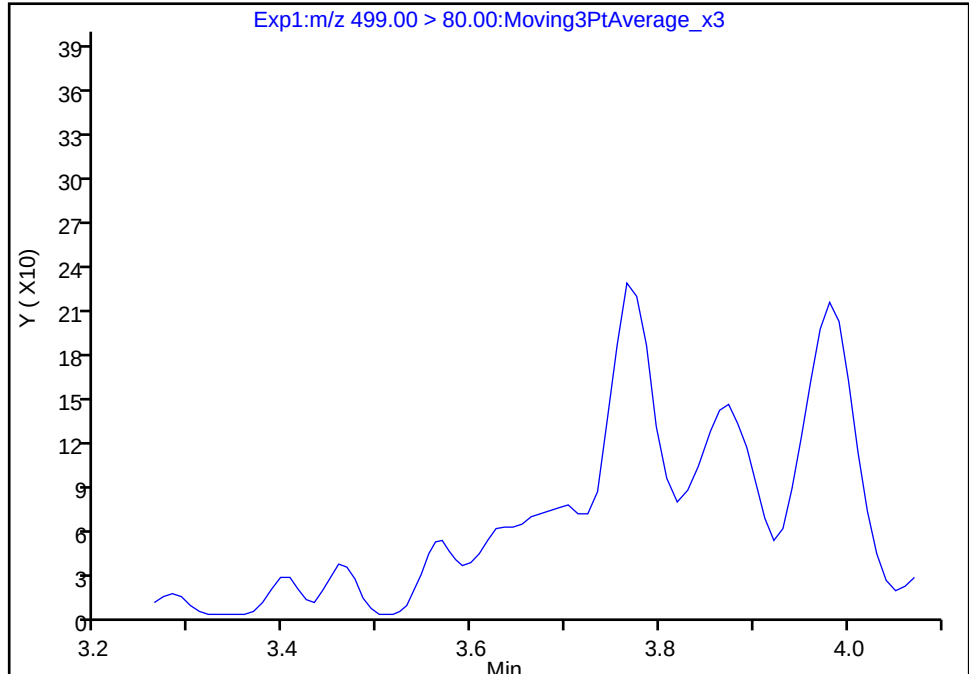
17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

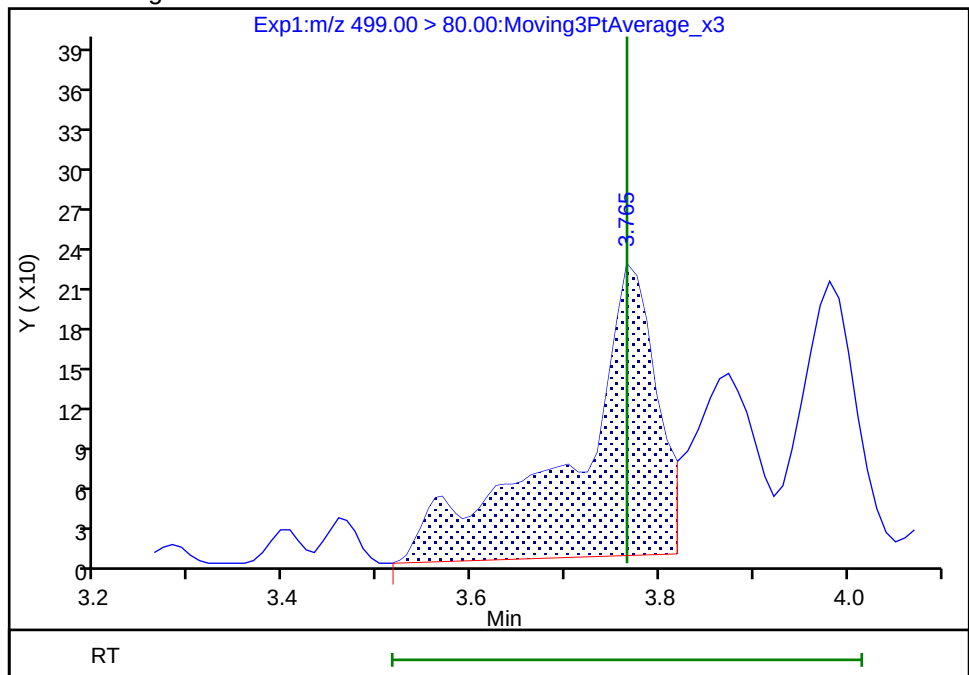
Not Detected

Expected RT: 3.77

Processing Integration Results



Manual Integration Results



RT: 3.77

Area: 1370

Amount: 0.003881

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:17:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

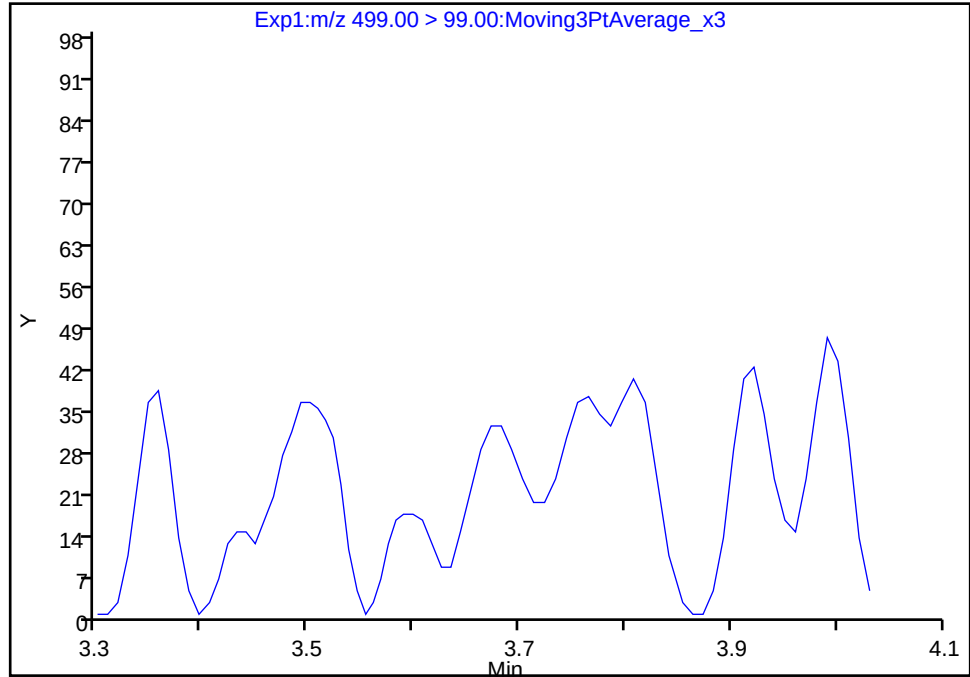
17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

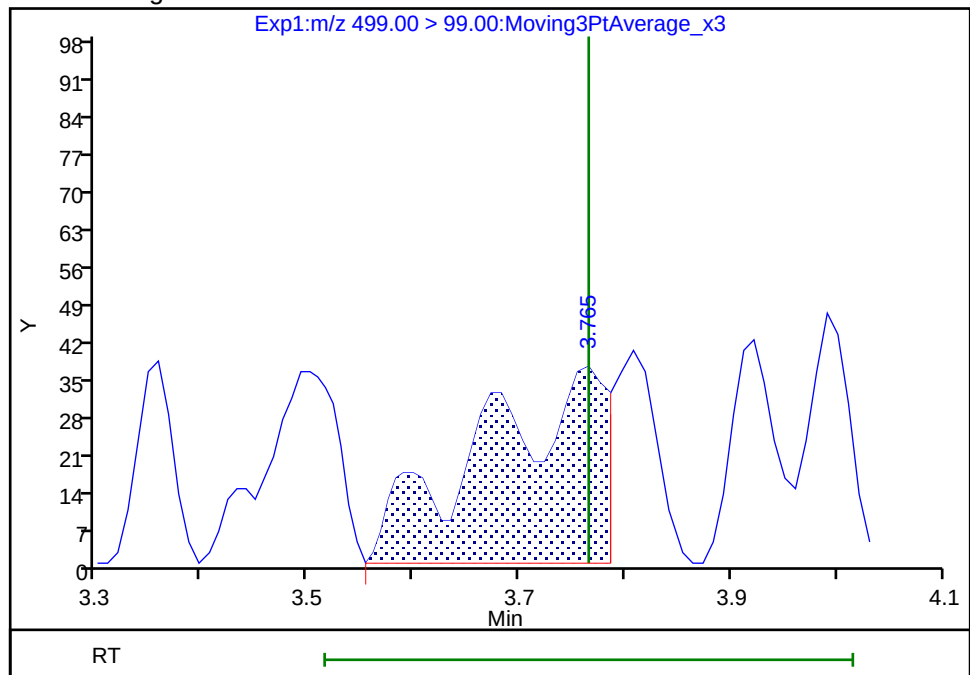
Not Detected

Expected RT: 3.77

Processing Integration Results



Manual Integration Results



RT: 3.77

Area: 295

Amount: 0.003881

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:17:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

EXP1

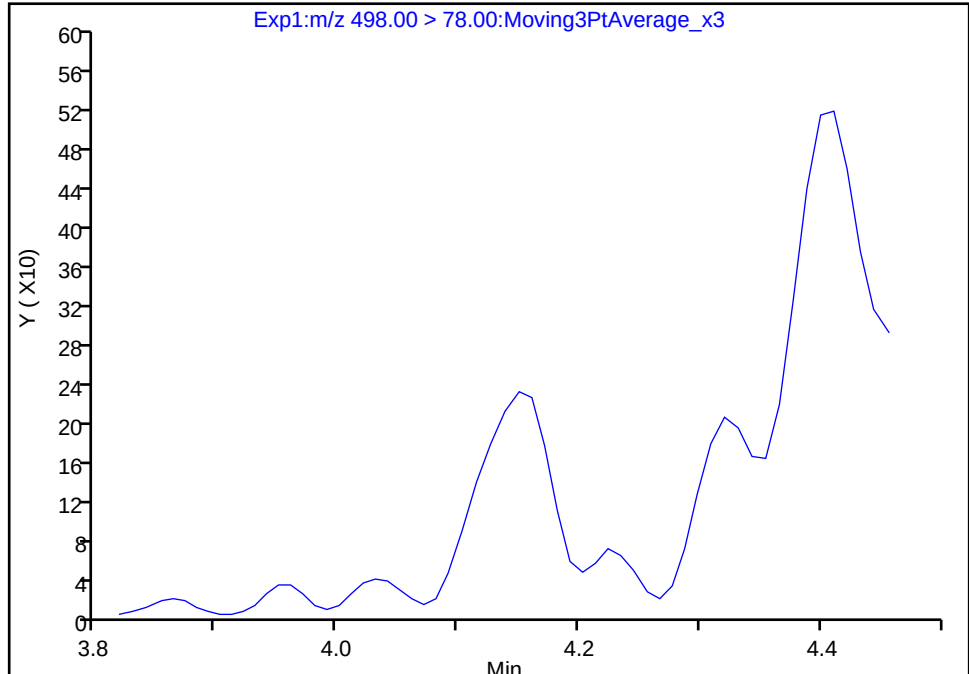
22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

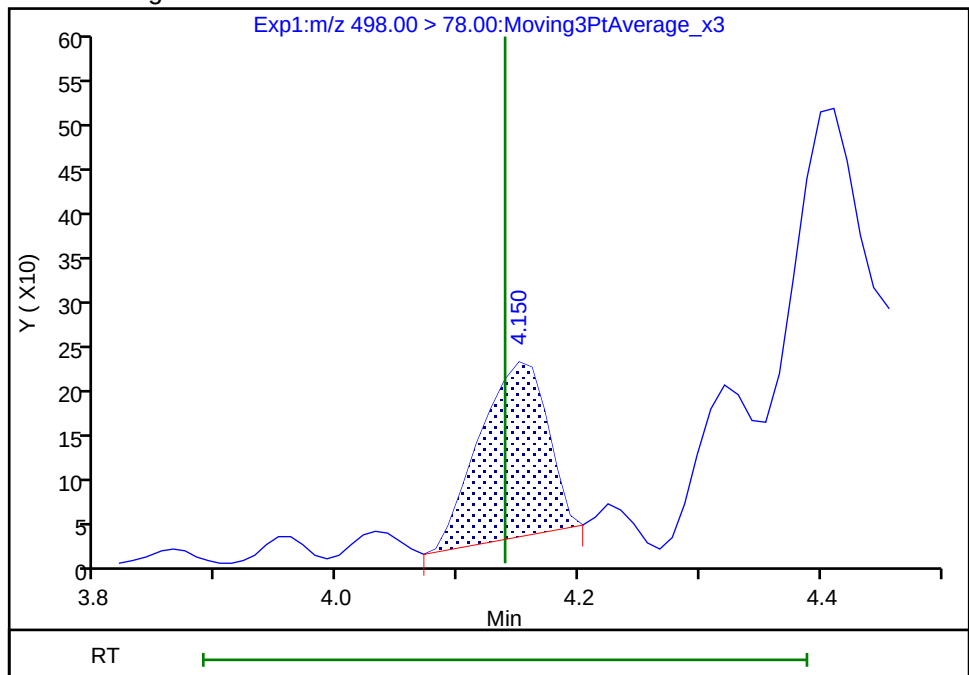
Not Detected

Expected RT: 4.14

Processing Integration Results



Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:18:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

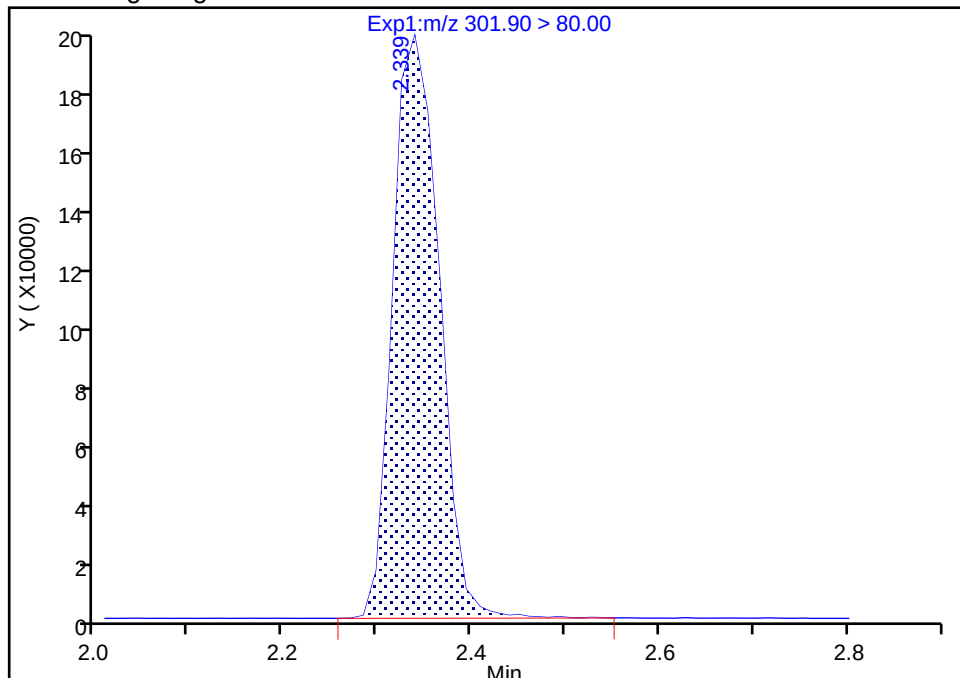
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d
Injection Date: 24-Sep-2020 16:21:55 Instrument ID: LC812
Lims ID: MB 200-159139/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

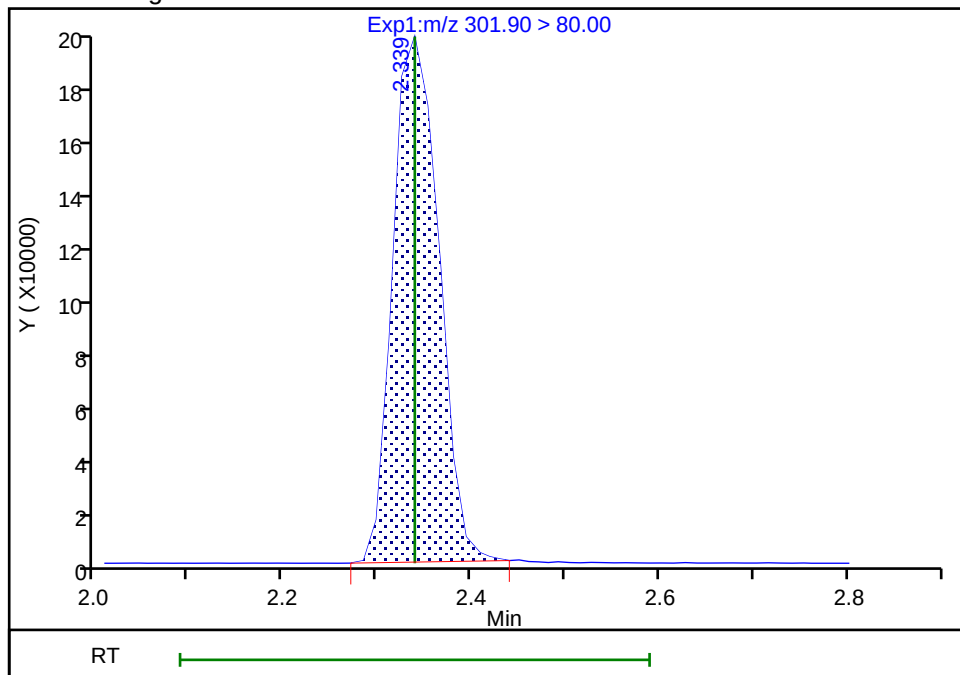
RT: 2.34
Area: 672496
Amount: 0.841865
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 665318
Amount: 0.832879
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:14:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

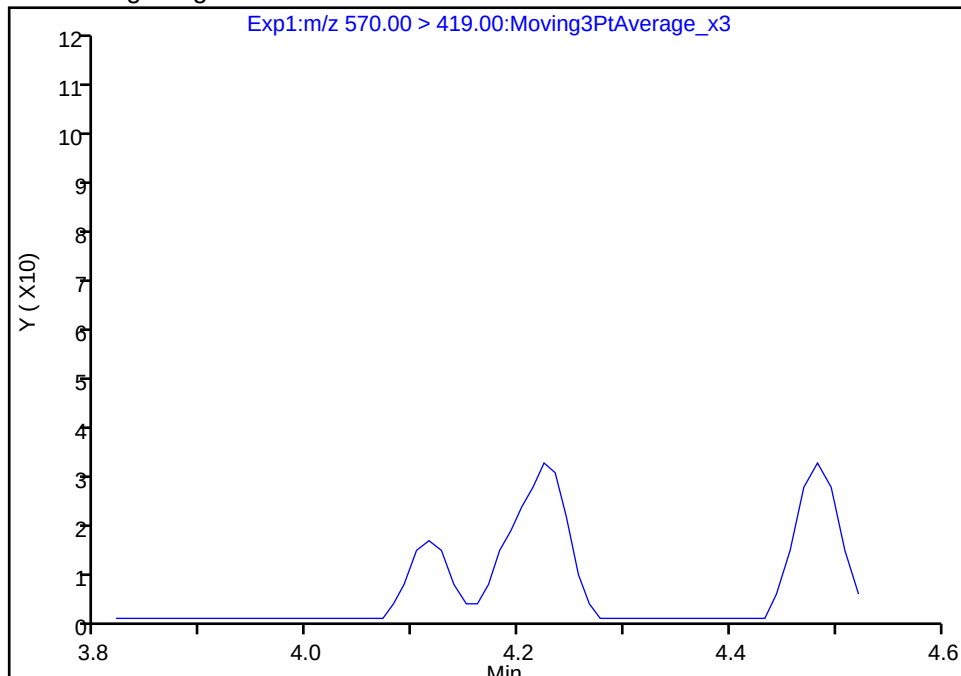
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d
Injection Date: 24-Sep-2020 16:21:55 Instrument ID: LC812
Lims ID: MB 200-159139/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

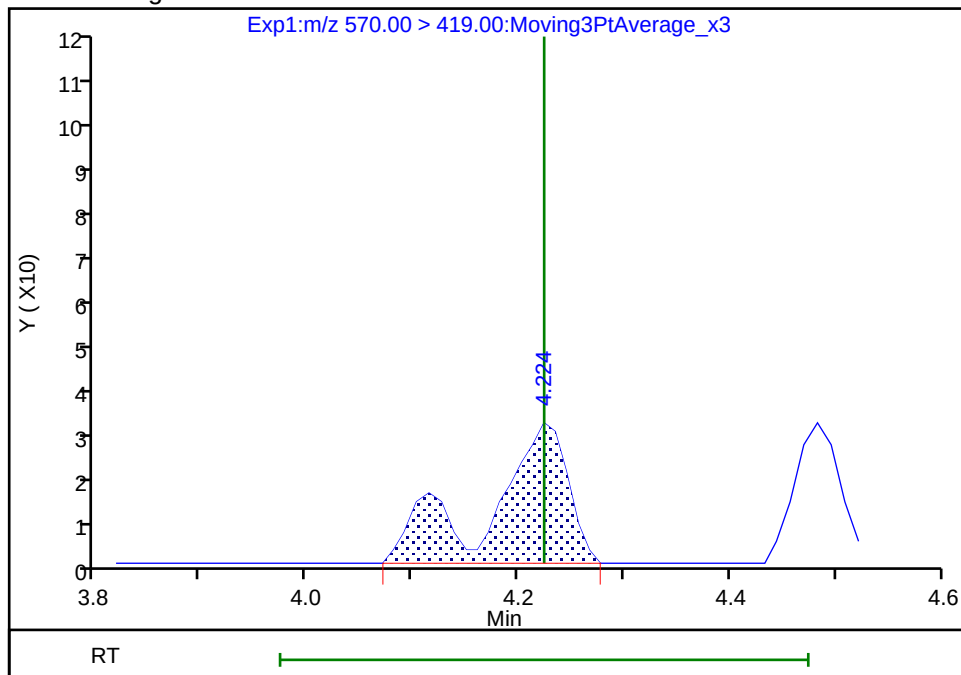
Not Detected
Expected RT: 4.22

Processing Integration Results



RT: 4.22
Area: 163
Amount: 0.009038
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:18:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

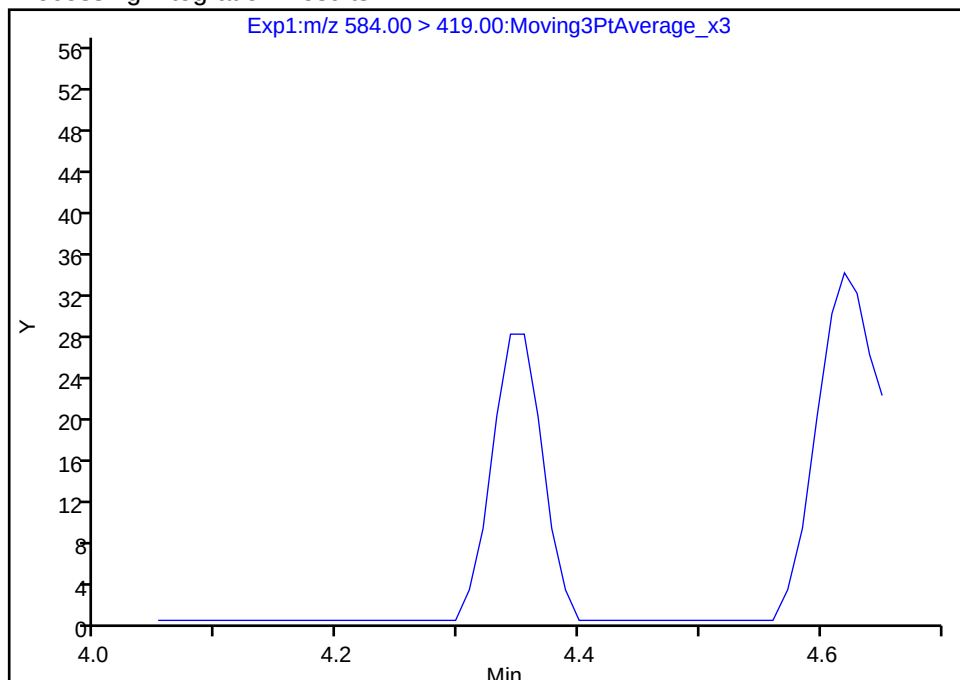
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d
Injection Date: 24-Sep-2020 16:21:55 Instrument ID: LC812
Lims ID: MB 200-159139/1-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

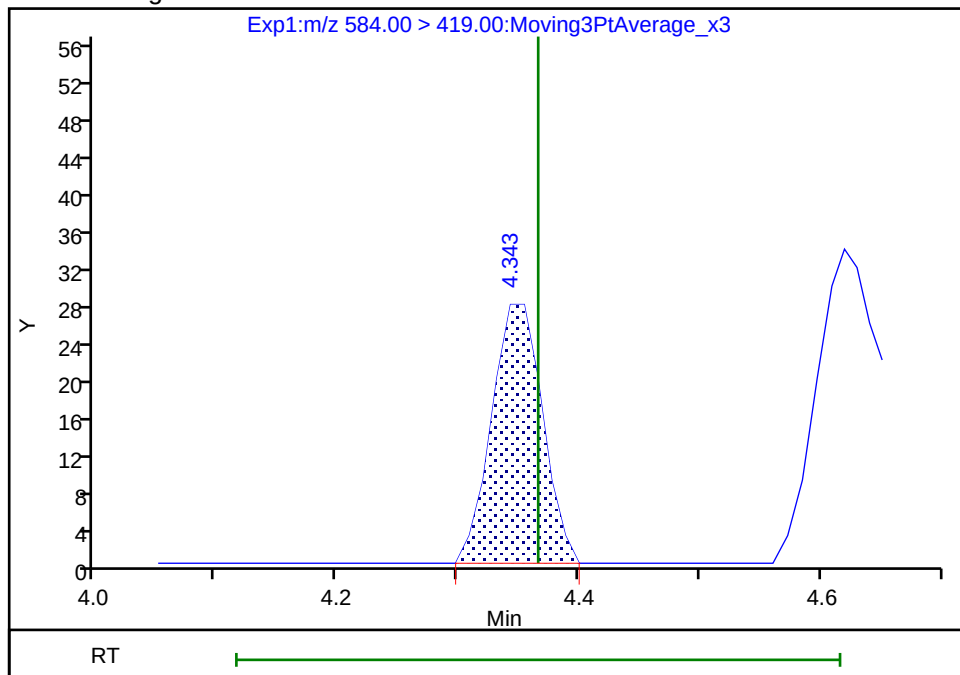
Not Detected
Expected RT: 4.37

Processing Integration Results



RT: 4.34
Area: 81
Amount: 0.003972
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:18:45

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B02.d

Injection Date: 24-Sep-2020 16:21:55

Instrument ID: LC812

Lims ID: MB 200-159139/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector: EXP1

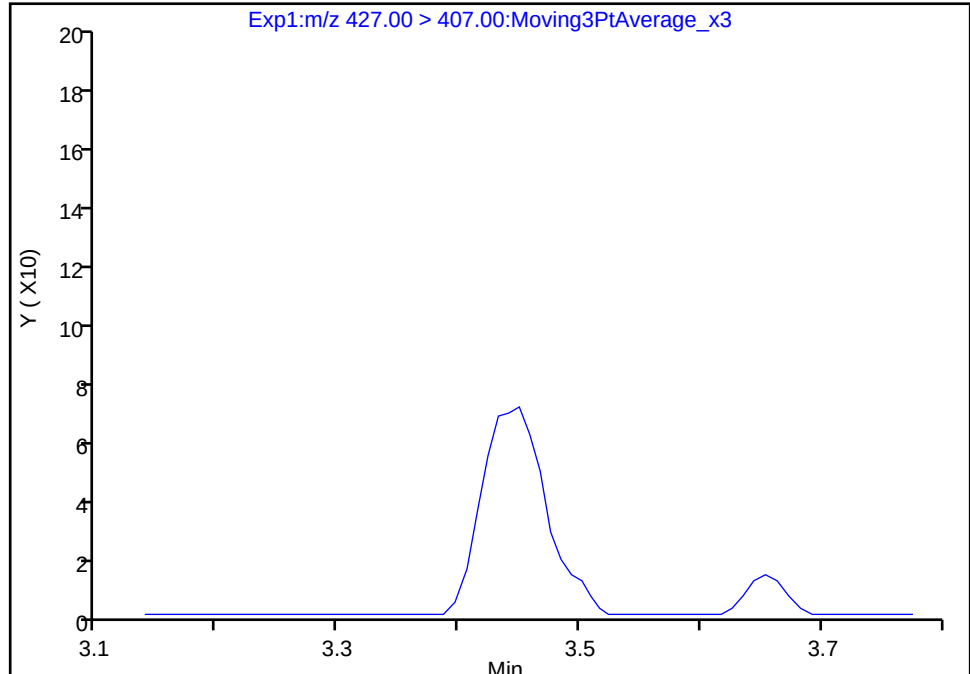
13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

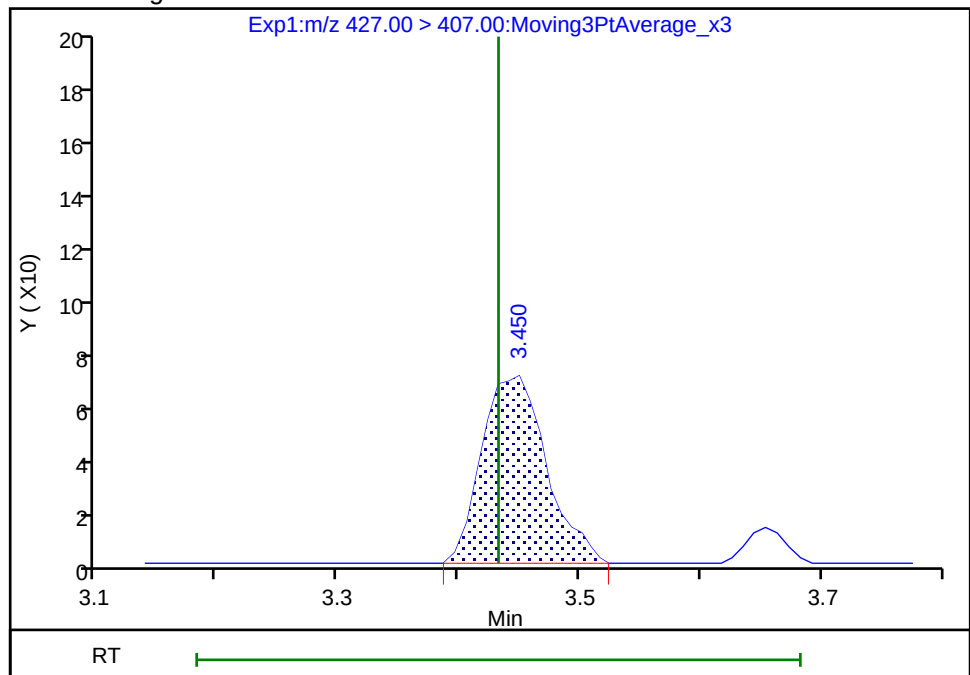
Not Detected

Expected RT: 3.43

Processing Integration Results



Manual Integration Results



RT: 3.45

Area: 252

Amount: 0.005257

Amount Units: ng/ml

Reviewer: khanphomeea, 25-Sep-2020 08:16:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-159115/11
 Matrix: Water Lab File ID: PA200922ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 09/22/2020 20:20
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159115 Units: ng/mL

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		0.13	0.028
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		0.050	0.027
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		0.050	0.021
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		0.050	0.012
335-67-1	Perfluorooctanoic acid (PFOA)	ND		0.050	0.024
375-95-1	Perfluorononanoic acid (PFNA)	ND		0.050	0.015
335-76-2	Perfluorodecanoic acid (PFDA)	ND		0.050	0.012
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		0.050	0.018
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		0.050	0.012
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		0.050	0.011
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		0.050	0.015
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		0.050	0.016
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		0.050	0.017
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		0.050	0.0097
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.050	0.012
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.050	0.022
754-91-6	Perfluorooctanesulfonamide (FOSA)	ND		0.050	0.014
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		0.13	0.020
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		0.13	0.023
27619-97-2	6:2 FTS	ND		0.13	0.018
39108-34-4	8:2 FTS	ND		0.050	0.017

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: ICB 200-159115/11
 Matrix: Water Lab File ID: PA200922ICAL11.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: _____ Date Extracted: _____
 Sample wt/vol: 1(mL) Date Analyzed: 09/22/2020 20:20
 Con. Extract Vol.: _____ Dilution Factor: 1
 Injection Volume: 20(uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159115 Units: ng/mL

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	74		25-150
STL00992	13C4 PFBA	75		25-150
STL01893	13C5 PFPeA	77		25-150
STL00993	13C2 PFHxA	74		50-150
STL01892	13C4 PFHpA	75		50-150
STL00990	13C4 PFOA	76		50-150
STL00995	13C5 PFNA	73		50-150
STL00996	13C2 PFDA	71		50-150
STL00997	13C2 PFUnA	69		50-150
STL00998	13C2 PFDoA	73		50-150
STL02116	13C2 PFTeDA	73		50-150
STL02337	13C3 PFBS	73		50-150
STL00994	18O2 PFHxS	71		50-150
STL00991	13C4 PFOS	73		50-150
STL02118	d3-NMeFOSAA	69		50-150
STL02117	d5-NEtFOSAA	74		50-150
STL02279	M2-6:2 FTS	68		25-150
STL02280	M2-8:2 FTS	74		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
 Lims ID: ICB
 Client ID:
 Sample Type: ICB
 Inject. Date: 22-Sep-2020 20:20:13 ALS Bottle#: 8 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: ICB
 Misc. Info.: 200-0042904-011 Plate: 1 Rack: 1
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 23-Sep-2020 10:27:14 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1050

First Level Reviewer: chirgwinb

Date: 23-Sep-2020 10:14:44

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	2.000	1.990	0.010	0.577	1019038	0.9393		75.1	6958	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.000	2.000	0.0	1.000	9311	0.0122		0.9		M
D 3 13C5 PFPeA										
267.90 > 223.00	2.340	2.339	0.001	0.675	744121	0.9570		76.6	3612	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.340	2.339	0.001	1.000	5683	0.009040		0.4		M
D 47 13C3 PFBS										
301.90 > 80.00	2.367	2.353	0.014	0.683	803027	0.8480		72.9	3917	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.367	2.353	0.014	1.000	3605	0.005238	Target=2.07	12.9		
298.90 > 99.00	2.353	2.353	0.0	0.994	1883		1.91(1.04-3.11)	3.5		
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.678	2.678	0.0	1.000	529	0.006207		15.1		M
D 60 M2-4:2 FTS										
329.00 > 81.00	2.678	2.678	0.0	0.772	61573	0.8657		74.1	178	
D 7 13C2 PFHxA										
315.00 > 270.00	2.716	2.716	0.0	0.783	740493	0.9248		74.0	3320	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.716	2.716	0.0	1.000	5156	0.008644	Target=12.44	2.0		M
313.00 > 119.00	2.704	2.716	-0.012	0.995	458		11.26(6.22-18.66)	1.4		M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.716	2.716	0.0	0.877	2651	0.004616	Target=3.64	15.4		
349.00 > 99.00	2.716	2.716	0.0	0.877	792		3.35(1.82-5.46)	4.7		M
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.819	2.818	0.001	0.813	61187	0.8201		65.6	950	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 11 18O2 PFHxS										
403.00 > 84.00	3.096	3.084	0.012	0.893	573530	0.8442		71.4	2046	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.096	3.096	0.0	1.000	5134	0.009585	Target=4.60		18.8	M
399.00 > 99.00	3.085	3.096	-0.011	0.996	986		5.21(2.30-6.91)		2.6	M
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.096	3.096	0.0	1.000	3739	0.006821	Target=3.34		2.5	M
363.00 > 169.00	3.096	3.096	0.0	1.000	755		4.95(1.67-5.01)		4.2	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.096	0.0	0.893	683792	0.9388		75.1	4300	
77 DONA										
377.00 > 251.00	3.140	3.132	0.008	0.831	6603	0.005279	Target=2.44		19.7	
377.00 > 85.00	3.132	3.132	0.0	0.829	2786		2.37(1.22-3.67)		6.3	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.450	3.450	0.0	0.914	1674	0.003559	Target=7.08		25.8	M
449.00 > 99.00	3.450	3.450	0.0	0.914	407		4.11(3.54-10.63)		5.0	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.459	3.450	0.009	0.998	73270	0.8069		67.9	629	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.450	3.450	0.0	0.997	226	0.004590			8.0	M
D 14 13C4 PFOA										
417.00 > 372.00	3.467	3.458	0.009	1.000	704495	0.9452		75.6	4007	
* 62 13C2 PFOA										
415.00 > 370.00	3.467	3.458	0.009		946396	1.25			2754	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.467	3.458	0.009	1.000	4125	0.007089	Target=2.29		1.8	M
413.00 > 169.00	3.459	3.458	0.001	0.998	1344		3.07(1.14-3.43)		6.5	M
D 18 13C4 PFOS										
503.00 > 80.00	3.776	3.776	0.0	1.089	485153	0.8729		73.0	2365	
17 Perfluorooctanesulfonic acid										RMa
499.00 > 80.00	3.776	3.776	0.0	1.000	2224	0.005041	Target=7.10		6.7	Ra
499.00 > 99.00	3.786	3.776	0.010	1.003	900		2.47(3.55-10.64)		4.6	
D 19 13C5 PFNA										
468.00 > 423.00	3.797	3.797	0.0	1.095	575052	0.9155		73.2	5671	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.808	3.797	0.011	1.003	4298	0.009174	Target=5.83		1.6	M
463.00 > 169.00	3.797	3.797	0.0	1.000	538		7.99(2.91-8.74)		8.2	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.941	3.941	0.0	1.044	1348	0.003472			23.6	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.072	4.072	0.0	1.078	1246	0.003574	Target=3.38		21.9	
549.00 > 99.00	4.072	4.072	0.0	1.078	512		2.43(1.69-5.08)		3.7	M
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.092	4.092	0.0	1.000	1988	0.004688	Target=6.81		4.0	M
513.00 > 169.00	4.092	4.092	0.0	1.000	373		5.33(3.41-10.22)		7.1	M
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.180	535722	0.8894		71.2	4415	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.104	4.103	0.001	1.000	166	0.005303			5.0	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.103	0.001	1.184	94705	0.8855		73.9	1152	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.151	0.0	1.197	892854	0.9198		73.6	2467	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.161	4.151	0.010	1.003	2826	0.004232			9.7	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.245	4.235	0.010	1.224	29744	0.8673		69.4	657	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.257	4.245	0.012	1.003	435	0.0194			4.5	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.344	4.332	0.012	1.150	784	0.002687	Target=3.31		10.0	M
599.00 > 99.00	4.332	4.332	0.0	1.147	283		2.77(1.66-4.97)		4.4	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.366	4.355	0.011	1.259	394167	0.8668		69.3	3005	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.366	4.355	0.011	1.000	3805	0.0122	Target=6.57		4.1	M
563.00 > 169.00	4.355	4.355	0.0	0.997	672		5.66(3.28-9.85)		17.1	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.259	34141	0.9261		74.1	441	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.389	4.378	0.011	1.005	426	0.0170			7.2	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.457	4.444	0.013	1.180	1232	0.003679			30.3	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.598	4.585	0.013	1.326	440936	0.9175		73.4	4616	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.585	4.585	0.0	0.997	1465	0.004259	Target=5.16		1.2	
613.00 > 169.00	4.585	4.585	0.0	0.997	324		4.52(2.58-7.75)		9.0	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.598	4.610	-0.012	1.120	138	0.007934			6.1	M
75 Perfluorododecanesulfonic acid (										RM
699.00 > 80.00	4.754	4.763	-0.009	1.259	1256	0.0134	Target=0.45		2.5	RM
699.00 > 99.00	4.762	4.763	-0.001	1.261	758		1.66(0.22-0.67)		13.7	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.814	4.802	0.012	1.047	1702	0.005826	Target=3.30		1.0	
663.00 > 169.00	4.802	4.802	0.0	1.044	578		2.94(1.65-4.95)		13.3	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.997	4.998	-0.001	1.441	313602	0.9161		73.3	4351	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.997	4.998	-0.001	1.000	308	0.005360	Target=1.06		10.1	M
713.00 > 219.00	5.007	4.998	0.009	1.002	435		0.71(0.53-1.59)		16.8	M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.372	5.361	0.011	1.549	338041	0.8713		69.7	3426	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.372	5.372	0.0	1.000	4512	-0.004222	Target=3.06		4.1	
813.00 > 169.00	5.372	5.372	0.0	1.000	1380		3.27(1.53-4.58)		44.0	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.755	5.756	-0.001	1.071	1363	0.006744	Target=2.82		1.9	M
913.00 > 169.00	5.755	5.756	-0.001	1.071	545		2.50(1.41-4.24)		13.2	M

QC Flag Legend

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

a - User Assigned ID

Reagents:

PFAS32NCBLK20_00005

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d

Injection Date: 22-Sep-2020 20:20:13

Instrument ID: LC812

Lims ID: ICB

Client ID:

Operator ID: lc812tech

ALS Bottle#: 8

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

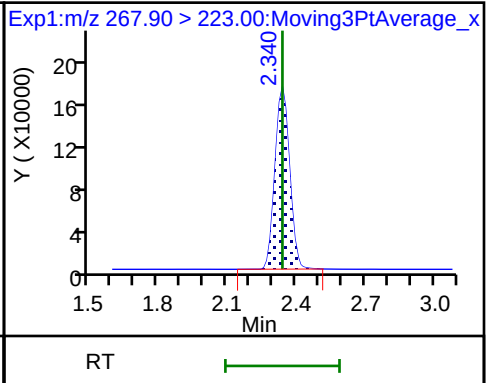
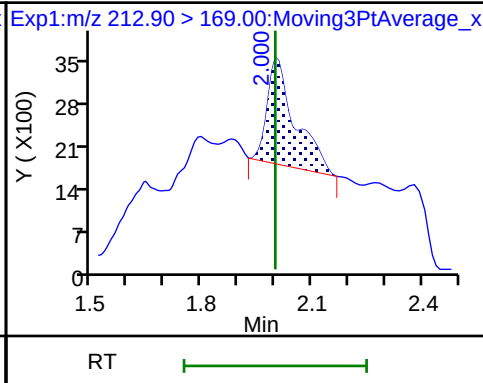
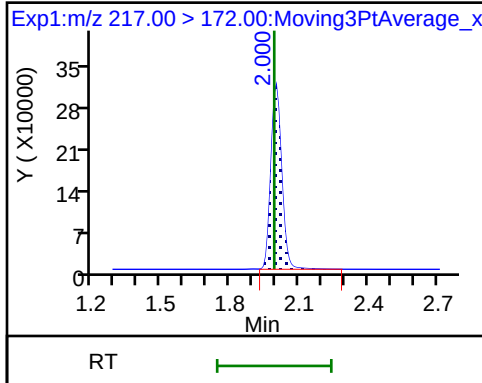
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

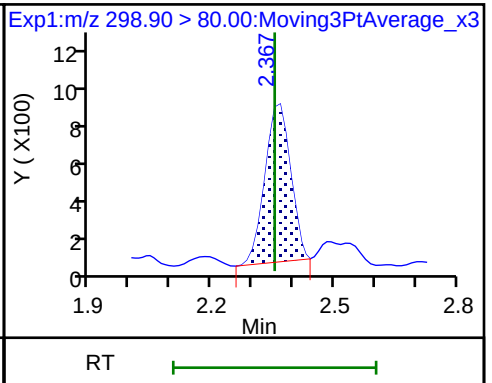
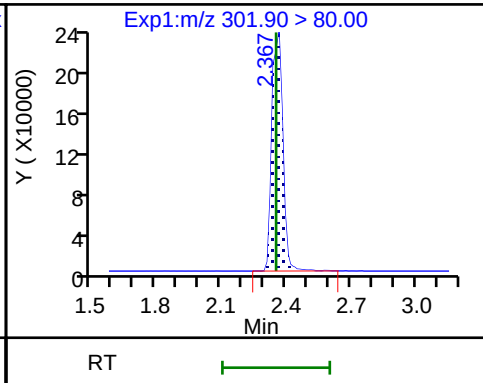
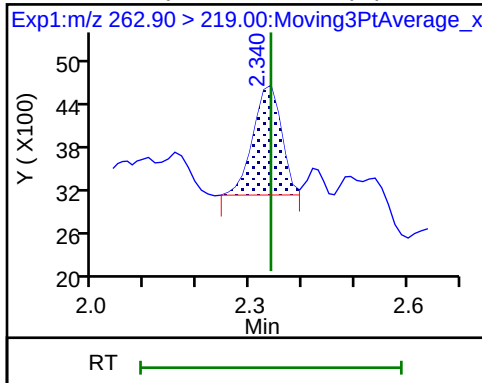
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

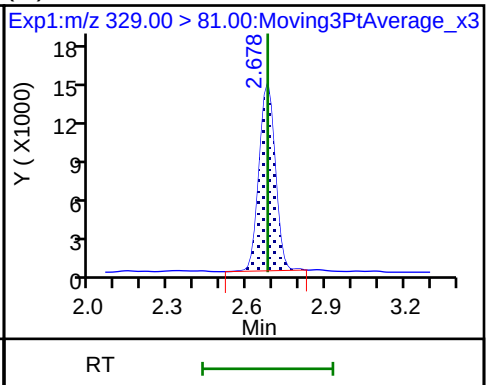
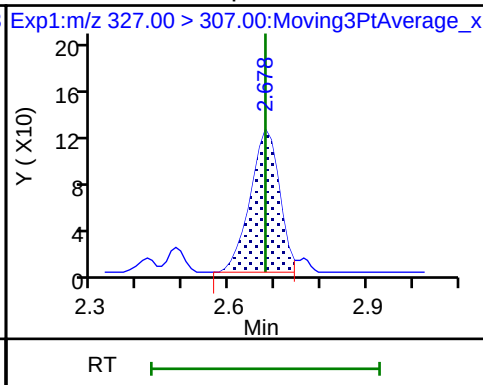
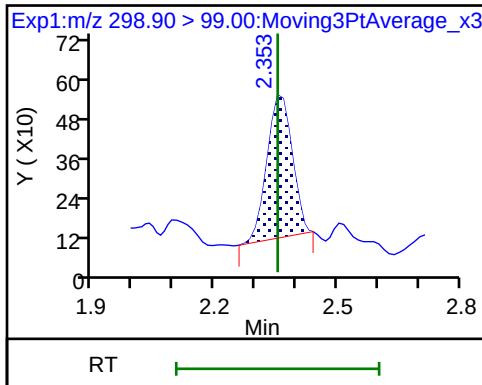
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

61 1H,1H,2H,2H-perfluorohexanesulfo (M)

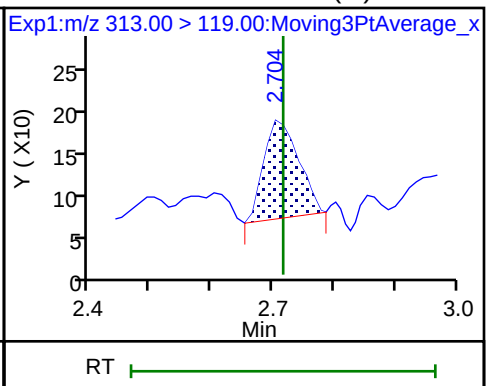
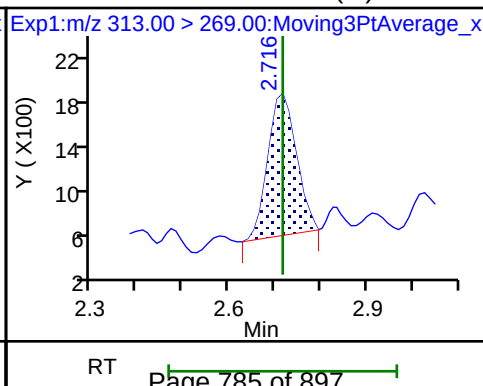
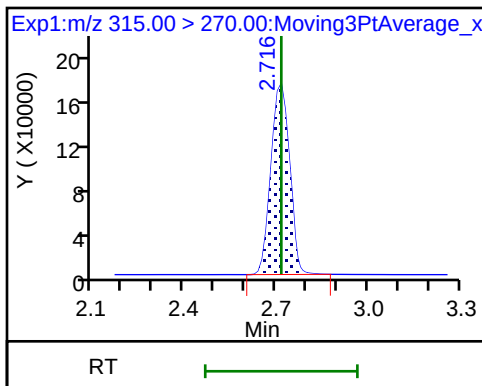
D 50 M2-4:2 FTS



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

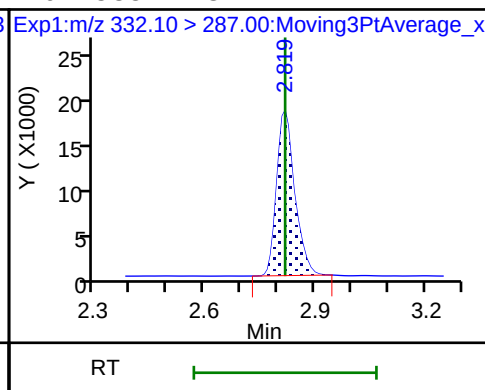
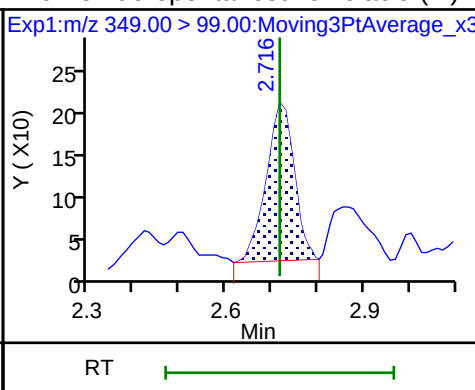
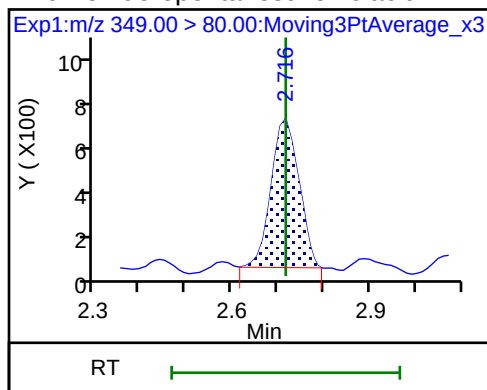
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid

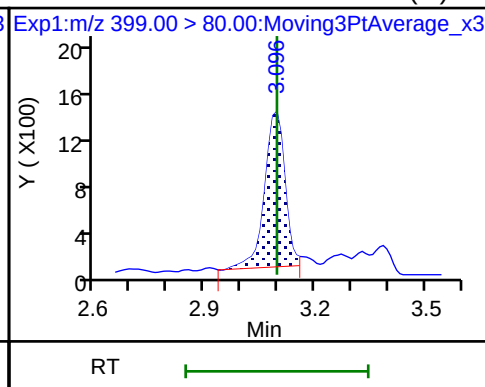
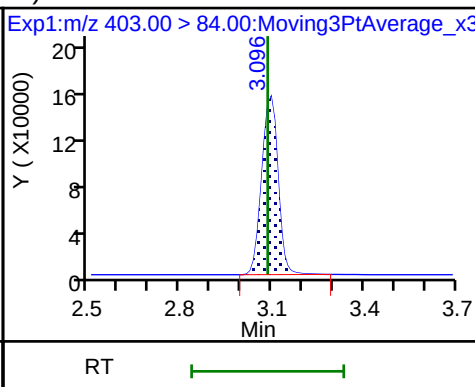
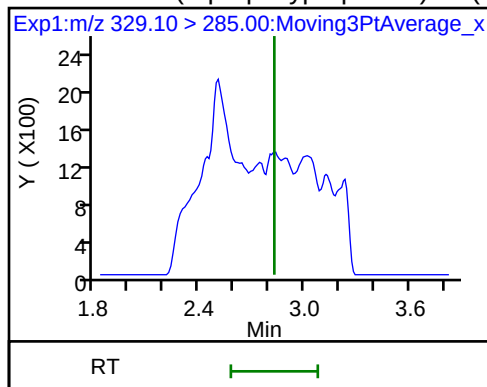
70 Perfluoropentanesulfonic acid (M)

D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (ND)11 18O2 PFHxS

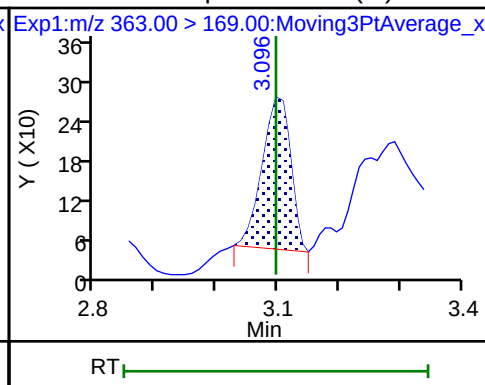
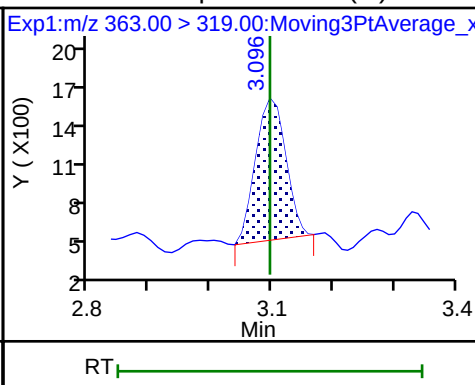
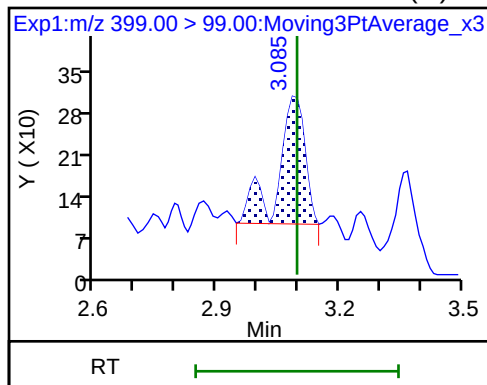
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

10 Perfluoroheptanoic acid (M)

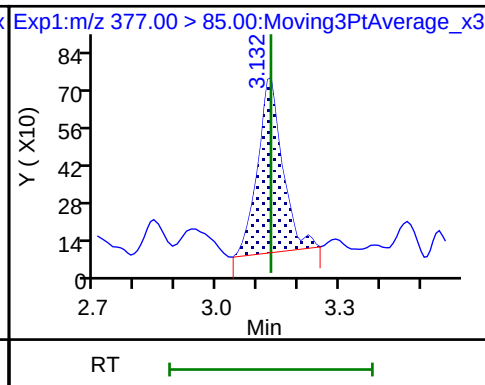
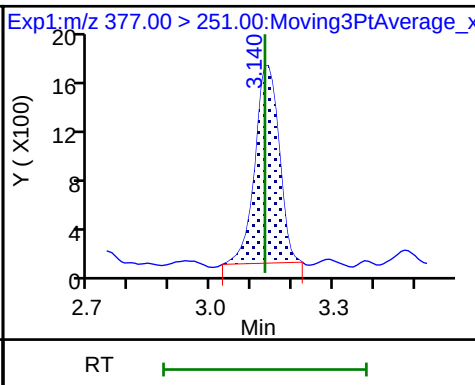
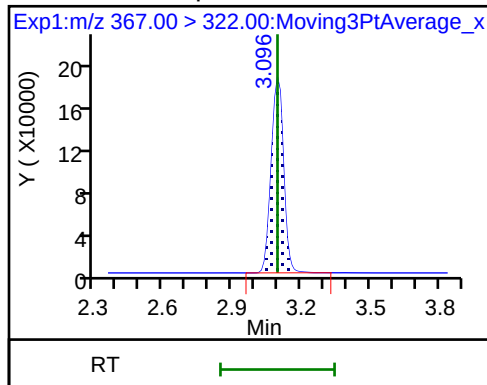
10 Perfluoroheptanoic acid (M)



D 9 13C4 PFHpA

77 DONA

77 DONA



16 Perfluoroheptanesulfonic acid (M)

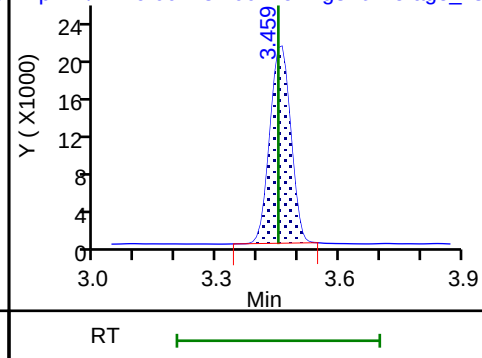
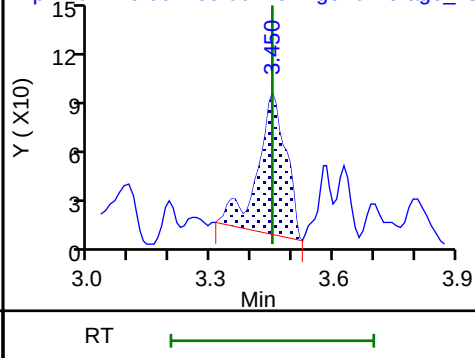
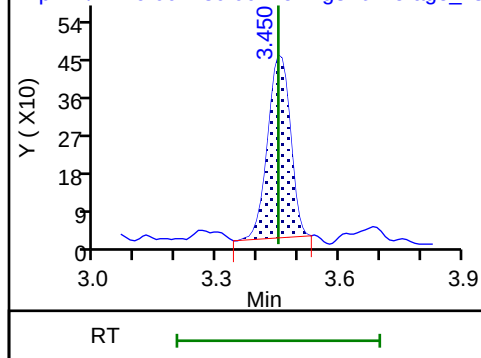
16 Perfluoroheptanesulfonic acid (M)

D 12 M2-6:2 FTS

Exp1:m/z 449.00 > 80.00:Moving3PtAverage_x3

Exp1:m/z 449.00 > 99.00:Moving3PtAverage_x3

Exp1:m/z 429.00 > 81.00:Moving3PtAverage_x3



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

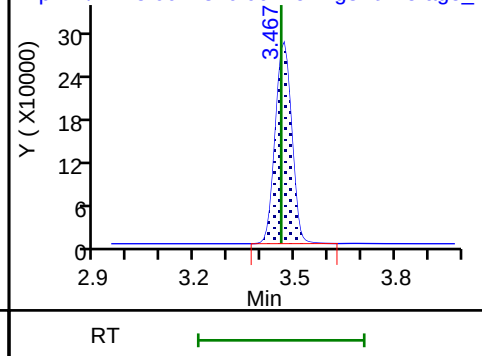
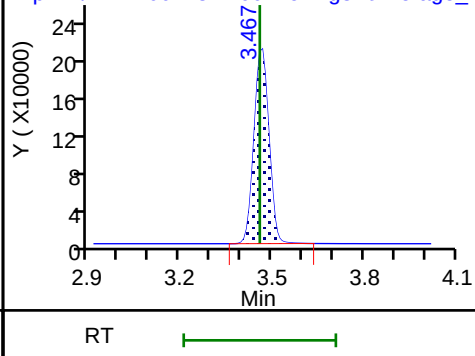
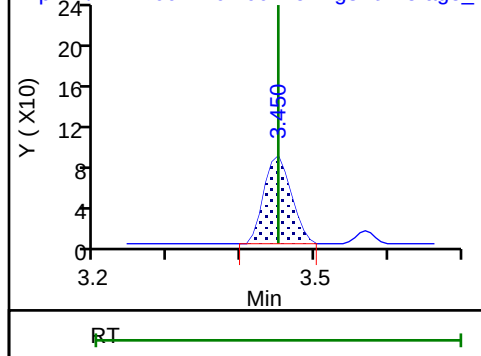
14 13C4 PFOA

* 62 13C2 PFOA

Exp1:m/z 427.00 > 407.00:Moving3PtAverage_x

Exp1:m/z 417.00 > 372.00:Moving3PtAverage_x

Exp1:m/z 415.00 > 370.00:Moving3PtAverage_x



15 Perfluorooctanoic acid (M)

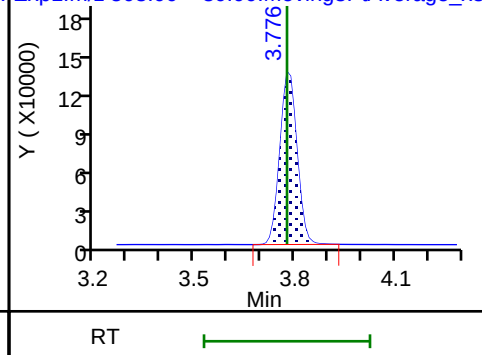
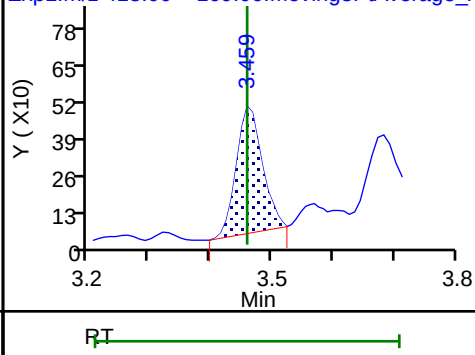
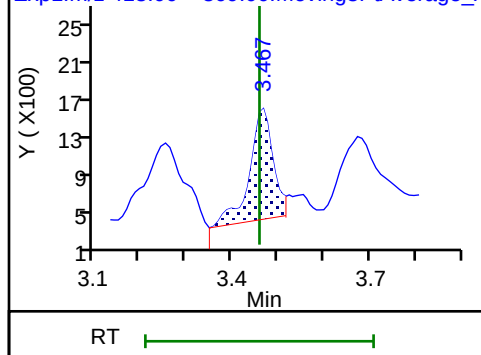
15 Perfluorooctanoic acid (M)

D 18 13C4 PFOS

Exp1:m/z 413.00 > 369.00:Moving3PtAverage_x

Exp1:m/z 413.00 > 169.00:Moving3PtAverage_x

Exp1:m/z 503.00 > 80.00:Moving3PtAverage_x3



17 Perfluorooctanesulfonic acid (M)

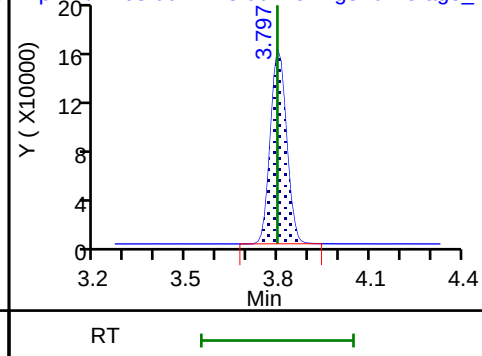
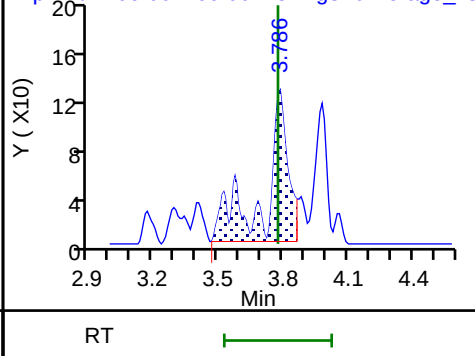
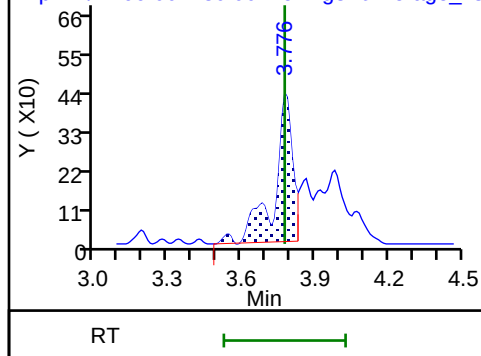
17 Perfluorooctanesulfonic acid

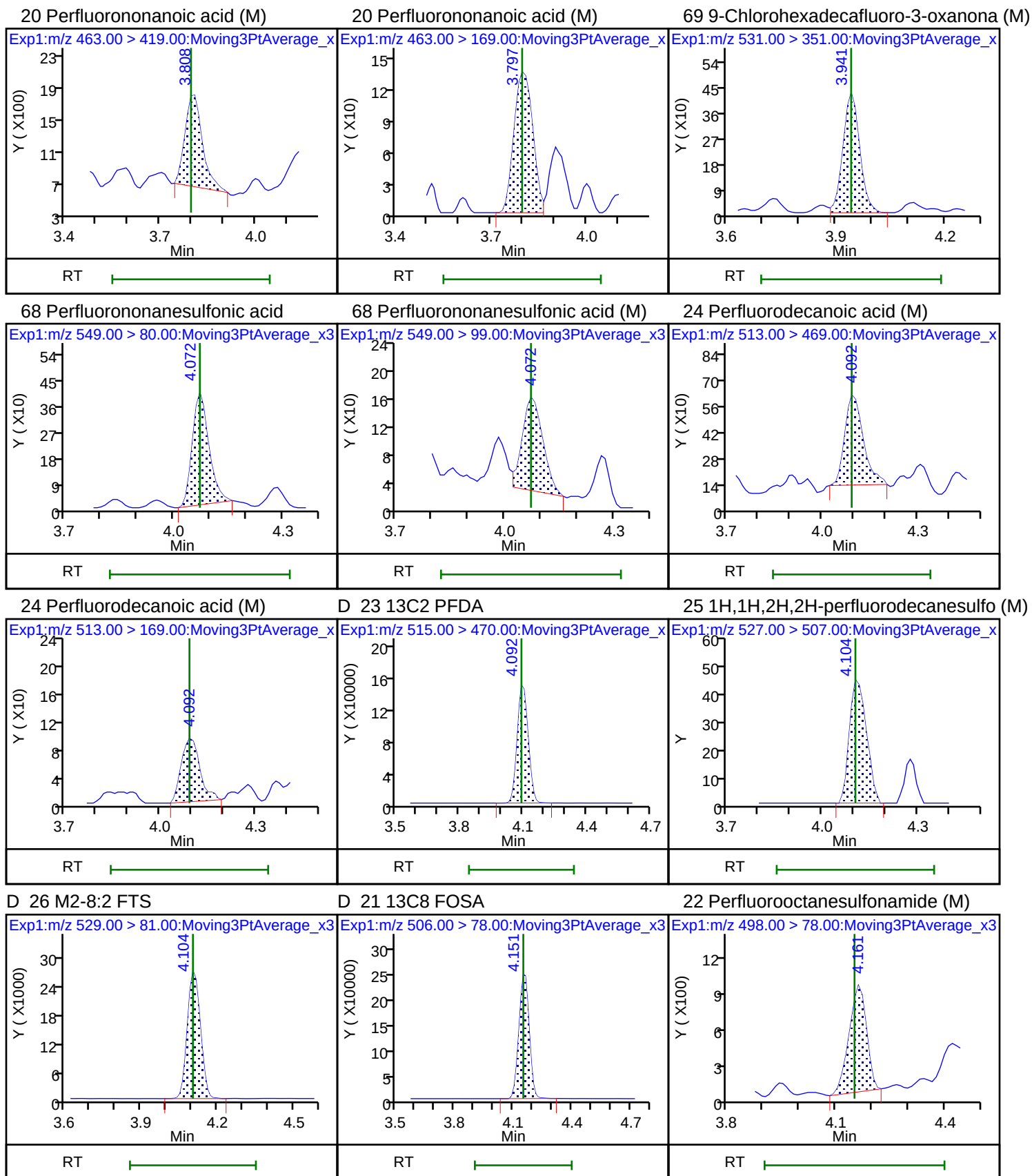
D 19 13C5 PFNA

Exp1:m/z 499.00 > 80.00:Moving3PtAverage_x3

Exp1:m/z 499.00 > 99.00:Moving3PtAverage_x3

Exp1:m/z 468.00 > 423.00:Moving3PtAverage_x

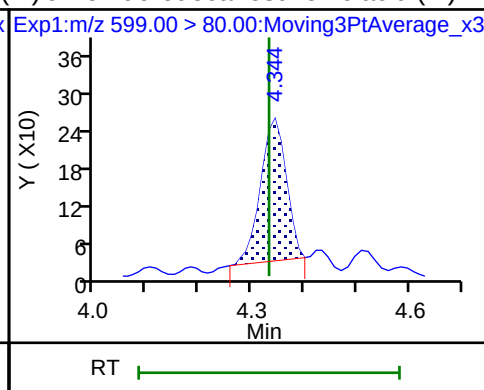
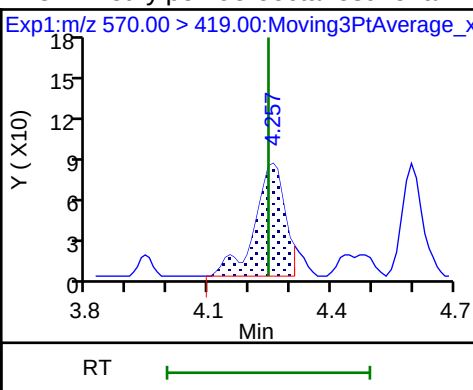
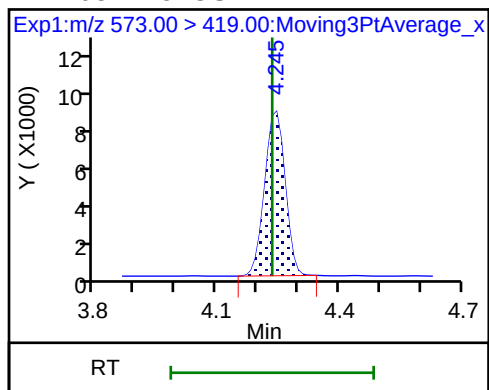




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M)

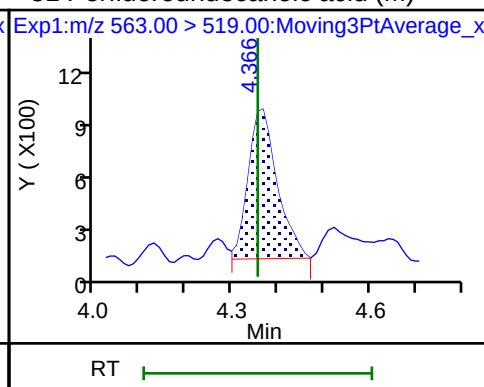
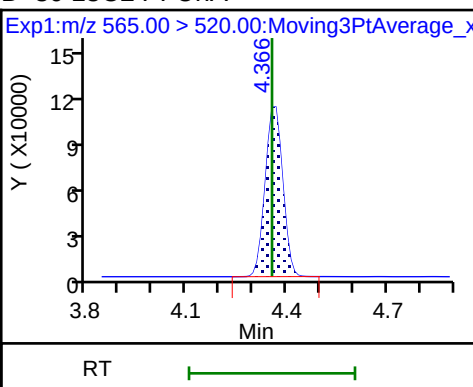
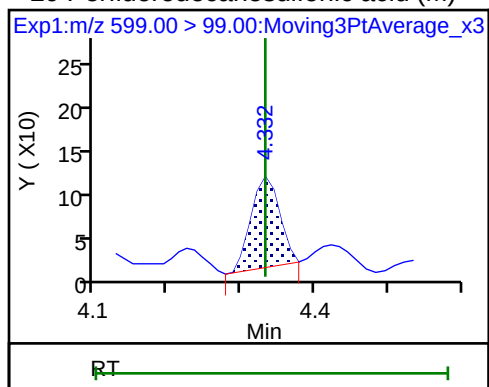
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

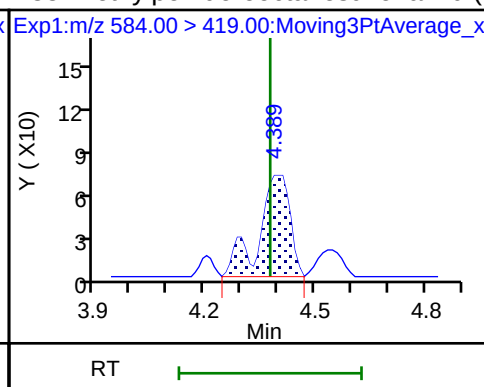
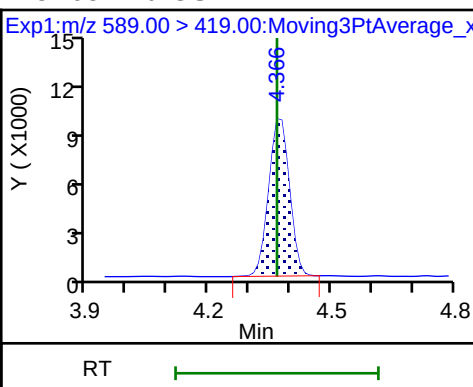
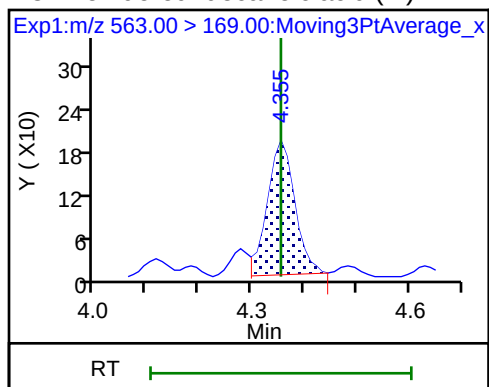
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

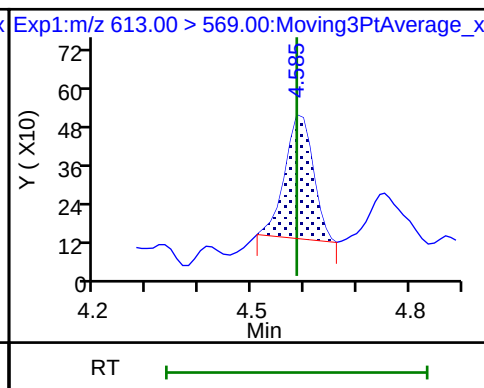
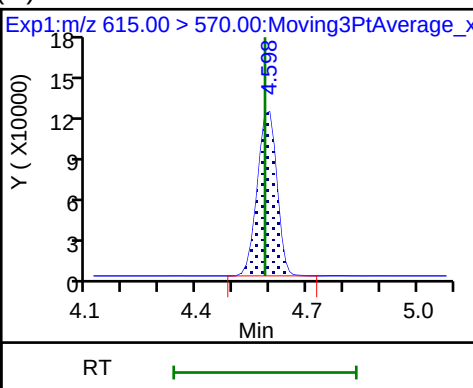
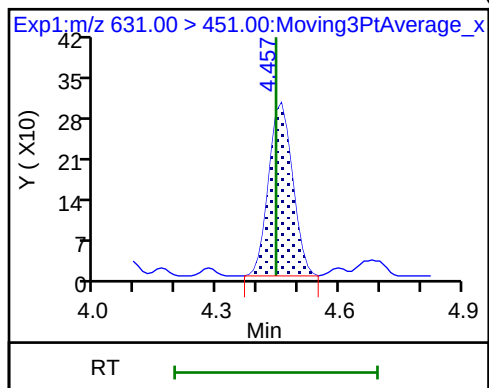
33 N-ethylperfluorooctanesulfonamid (M)



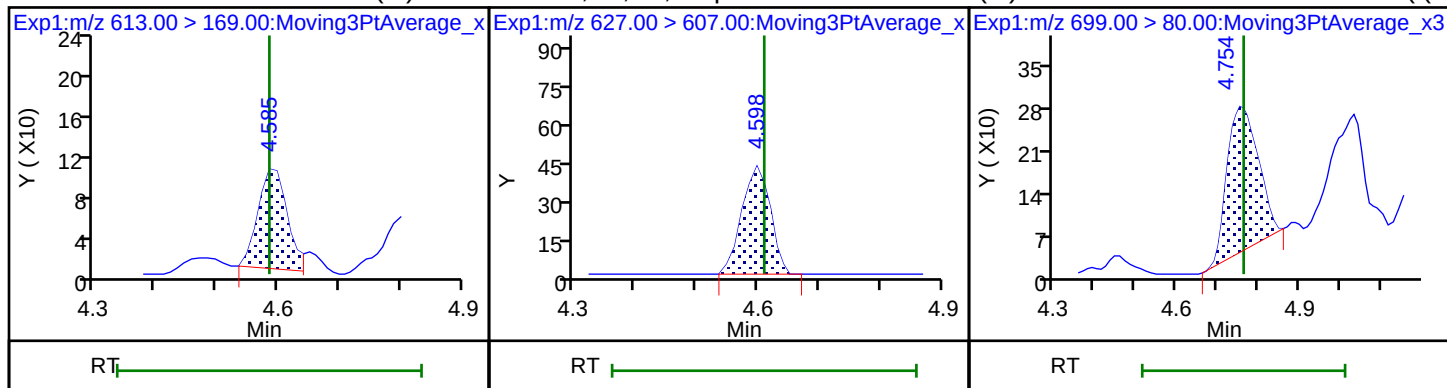
66 11-Chloroeicosafluoro-3-oxaundec (M)

36 13C2 PFDaA

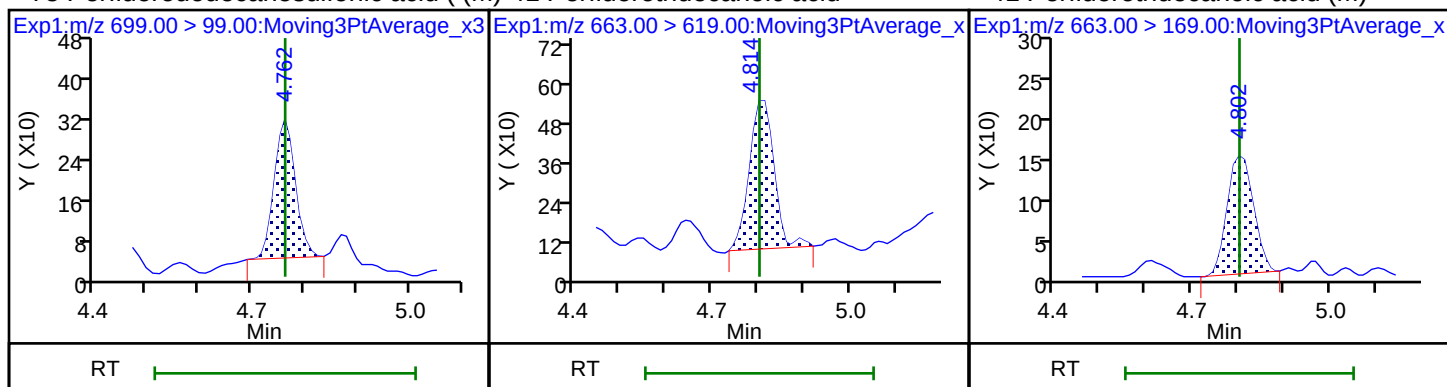
37 Perfluorododecanoic acid



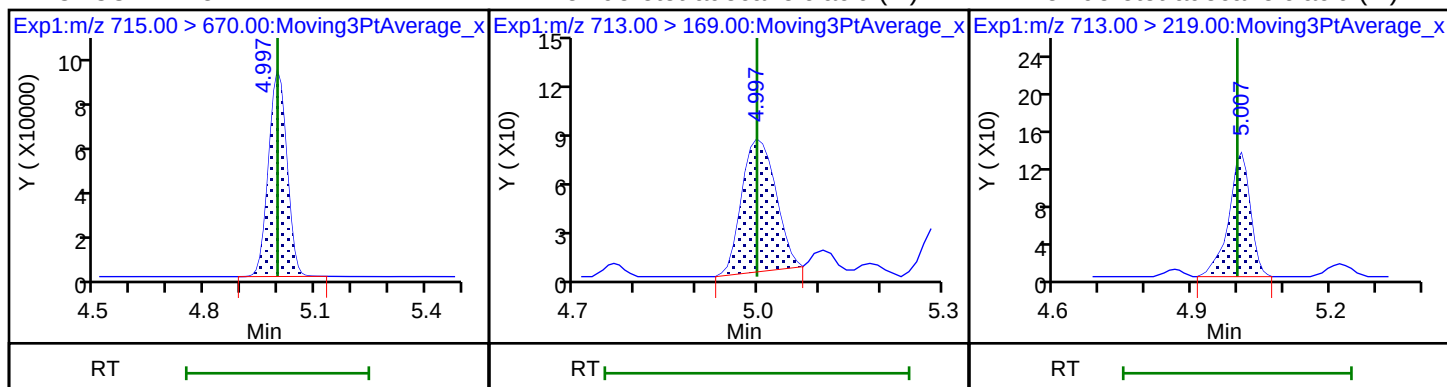
37 Perfluorododecanoic acid (M) 74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



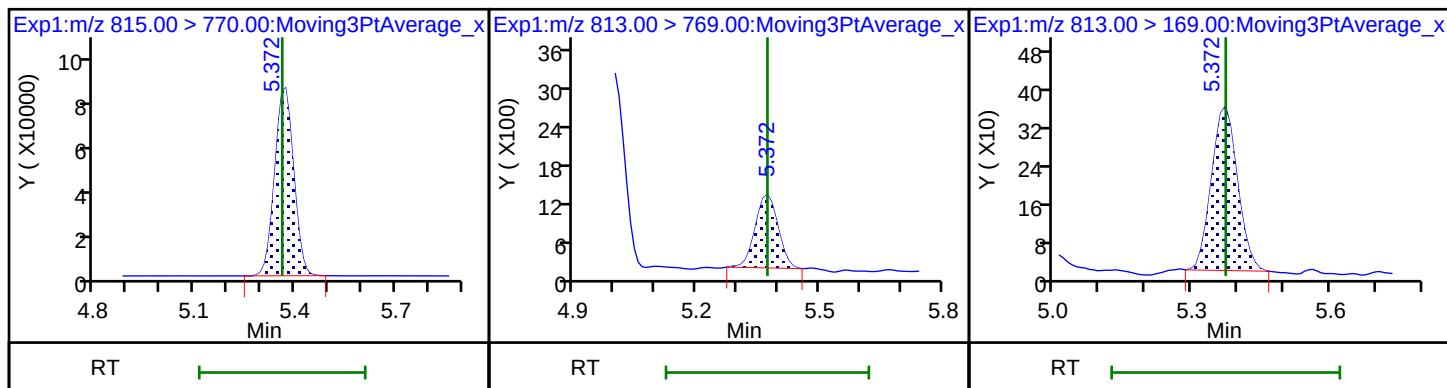
75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid 41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA 42 Perfluorotetradecanoic acid (M) 42 Perfluorotetradecanoic acid (M)

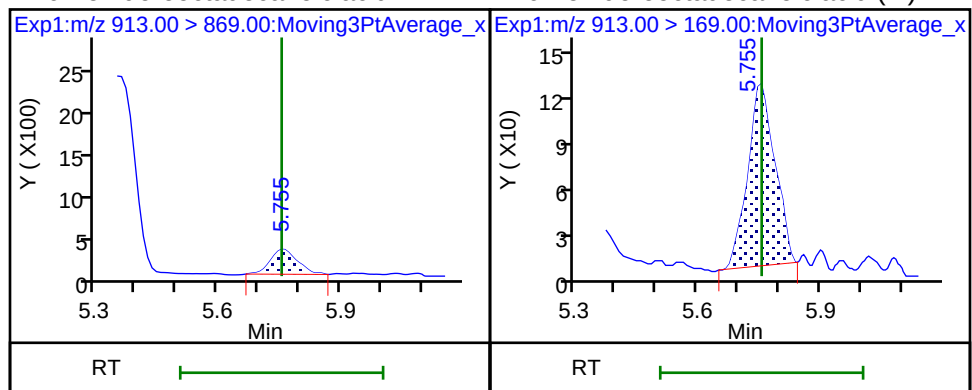


D 44 13C2 PFHxDA 45 Perfluorohexadecanoic acid 45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

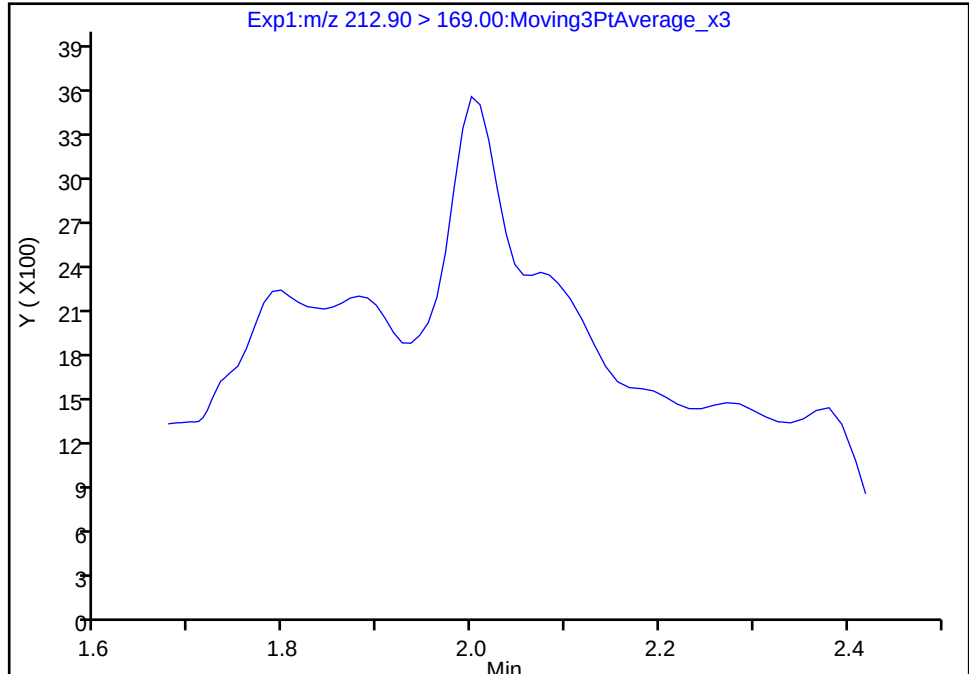
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

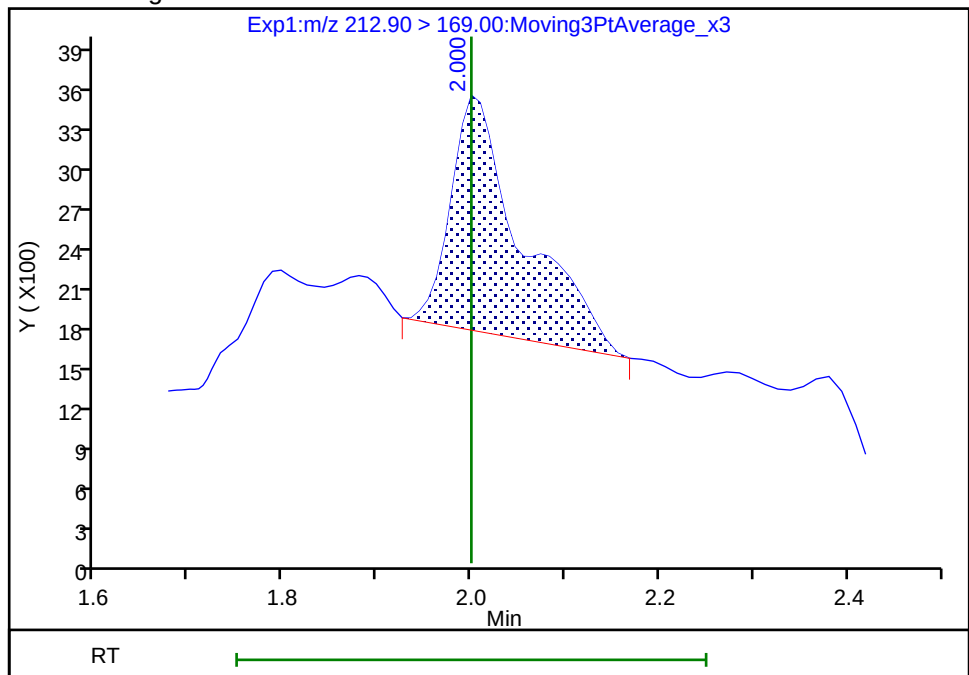
Signal: 1

Not Detected
Expected RT: 2.00

Processing Integration Results



Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:08:26
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 792 of 897

Eurofins TestAmerica, Burlington

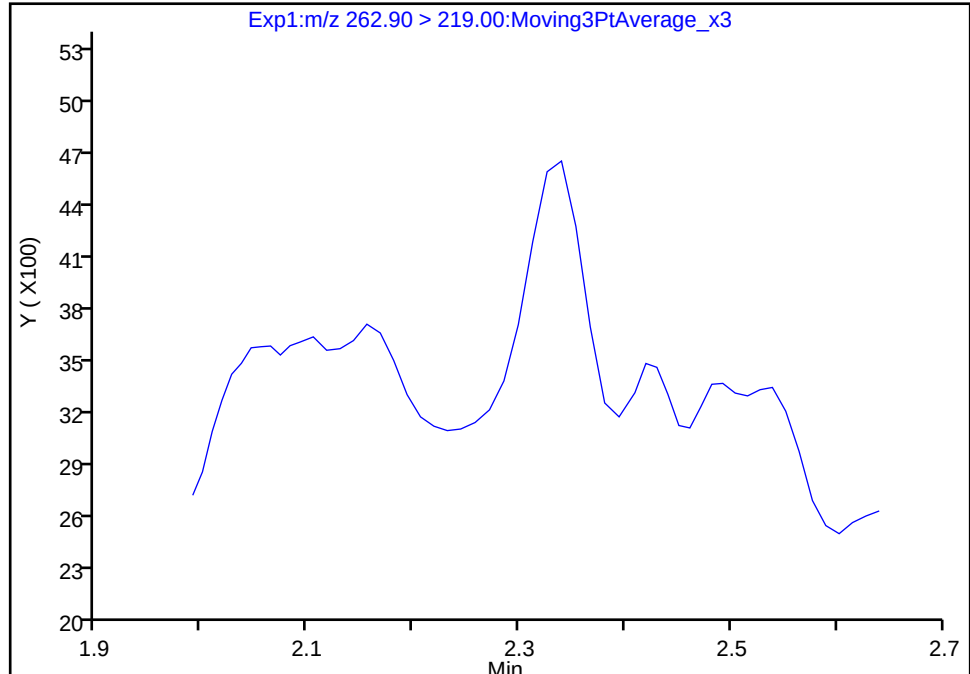
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

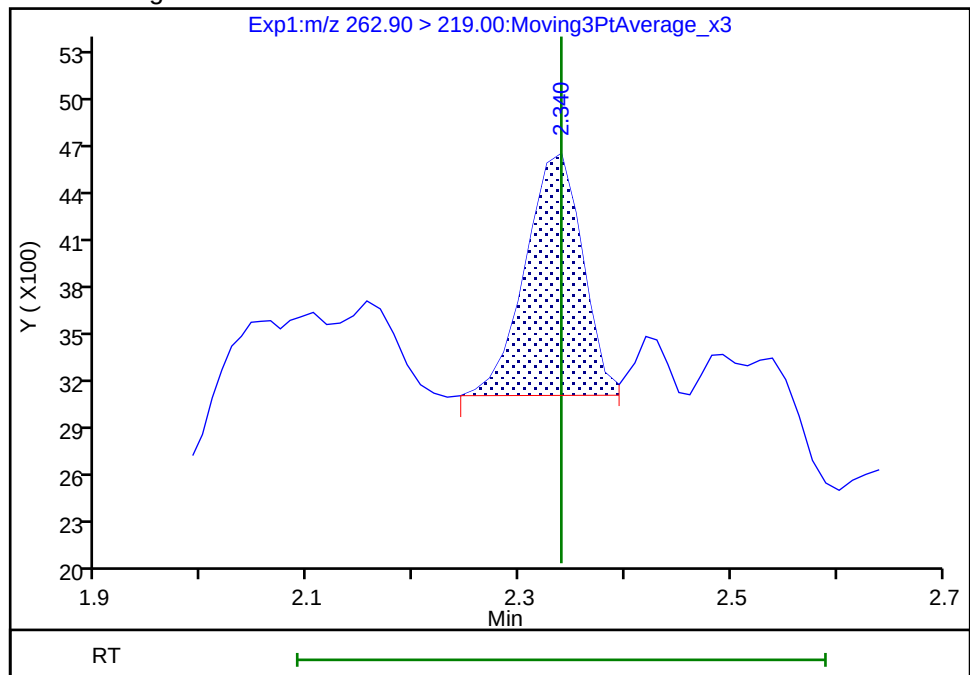
Signal: 1

Not Detected
Expected RT: 2.34

Processing Integration Results



Manual Integration Results



RT: 2.34
Area: 5683
Amount: 0.009040
Amount Units: ng/ml

Reviewer: chirgwinb, 23-Sep-2020 10:08:37

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

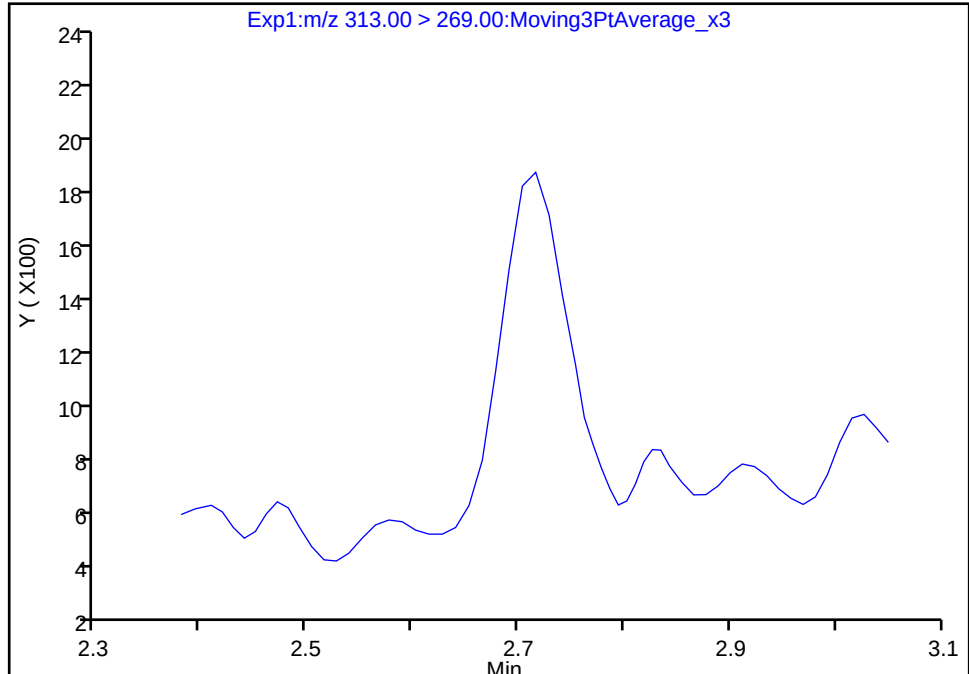
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

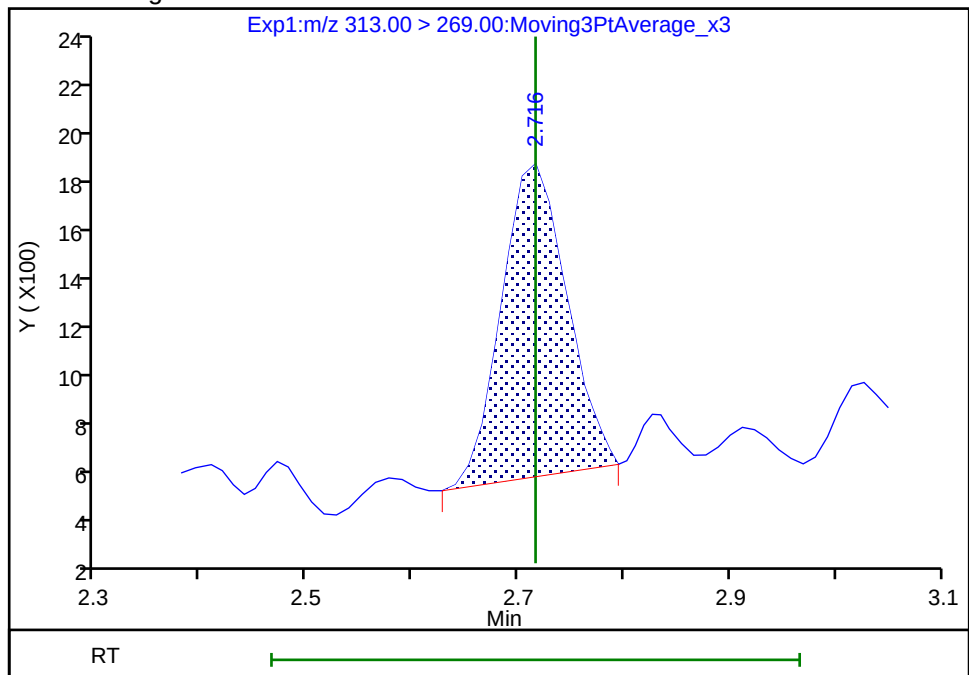
Not Detected
Expected RT: 2.72

Processing Integration Results



RT: 2.72
Area: 5156
Amount: 0.008644
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:09:00

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

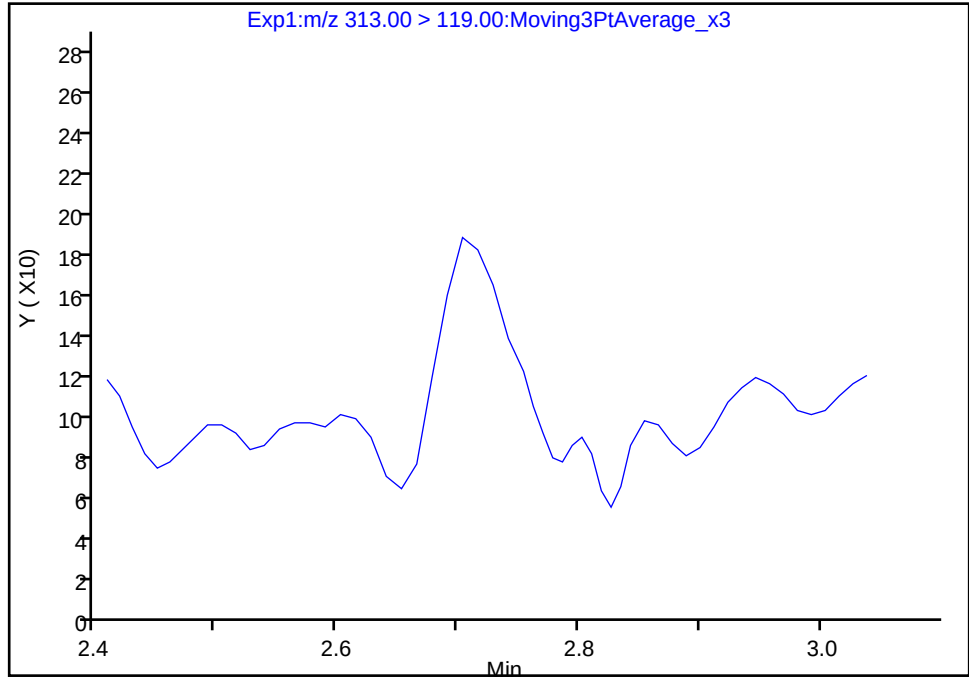
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

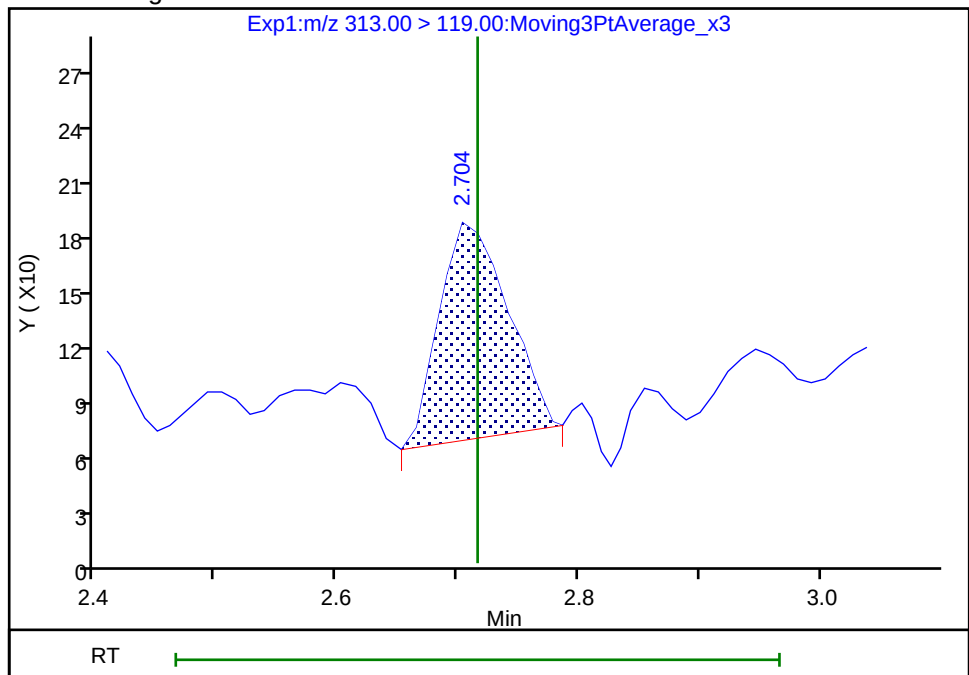
Signal: 2

Not Detected
Expected RT: 2.72

Processing Integration Results



Manual Integration Results



RT: 2.70
Area: 458
Amount: 0.008644
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

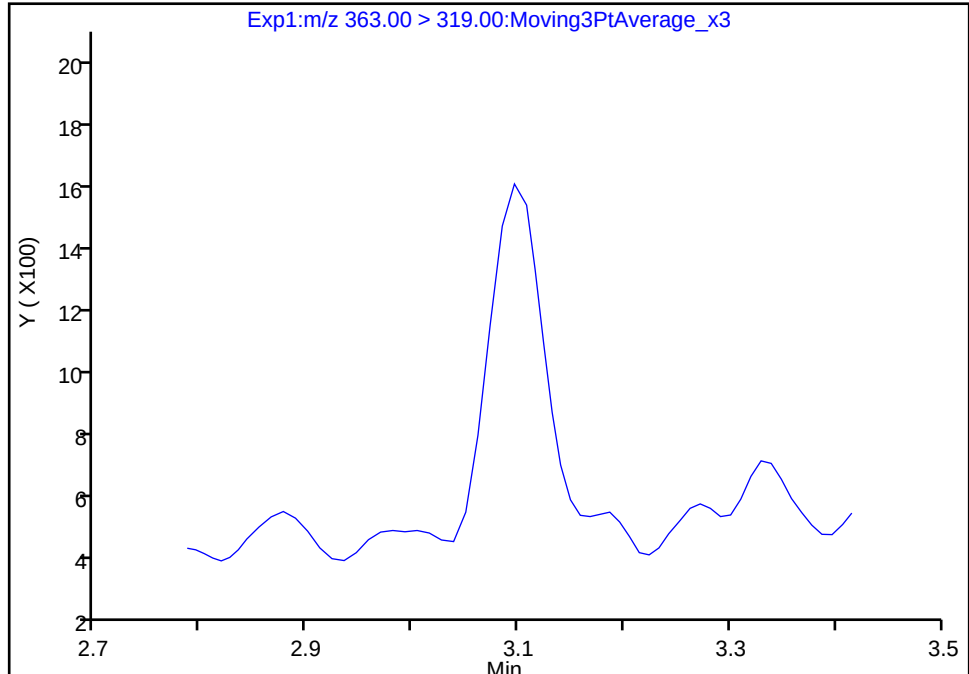
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

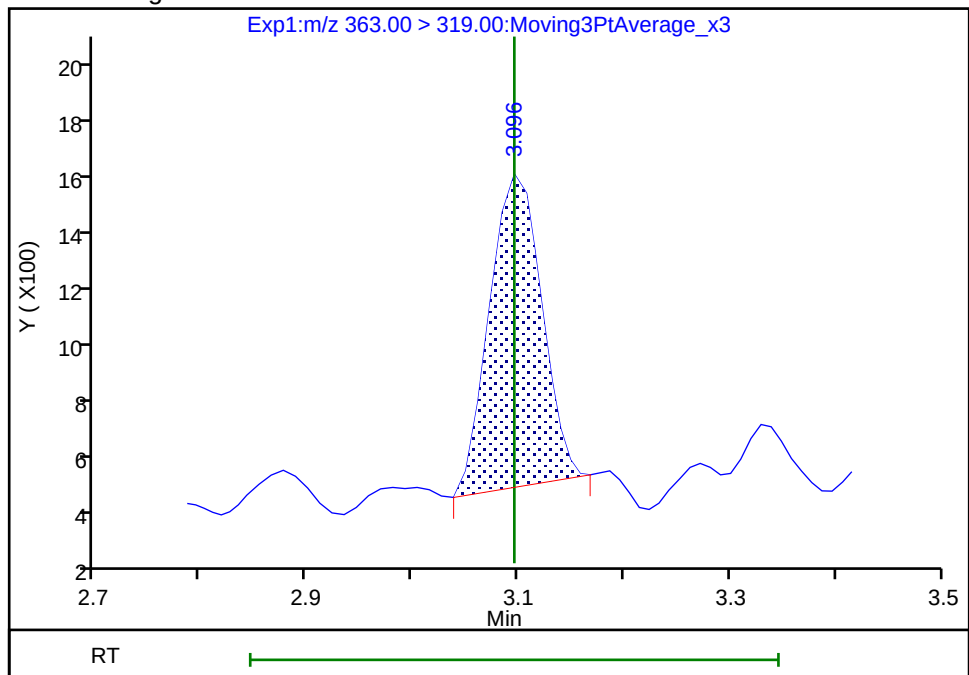
Not Detected
Expected RT: 3.10

Processing Integration Results



RT: 3.10
Area: 3739
Amount: 0.006821
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:09:42
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 796 of 897

Eurofins TestAmerica, Burlington

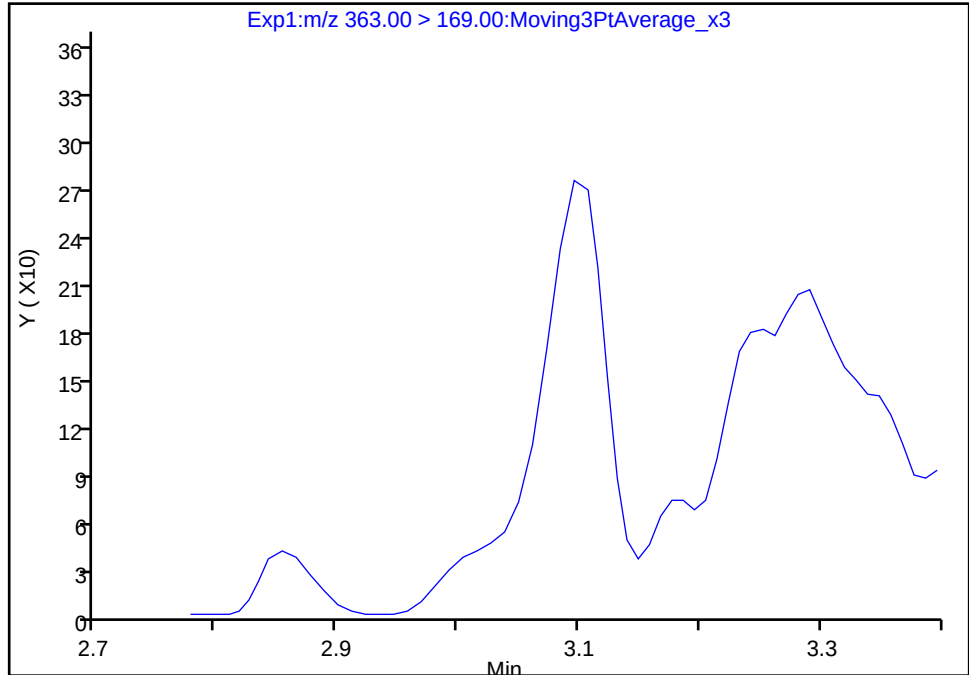
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

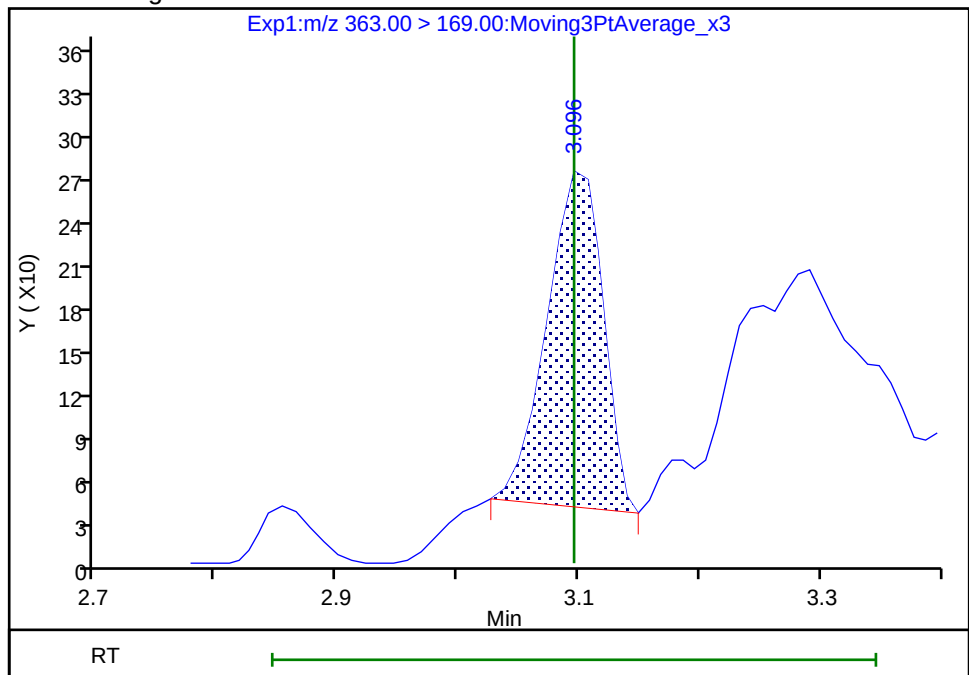
Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 755
Amount: 0.006821
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:09:46

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

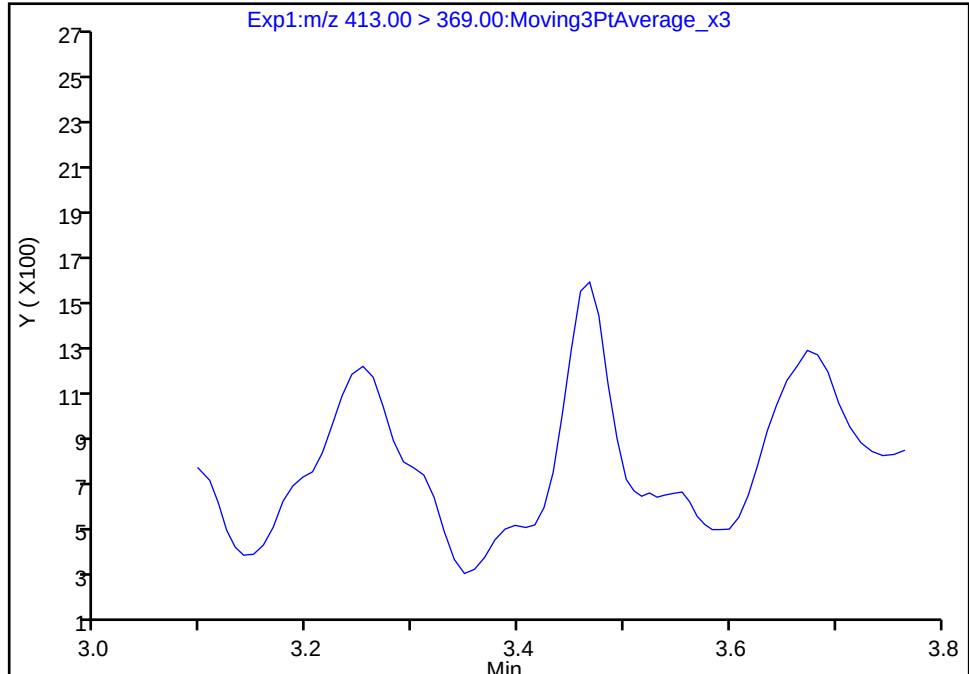
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

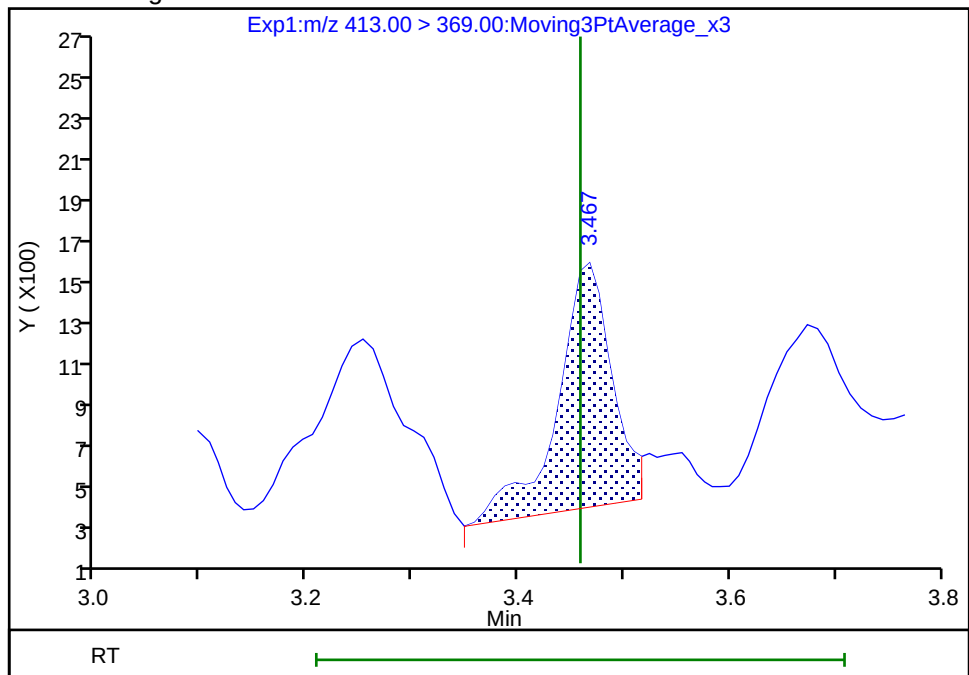
Signal: 1

Not Detected
Expected RT: 3.46

Processing Integration Results



Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:10:17

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

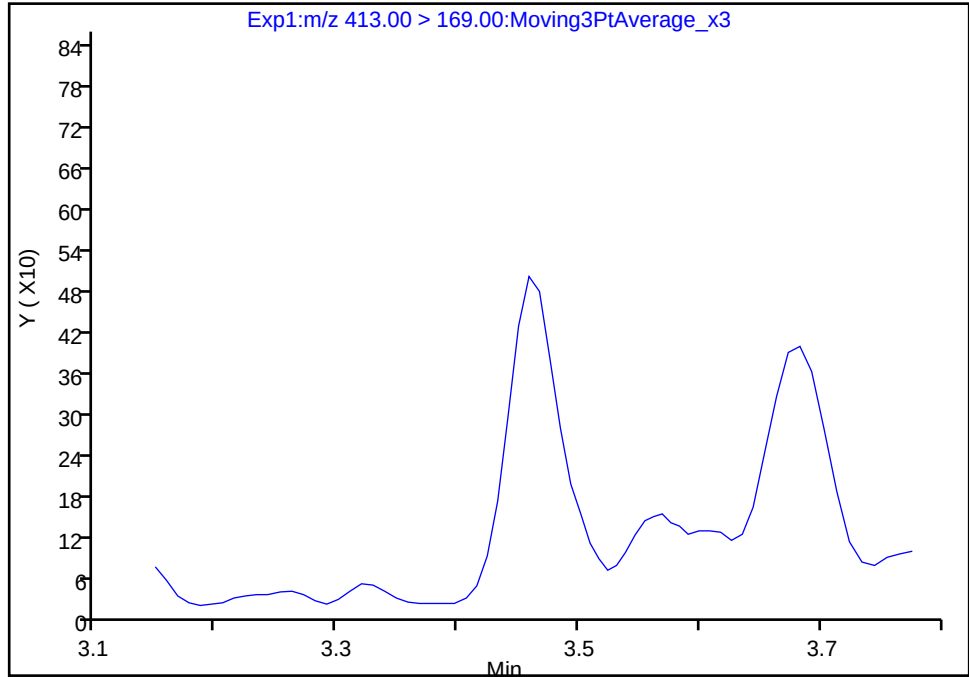
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

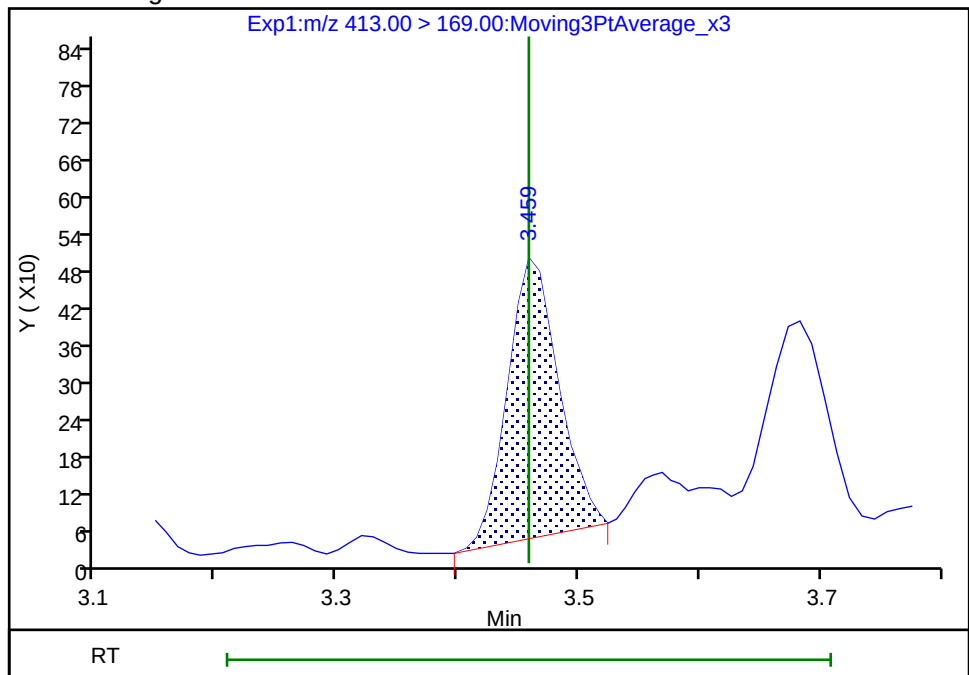
Not Detected
Expected RT: 3.46

Processing Integration Results



Manual Integration Results

RT: 3.46
Area: 1344
Amount: 0.007089
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:10:21

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

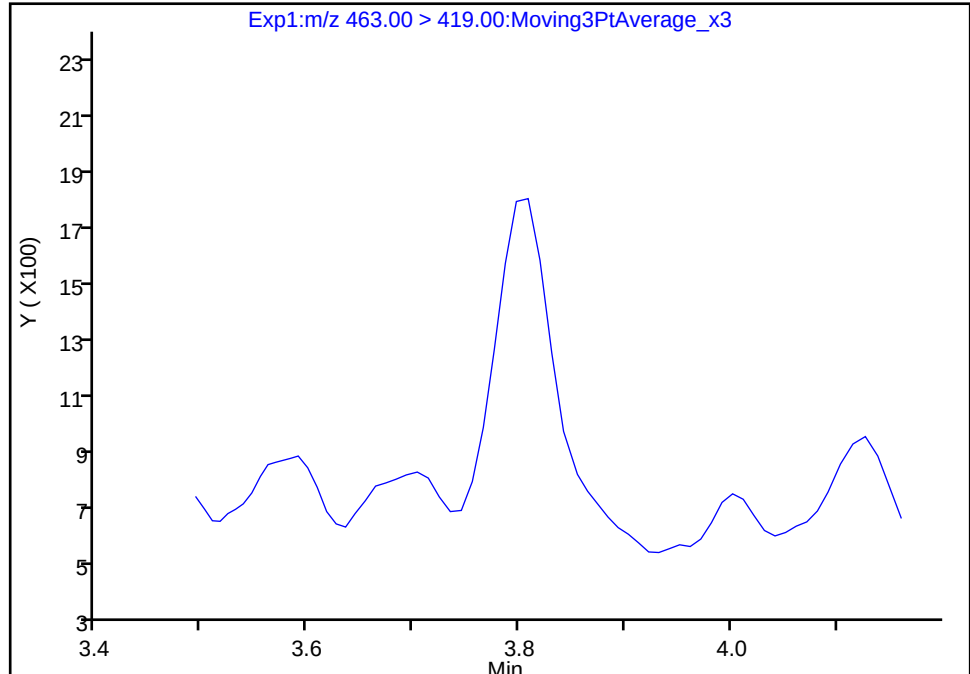
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

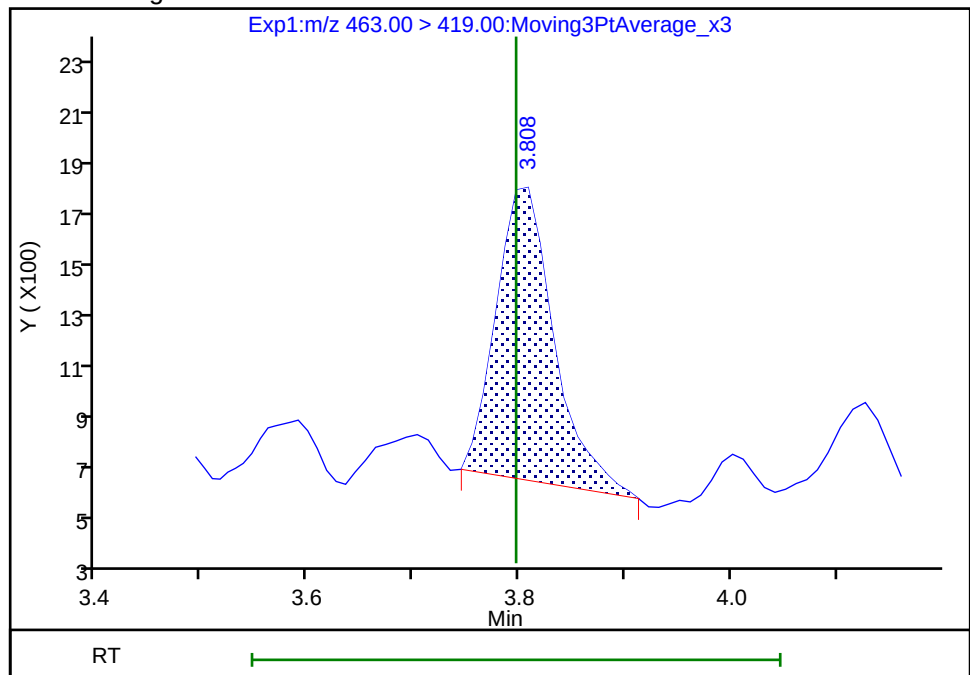
Not Detected
Expected RT: 3.80

Processing Integration Results



RT: 3.81
Area: 4298
Amount: 0.009174
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:11:12
Audit Action: Manually Integrated

Audit Reason: Missed Peak
Page 800 of 897

Eurofins TestAmerica, Burlington

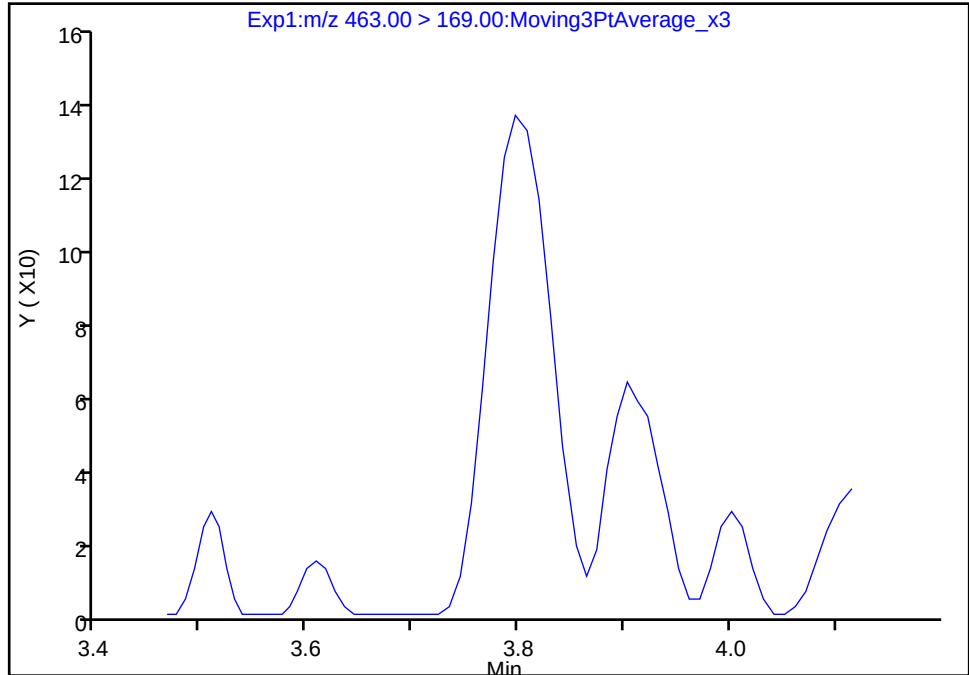
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

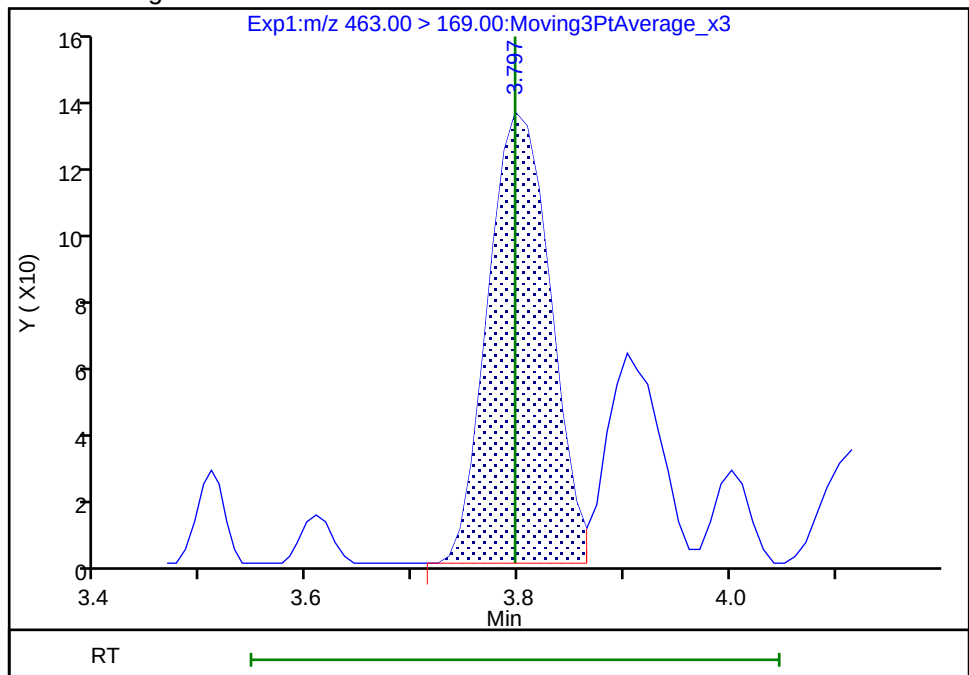
Not Detected
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.80
Area: 538
Amount: 0.009174
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:11:23

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

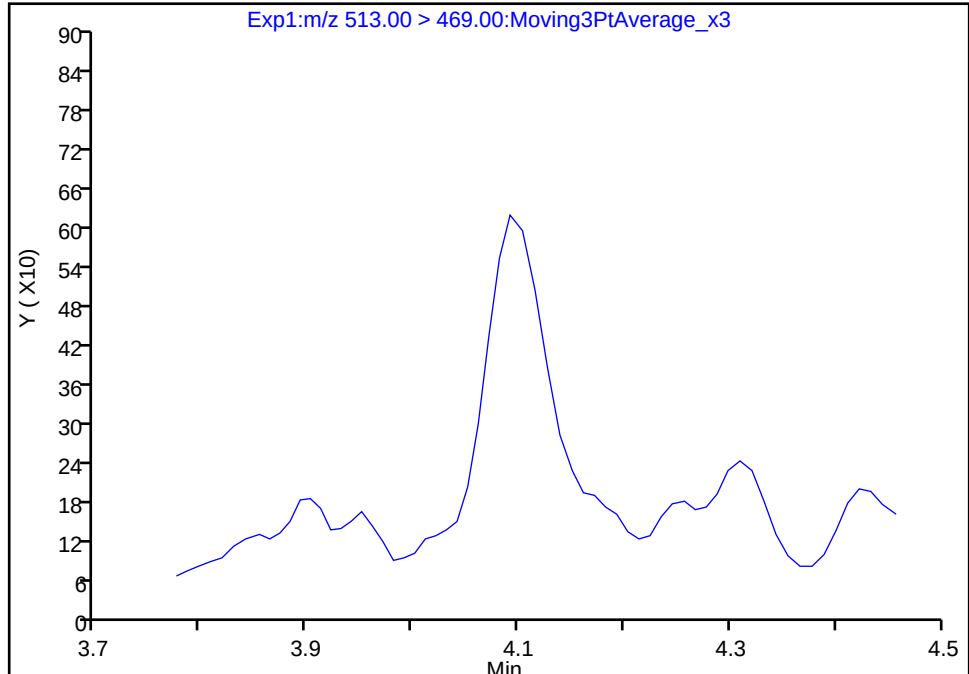
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

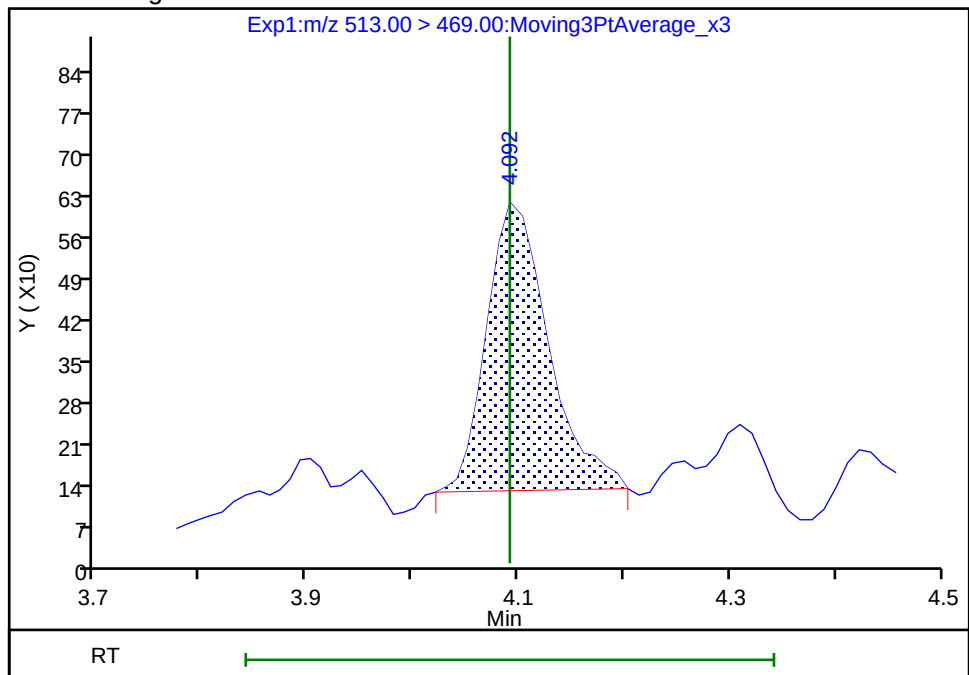
Signal: 1

Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.09
Area: 1988
Amount: 0.004688
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

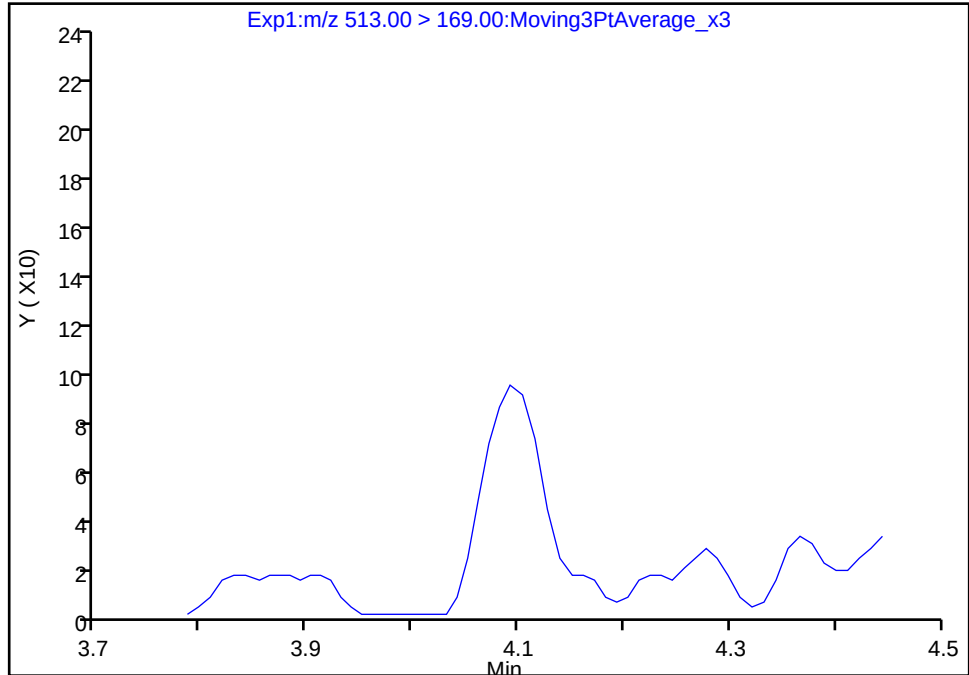
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

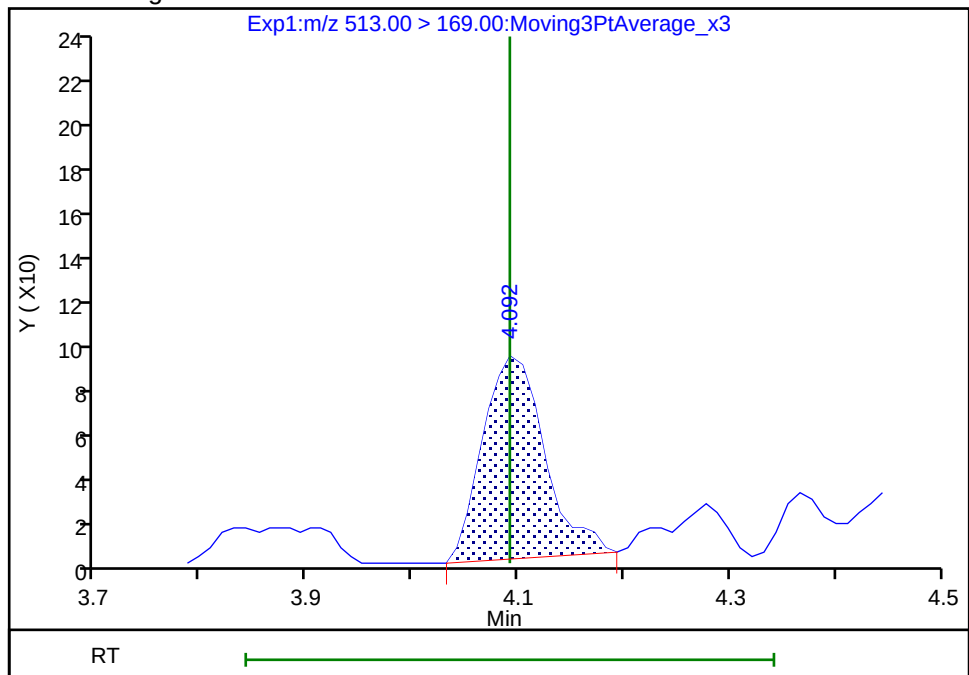
Not Detected
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.09
Area: 373
Amount: 0.004688
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:12:05

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

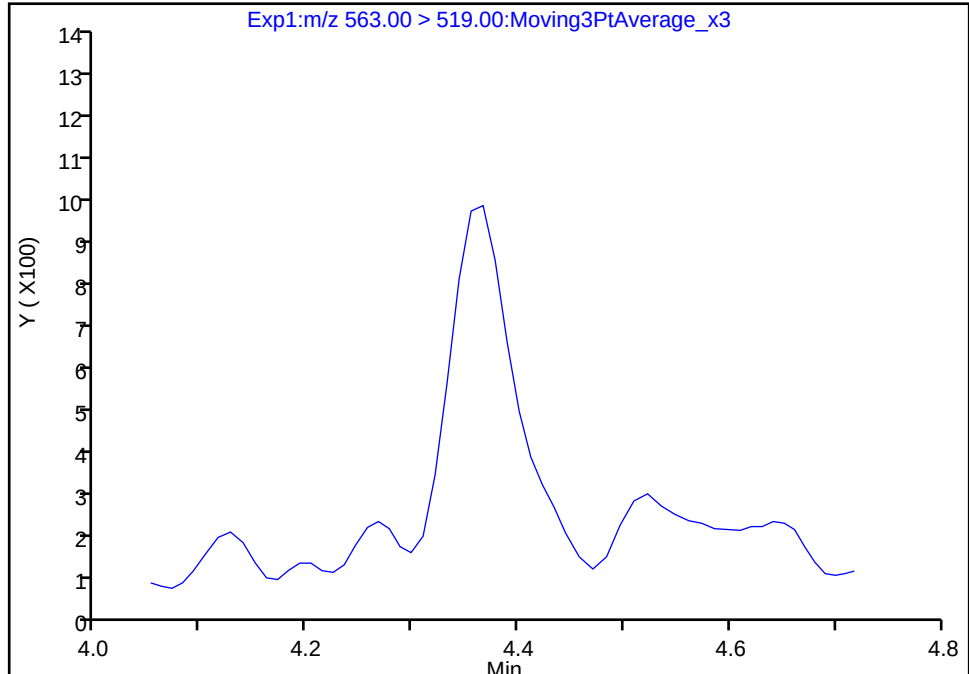
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

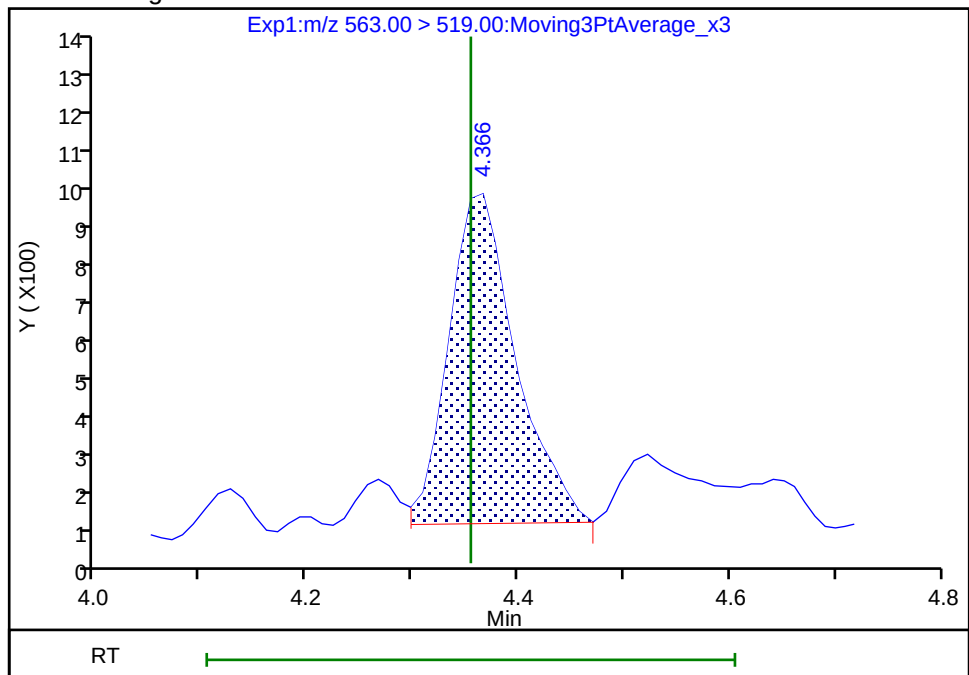
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.37
Area: 3805
Amount: 0.012234
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:12:45
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 804 of 897

Eurofins TestAmerica, Burlington

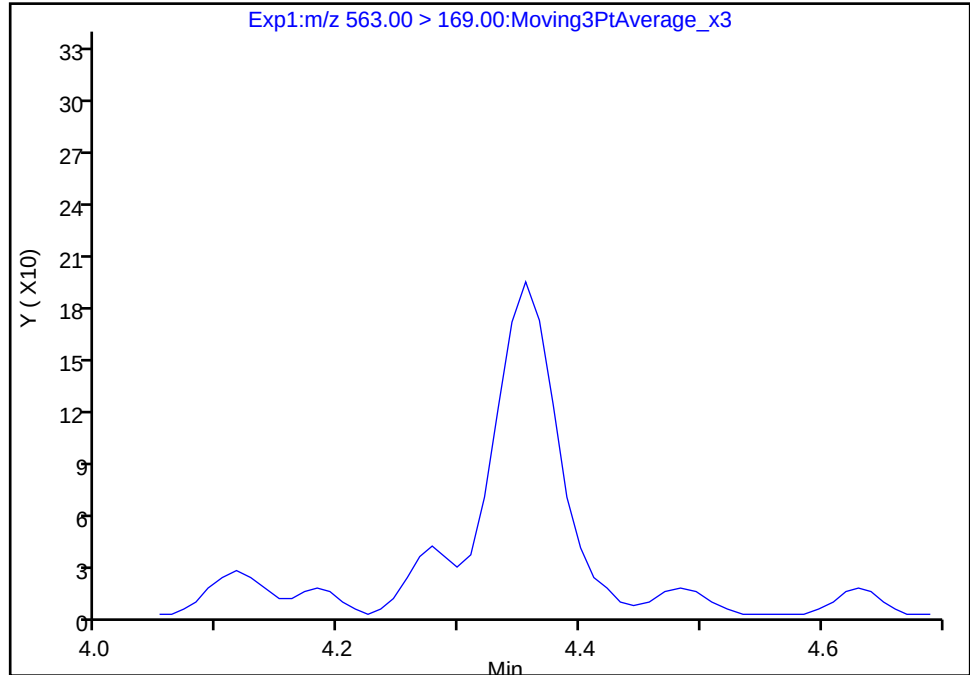
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

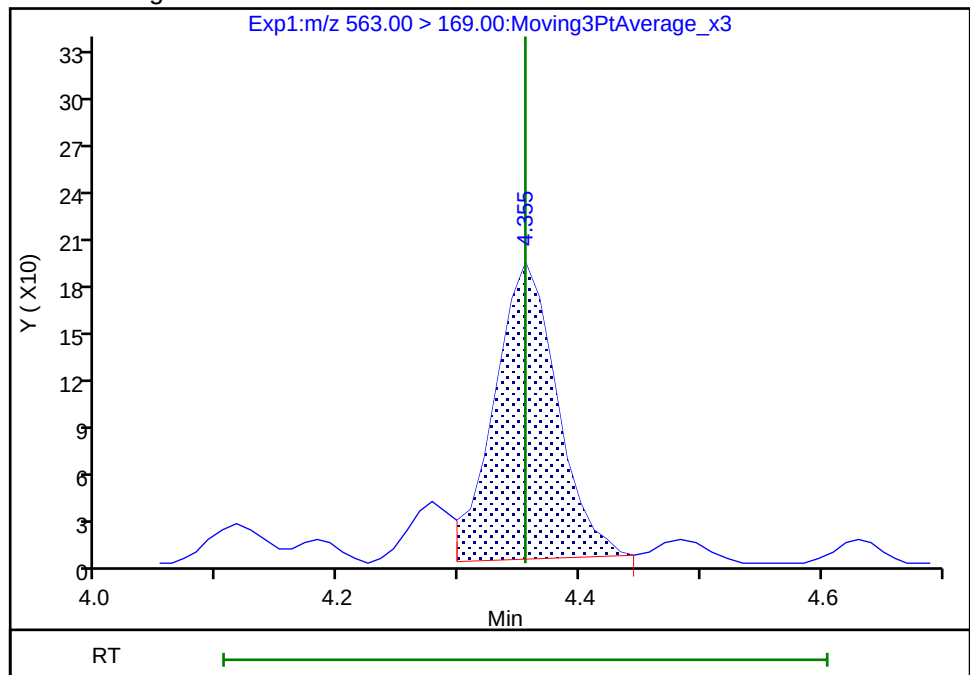
Not Detected
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.36
Area: 672
Amount: 0.012234
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:12:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

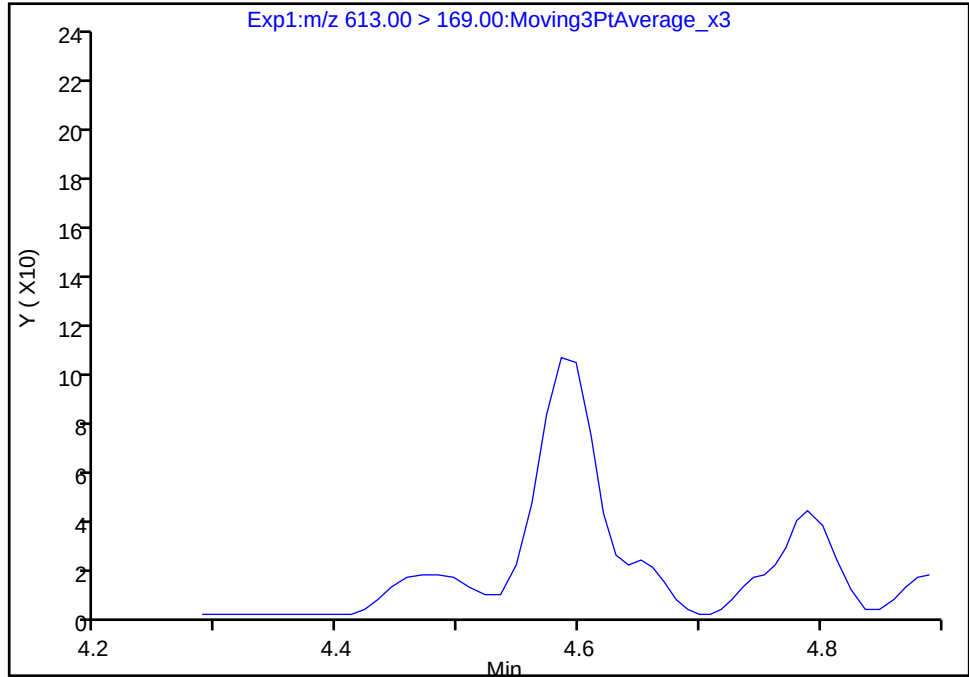
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

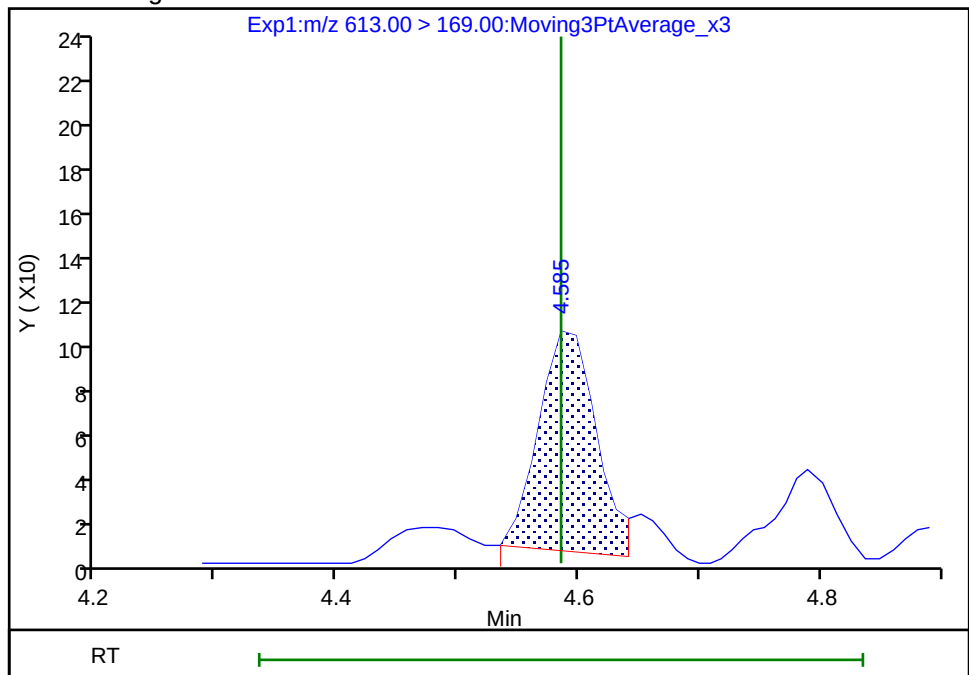
Signal: 2

Not Detected
Expected RT: 4.59

Processing Integration Results



Manual Integration Results



RT: 4.59
Area: 324
Amount: 0.004259
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

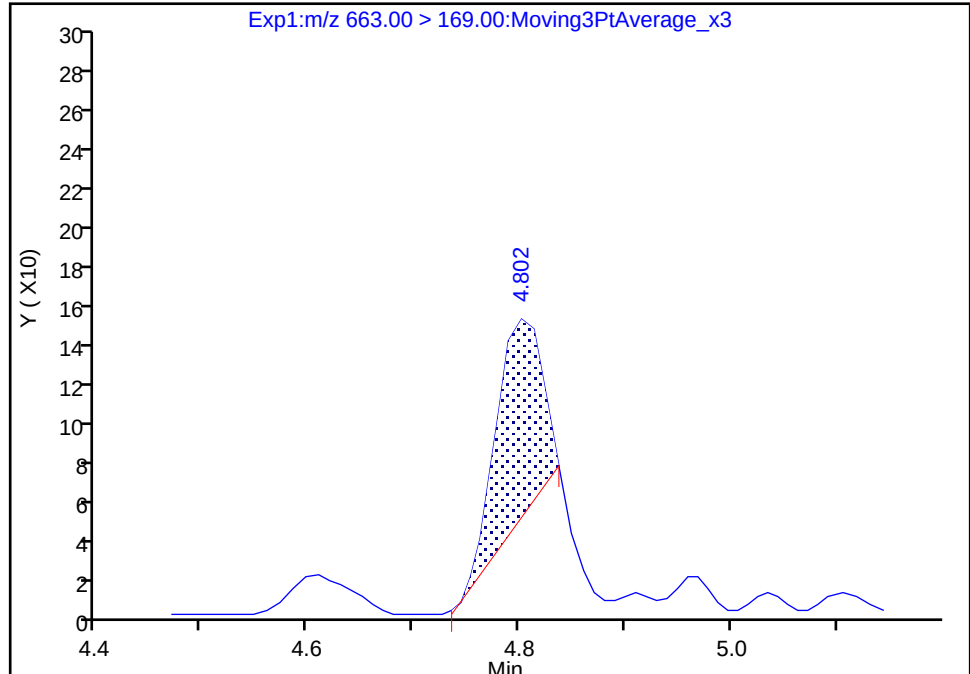
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

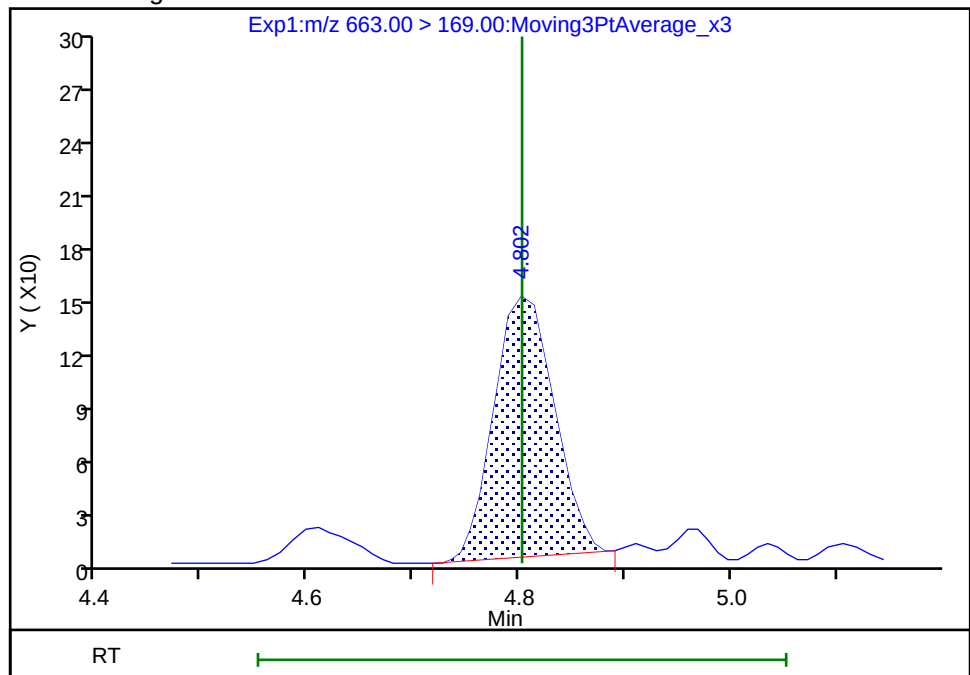
RT: 4.80
Area: 302
Amount: 0.005826
Amount Units: ng/ml

Processing Integration Results



RT: 4.80
Area: 578
Amount: 0.005826
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:13:42
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 807 of 897

Eurofins TestAmerica, Burlington

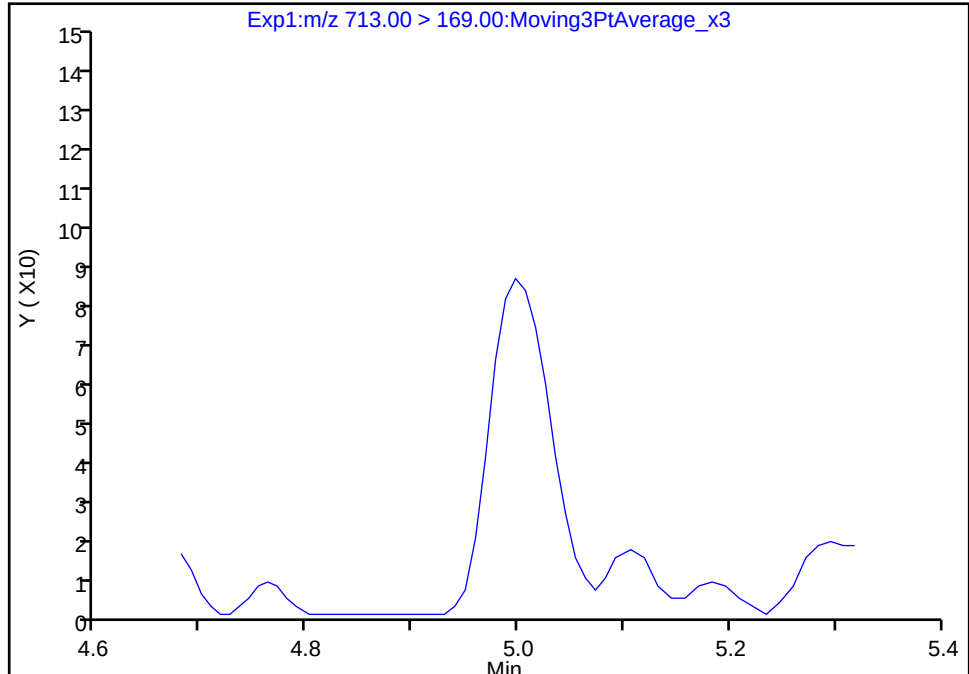
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

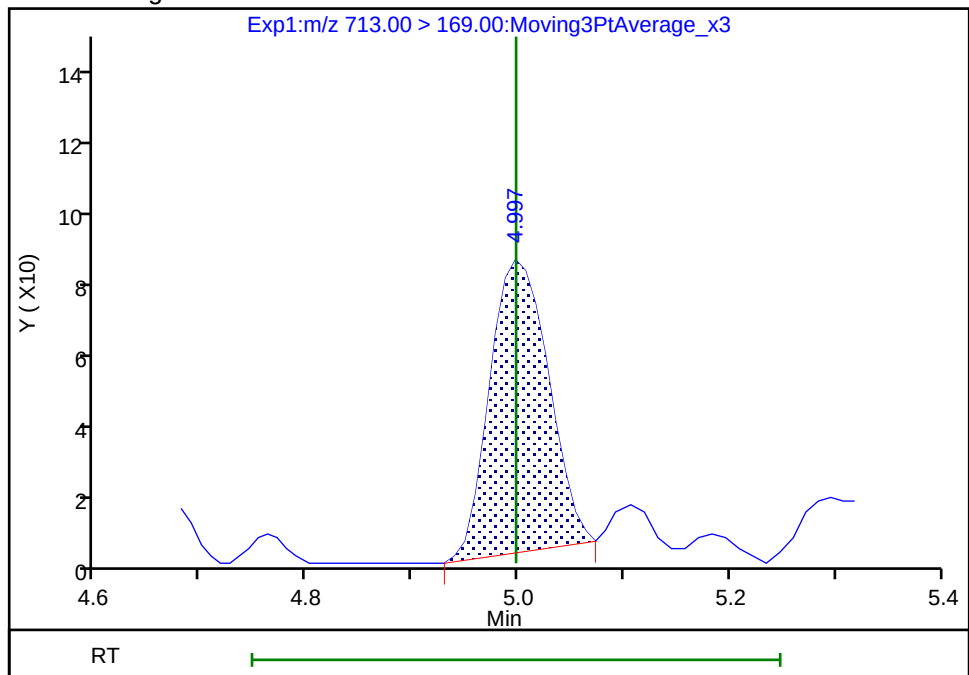
Not Detected
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.00
Area: 308
Amount: 0.005360
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:13:51

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

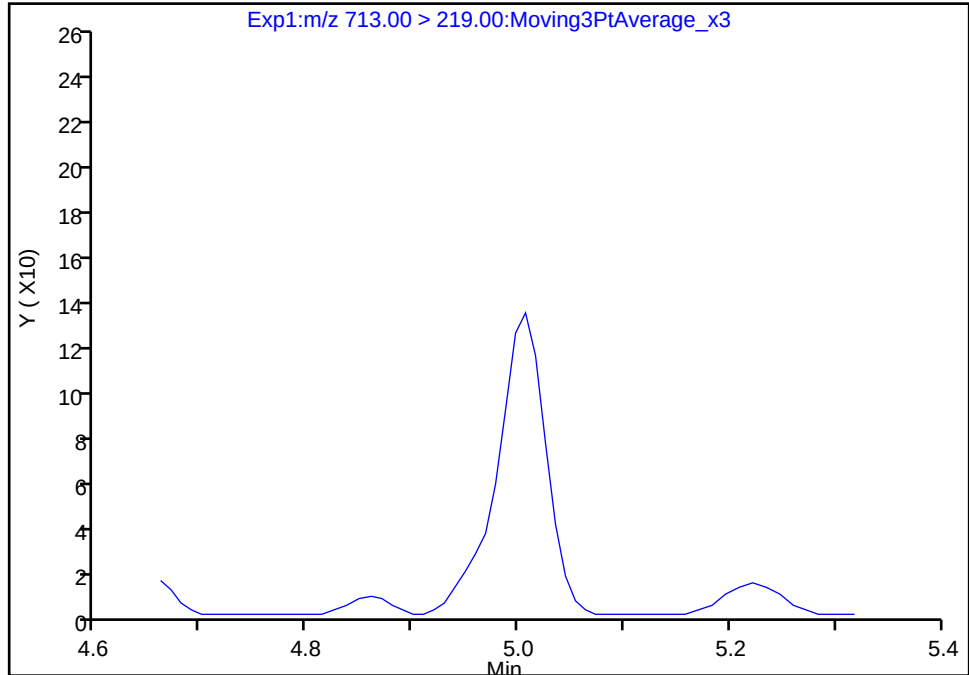
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

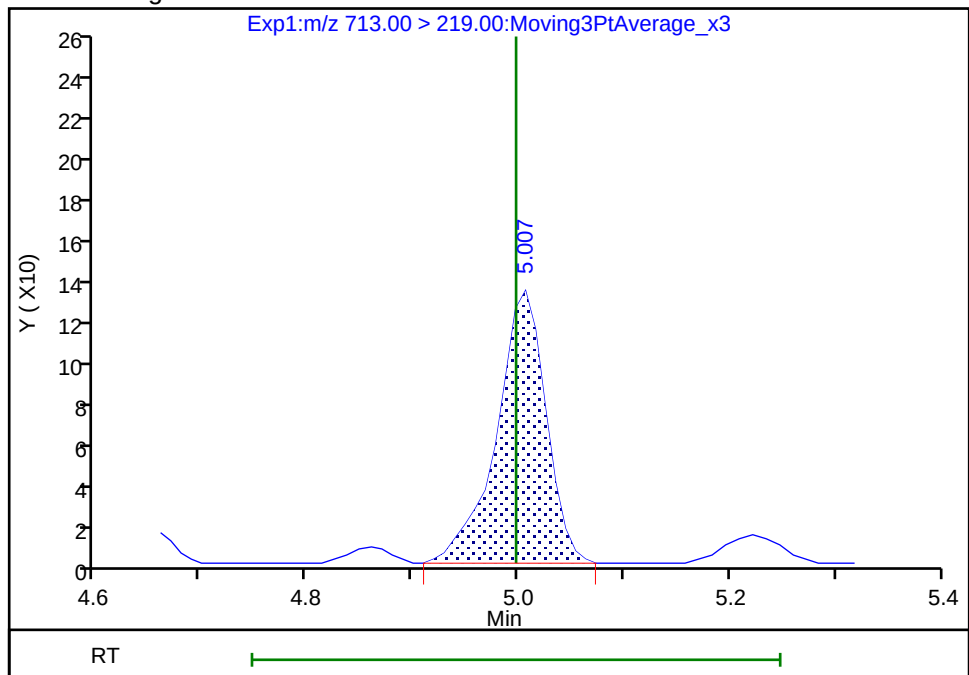
Not Detected
Expected RT: 5.00

Processing Integration Results



RT: 5.01
Area: 435
Amount: 0.005360
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:13:54

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

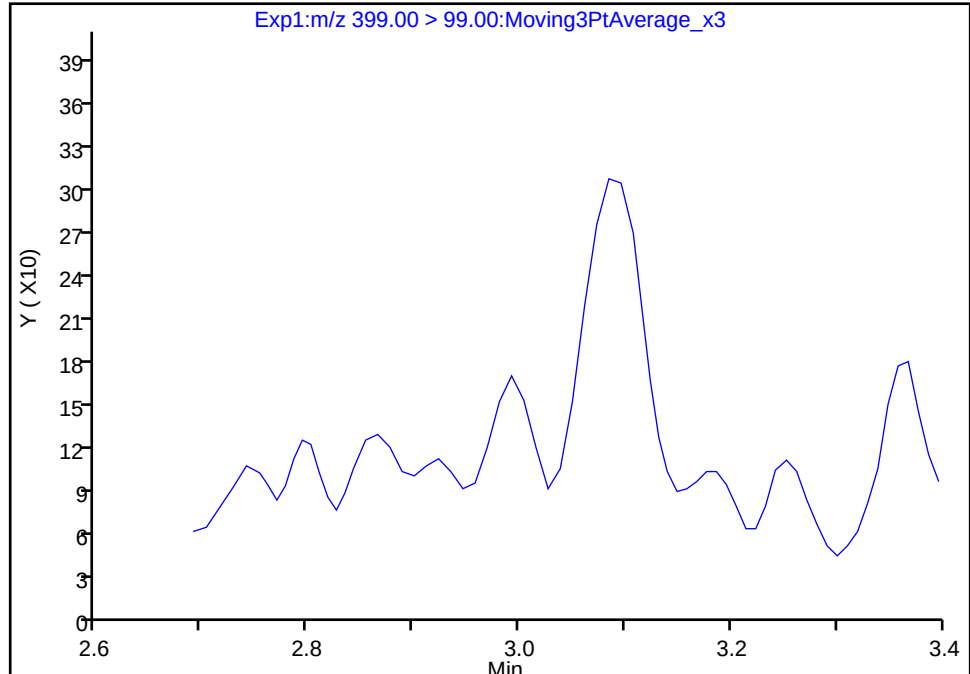
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

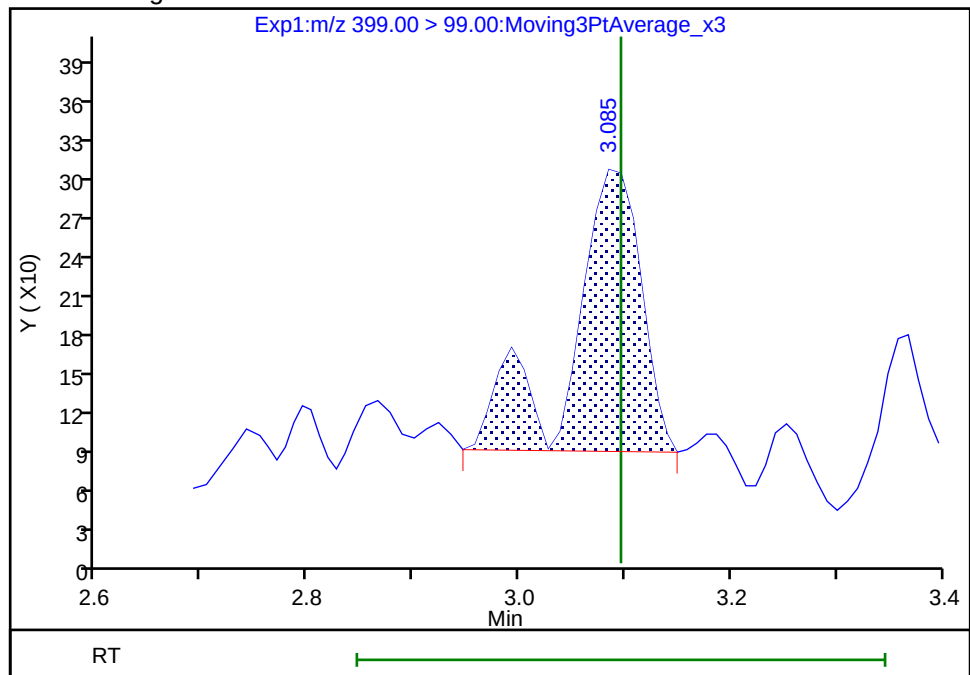
Signal: 2

Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results



RT: 3.08
Area: 986
Amount: 0.009585
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

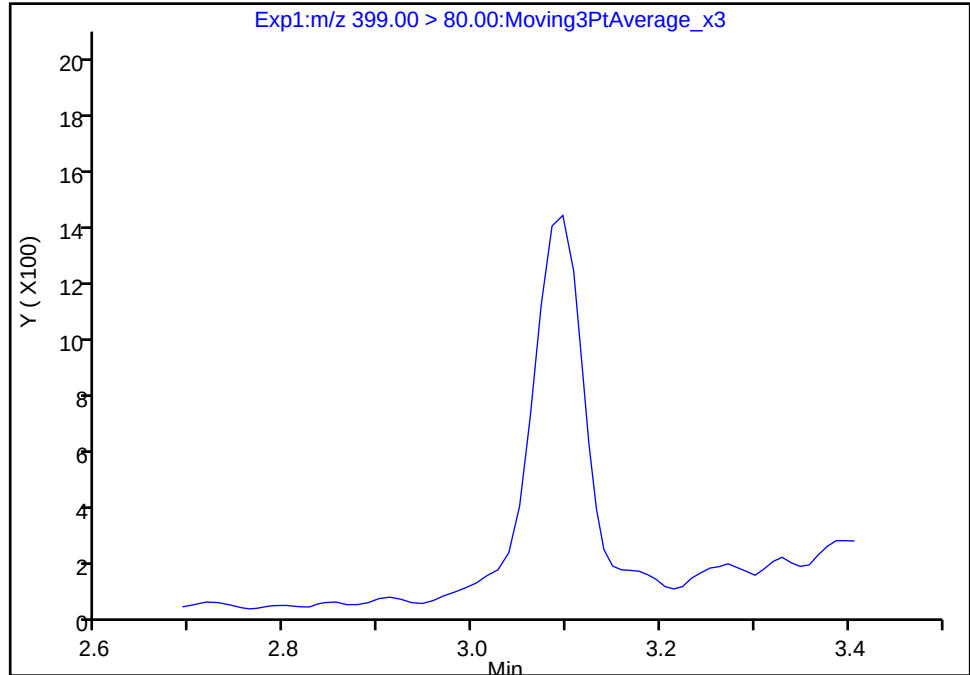
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

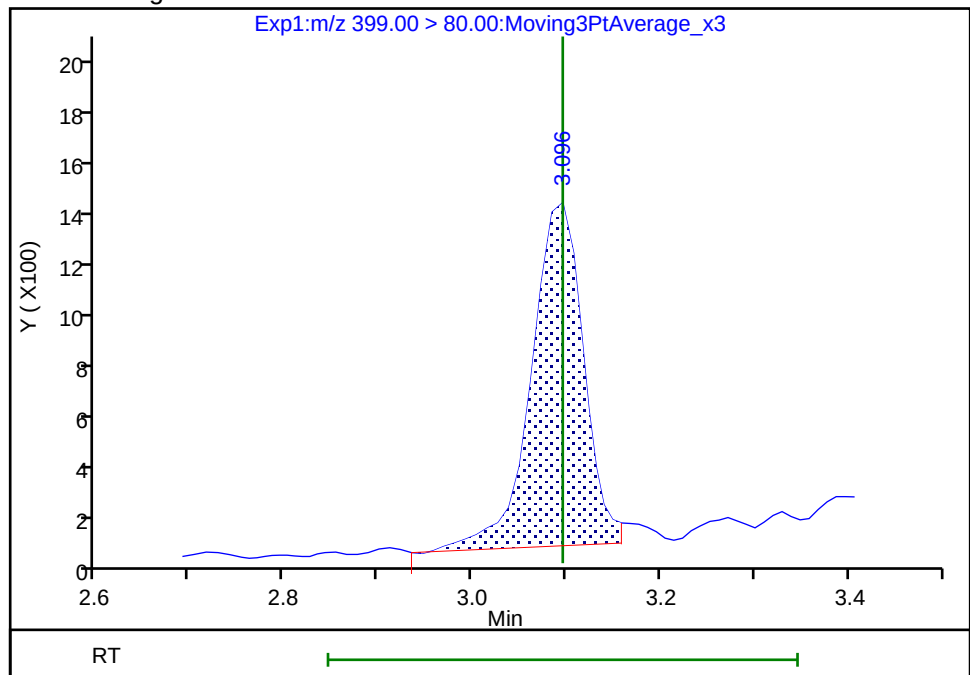
Not Detected
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.10
Area: 5134
Amount: 0.009585
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:09:34

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

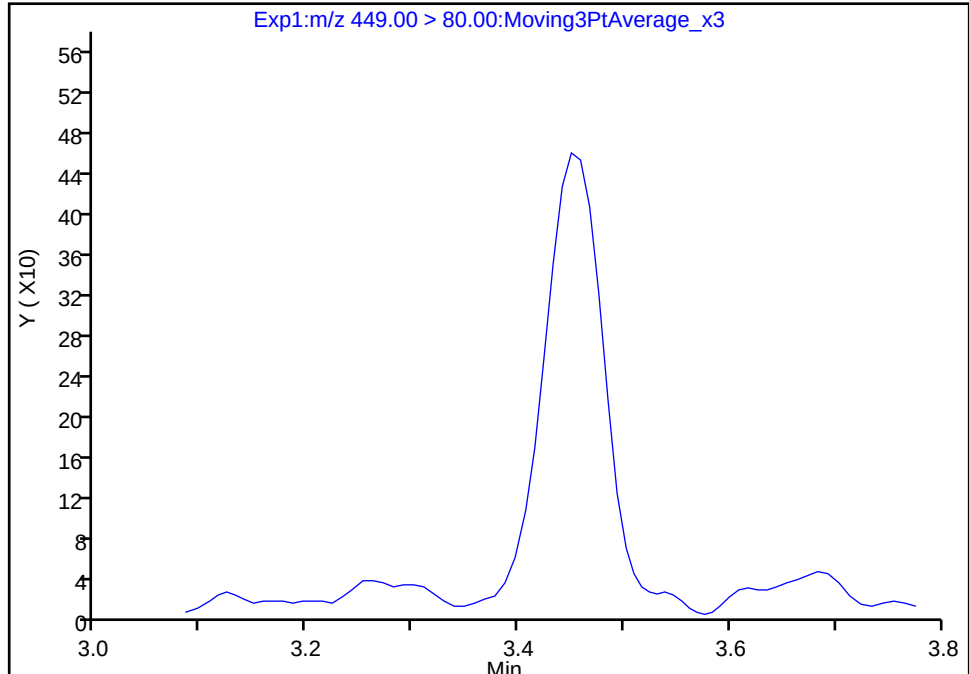
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

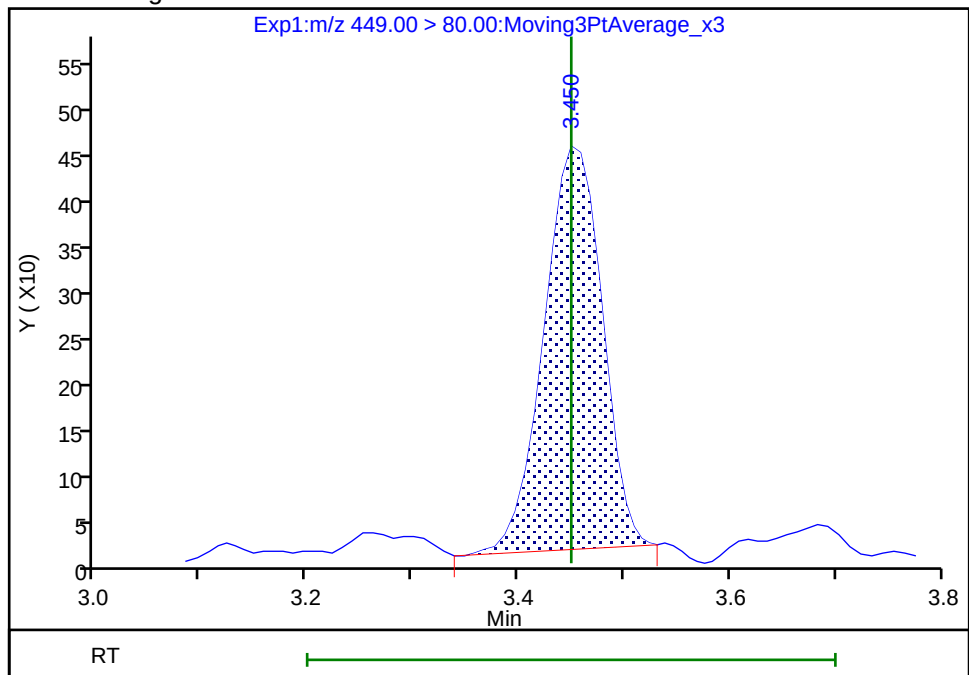
Signal: 1

Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results



RT: 3.45
Area: 1674
Amount: 0.003559
Amount Units: ng/ml

Reviewer: chirgwinb, 23-Sep-2020 10:09:57

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

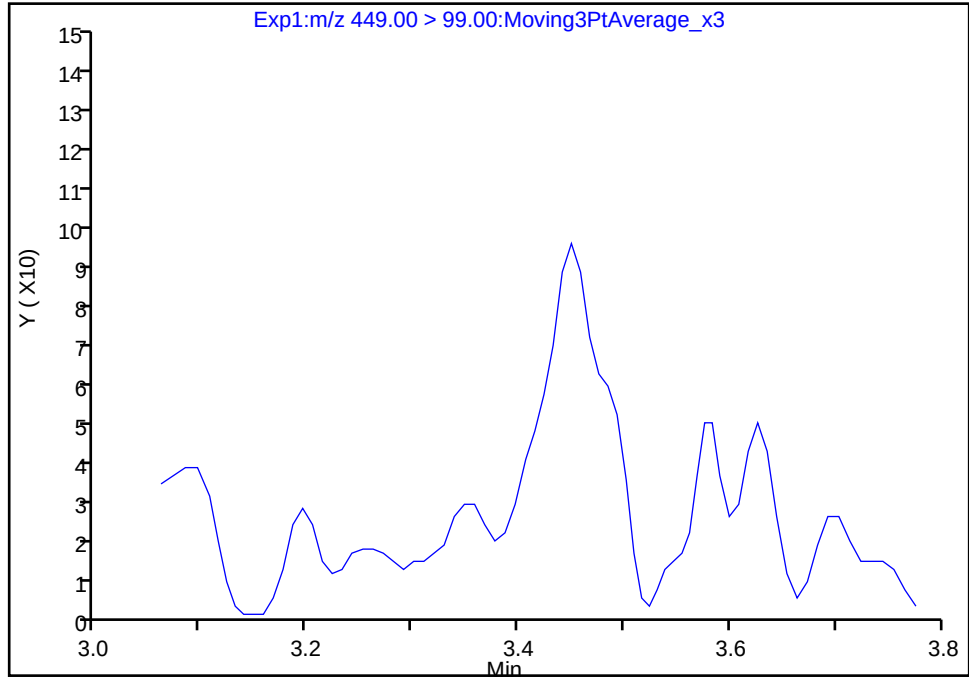
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

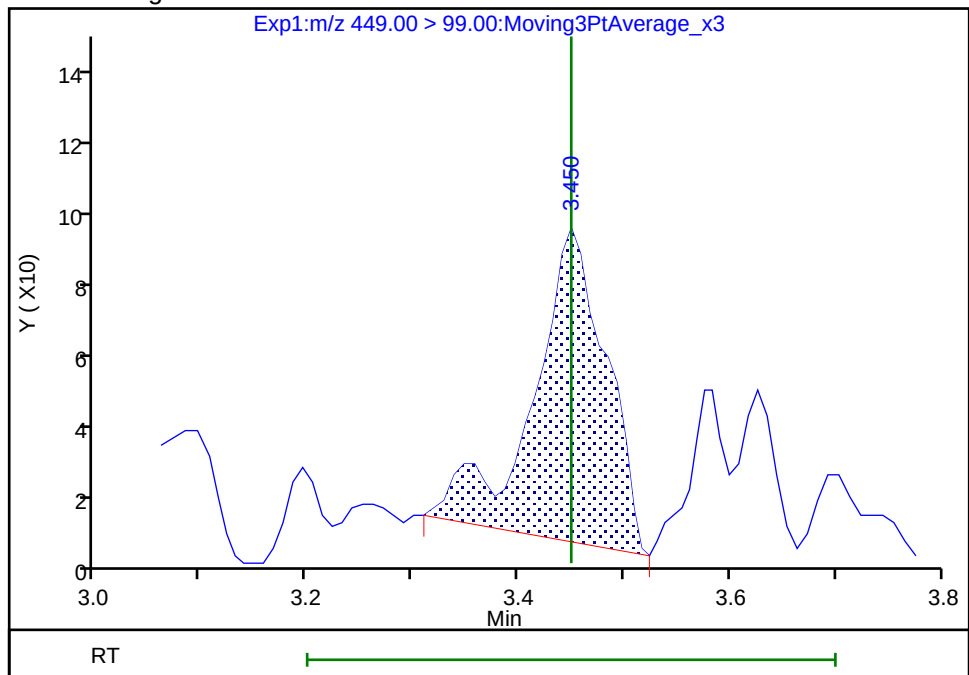
Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45
Area: 407
Amount: 0.003559
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:10:00

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

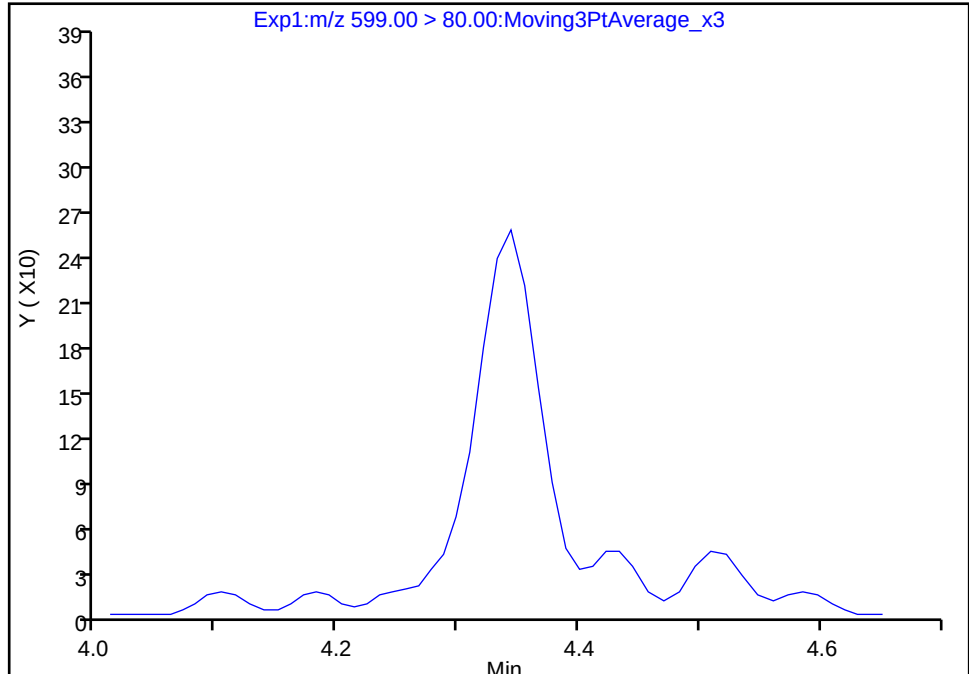
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

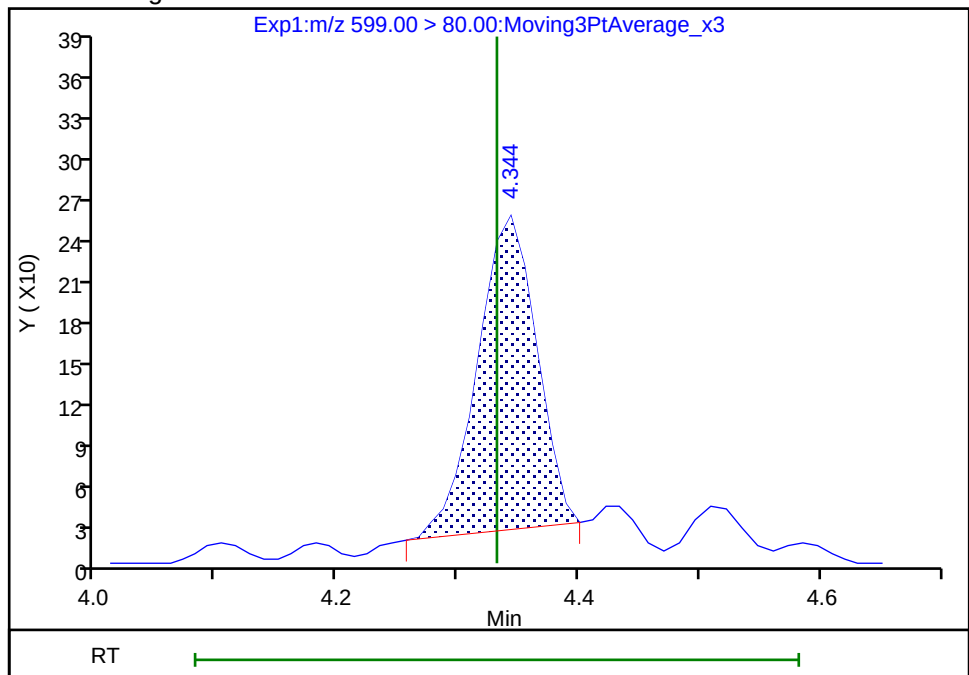
Not Detected
Expected RT: 4.33

Processing Integration Results



RT: 4.34
Area: 784
Amount: 0.002687
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:12:30
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 814 of 897

Eurofins TestAmerica, Burlington

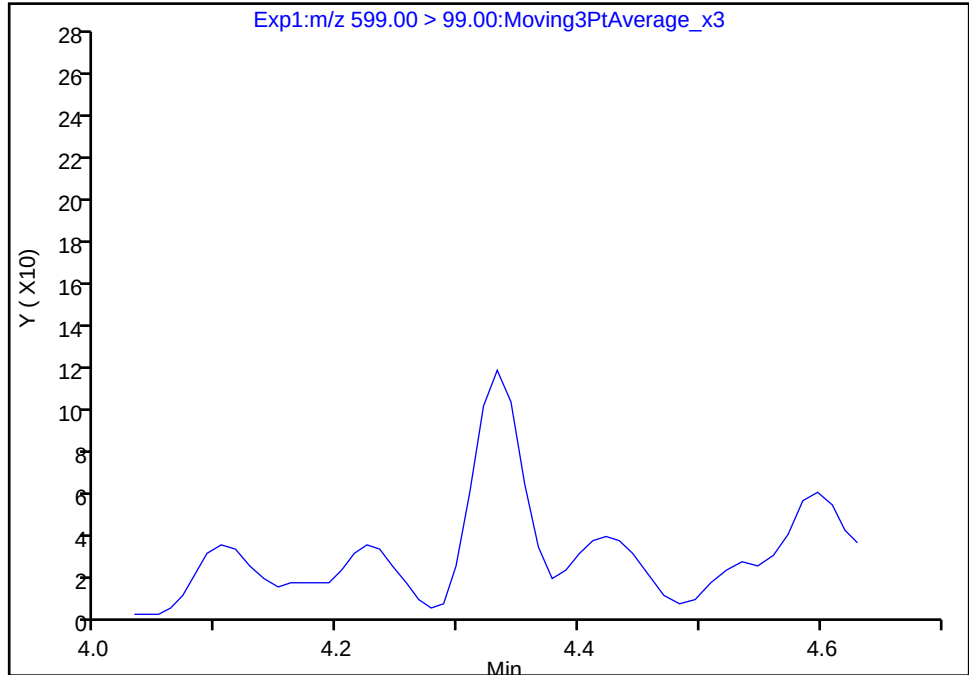
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

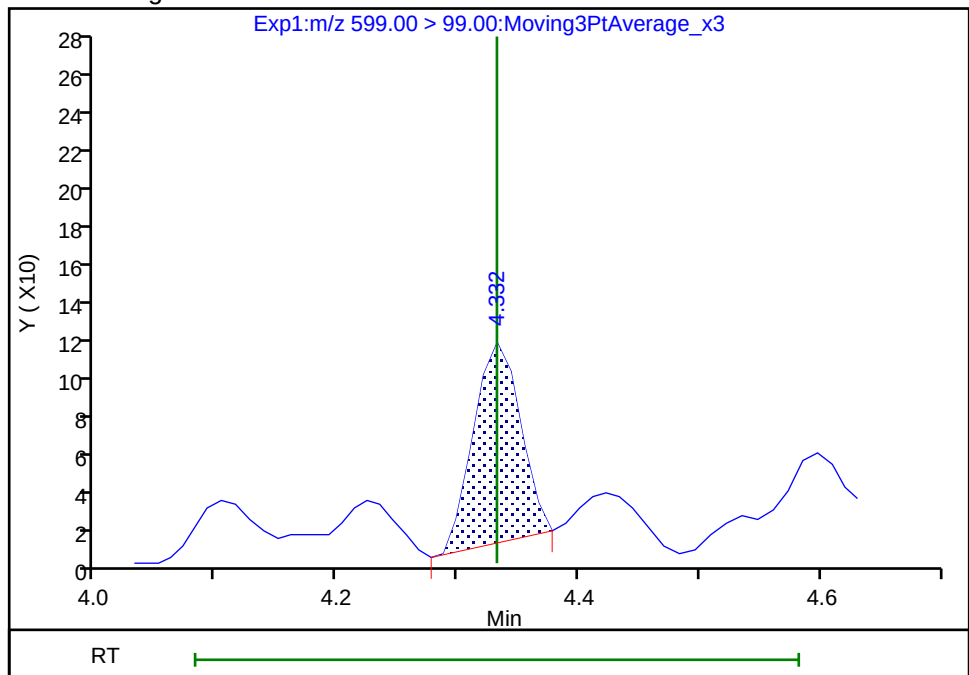
Not Detected
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.33
Area: 283
Amount: 0.002687
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:12:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

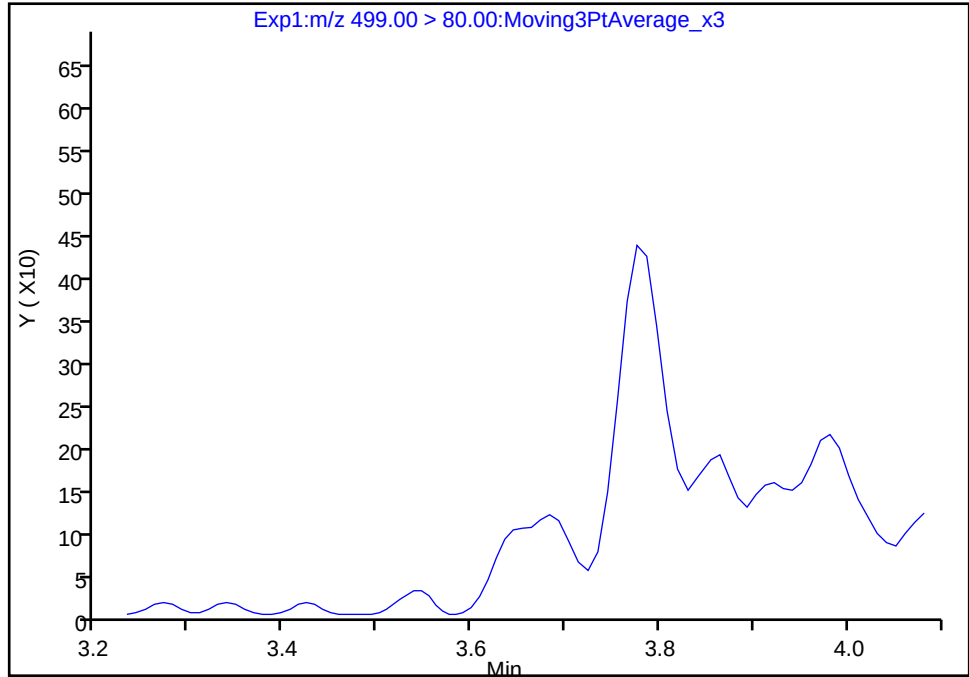
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

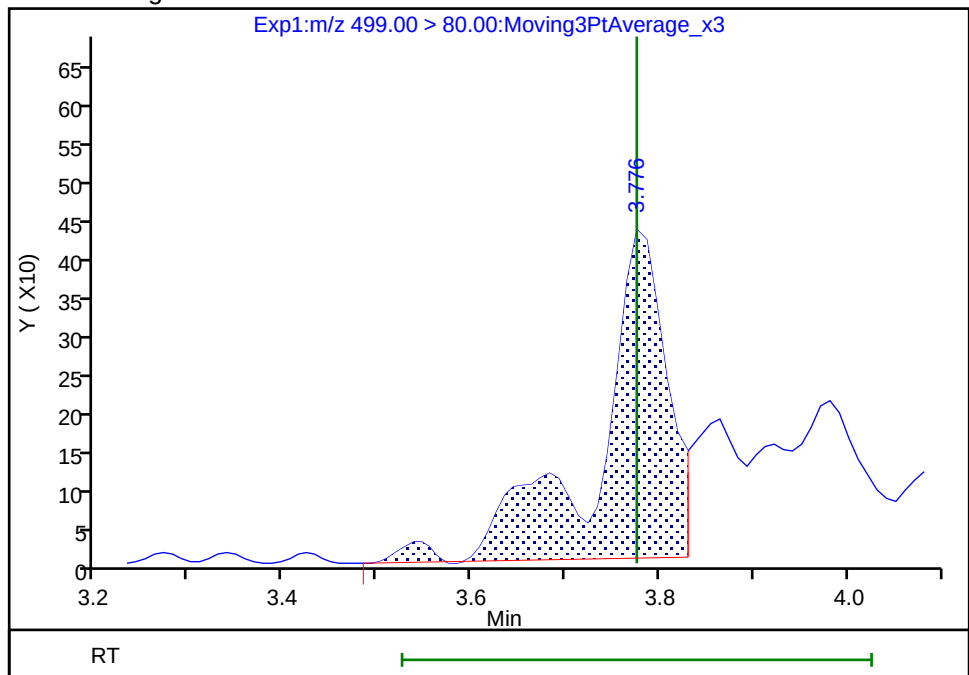
Signal: 1

Not Detected
Expected RT: 3.78

Processing Integration Results



Manual Integration Results



RT: 3.78
Area: 2224
Amount: 0.005041
Amount Units: ng/ml

Reviewer: chirgwinb, 23-Sep-2020 10:10:51

Audit Action: Manually Integrated/Assigned Compound ID Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

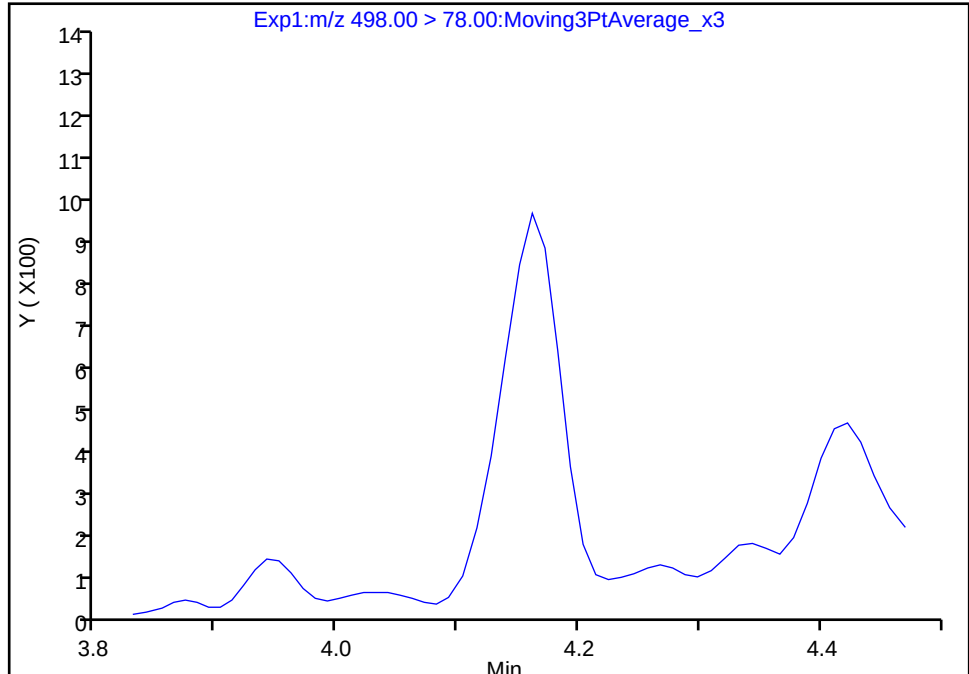
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

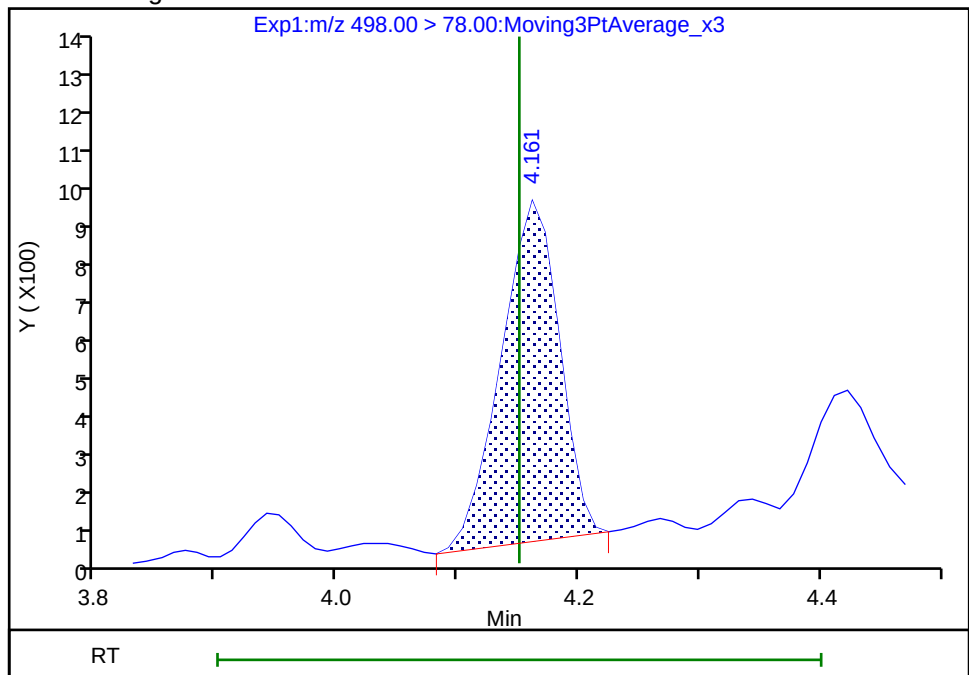
Not Detected
Expected RT: 4.15

Processing Integration Results



Manual Integration Results

RT: 4.16
Area: 2826
Amount: 0.004232
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:12:15

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

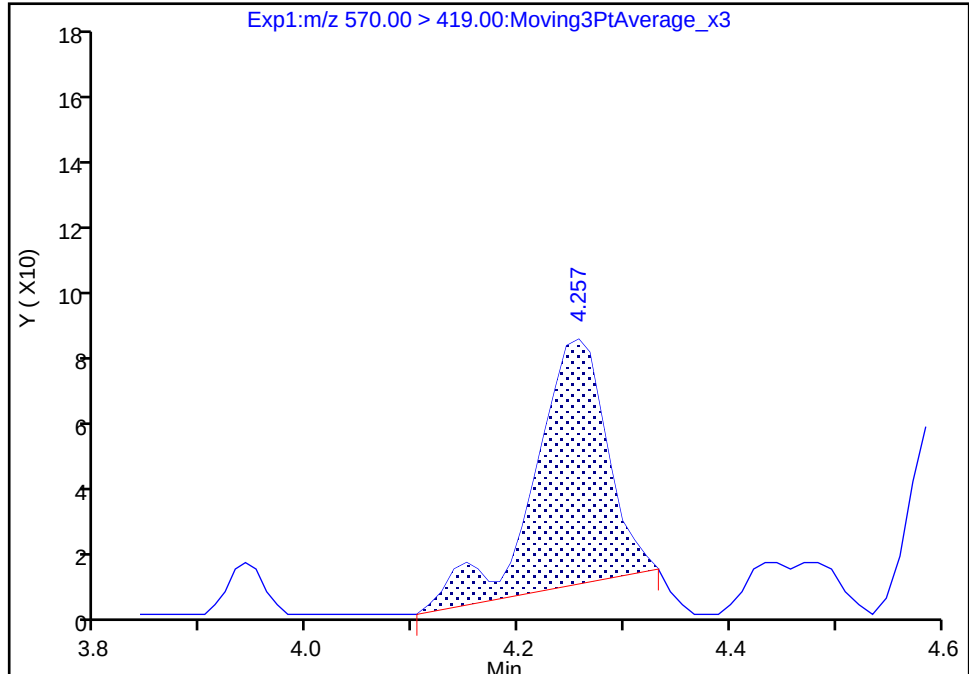
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

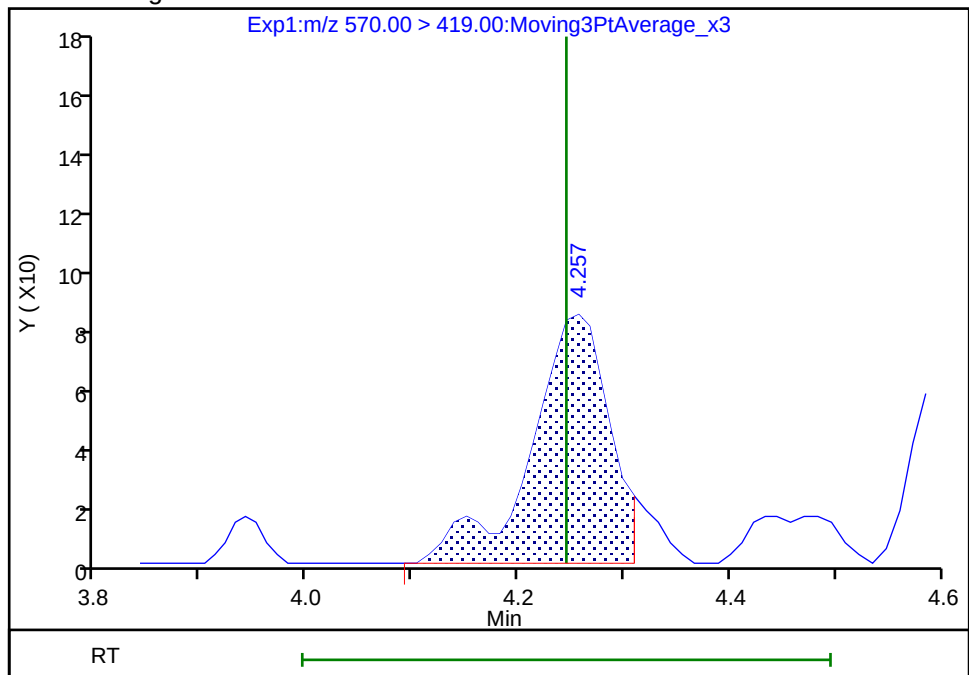
RT: 4.26
Area: 364
Amount: 0.016210
Amount Units: ng/ml

Processing Integration Results



RT: 4.26
Area: 435
Amount: 0.019371
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:12:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

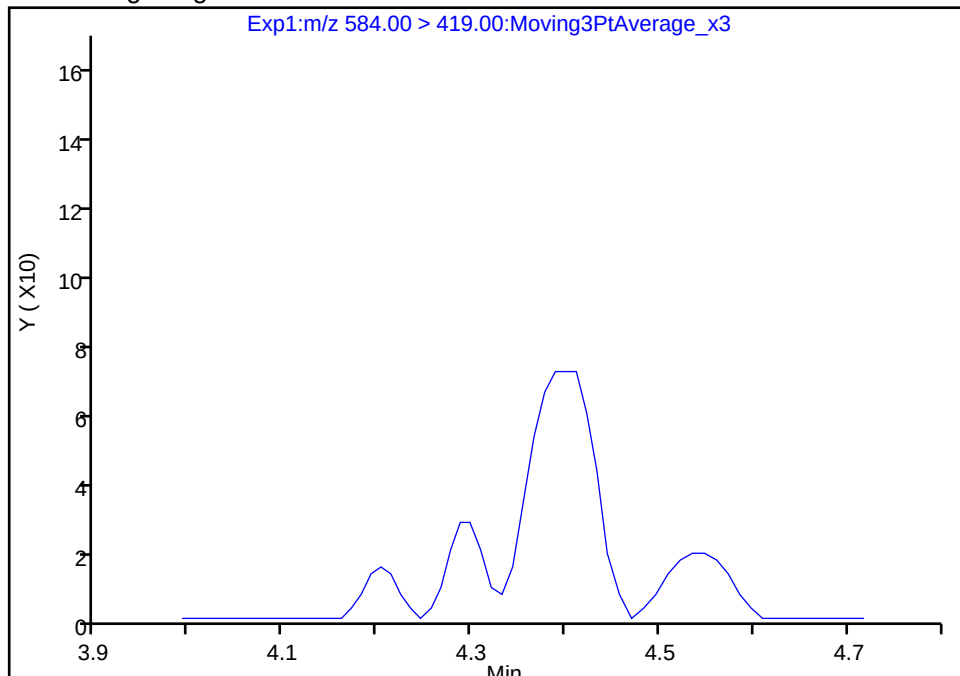
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

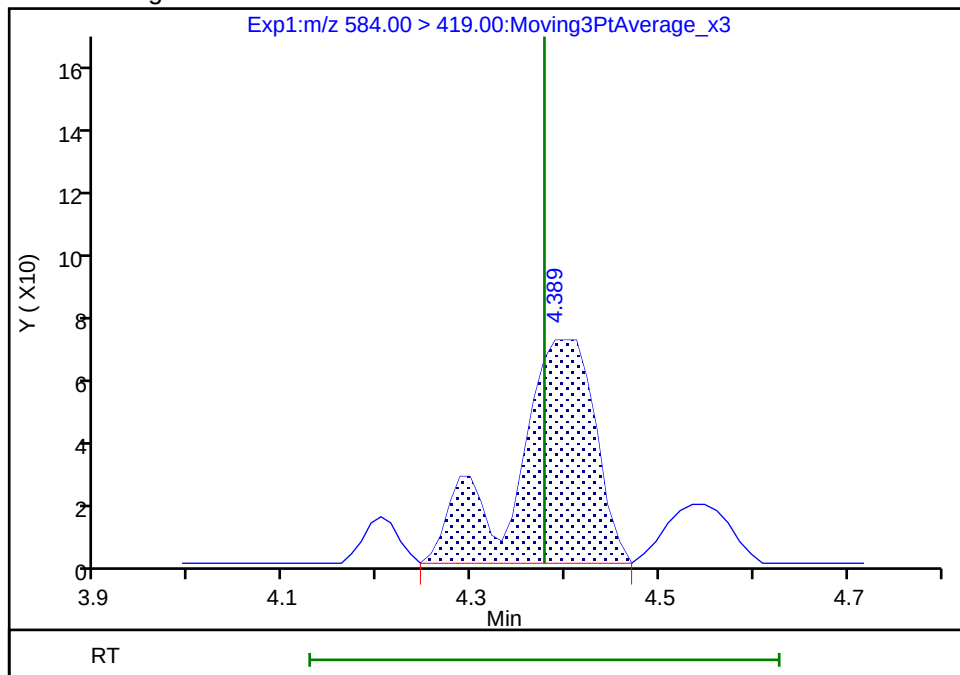
Signal: 1

Not Detected
Expected RT: 4.38

Processing Integration Results



Manual Integration Results



RT: 4.39
Area: 426
Amount: 0.017036
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

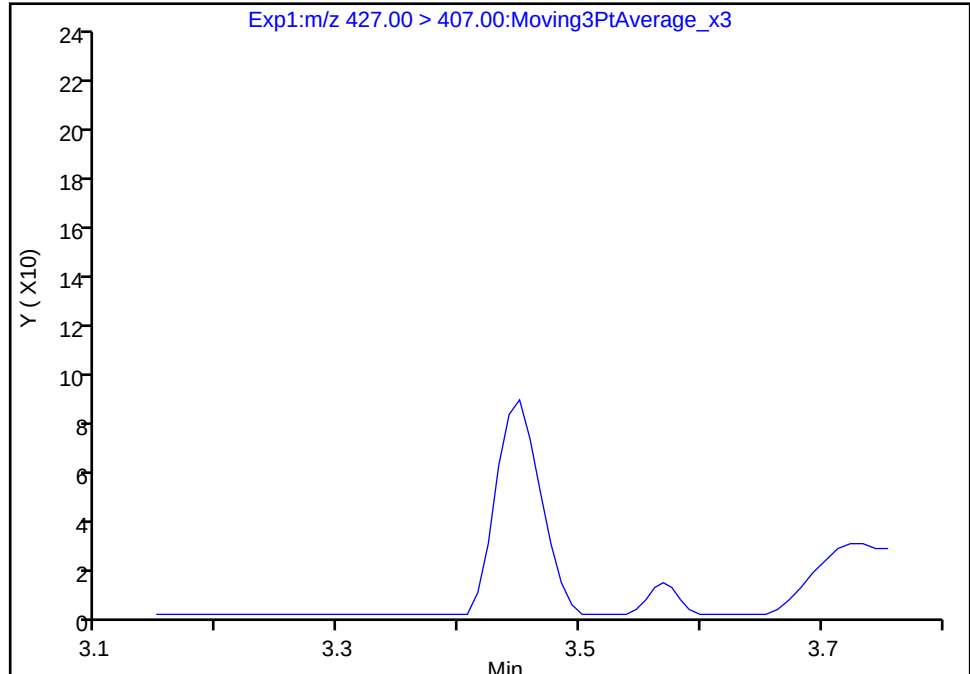
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

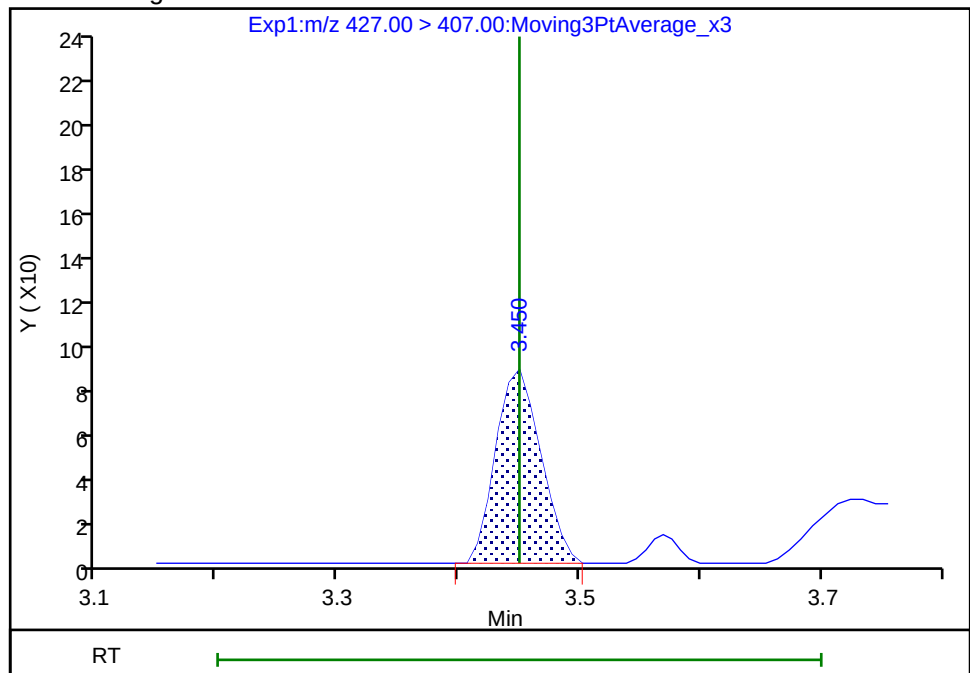
Signal: 1

Not Detected
Expected RT: 3.45

Processing Integration Results



Manual Integration Results



RT: 3.45
Area: 226
Amount: 0.004590
Amount Units: ng/ml

Eurofins TestAmerica, Burlington

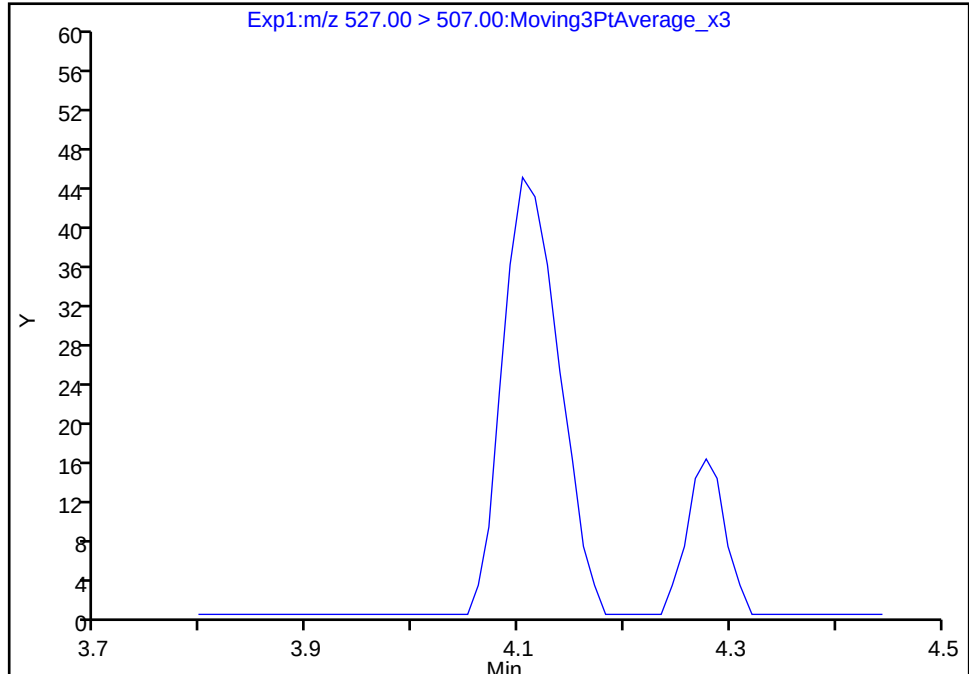
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812
Lims ID: ICB
Client ID:
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

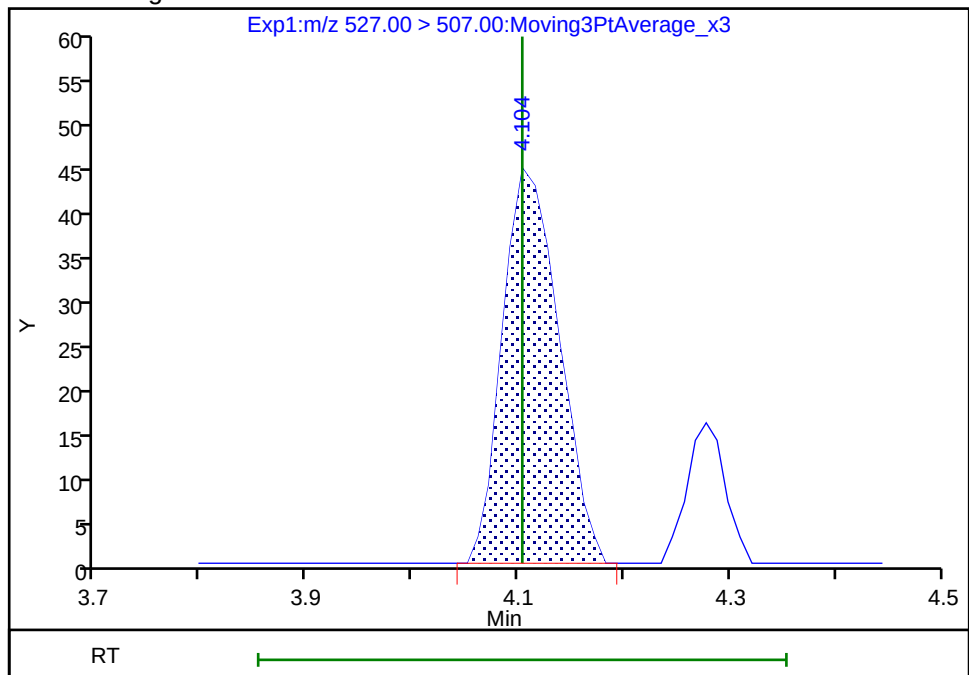
Signal: 1

Not Detected
Expected RT: 4.10

Processing Integration Results



Manual Integration Results



RT: 4.10
Area: 166
Amount: 0.005303
Amount Units: ng/ml

Reviewer: chirgwinb, 23-Sep-2020 10:12:09

Audit Action: Manually Integrated

Audit Reason: Missed Peak

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: _____ Lab Sample ID: LCS 200-159139/2-A

Matrix: Water Lab File ID: PA200924B03.d

Analysis Method: 537 (modified) Date Collected: _____

Extraction Method: 3535 Date Extracted: 09/24/2020 07:00

Sample wt/vol: 250 (mL) Date Analyzed: 09/24/2020 16:30

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 159169 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	37.8		5.0	1.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	37.8		2.0	1.1
307-24-4	Perfluorohexanoic acid (PFHxA)	41.6		2.0	0.83
375-85-9	Perfluoroheptanoic acid (PFHpA)	39.8		2.0	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	37.8		2.0	0.98
375-95-1	Perfluorononanoic acid (PFNA)	38.7		2.0	0.58
335-76-2	Perfluorodecanoic acid (PFDA)	38.9		2.0	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	35.7		2.0	0.73
307-55-1	Perfluorododecanoic acid (PFDoA)	37.5		2.0	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	36.9		2.0	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	39.3		2.0	0.59
375-73-5	Perfluorobutanesulfonic acid (PFBS)	37.0		2.0	0.63
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.4		2.0	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	40.2		2.0	0.39
335-77-3	Perfluorodecanesulfonic acid (PFDS)	37.4		2.0	0.48
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	36.2		2.0	0.87
754-91-6	Perfluorooctanesulfonamide (FOSA)	40.3		2.0	0.57
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	45.1		5.0	0.79
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.7		5.0	0.93
27619-97-2	6:2 FTS	35.8		5.0	0.72
39108-34-4	8:2 FTS	34.5		2.0	0.66

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: _____ Lab Sample ID: LCS 200-159139/2-A
 Matrix: Water Lab File ID: PA200924B03.d
 Analysis Method: 537 (modified) Date Collected: _____
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 250 (mL) Date Analyzed: 09/24/2020 16:30
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	79		25-150
STL00992	13C4 PFBA	103		25-150
STL01893	13C5 PFPeA	105		25-150
STL00993	13C2 PFHxA	100		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	100		50-150
STL00995	13C5 PFNA	101		50-150
STL00996	13C2 PFDA	91		50-150
STL00997	13C2 PFUnA	96		50-150
STL00998	13C2 PFDoA	96		50-150
STL02116	13C2 PFTeDA	89		50-150
STL02337	13C3 PFBS	96		50-150
STL00994	18O2 PFHxS	99		50-150
STL00991	13C4 PFOS	95		50-150
STL02118	d3-NMeFOSAA	84		50-150
STL02117	d5-NEtFOSAA	92		50-150
STL02279	M2-6:2 FTS	103		25-150
STL02280	M2-8:2 FTS	100		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B03.d
 Lims ID: LCS 200-159139/2-A
 Client ID:
 Sample Type: LCS
 Inject. Date: 24-Sep-2020 16:30:16 ALS Bottle#: 3 Worklist Smp#: 3
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: LCS 200-159139/2-A
 Misc. Info.: 200-0042936-003 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 08:21:44

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.990	1.981	0.009	0.577	1094807	1.29		103	5475	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.000	774099	0.9455		94.6	114	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.674	799215	1.31		105	3255	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.326	2.326	0.0	1.000	637866	0.9447		94.5	31.0	
D 47 13C3 PFBS										
301.90 > 80.00	2.353	2.339	0.014	0.682	828467	1.12		96.1	239268	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.353	2.339	0.014	1.000	657224	0.9255	Target=2.07	105	2034	
298.90 > 99.00	2.339	2.339	0.0	0.994	307483		2.14(1.04-3.11)		365	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.665	2.653	0.012	1.000	87628	0.9782		105	2275	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.665	2.653	0.012	0.773	64713	1.16		99.5	169	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.703	2.691	0.012	0.784	781980	1.25		99.7	4836	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.703	2.691	0.012	1.000	655882	1.04	Target=12.44	104	256	
313.00 > 119.00	2.703	2.691	0.012	1.000	51038		12.85(6.22-18.66)		145	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.703	2.703	0.0	0.880	610643	0.9835	Target=3.64	105	2189	
349.00 > 99.00	2.703	2.703	0.0	0.880	181601		3.36(1.82-5.46)		739	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.810	2.810	0.0	0.815	76683	1.31		105	939	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										
329.10 > 285.00	2.818	2.810	0.008	1.003	115418	0.8842		88.4	27.6	
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	620088	1.16		98.5	2093	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.004	483583	0.8350	Target=4.60	91.8	1060	M
399.00 > 99.00	3.073	3.073	0.0	1.000	108800		4.44(2.30-6.91)		266	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.073	0.011	0.894	708313	1.24		99.3	2179	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.000	564538	0.99	Target=3.34	99.4	250	
363.00 > 169.00	3.084	3.084	0.0	1.000	171072		3.30(1.67-5.01)		637	
77 DONA										
377.00 > 251.00	3.124	3.115	0.009	0.830	1248835	0.9815	Target=2.44	104	1762	
377.00 > 85.00	3.124	3.115	0.009	0.830	511157		2.44(1.22-3.67)		1091	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.441	3.433	0.008	0.914	480364	1.00	Target=7.08	105	2998	
449.00 > 99.00	3.433	3.433	0.0	0.912	69204		6.94(3.54-10.63)		597	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.441	3.433	0.008	1.000	52081	0.8938		94.3	1148	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.441	0.0	0.997	86703	1.22		103	756	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	728179	1.25		99.8	6526	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.441	0.009		741504	1.25			2776	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	568223	0.9448	Target=2.29	94.5	233	
413.00 > 169.00	3.450	3.450	0.0	1.000	266513		2.13(1.14-3.43)		695	M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	493508	1.13		94.8	2003	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	406148	0.9050	Target=7.10	97.5	938	M
499.00 > 99.00	3.765	3.765	0.0	1.000	58812		6.91(3.55-10.64)		455	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.786	0.0	1.097	624308	1.27		101	2374	
20 Perfluorononanoic acid										
463.00 > 419.00	3.786	3.786	0.0	1.000	491695	0.9667	Target=5.83	96.7	210	
463.00 > 169.00	3.786	3.786	0.0	1.000	78426		6.27(2.91-8.74)		1146	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.931	3.922	0.009	1.044	379800	0.9616		103	3485	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.061	4.052	0.009	1.079	333448	0.9402	Target=3.38	97.9	3365	
549.00 > 99.00	4.061	4.052	0.009	1.079	95873		3.48(1.69-5.08)		562	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.081	4.082	-0.001	0.998	411364	0.9724	Target=6.81	97.2	722	
513.00 > 169.00	4.091	4.082	0.009	1.000	56168		7.32(3.41-10.22)		923	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.091	4.082	0.009	1.186	534495	1.13		90.6	1375	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.091	4.092	-0.001	1.000	28699	0.8637		90.2	872	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.091	4.092	-0.001	1.186	100514	1.20		100	804	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.139	0.011	1.203	746570	0.9817		78.5	2502	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.139	0.011	1.000	562783	1.01		101	1069	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.224	0.001	1.225	28071	1.04		83.6	144	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.235	4.224	0.011	1.002	23911	1.13		113	561	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.321	0.0	1.148	277306	0.9345	Target=3.31	96.9	2344	
599.00 > 99.00	4.321	4.321	0.0	1.148	94494		2.93(1.66-4.97)		888	
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.343	0.012	1.262	427968	1.20		96.1	3322	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.343	0.012	1.000	301634	0.8932	Target=6.57	89.3	383	
563.00 > 169.00	4.355	4.343	0.012	1.000	50341		5.99(3.28-9.85)		1089	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.367	4.355	0.012	1.266	33326	1.15		92.3	366	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.367	4.366	0.001	1.000	24815	1.02		102	699	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.445	4.433	0.012	1.181	306146	0.8986		95.4	803	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.586	4.573	0.013	1.329	452188	1.20		96.1	3353	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.586	4.573	0.013	1.000	330468	0.9368	Target=5.16	93.7	401	
613.00 > 169.00	4.586	4.573	0.013	1.000	66715		4.95(2.58-7.75)		1793	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.598	4.597	0.001	1.124	14270	0.7730		80.2	557	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.754	4.745	0.009	1.263	76899	0.8076	Target=0.45	83.4	252	
699.00 > 99.00	4.754	4.745	0.009	1.263	168927		0.46(0.22-0.67)		1455	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.790	4.790	0.0	1.044	276379	0.9225	Target=3.30	92.2	187	
663.00 > 169.00	4.790	4.790	0.0	1.044	80931		3.41(1.65-4.95)		1358	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.978	0.010	1.446	299463	1.12		89.3	4981	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.988	4.978	0.010	1.000	53864	0.9816	Target=1.06	98.2	1981	
713.00 > 219.00	4.988	4.978	0.010	1.000	48803		1.10(0.53-1.59)		2737	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.361	5.350	0.011	1.554	359393	1.18		94.6	3680	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.361	5.350	0.011	1.000	272191	1.07	Target=3.06	107	283	
813.00 > 169.00	5.361	5.350	0.011	1.000	89005		3.06(1.53-4.58)		2110	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.738	5.738	0.0	1.070	185283	0.8623	Target=2.82	86.2	212	
913.00 > 169.00	5.738	5.738	0.0	1.070	69201		2.68(1.41-4.24)		1116	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B03.d

Injection Date: 24-Sep-2020 16:30:16

Instrument ID: LC812

Lims ID: LCS 200-159139/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

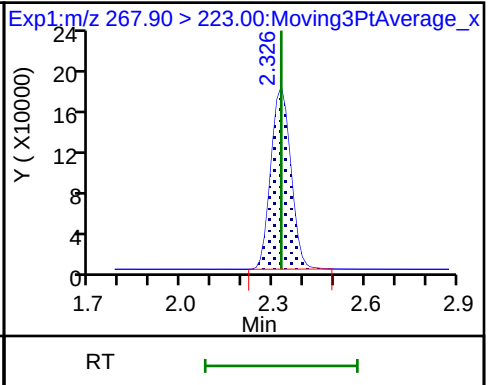
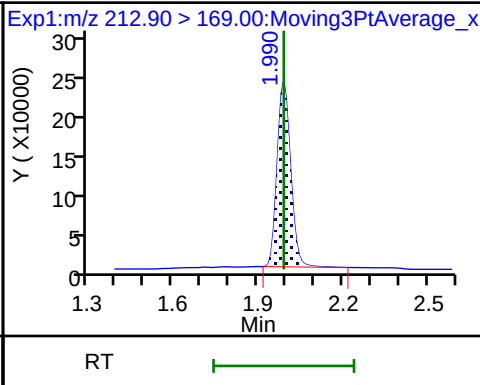
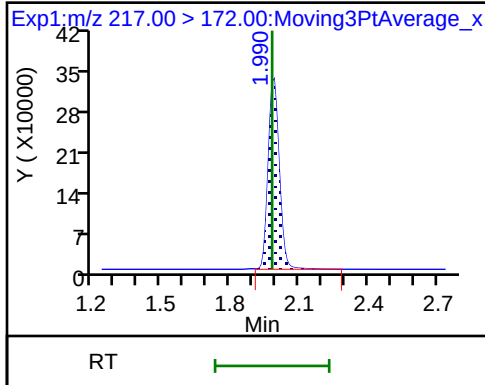
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

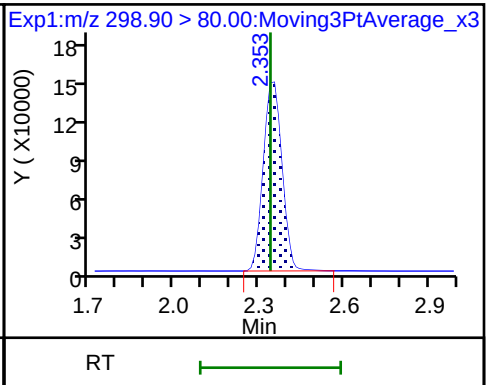
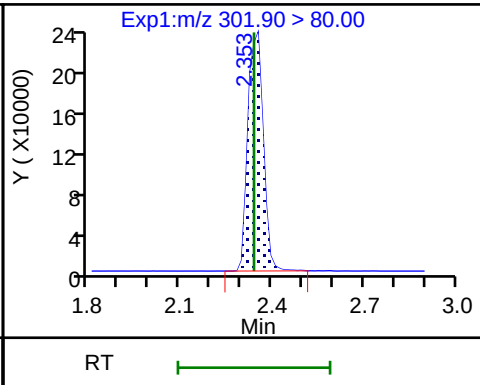
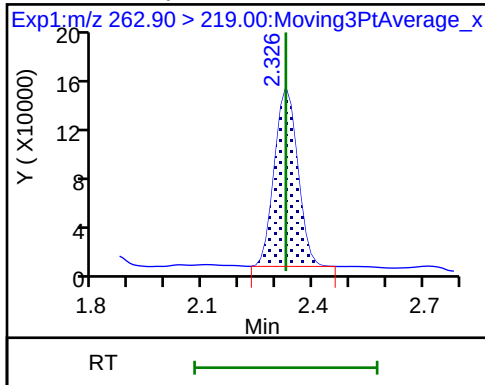
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

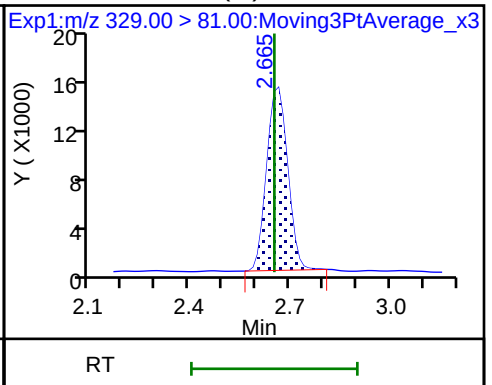
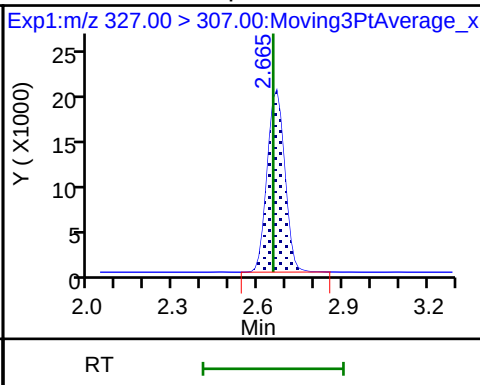
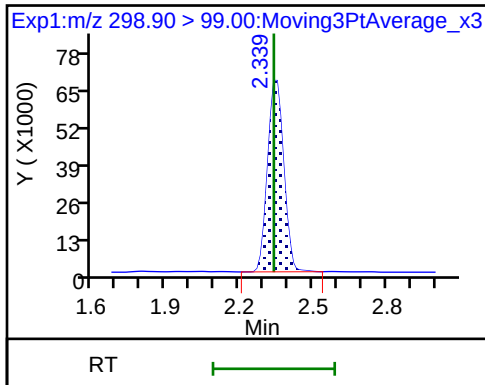
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

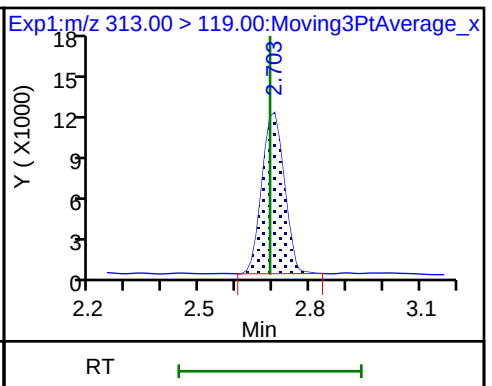
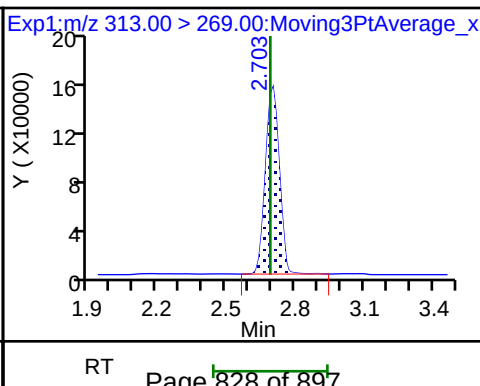
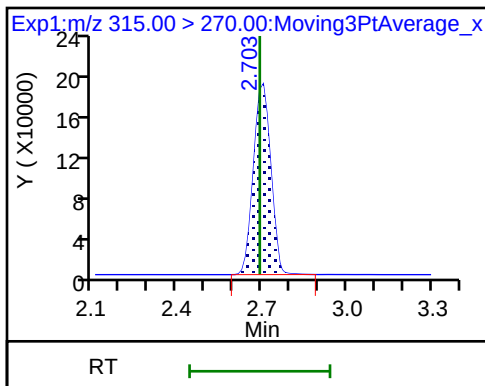
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

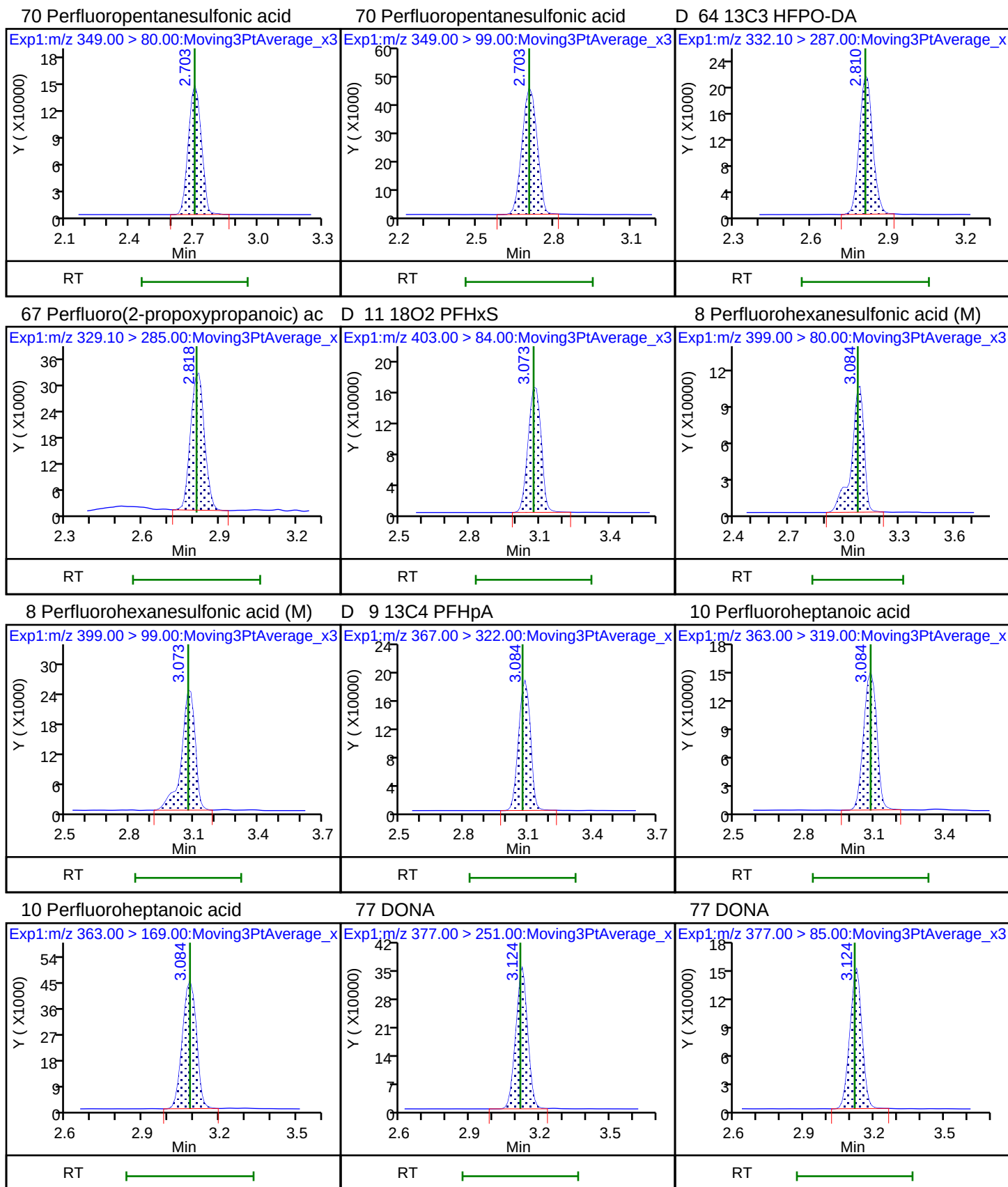


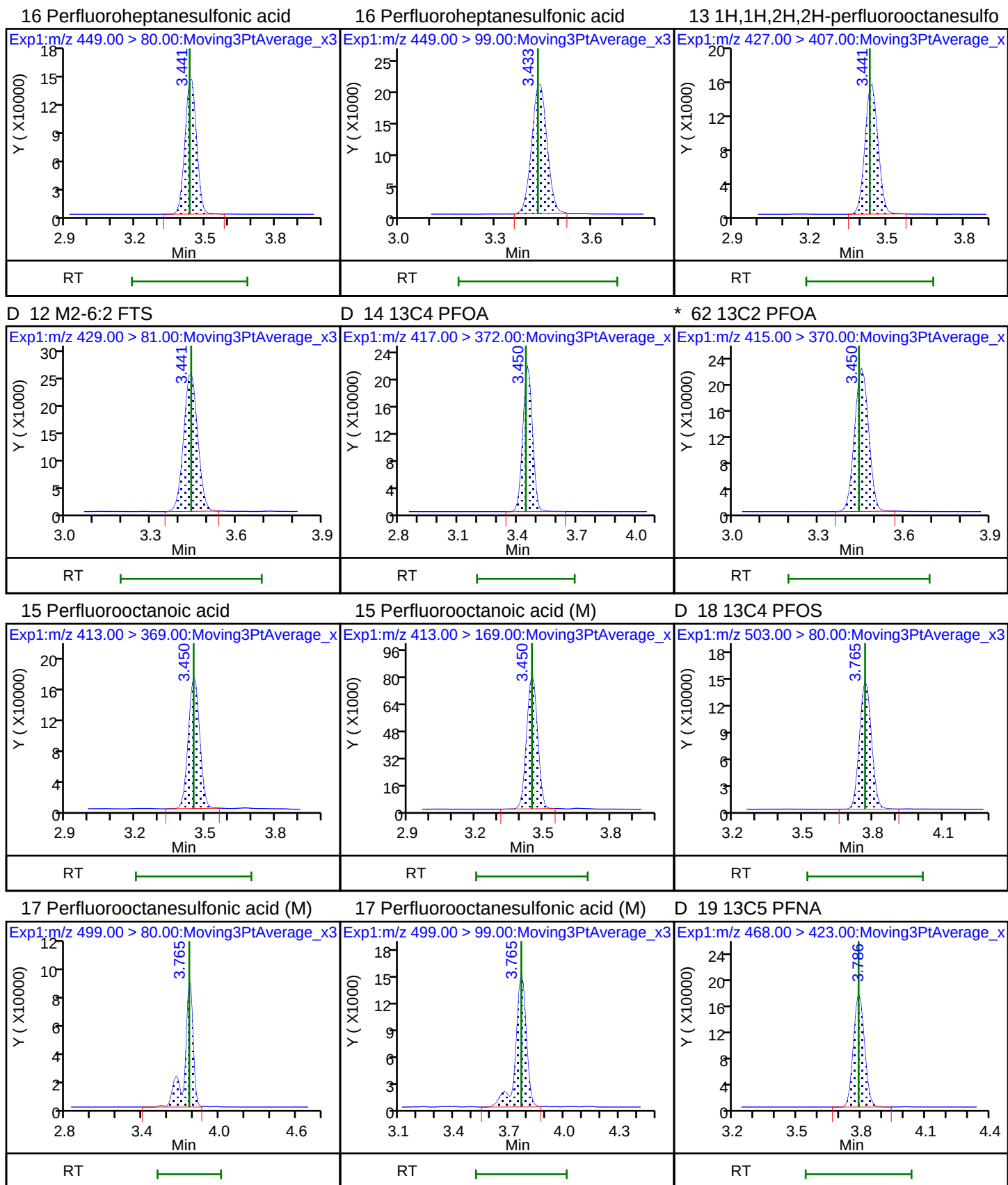
D 7 13C2 PFHxA

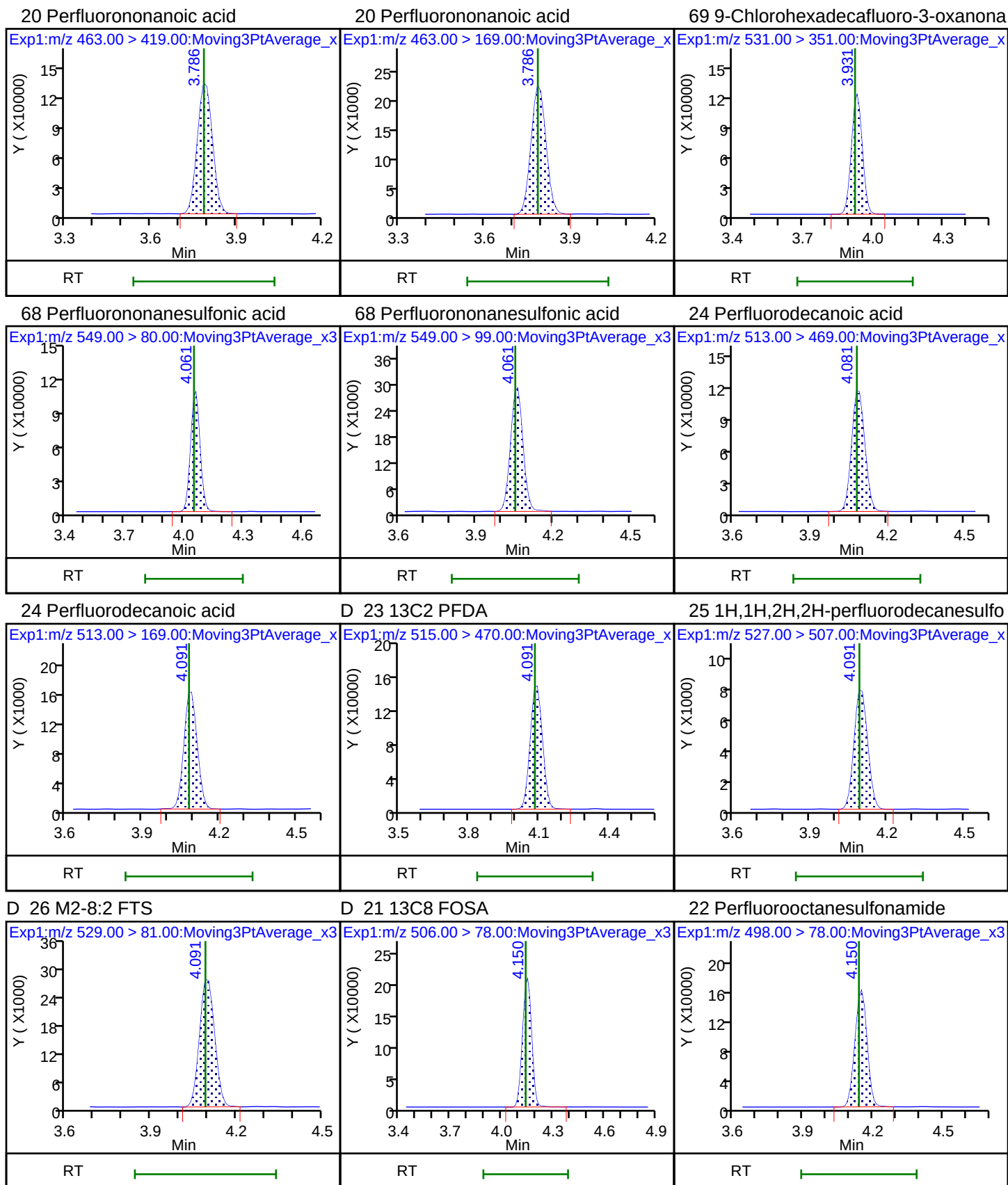
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid







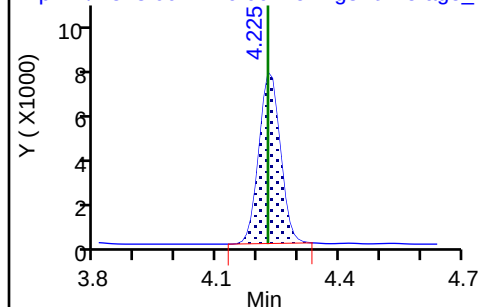


D 27 d3-NMeFOSAA

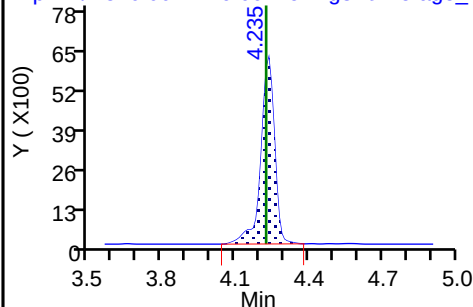
28 N-methylperfluorooctanesulfonami

29 Perfluorodecanesulfonic acid

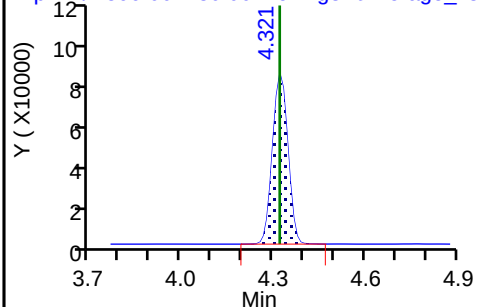
Exp1:m/z 573.00 > 419.00:Moving3PtAverage_x3



Exp1:m/z 570.00 > 419.00:Moving3PtAverage_x3



Exp1:m/z 599.00 > 80.00:Moving3PtAverage_x3

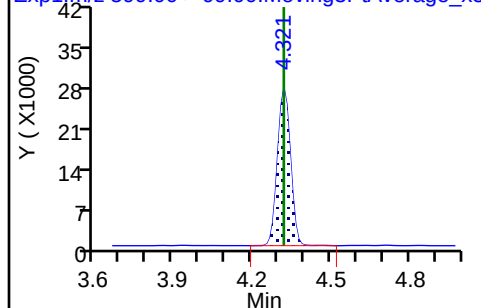


29 Perfluorodecanesulfonic acid

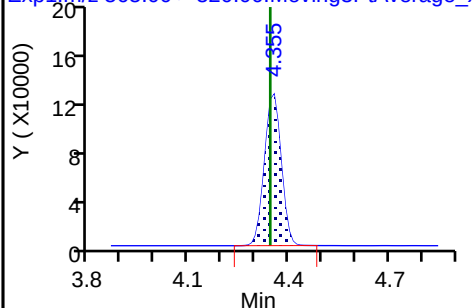
D 30 13C2 PFUnA

31 Perfluoroundecanoic acid

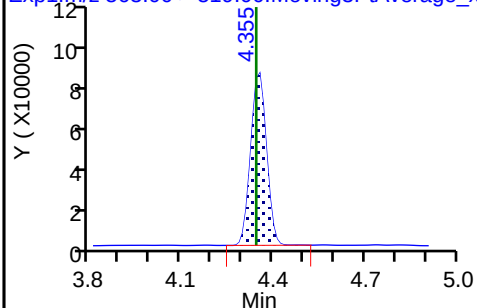
Exp1:m/z 599.00 > 99.00:Moving3PtAverage_x3



Exp1:m/z 565.00 > 520.00:Moving3PtAverage_x3



Exp1:m/z 563.00 > 519.00:Moving3PtAverage_x3

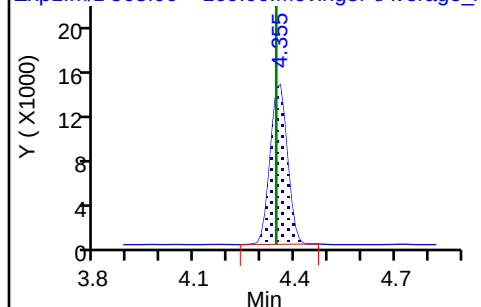


31 Perfluoroundecanoic acid

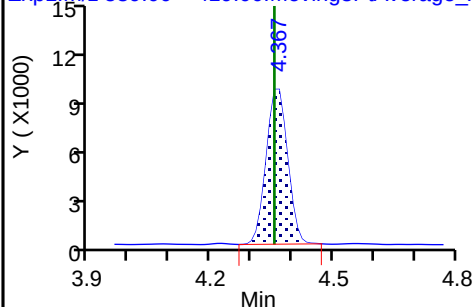
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid

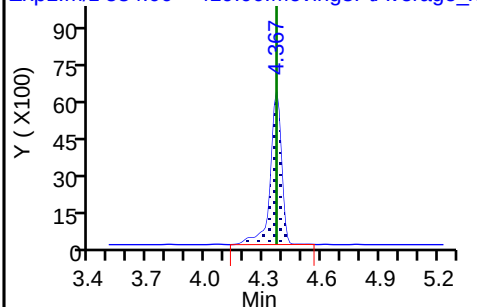
Exp1:m/z 563.00 > 169.00:Moving3PtAverage_x3



Exp1:m/z 589.00 > 419.00:Moving3PtAverage_x3



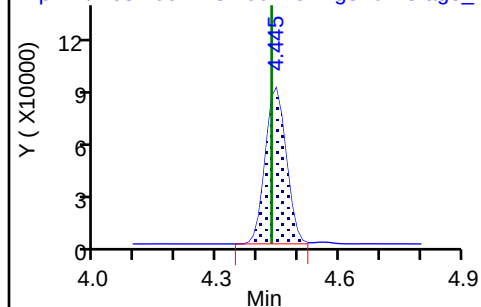
Exp1:m/z 584.00 > 419.00:Moving3PtAverage_x3



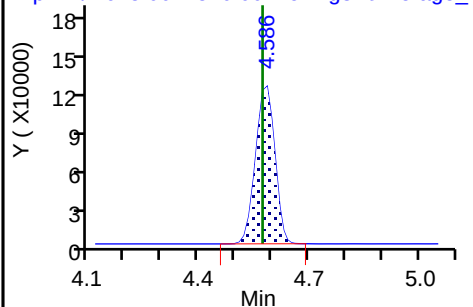
66 11-Chloroeicosafluoro-3-oxaundec (M)36 13C2 PFDaA

37 Perfluorododecanoic acid

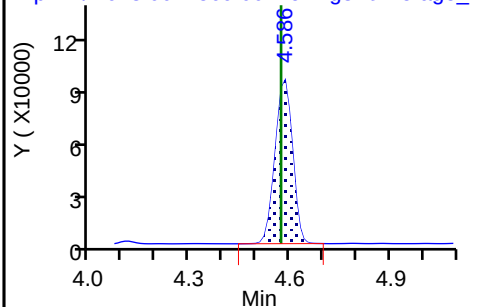
Exp1:m/z 631.00 > 451.00:Moving3PtAverage_x3



Exp1:m/z 615.00 > 570.00:Moving3PtAverage_x3



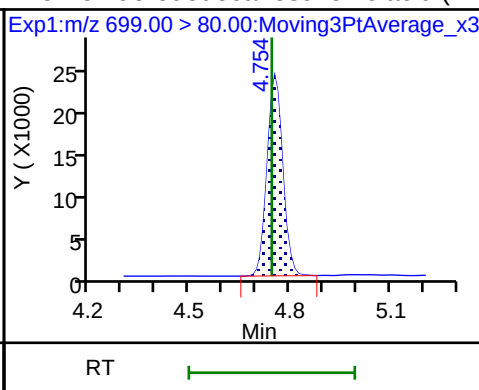
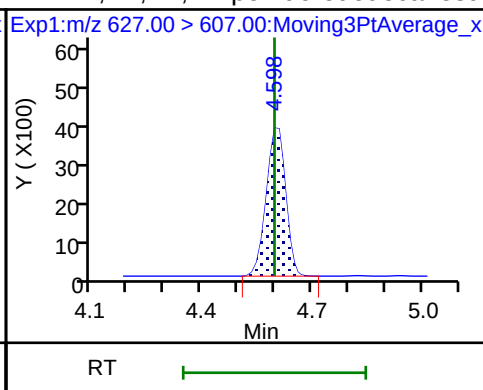
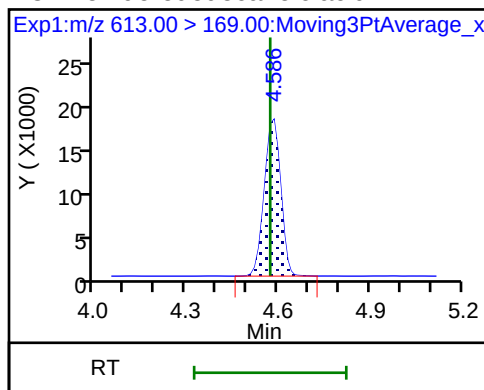
Exp1:m/z 613.00 > 569.00:Moving3PtAverage_x3



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

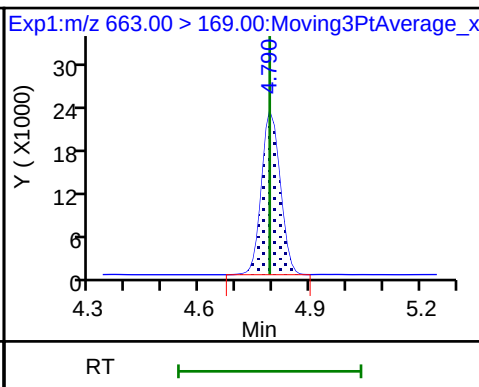
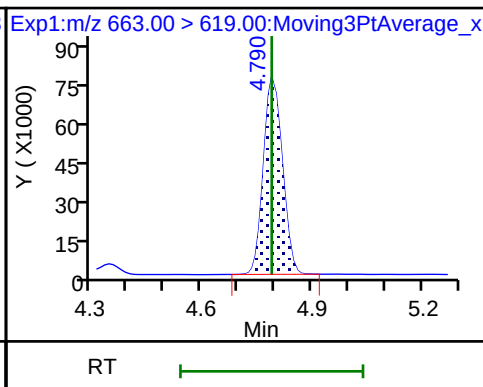
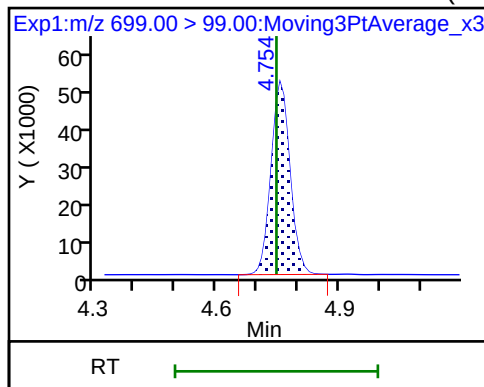
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

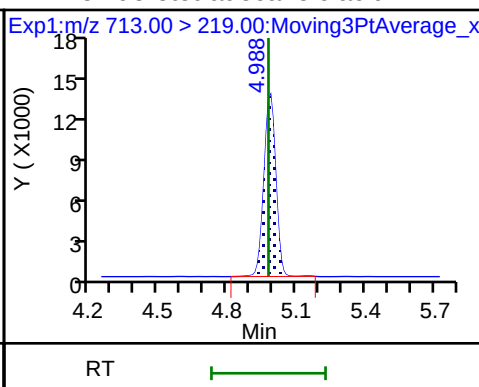
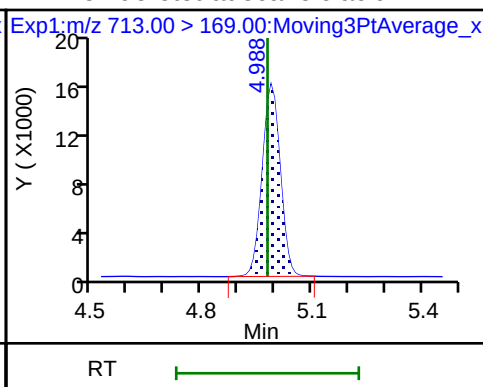
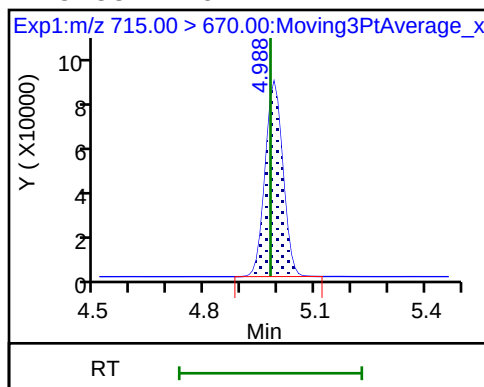
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

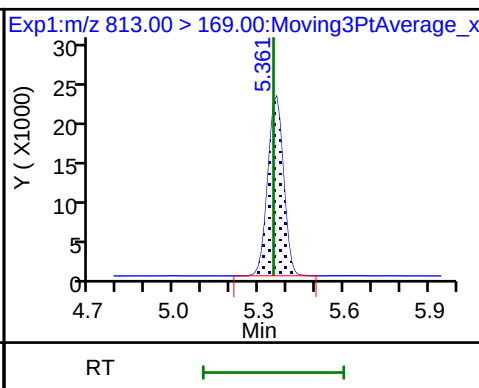
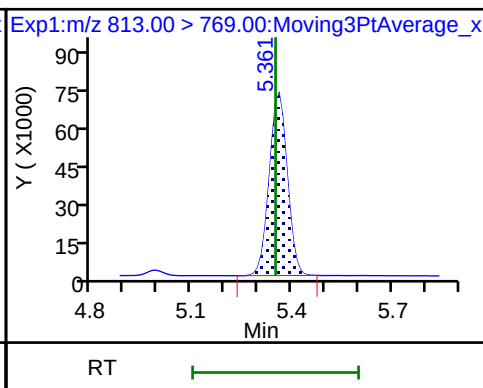
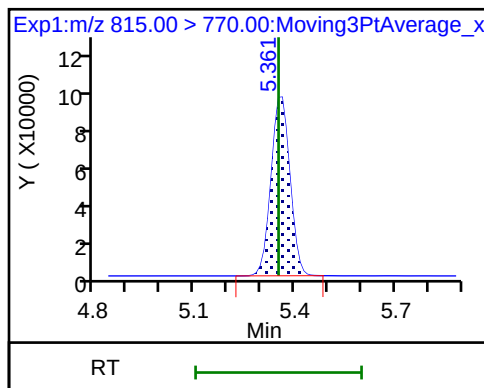
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

45 Perfluorohexadecanoic acid

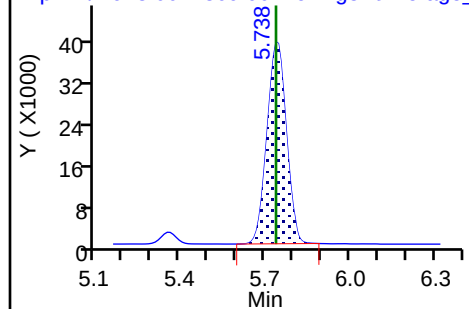
45 Perfluorohexadecanoic acid



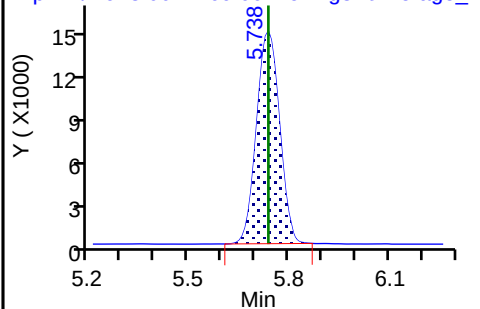
46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid

Exp1:m/z 913.00 > 869.00:Moving3PtAverage_x



Exp1:m/z 913.00 > 169.00:Moving3PtAverage_x



Eurofins TestAmerica, Burlington

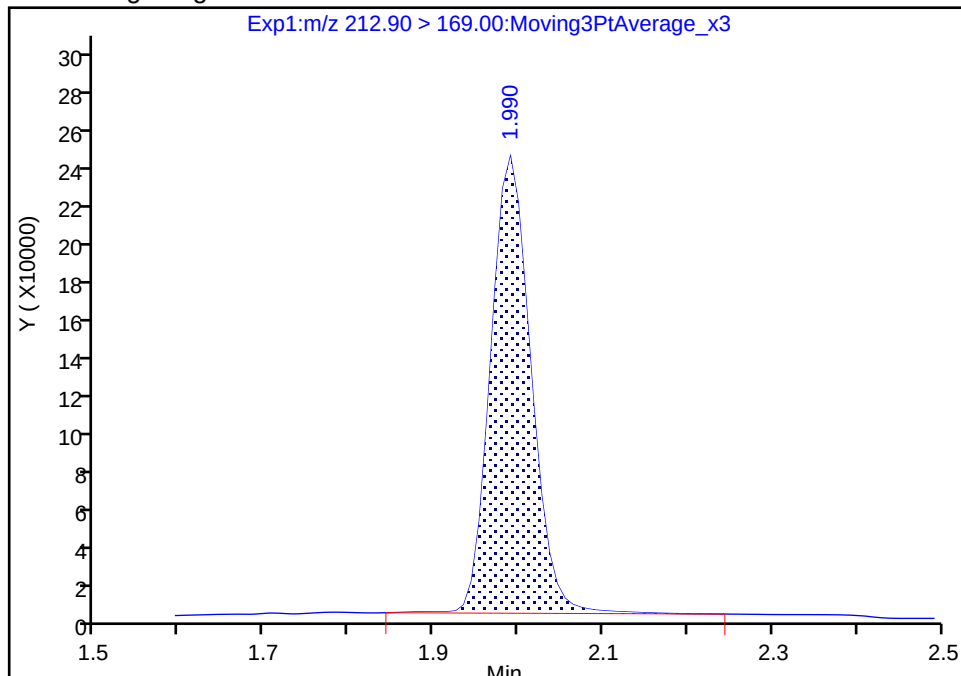
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B03.d
Injection Date: 24-Sep-2020 16:30:16 Instrument ID: LC812
Lims ID: LCS 200-159139/2-A
Client ID:
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

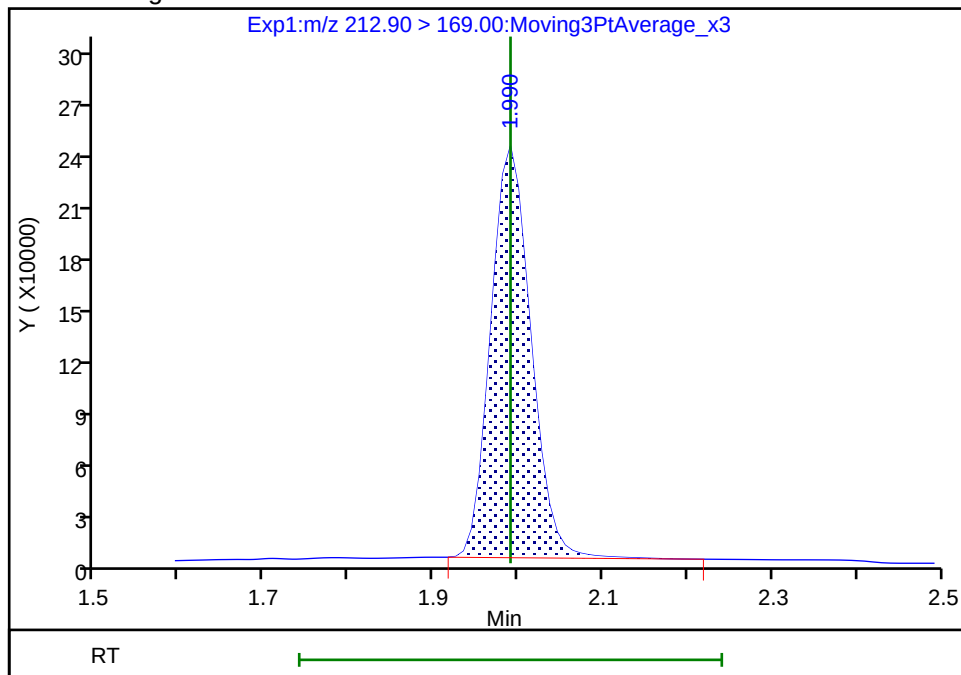
RT: 1.99
Area: 782342
Amount: 0.955604
Amount Units: ng/ml

Processing Integration Results



RT: 1.99
Area: 774099
Amount: 0.945535
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:20:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B03.d

Injection Date: 24-Sep-2020 16:30:16

Instrument ID: LC812

Lims ID: LCS 200-159139/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

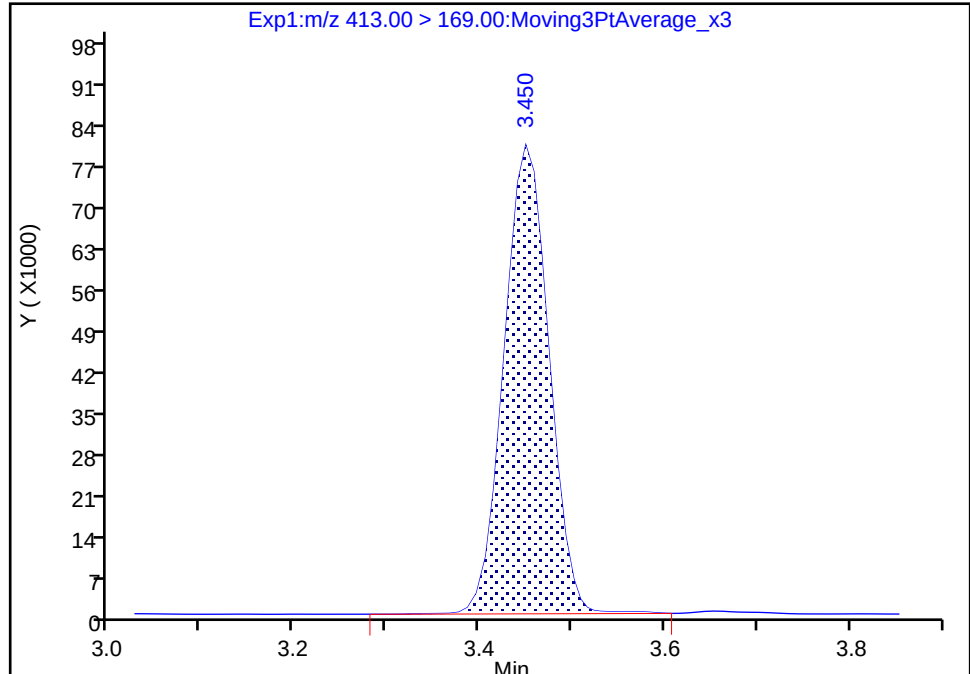
Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

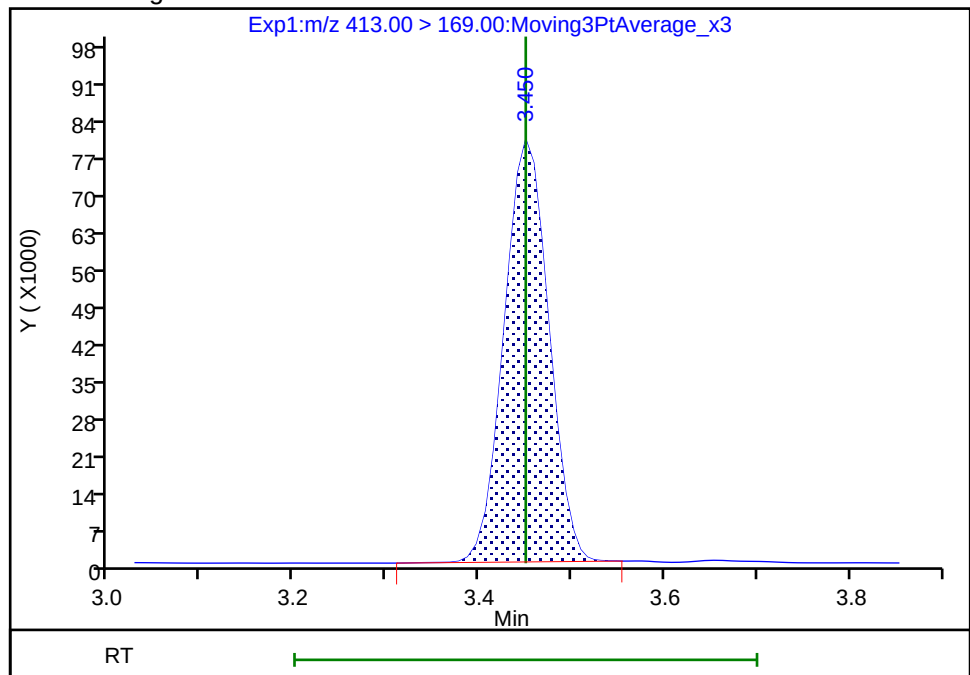
RT: 3.45
Area: 269107
Amount: 0.944784
Amount Units: ng/ml

Processing Integration Results



RT: 3.45
Area: 266513
Amount: 0.944784
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:20:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B03.d

Injection Date: 24-Sep-2020 16:30:16

Instrument ID: LC812

Lims ID: LCS 200-159139/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

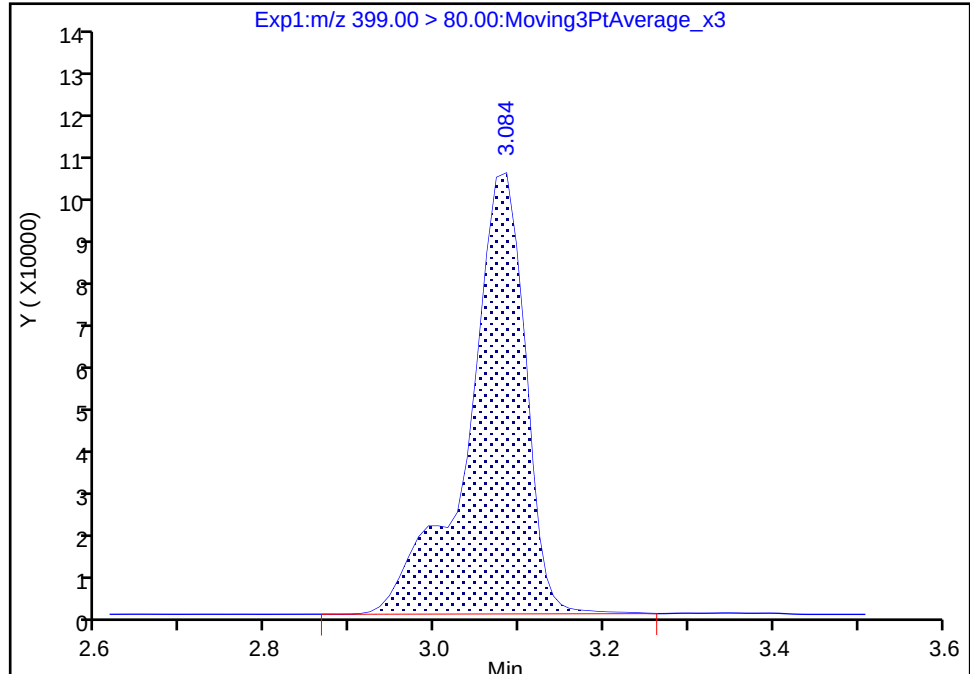
Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

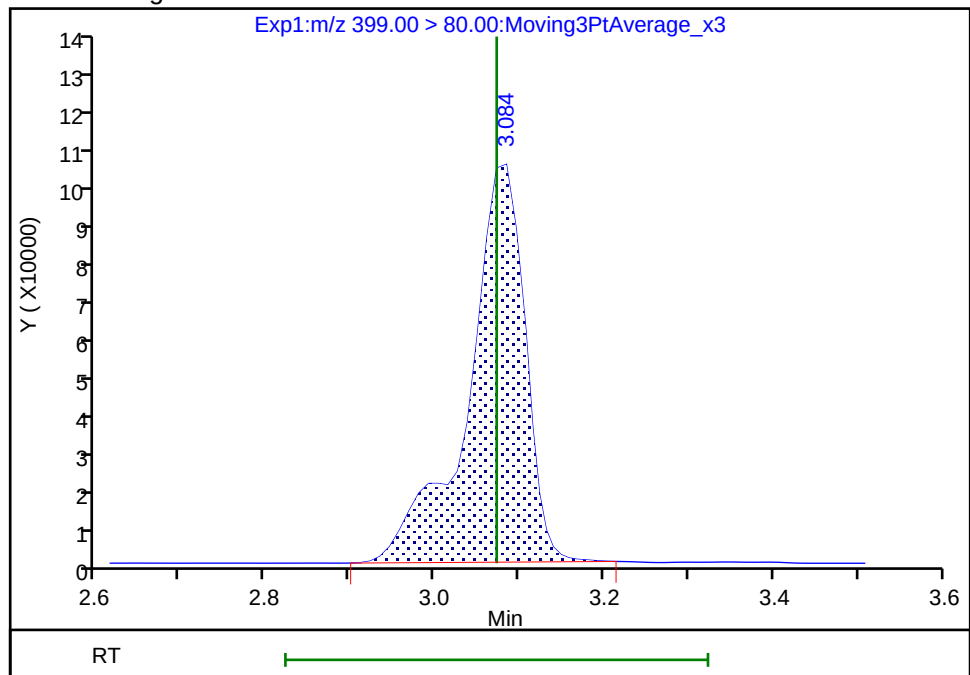
RT: 3.08
Area: 487102
Amount: 0.841082
Amount Units: ng/ml

Processing Integration Results



RT: 3.08
Area: 483583
Amount: 0.835005
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:20:21

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B03.d

Injection Date: 24-Sep-2020 16:30:16

Instrument ID: LC812

Lims ID: LCS 200-159139/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

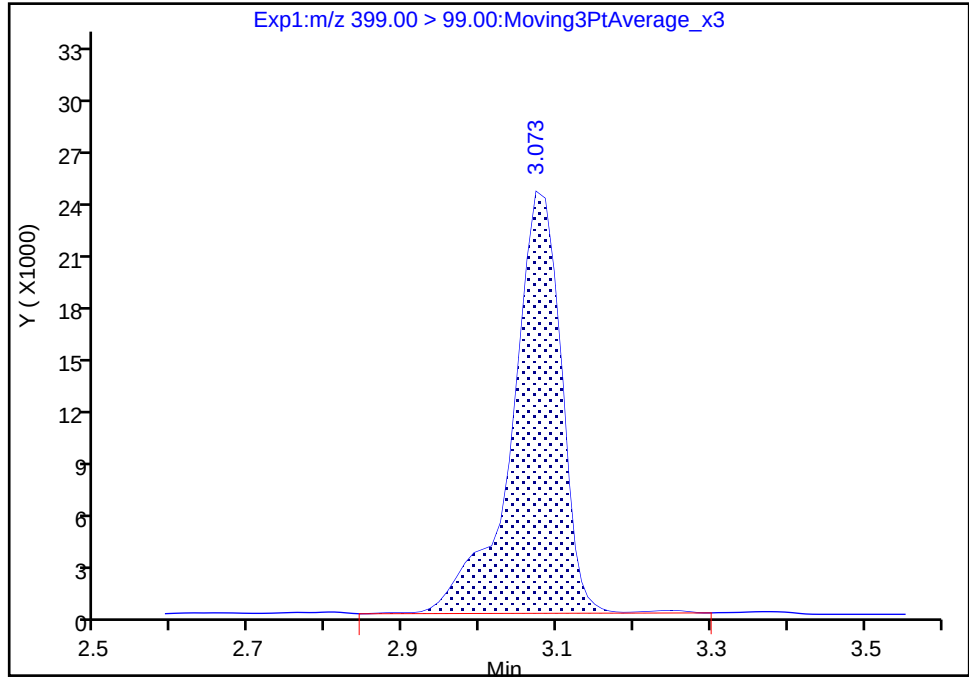
EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

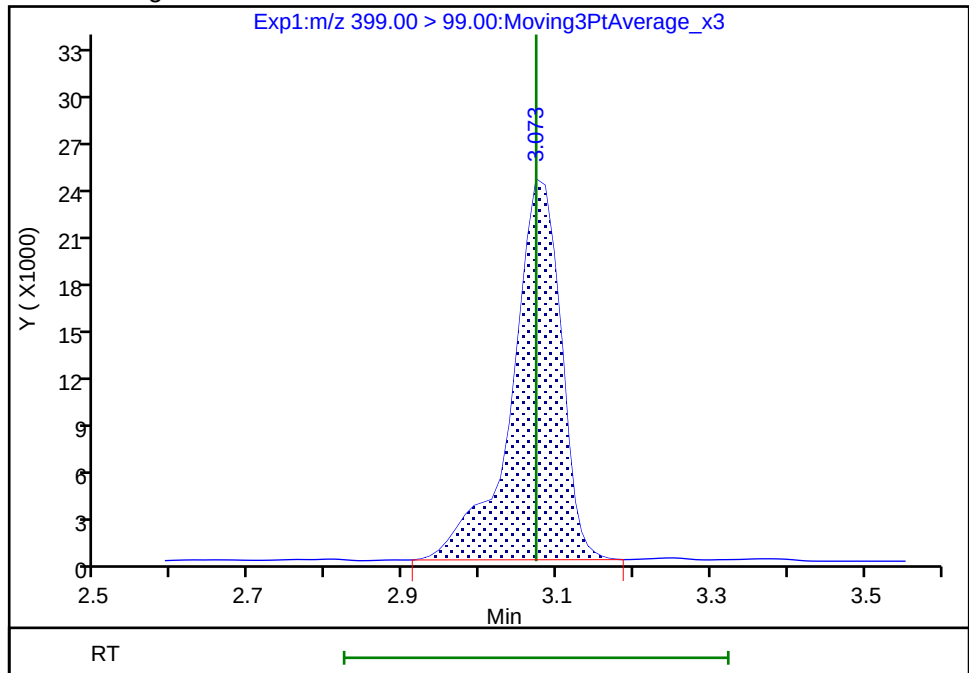
RT: 3.07
Area: 109960
Amount: 0.841082
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 108800
Amount: 0.835005
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:20:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B03.d

Injection Date: 24-Sep-2020 16:30:16

Instrument ID: LC812

Lims ID: LCS 200-159139/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

Method: PFC_LC812

Limit Group: LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

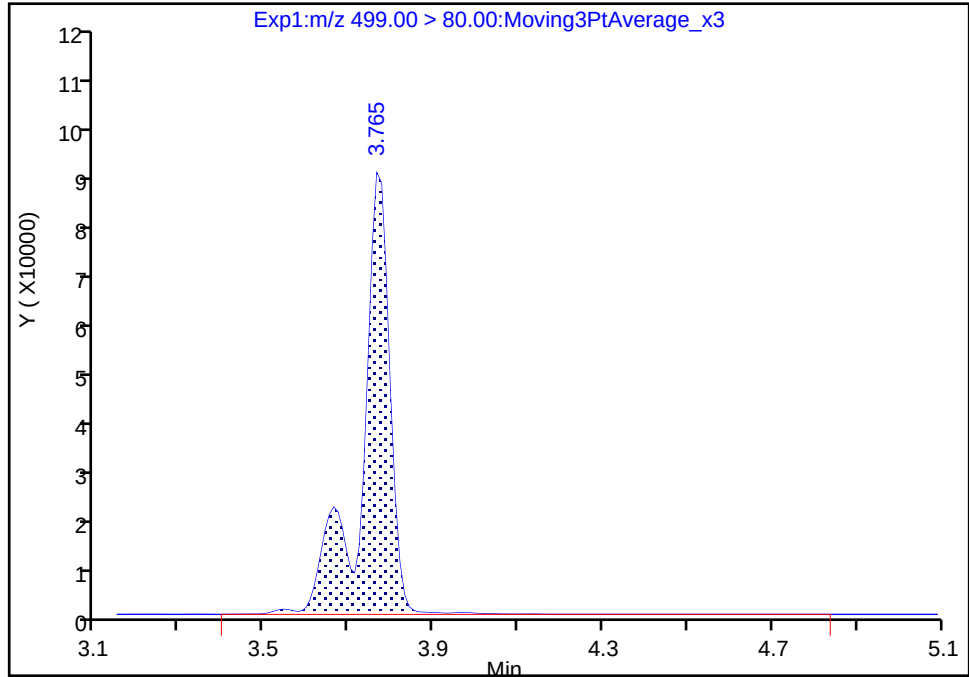
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

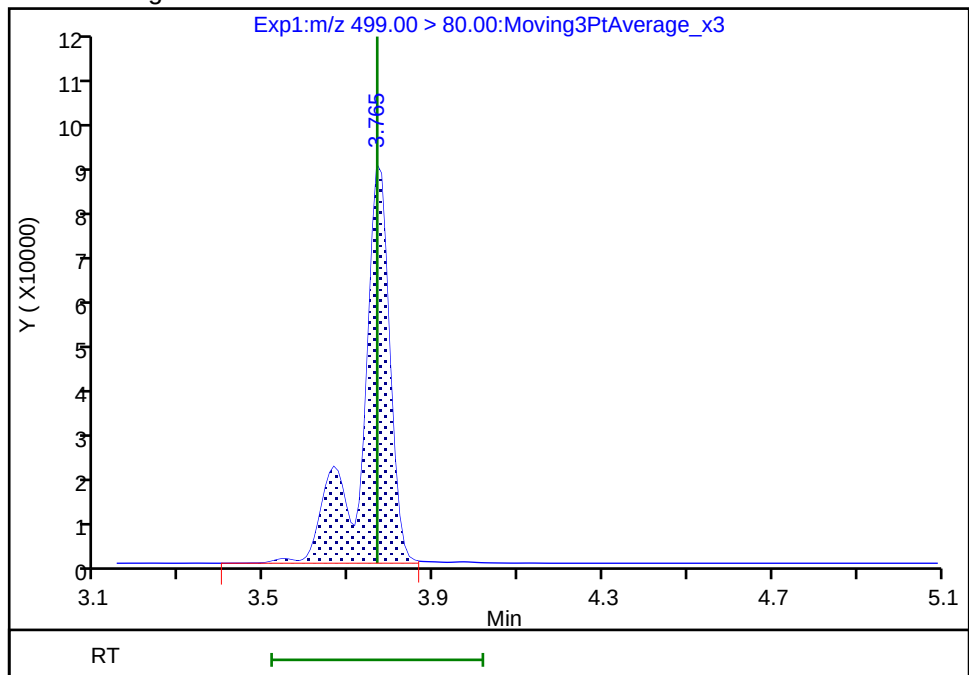
RT: 3.76
Area: 409294
Amount: 0.912017
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 406148
Amount: 0.905007
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 09:55:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B03.d

Injection Date: 24-Sep-2020 16:30:16

Instrument ID: LC812

Lims ID: LCS 200-159139/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#:

3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor:

1.0000

Method: PFC_LC812

Limit Group:

LC_PFC_ICAL

Column: C-18 (4.60 mm)

Detector

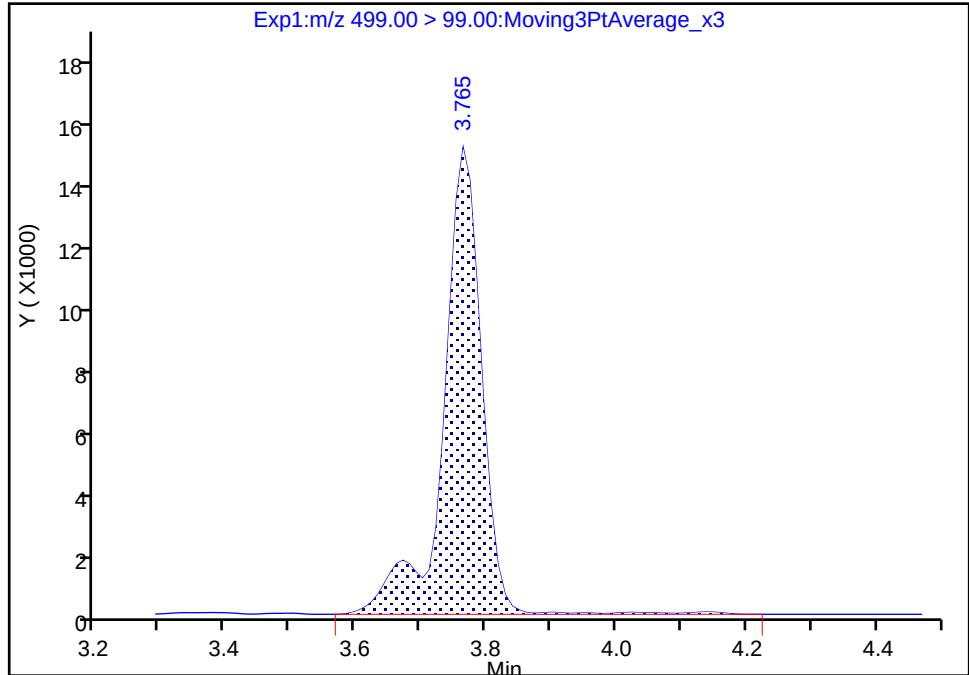
EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

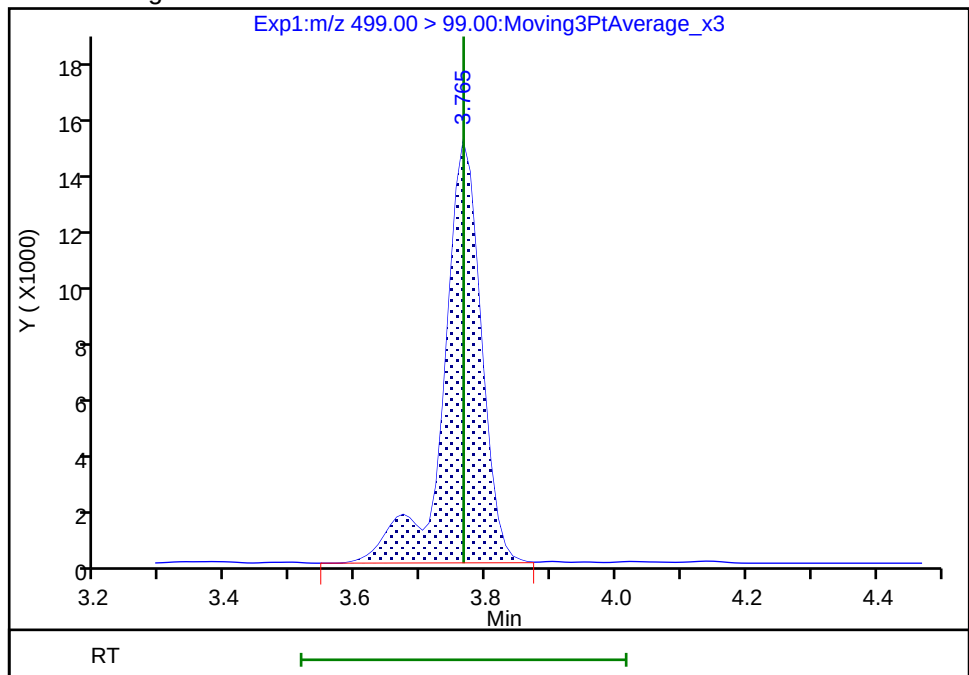
RT: 3.76
Area: 59777
Amount: 0.912017
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 58812
Amount: 0.905007
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 09:55:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: <u>Eurofins TestAmerica, Burlington</u>	Job No.: <u>480-175175-1</u>
SDG No.: _____	
Client Sample ID: <u>CC-MW-1 MS</u>	Lab Sample ID: <u>480-175175-1 MS</u>
Matrix: <u>Water</u>	Lab File ID: <u>PA200924B11.d</u>
Analysis Method: <u>537 (modified)</u>	Date Collected: <u>09/14/2020 14:35</u>
Extraction Method: <u>3535</u>	Date Extracted: <u>09/24/2020 07:00</u>
Sample wt/vol: <u>283.4 (mL)</u>	Date Analyzed: <u>09/24/2020 17:36</u>
Con. Extract Vol.: <u>10 (mL)</u>	Dilution Factor: <u>1</u>
Injection Volume: <u>20 (uL)</u>	GC Column: <u>C-18</u> ID: <u>4.6 (mm)</u>
% Moisture: _____	GPC Cleanup: (Y/N) <u>N</u>
Analysis Batch No.: <u>159169</u>	Units: <u>ng/L</u>

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	32.1		4.4	1.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	32.5		1.8	0.95
307-24-4	Perfluorohexanoic acid (PFHxA)	34.2		1.8	0.73
375-85-9	Perfluoroheptanoic acid (PFHpA)	34.9		1.8	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	33.8		1.8	0.86
375-95-1	Perfluorononanoic acid (PFNA)	32.6		1.8	0.51
335-76-2	Perfluorodecanoic acid (PFDA)	34.0		1.8	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	35.6		1.8	0.64
307-55-1	Perfluorododecanoic acid (PFDoA)	34.9		1.8	0.41
72629-94-8	Perfluorotridecanoic acid (PFTriA)	38.2		1.8	0.38
376-06-7	Perfluorotetradecanoic acid (PFTeA)	38.1		1.8	0.52
375-73-5	Perfluorobutanesulfonic acid (PFBS)	32.3		1.8	0.56
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	29.4		1.8	0.59
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	36.6		1.8	0.34
335-77-3	Perfluorodecanesulfonic acid (PFDS)	29.8		1.8	0.42
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	33.8		1.8	0.77
754-91-6	Perfluorooctanesulfonamide (FOSA)	34.4		1.8	0.50
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	34.6		4.4	0.70
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	30.5		4.4	0.82
27619-97-2	6:2 FTS	35.6		4.4	0.64
39108-34-4	8:2 FTS	32.0		1.8	0.58

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-1 MS Lab Sample ID: 480-175175-1 MS
 Matrix: Water Lab File ID: PA200924B11.d
 Analysis Method: 537 (modified) Date Collected: 09/14/2020 14:35
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 283.4 (mL) Date Analyzed: 09/24/2020 17:36
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	77		25-150
STL00992	13C4 PFBA	93		25-150
STL01893	13C5 PFPeA	99		25-150
STL00993	13C2 PFHxA	102		50-150
STL01892	13C4 PFHpA	99		50-150
STL00990	13C4 PFOA	97		50-150
STL00995	13C5 PFNA	95		50-150
STL00996	13C2 PFDA	83		50-150
STL00997	13C2 PFUnA	73		50-150
STL00998	13C2 PFDoA	68		50-150
STL02116	13C2 PFTeDA	69		50-150
STL02337	13C3 PFBS	90		50-150
STL00994	18O2 PFHxS	97		50-150
STL00991	13C4 PFOS	85		50-150
STL02118	d3-NMeFOSAA	75		50-150
STL02117	d5-NEtFOSAA	76		50-150
STL02279	M2-6:2 FTS	90		25-150
STL02280	M2-8:2 FTS	89		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
 Lims ID: 480-175175-C-1-B MS
 Client ID: CC-MW-1
 Sample Type: MS
 Inject. Date: 24-Sep-2020 17:36:40 ALS Bottle#: 11 Worklist Smp#: 11
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-175175-C-1-B MS
 Misc. Info.: 200-0042936-011 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 08:52:17

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.981	1.981	0.0	0.576	1002348	1.17		93.3	5838	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.005	682836	0.9110		91.1	93.3	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.676	759000	1.23		98.5	3133	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	590443	0.9208		92.1	29.2	M
D 47 13C3 PFBS										M
301.90 > 80.00	2.339	2.339	0.0	0.680	783612	1.04		89.8	114553	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.339	2.339	0.0	1.000	614447	0.9148	Target=2.07	103	615	
298.90 > 99.00	2.339	2.339	0.0	1.000	318584		1.93(1.04-3.11)		394	
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.653	2.653	0.0	1.000	84759	0.9023		96.6	1186	
D 60 M2-4:2 FTS										M
329.00 > 81.00	2.653	2.653	0.0	0.771	67862	1.20		103	121	M
D 7 13C2 PFHxA										
315.00 > 270.00	2.691	2.691	0.0	0.782	812110	1.28		102	4280	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.691	2.691	0.0	1.000	634633	0.9701	Target=12.44	97.0	219	
313.00 > 119.00	2.691	2.691	0.0	1.000	52276		12.14(6.22-18.66)		176	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.703	2.703	0.0	0.880	565077	0.9153	Target=3.64	97.6	898	
349.00 > 99.00	2.703	2.703	0.0	0.880	166998		3.38(1.82-5.46)		405	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.802	2.810	-0.008	0.814	70562	1.19		95.5	983	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.802	2.810	-0.008	1.000	102835	0.8561		85.6	24.9	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.893	616575	1.15		96.8	2885	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	480539	0.8345	Target=4.60	91.7	862	M
399.00 > 99.00	3.073	3.073	0.0	1.000	106962		4.49(2.30-6.91)		216	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.073	3.073	0.0	0.893	712887	1.24		98.8	2846	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.073	3.084	-0.011	1.000	565199	0.9890	Target=3.34	98.9	250	
363.00 > 169.00	3.073	3.084	-0.011	1.000	161192		3.51(1.67-5.01)		601	
77 DONA										
377.00 > 251.00	3.115	3.115	0.0	0.830	1172669	1.02	Target=2.44	108	2533	
377.00 > 85.00	3.115	3.115	0.0	0.830	492522		2.38(1.22-3.67)		1076	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.433	3.433	0.0	0.914	448835	1.04	Target=7.08	109	1723	
449.00 > 99.00	3.433	3.433	0.0	0.914	64240		6.99(3.54-10.63)		565	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.433	3.433	0.0	1.000	51990	1.01		106	1641	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.433	3.441	-0.008	0.997	76752	1.07		89.8	547	
D 14 13C4 PFOA										
417.00 > 372.00	3.441	3.441	0.0	1.000	713154	1.21		96.6	3826	
* 62 13C2 PFOA										
415.00 > 370.00	3.441	3.441	0.0		749959	1.25			2695	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.441	3.450	-0.009	1.000	564836	0.9589	Target=2.29	95.9	227	
413.00 > 169.00	3.441	3.450	-0.009	1.000	245146		2.30(1.14-3.43)		624	
D 18 13C4 PFOS										
503.00 > 80.00	3.755	3.765	-0.010	1.091	445926	1.01		84.7	2017	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.755	3.765	-0.010	1.000	387922	0.9566	Target=7.10	103	1125	M
499.00 > 99.00	3.755	3.765	-0.010	1.000	57138		6.79(3.55-10.64)		411	M
D 19 13C5 PFNA										
468.00 > 423.00	3.776	3.786	-0.010	1.097	587994	1.18		94.5	3962	
20 Perfluorononanoic acid										
463.00 > 419.00	3.776	3.786	-0.010	1.000	442812	0.9244	Target=5.83	92.4	204	
463.00 > 169.00	3.776	3.786	-0.010	1.000	74619		5.93(2.91-8.74)		1288	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.044	314978	0.8826		94.7	3952	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.052	0.0	1.079	292418	0.9125	Target=3.38	95.0	3350	
549.00 > 99.00	4.052	4.052	0.0	1.079	78499		3.73(1.69-5.08)		465	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.072	4.082	-0.010	1.000	378385	0.9639	Target=6.81	96.4	656	
513.00 > 169.00	4.072	4.082	-0.010	1.000	55967		6.76(3.41-10.22)		1073	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.072	4.082	-0.010	1.183	495944	1.04		83.1	3565	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.082	4.092	-0.010	1.000	26914	0.9060		94.6	754	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.082	4.092	-0.010	1.186	89867	1.06		88.5	975	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.203	744098	0.9674		77.4	2725	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.139	0.0	1.000	542681	0.9752		97.5	1022	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.224	-0.010	1.224	25520	0.9391		75.1	166	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.224	4.224	0.0	1.002	18887	0.9803		98.0	250	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.309	4.321	-0.012	1.148	226315	0.8440	Target=3.31	87.6	1887	
599.00 > 99.00	4.309	4.321	-0.012	1.148	73411		3.08(1.66-4.97)		732	
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.262	329662	0.9149		73.2	3446	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.343	0.0	1.000	262358	1.01	Target=6.57	101	354	
563.00 > 169.00	4.343	4.343	0.0	1.000	42281		6.21(3.28-9.85)		978	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.343	4.355	-0.012	1.262	27917	0.9556		76.4	515	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.366	-0.011	1.003	17655	0.8635		86.3	374	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.181	232994	0.7569		80.3	1342	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.329	325923	0.8558		68.5	4518	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	251521	0.9892	Target=5.16	98.9	406	M
613.00 > 169.00	4.573	4.573	0.0	1.000	52772		4.77(2.58-7.75)		1747	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.585	4.597	-0.012	1.123	11810	0.7155		74.2	451	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.736	4.745	-0.009	1.261	65136	0.7570	Target=0.45	78.2	308	
699.00 > 99.00	4.745	4.745	0.0	1.264	143366		0.45(0.22-0.67)		2281	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.772	4.790	-0.018	1.044	233581	1.08	Target=3.30	108	173	
663.00 > 169.00	4.781	4.790	-0.009	1.045	64847		3.60(1.65-4.95)		1445	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.969	4.978	-0.009	1.444	233097	0.8593		68.7	3772	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.969	4.978	-0.009	1.000	46159	1.08	Target=1.06	108	1480	
713.00 > 219.00	4.969	4.978	-0.009	1.000	47088		0.98(0.53-1.59)		1249	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.340	5.350	-0.010	1.552	315237	1.03		82.0	3478	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.340	5.350	-0.010	1.000	235729	1.05	Target=3.06	105	271	
813.00 > 169.00	5.340	5.350	-0.010	1.000	82303		2.86(1.53-4.58)		2180	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.721	5.738	-0.017	1.071	163370	0.8668	Target=2.82	86.7	195	
913.00 > 169.00	5.712	5.738	-0.026	1.070	60204		2.71(1.41-4.24)		1154	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d

Injection Date: 24-Sep-2020 17:36:40

Instrument ID: LC812

Lims ID: 480-175175-C-1-B MS

Client ID: CC-MW-1

Operator ID: lc812tech

ALS Bottle#: 11

Worklist Smp#: 11

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

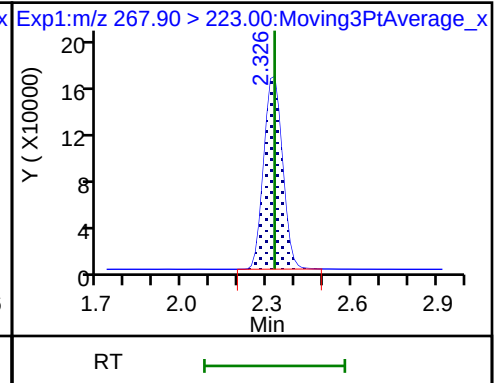
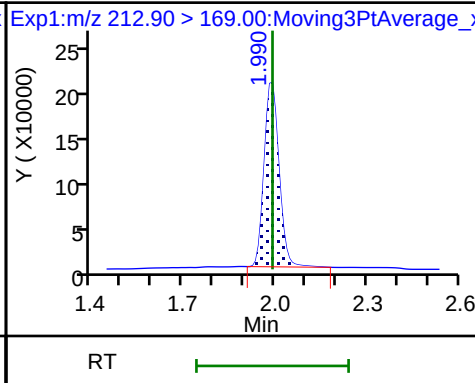
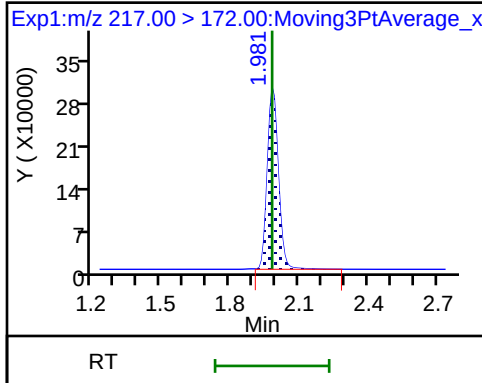
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

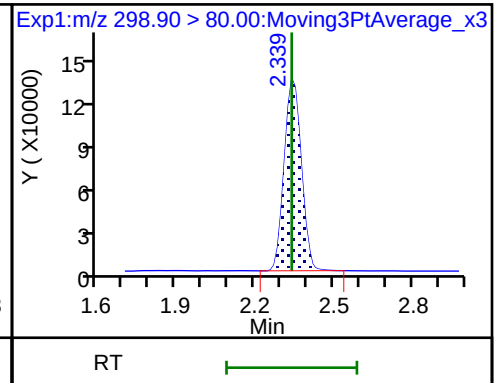
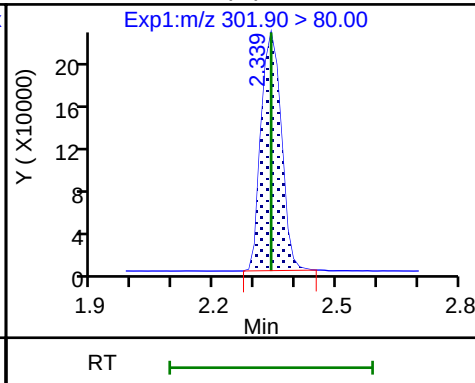
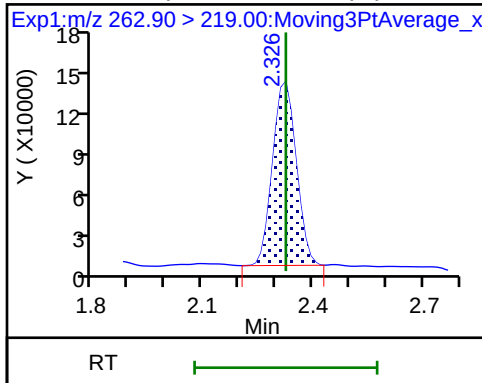
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

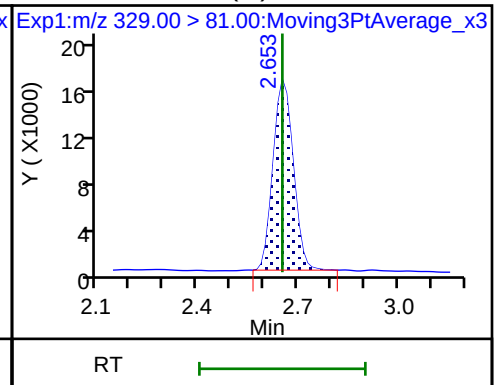
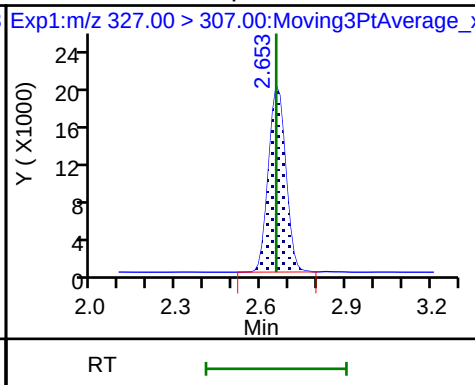
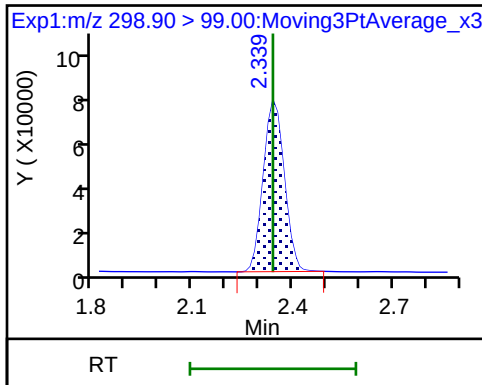
D 47 13C3 PFBS (M)

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

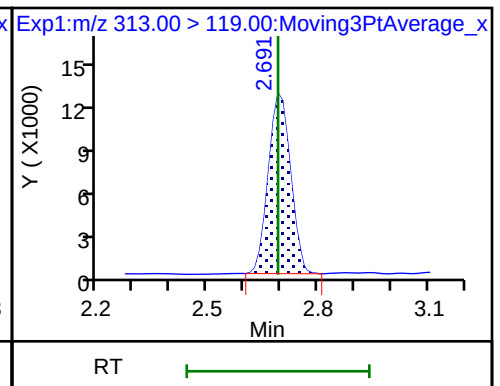
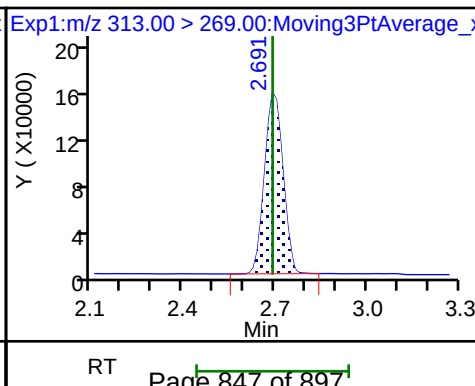
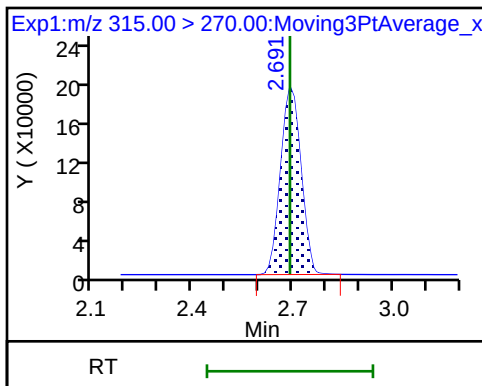
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS (M)

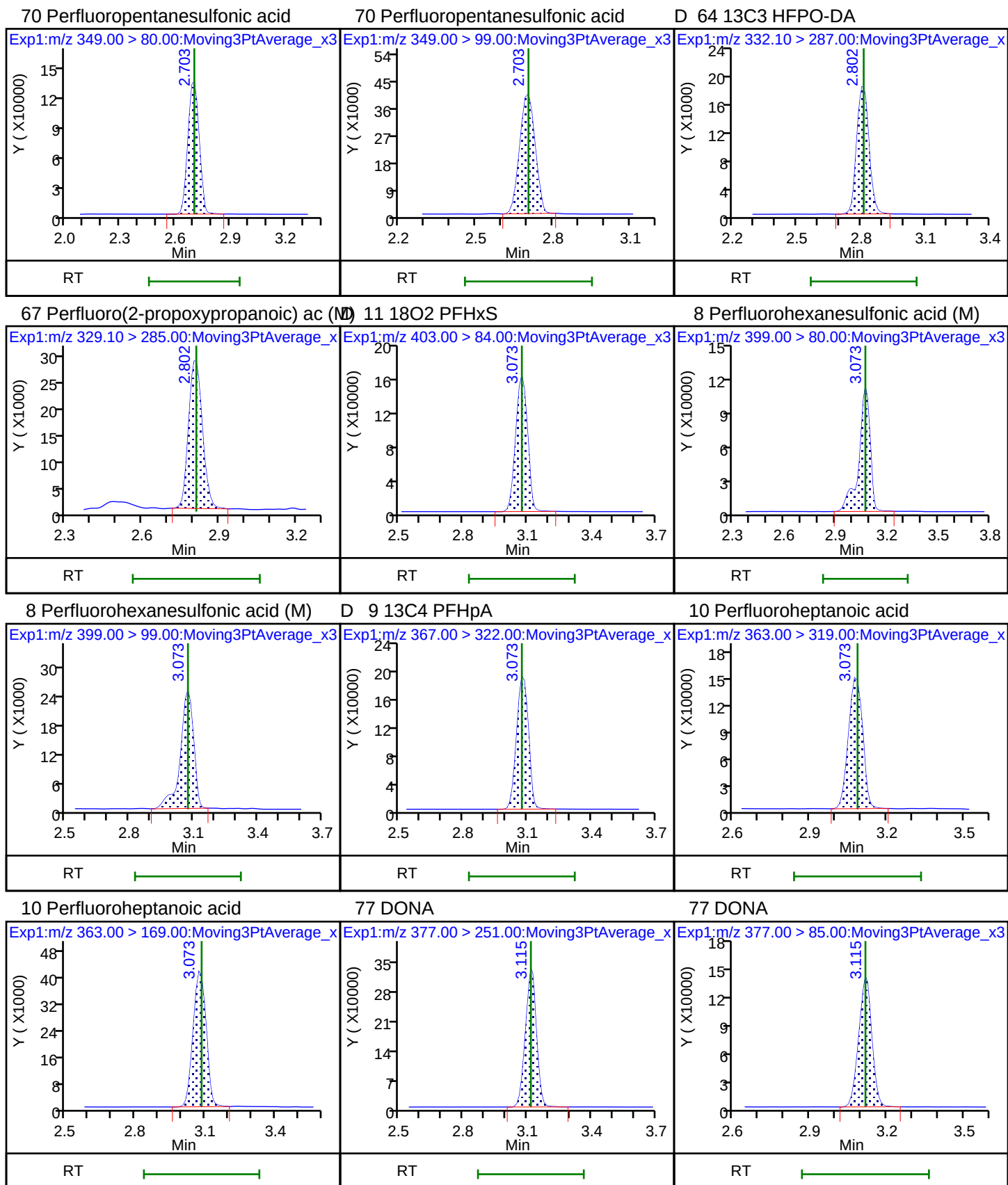


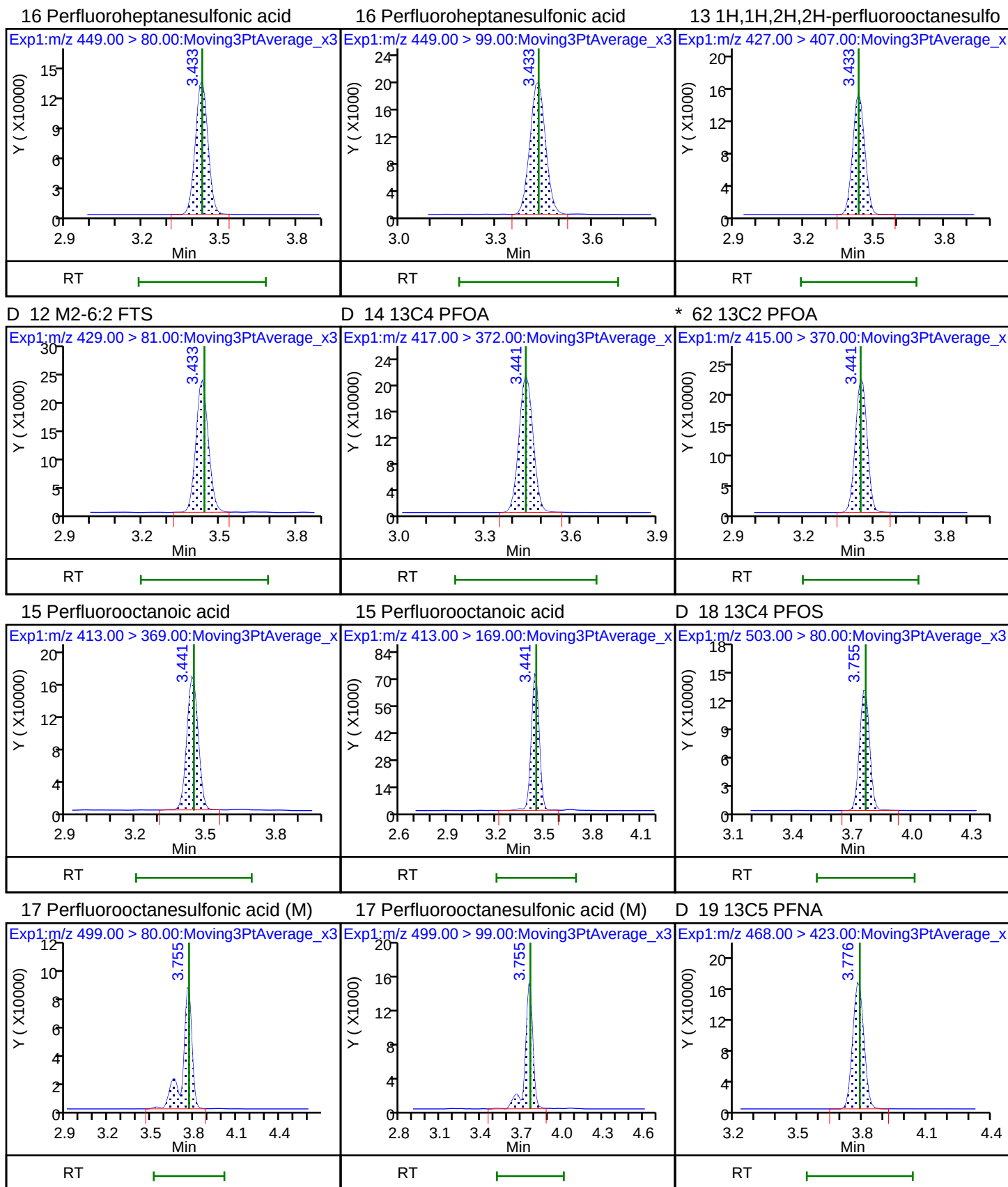
D 7 13C2 PFHxA

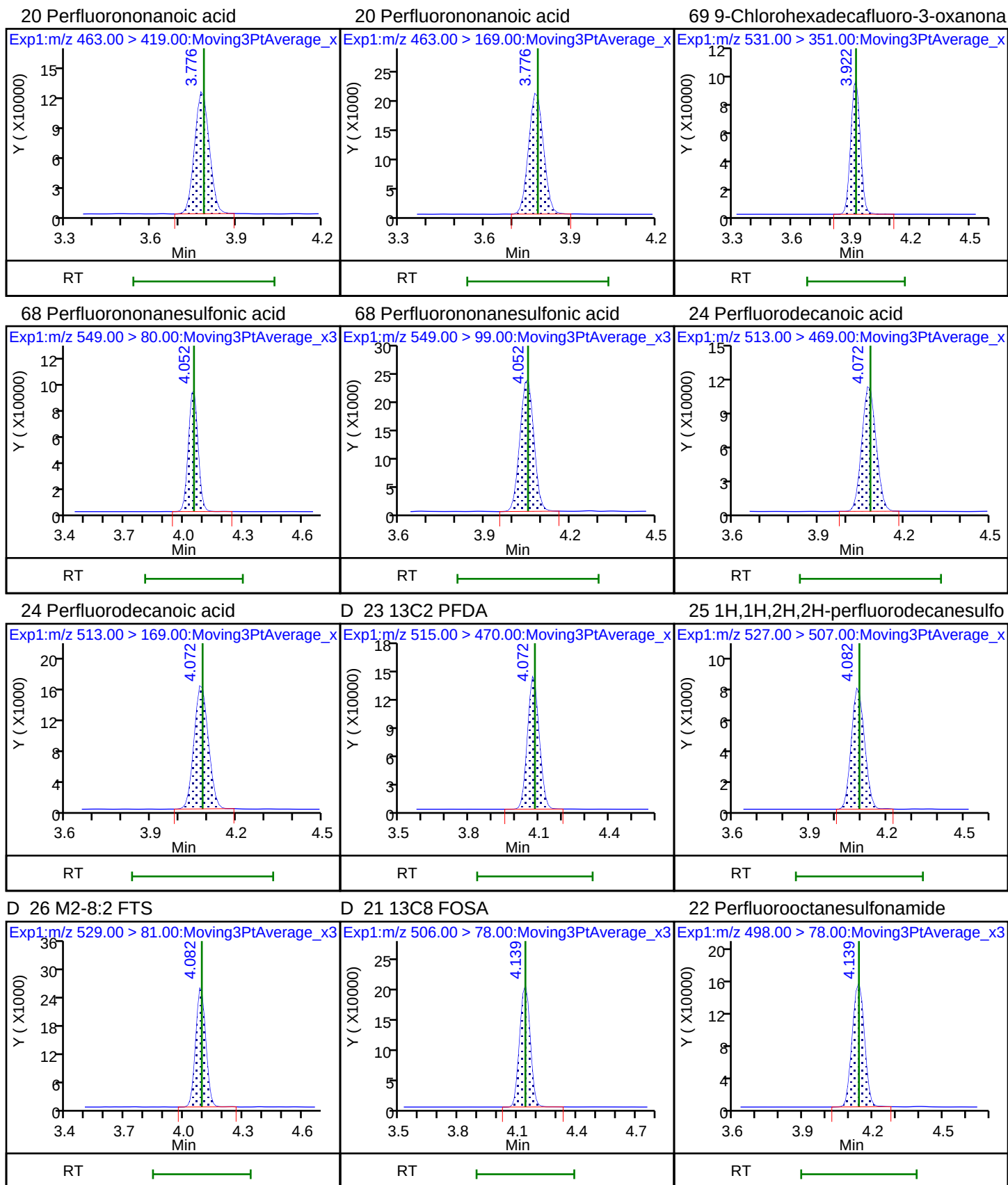
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid



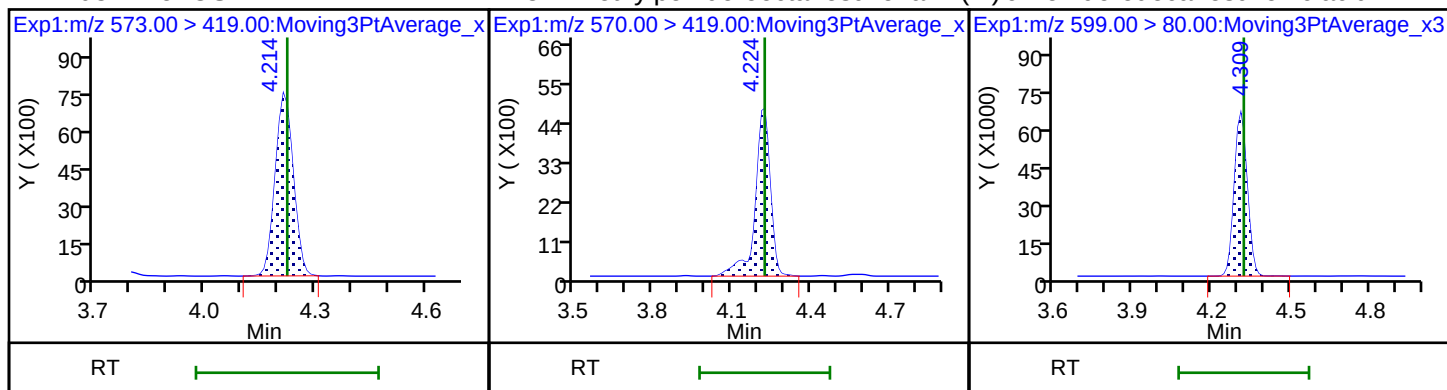






D 27 d3-NMeFOSAA

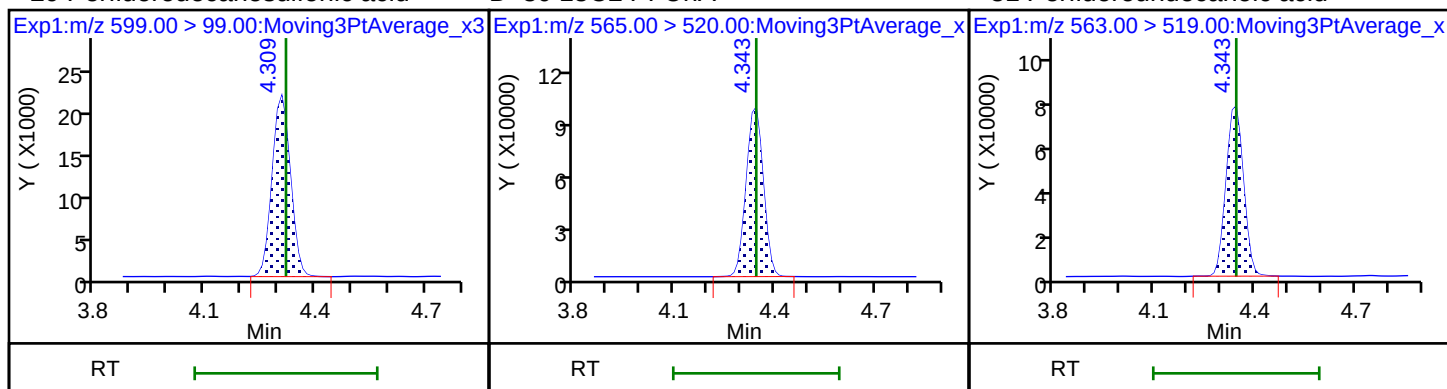
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

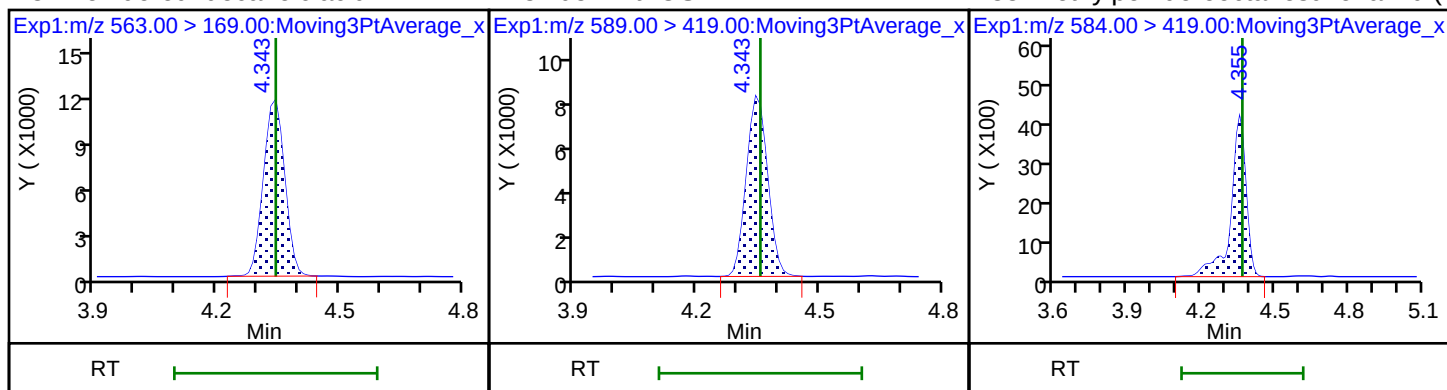
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

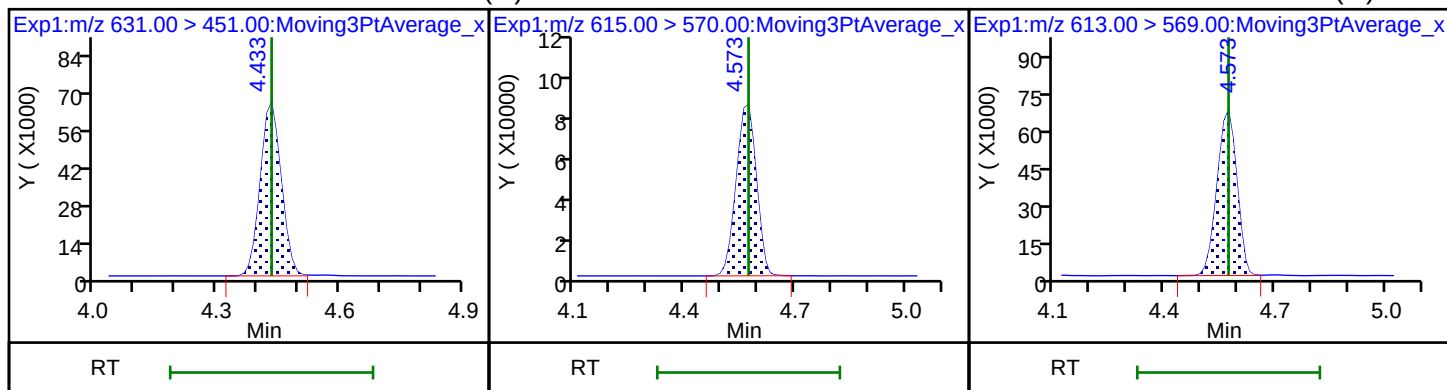
D 32 d5-NEtFOSAA

33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafluoro-3-oxaundec (M) 36 13C2 PFDaA

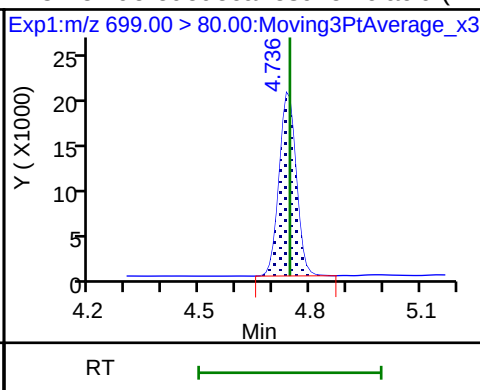
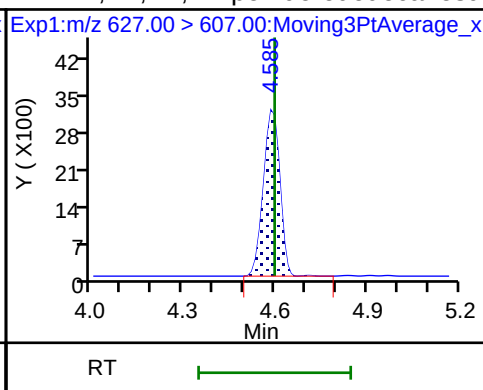
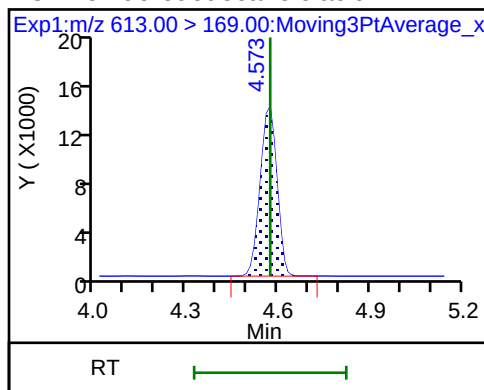
37 Perfluorododecanoic acid (M)



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

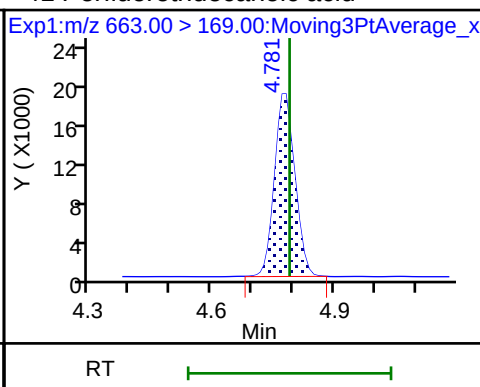
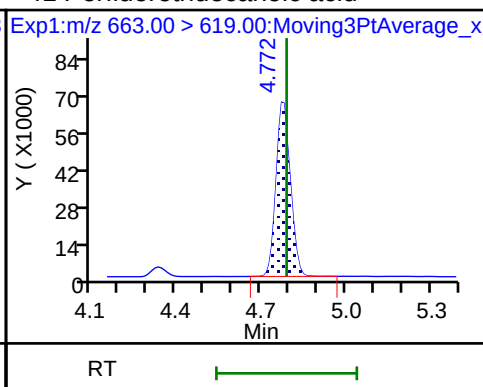
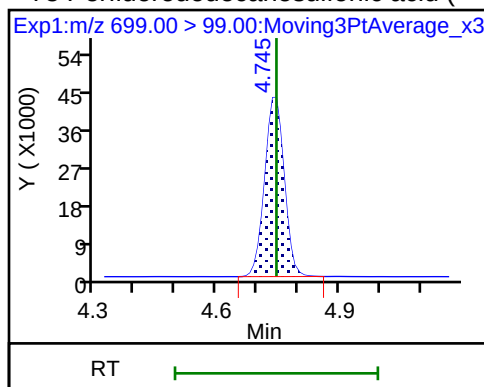
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

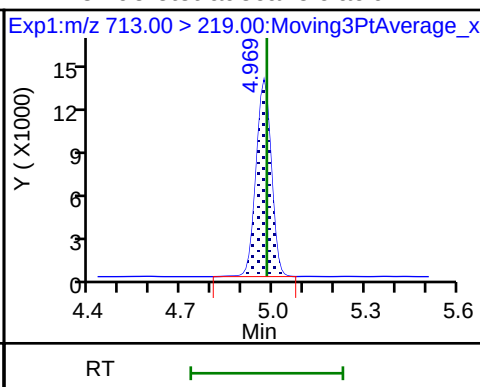
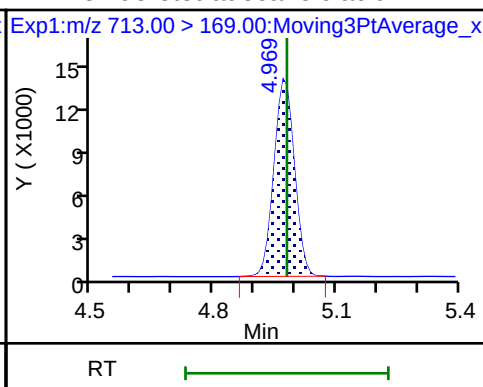
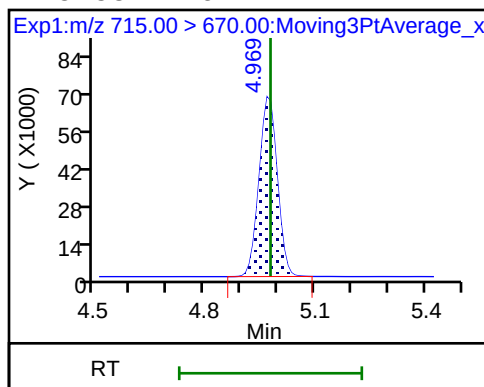
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

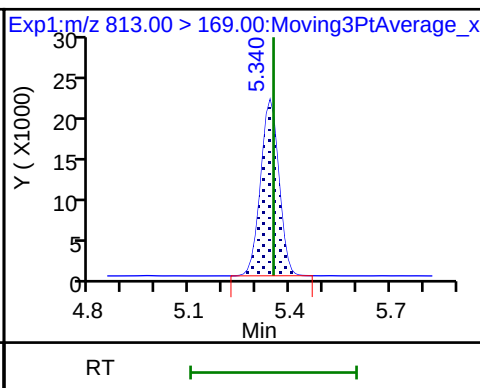
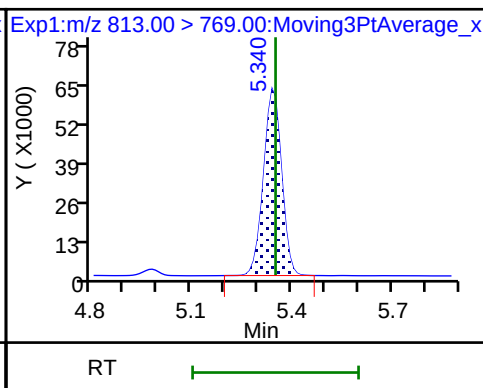
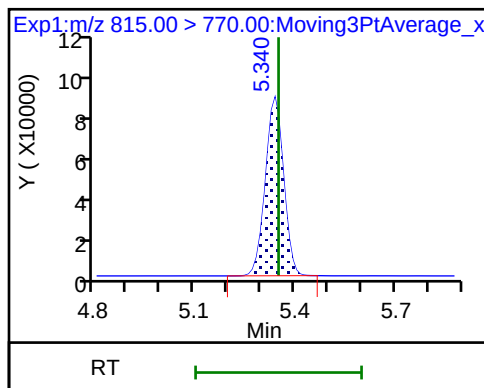
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

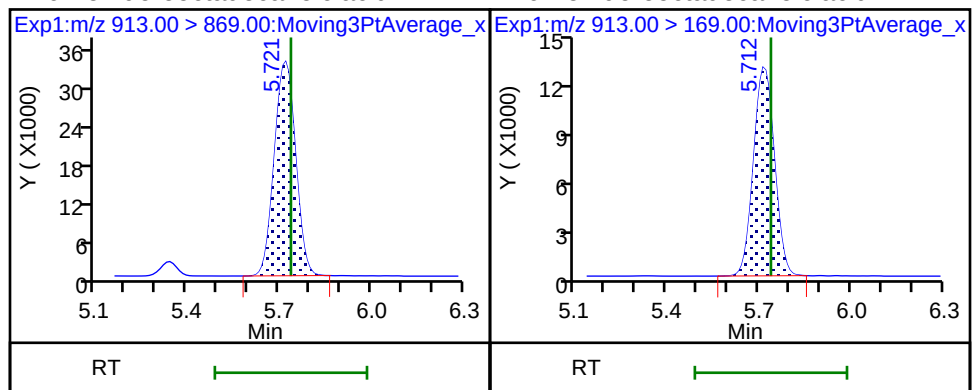
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

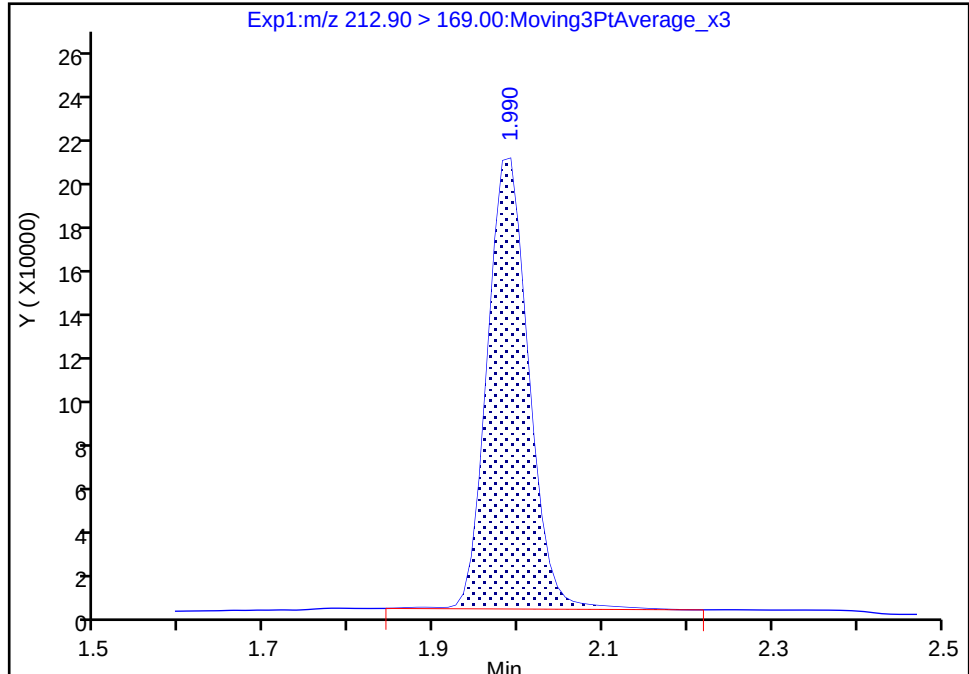
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

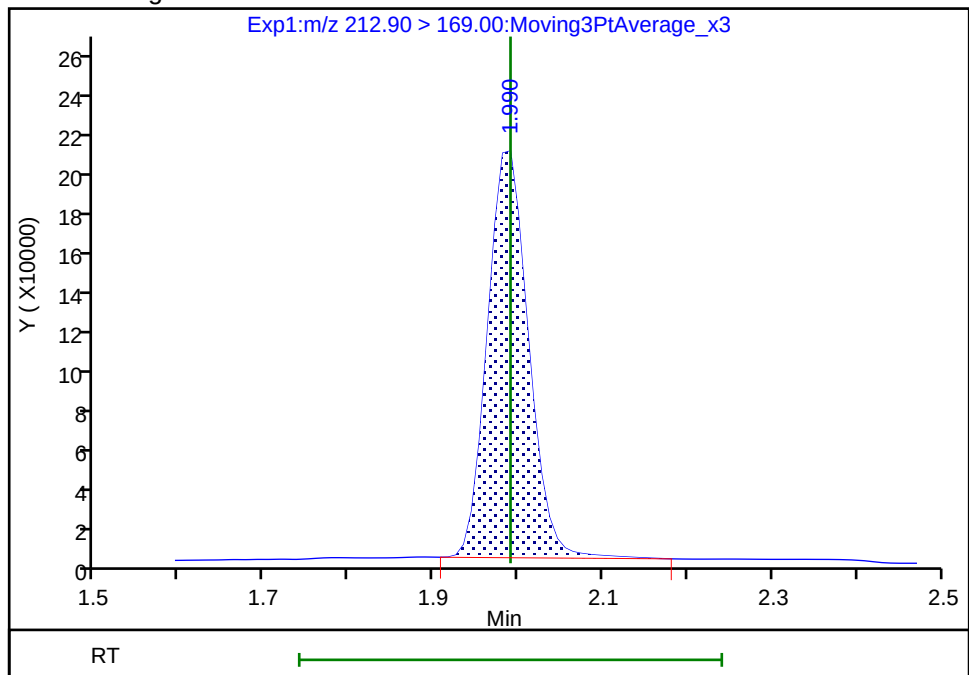
RT: 1.99
Area: 688476
Amount: 0.918521
Amount Units: ng/ml

Processing Integration Results



RT: 1.99
Area: 682836
Amount: 0.910996
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:35:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

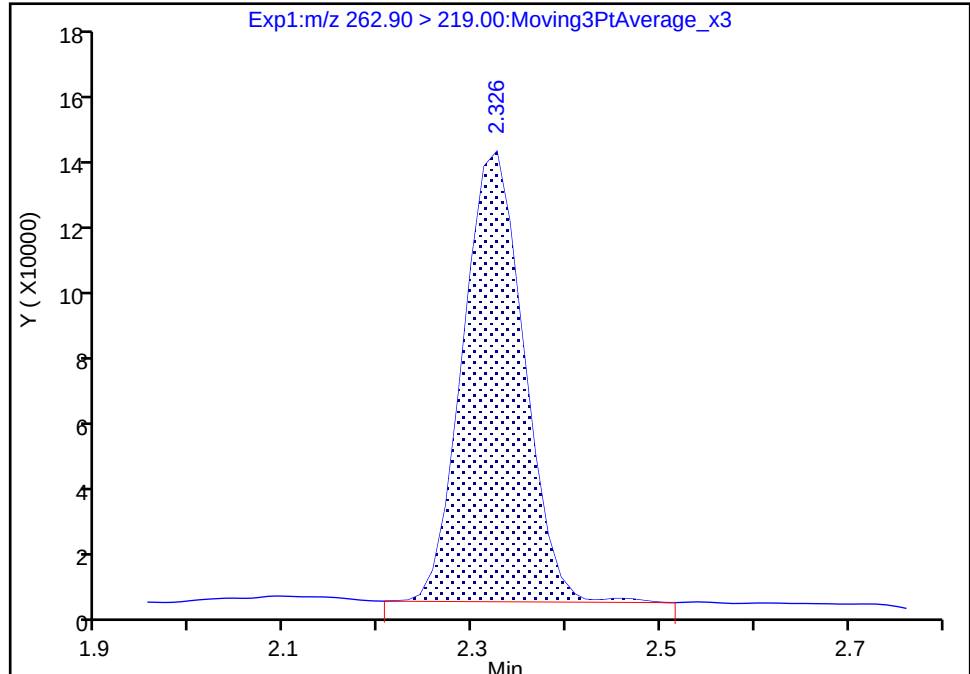
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

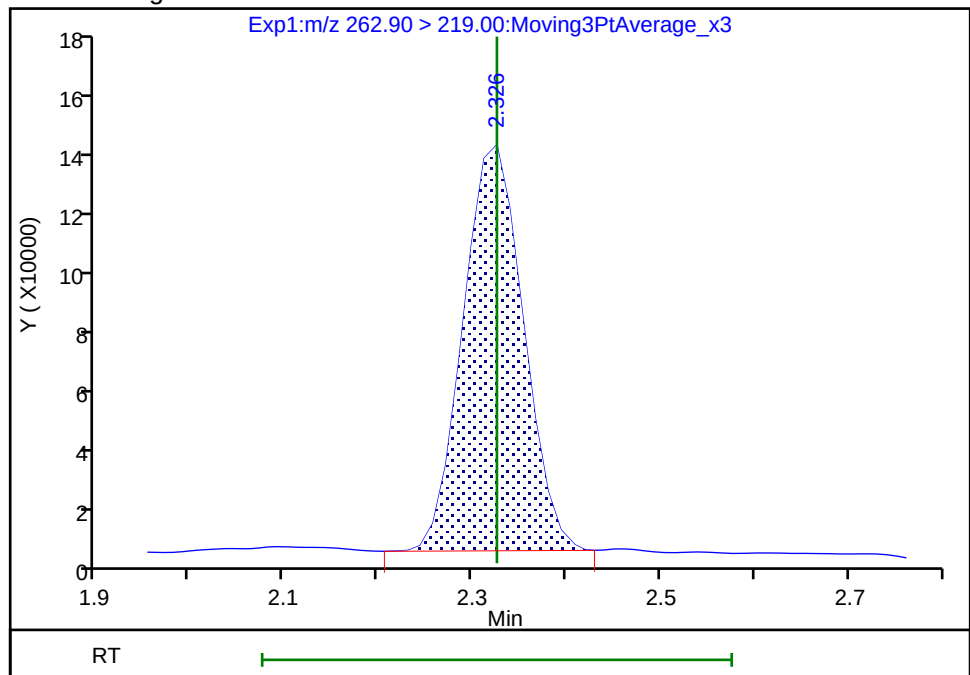
RT: 2.33
Area: 597942
Amount: 0.932459
Amount Units: ng/ml

Processing Integration Results



RT: 2.33
Area: 590443
Amount: 0.920765
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:50:40

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

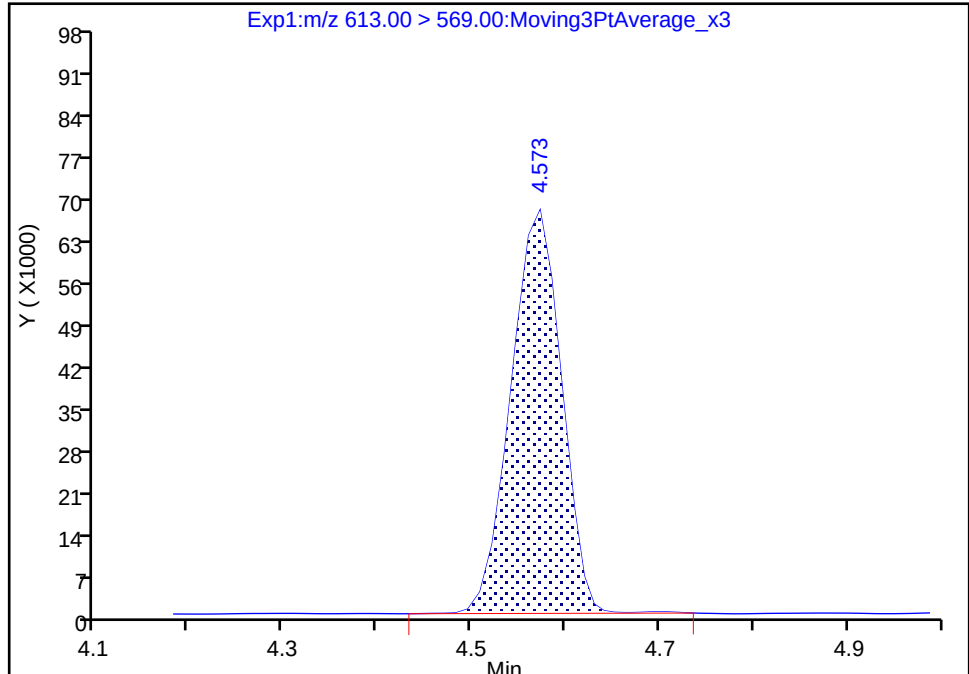
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

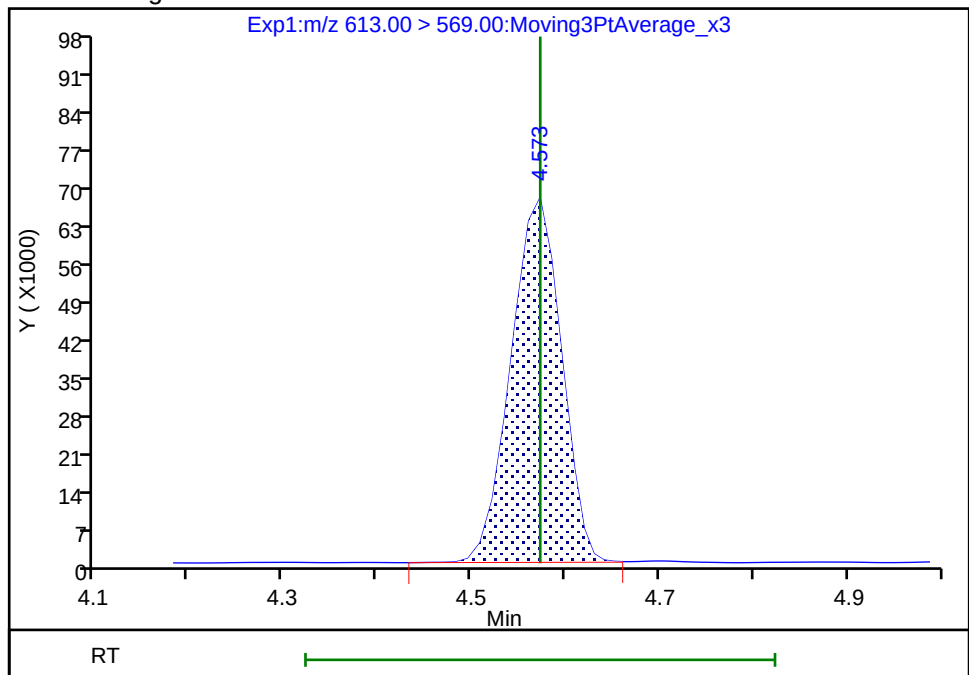
RT: 4.57
Area: 252127
Amount: 0.991573
Amount Units: ng/ml

Processing Integration Results



RT: 4.57
Area: 251521
Amount: 0.989190
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:52:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

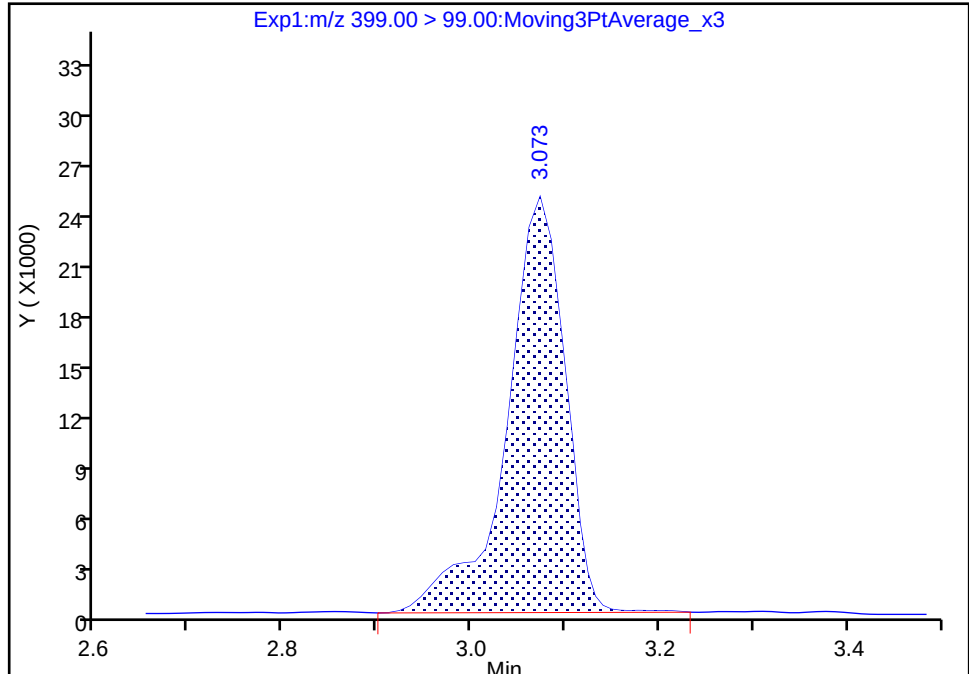
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

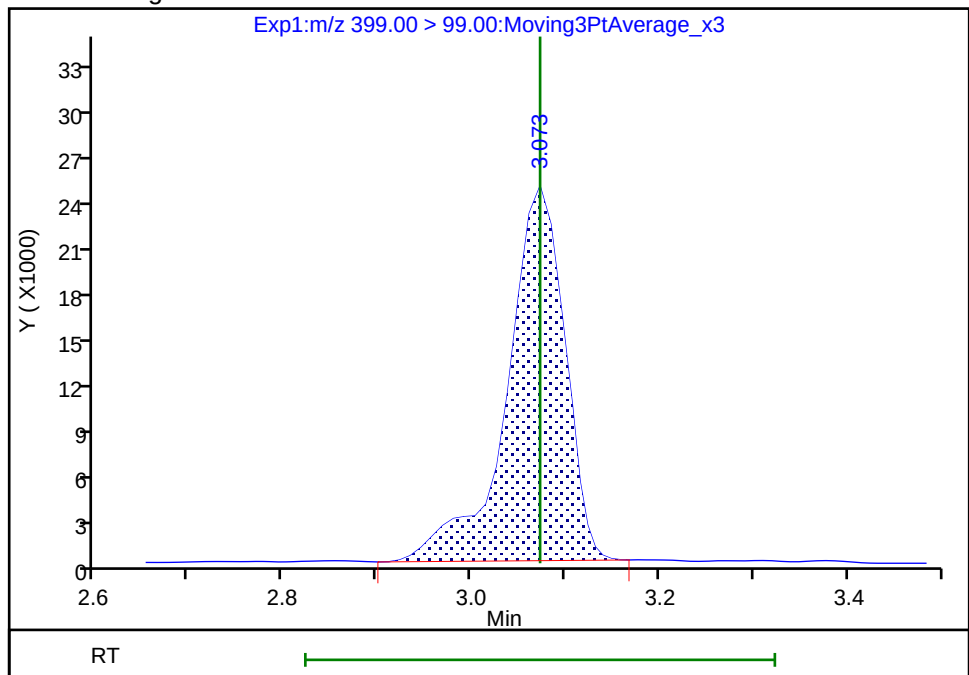
RT: 3.07
Area: 108046
Amount: 0.836134
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 106962
Amount: 0.834477
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:51:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

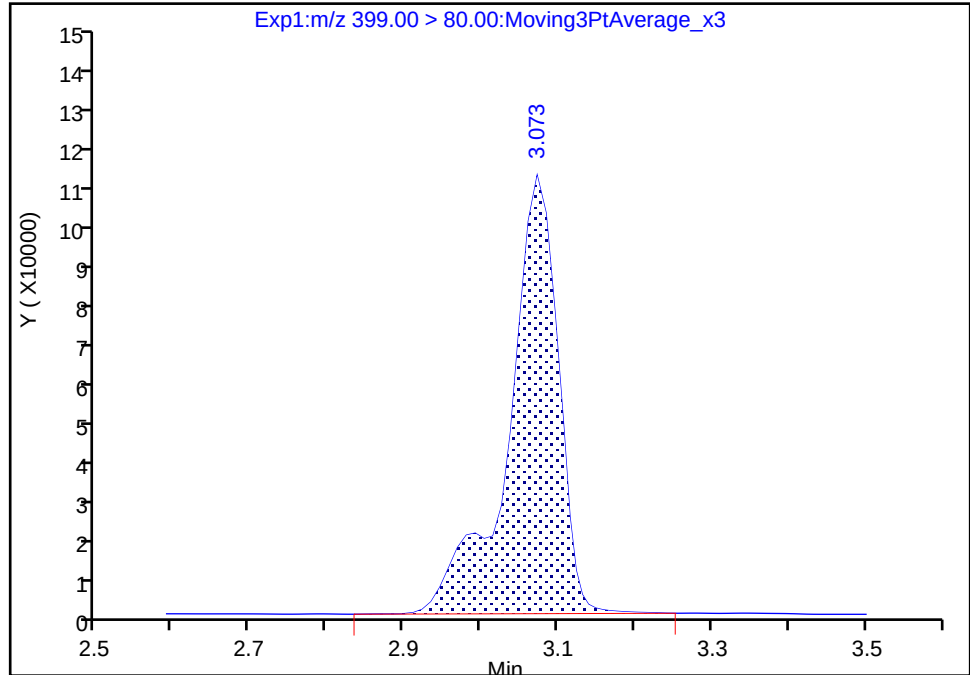
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

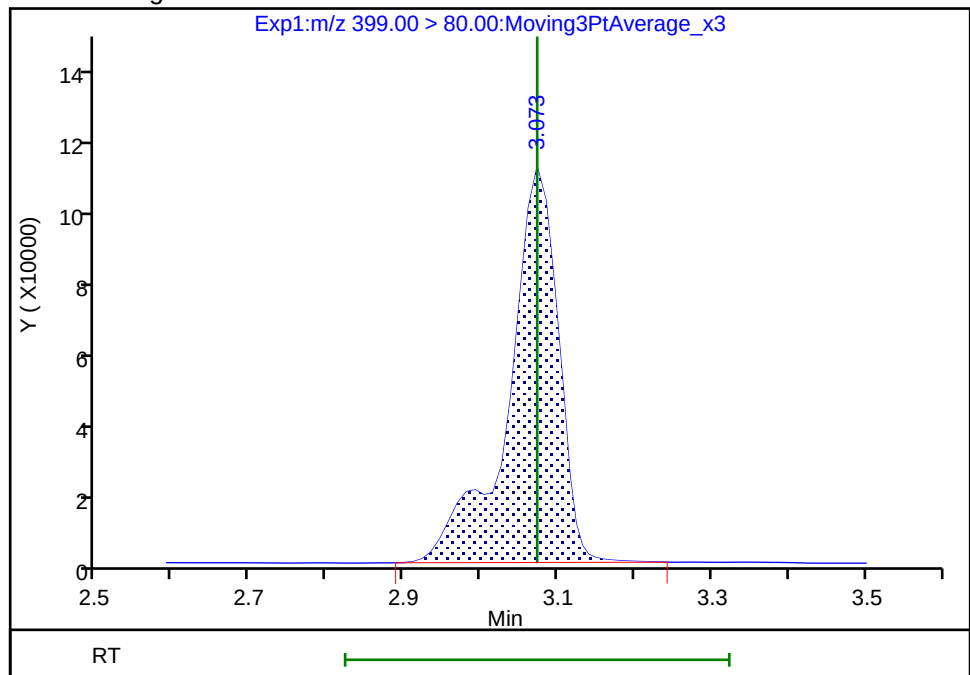
RT: 3.07
Area: 481493
Amount: 0.836134
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 480539
Amount: 0.834477
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:51:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 858 of 897

Eurofins TestAmerica, Burlington

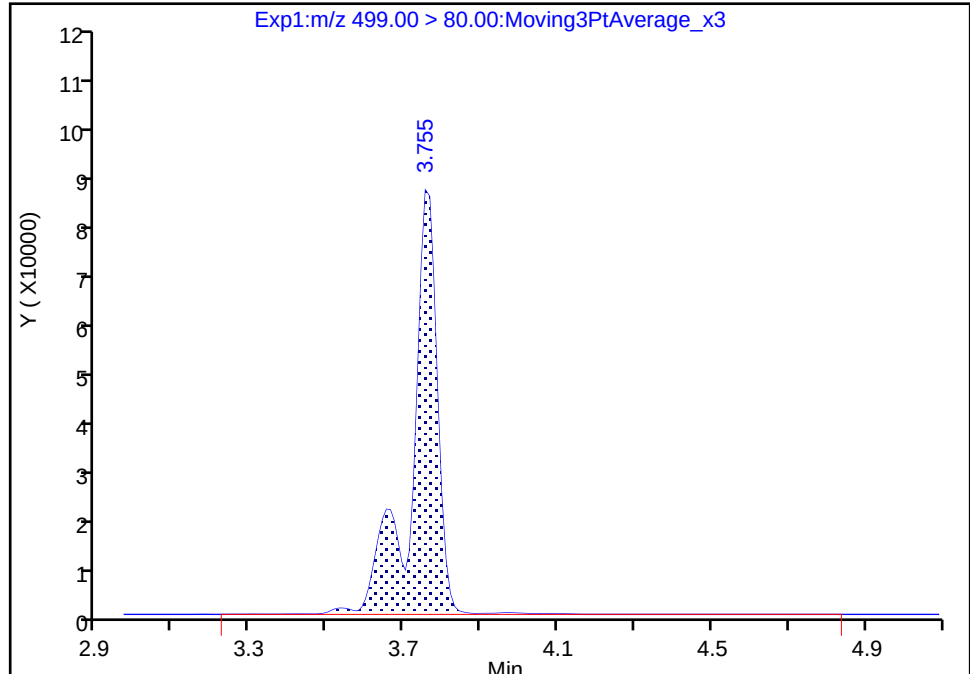
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

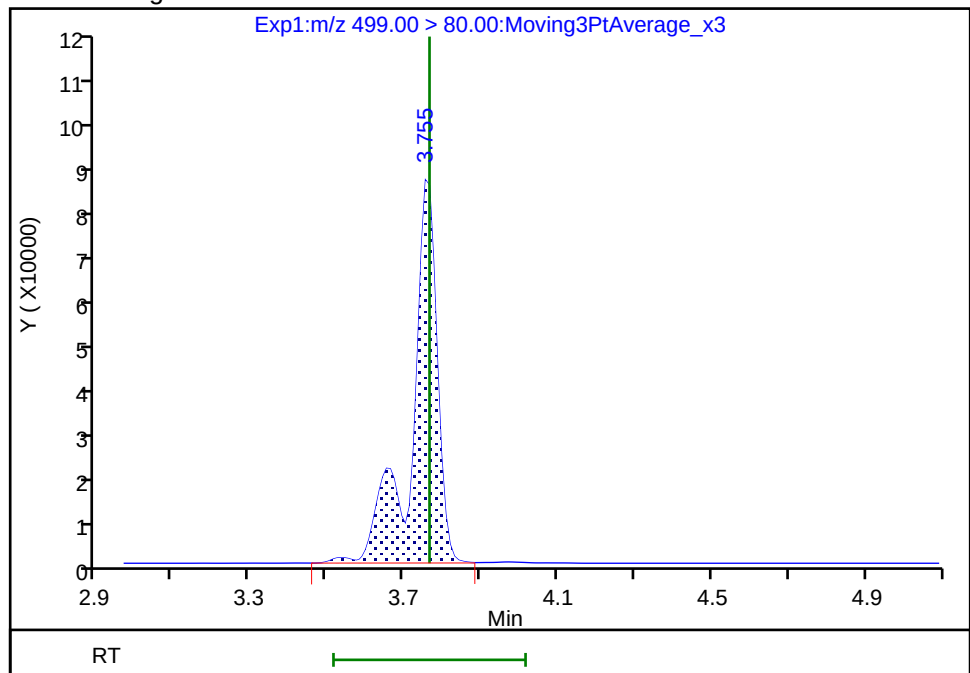
RT: 3.75
Area: 391765
Amount: 0.966106
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 387922
Amount: 0.956629
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:38:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

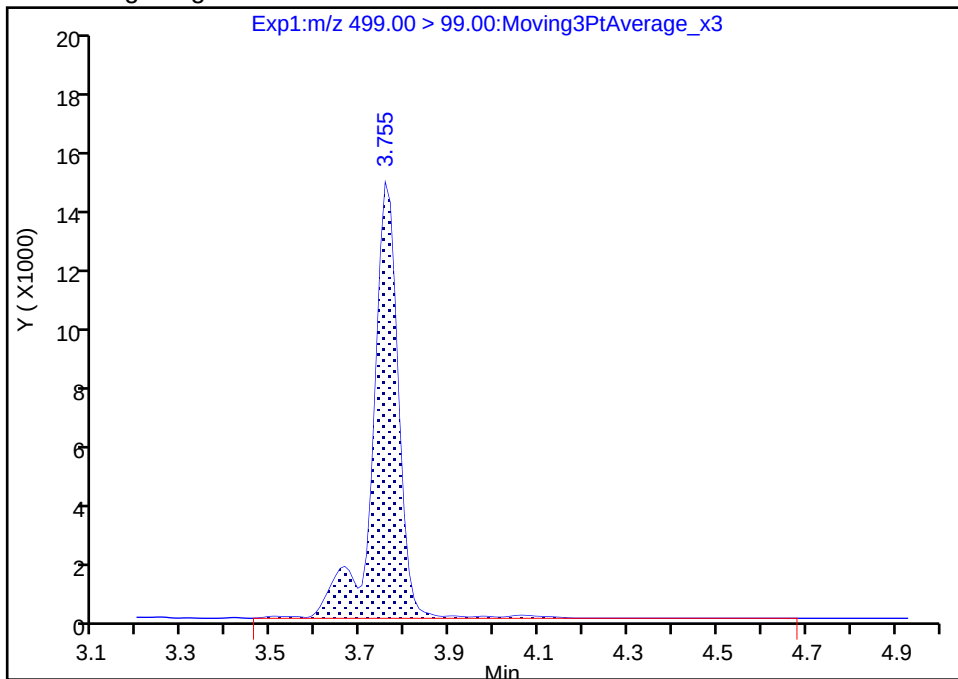
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

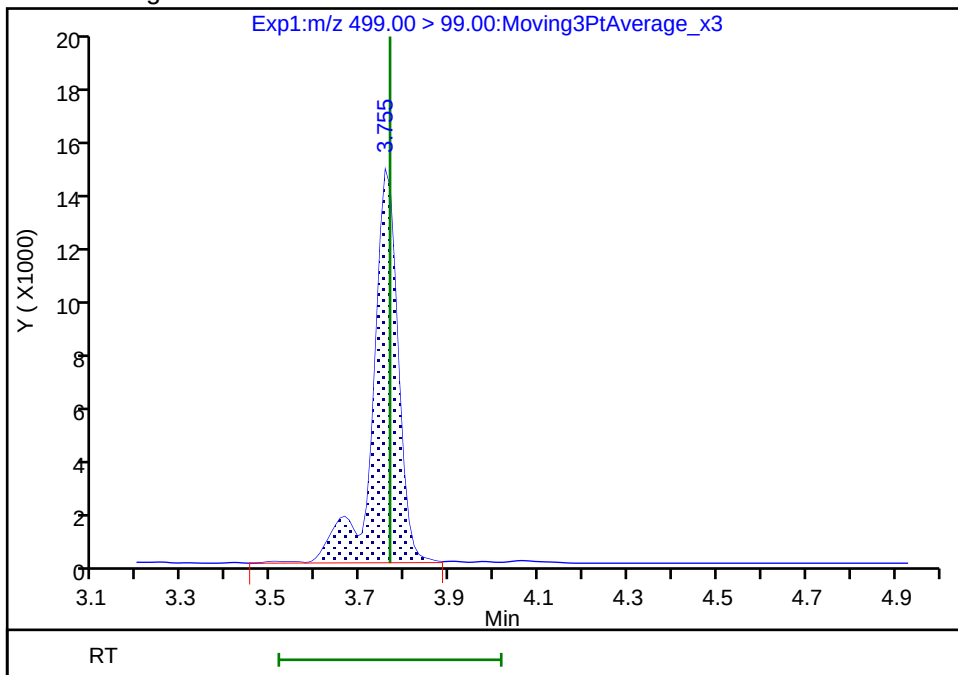
RT: 3.75
Area: 58338
Amount: 0.966106
Amount Units: ng/ml

Processing Integration Results



RT: 3.75
Area: 57138
Amount: 0.956629
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:38:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

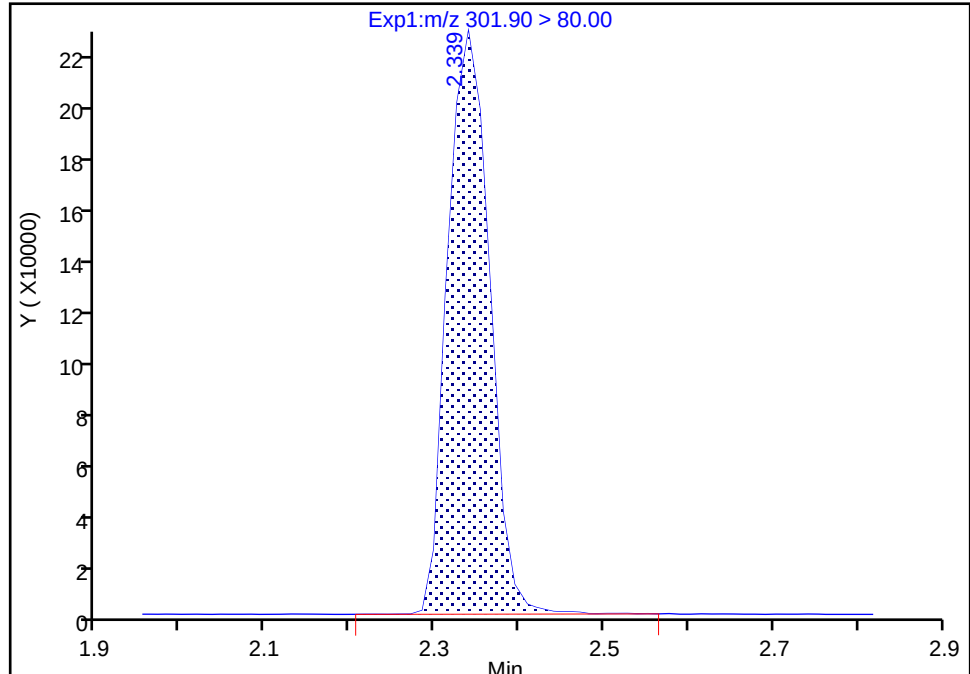
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

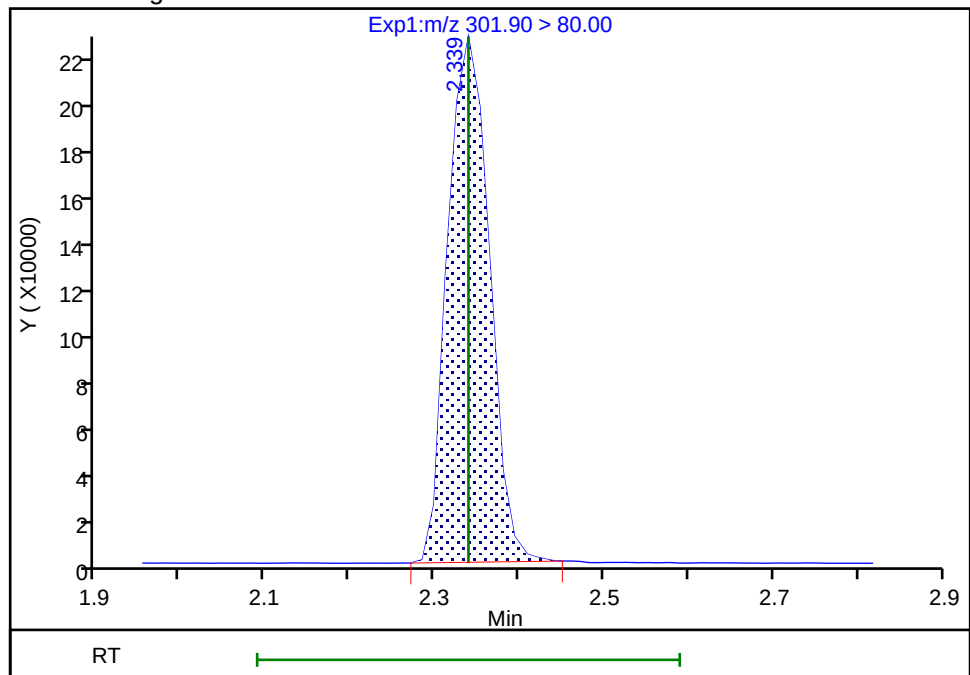
RT: 2.34
Area: 790363
Amount: 1.053285
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 783612
Amount: 1.044288
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:50:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

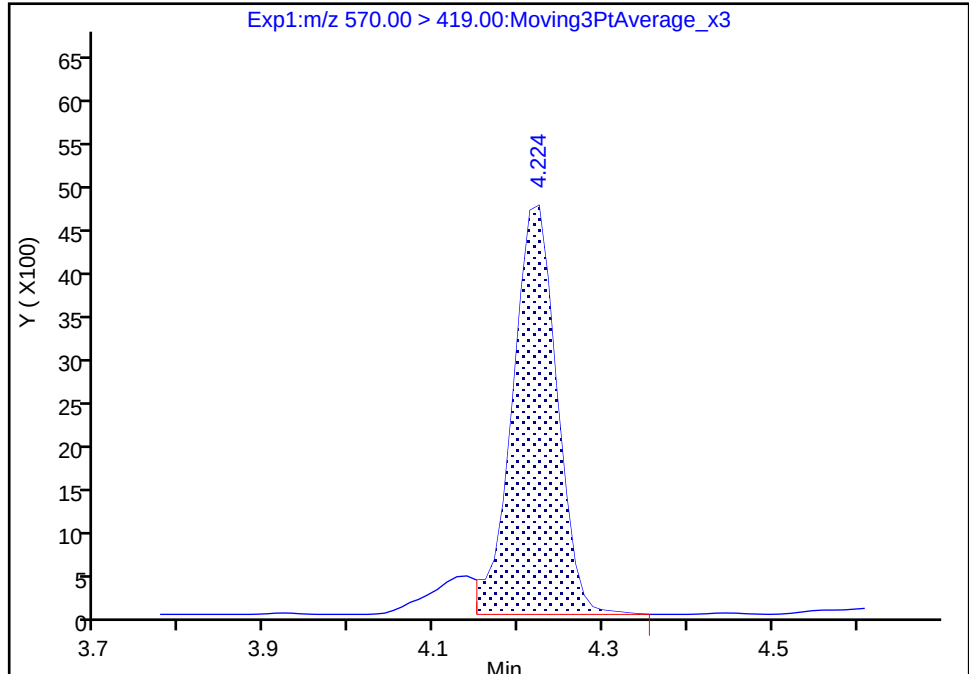
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

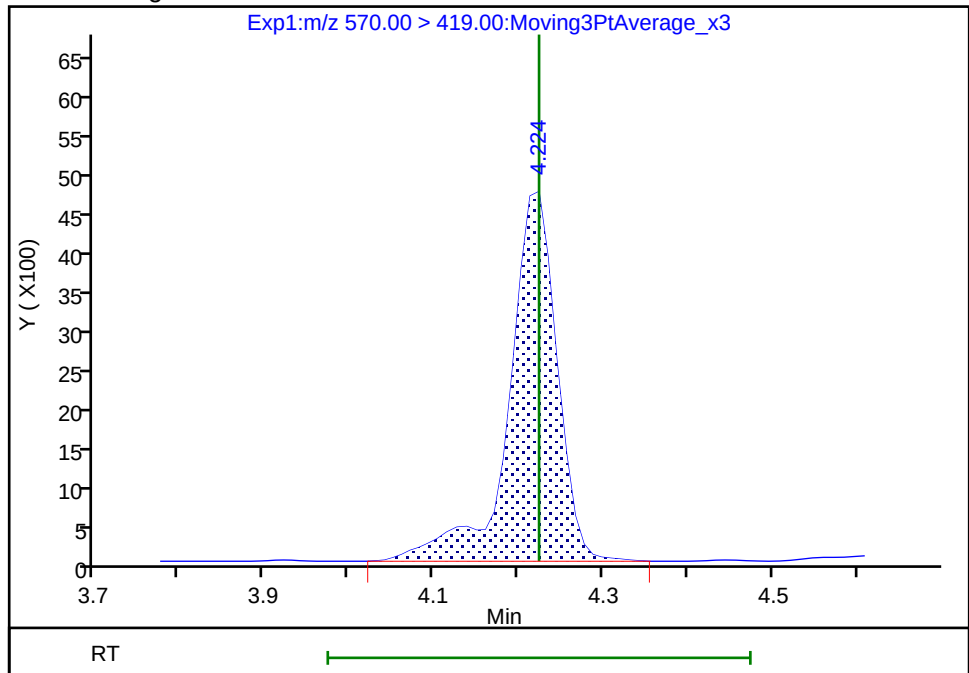
RT: 4.22
Area: 17236
Amount: 0.894589
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 18887
Amount: 0.980280
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:51:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

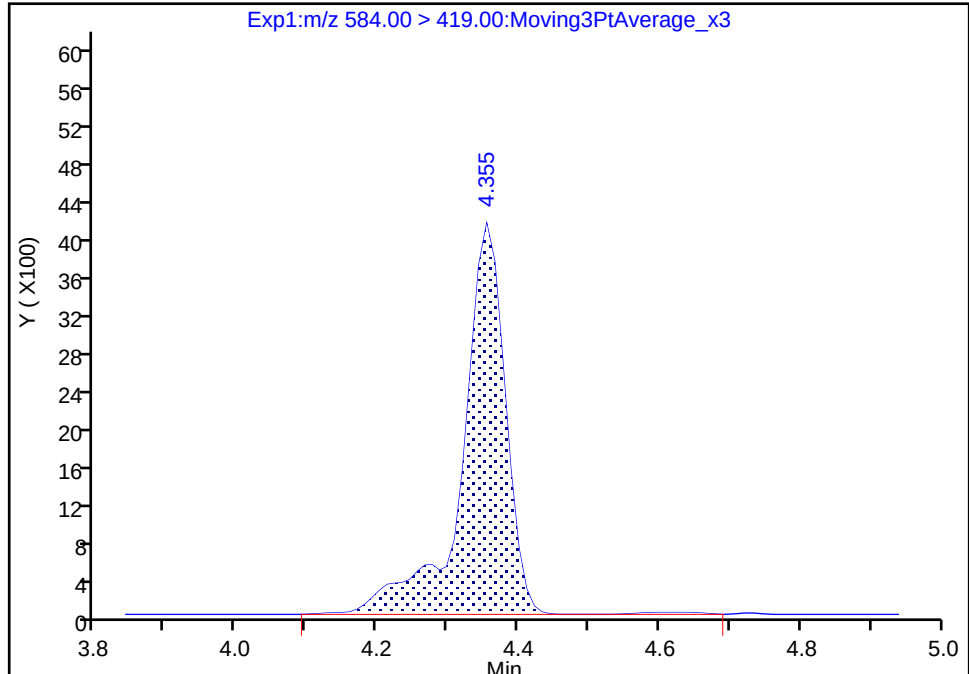
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B11.d
Injection Date: 24-Sep-2020 17:36:40 Instrument ID: LC812
Lims ID: 480-175175-C-1-B MS
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 11 Worklist Smp#: 11
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

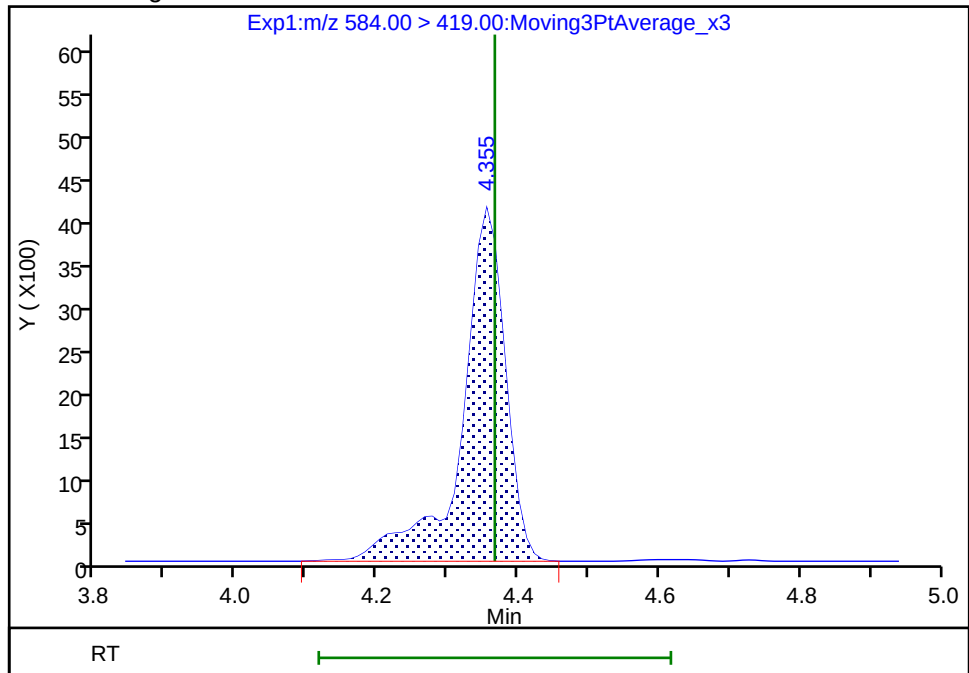
RT: 4.35
Area: 17770
Amount: 0.869087
Amount Units: ng/ml

Processing Integration Results



RT: 4.35
Area: 17655
Amount: 0.863463
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:51:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Client Sample ID: CC-MW-1 MSD Lab Sample ID: 480-175175-1 MSD

Matrix: Water Lab File ID: PA200924B12.d

Analysis Method: 537 (modified) Date Collected: 09/14/2020 14:35

Extraction Method: 3535 Date Extracted: 09/24/2020 07:00

Sample wt/vol: 281.9 (mL) Date Analyzed: 09/24/2020 17:44

Con. Extract Vol.: 10 (mL) Dilution Factor: 1

Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)

% Moisture: _____ GPC Cleanup: (Y/N) N

Analysis Batch No.: 159169 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	35.8		4.4	1.0
2706-90-3	Perfluoropentanoic acid (PFPeA)	36.1		1.8	0.96
307-24-4	Perfluorohexanoic acid (PFHxA)	37.2		1.8	0.74
375-85-9	Perfluoroheptanoic acid (PFHpA)	35.7		1.8	0.41
335-67-1	Perfluorooctanoic acid (PFOA)	36.4		1.8	0.87
375-95-1	Perfluorononanoic acid (PFNA)	36.6		1.8	0.51
335-76-2	Perfluorodecanoic acid (PFDA)	37.4		1.8	0.41
2058-94-8	Perfluoroundecanoic acid (PFUnA)	37.8		1.8	0.65
307-55-1	Perfluorododecanoic acid (PFDoA)	37.6		1.8	0.41
72629-94-8	Perfluorotridecanoic acid (PFTriA)	35.2		1.8	0.38
376-06-7	Perfluorotetradecanoic acid (PFTeA)	41.5		1.8	0.52
375-73-5	Perfluorobutanesulfonic acid (PFBS)	34.8		1.8	0.56
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.4		1.8	0.59
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	37.3		1.8	0.35
335-77-3	Perfluorodecanesulfonic acid (PFDS)	32.4		1.8	0.43
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35.0		1.8	0.77
754-91-6	Perfluorooctanesulfonamide (FOSA)	37.4		1.8	0.51
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	33.2		4.4	0.70
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	32.6		4.4	0.82
27619-97-2	6:2 FTS	34.4		4.4	0.64
39108-34-4	8:2 FTS	32.1		1.8	0.59

FORM I
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1
 SDG No.: _____
 Client Sample ID: CC-MW-1 MSD Lab Sample ID: 480-175175-1 MSD
 Matrix: Water Lab File ID: PA200924B12.d
 Analysis Method: 537 (modified) Date Collected: 09/14/2020 14:35
 Extraction Method: 3535 Date Extracted: 09/24/2020 07:00
 Sample wt/vol: 281.9 (mL) Date Analyzed: 09/24/2020 17:44
 Con. Extract Vol.: 10 (mL) Dilution Factor: 1
 Injection Volume: 20 (uL) GC Column: C-18 ID: 4.6 (mm)
 % Moisture: _____ GPC Cleanup: (Y/N) N
 Analysis Batch No.: 159169 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01056	13C8 FOSA	66		25-150
STL00992	13C4 PFBA	76		25-150
STL01893	13C5 PFPeA	83		25-150
STL00993	13C2 PFHxA	82		50-150
STL01892	13C4 PFHpA	82		50-150
STL00990	13C4 PFOA	77		50-150
STL00995	13C5 PFNA	80		50-150
STL00996	13C2 PFDA	73		50-150
STL00997	13C2 PFUnA	69		50-150
STL00998	13C2 PFDoA	70		50-150
STL02116	13C2 PFTeDA	63		50-150
STL02337	13C3 PFBS	82		50-150
STL00994	18O2 PFHxS	79		50-150
STL00991	13C4 PFOS	78		50-150
STL02118	d3-NMeFOSAA	74		50-150
STL02117	d5-NEtFOSAA	76		50-150
STL02279	M2-6:2 FTS	77		25-150
STL02280	M2-8:2 FTS	85		25-150

Eurofins TestAmerica, Burlington
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
 Lims ID: 480-175175-C-1-C MSD
 Client ID: CC-MW-1
 Sample Type: MSD
 Inject. Date: 24-Sep-2020 17:44:58 ALS Bottle#: 12 Worklist Smp#: 12
 Injection Vol: 20.0 ul Dil. Factor: 1.0000
 Sample Info: 480-175175-C-1-C MSD
 Misc. Info.: 200-0042936-012 Plate: 1 Rack: 2
 Operator ID: lc812tech Instrument ID: LC812
 Method: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PFC_LC812.m
 Limit Group: LC_PFC_ICAL
 Last Update: 25-Sep-2020 11:38:01 Calib Date: 22-Sep-2020 20:11:57
 Integrator: Picker
 Quant Method: Isotopic Dilution Quant By: Initial Calibration
 Last ICal File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d
 Column 1 : C-18 (4.60 mm) Det: EXP1
 Process Host: CTX1048

First Level Reviewer: khanphomeea

Date: 25-Sep-2020 08:55:50

Ratio Calibration: Initial Calibration Level: 4

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 1 13C4 PFBA										
217.00 > 172.00	1.990	1.981	0.009	0.577	987909	0.9554		76.4	5633	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.000	745487	1.01		101	105	M
D 3 13C5 PFPeA										
267.90 > 223.00	2.326	2.326	0.0	0.674	769373	1.04		83.1	3774	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.326	2.326	0.0	1.000	661957	1.02		102	32.3	
D 47 13C3 PFBS										M
301.90 > 80.00	2.339	2.339	0.0	0.678	858891	0.9517		81.9	130339	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.339	0.014	1.006	721464	0.9800	Target=2.07	111	665	
298.90 > 99.00	2.339	2.339	0.0	1.000	356609		2.02(1.04-3.11)		435	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.665	2.653	0.012	1.000	89690	1.04		111	1771	
D 60 M2-4:2 FTS										
329.00 > 81.00	2.665	2.653	0.012	0.773	62469	0.9215		78.9	105	
D 7 13C2 PFHxA										
315.00 > 270.00	2.703	2.691	0.012	0.784	781074	1.02		81.9	4978	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.703	2.691	0.012	1.000	659722	1.05	Target=12.44	105	198	
313.00 > 119.00	2.703	2.691	0.012	1.000	59014		11.18(6.22-18.66)		264	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.703	2.703	0.0	0.880	635330	1.04	Target=3.64	111	910	
349.00 > 99.00	2.703	2.703	0.0	0.880	188435		3.37(1.82-5.46)		423	
D 64 13C3 HFPO-DA										
332.10 > 287.00	2.818	2.810	0.008	0.817	65908	0.9268		74.1	1033	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
67 Perfluoro(2-propoxypropanoic) ac										M
329.10 > 285.00	2.810	2.810	0.0	0.997	111242	0.99		99.2	28.7	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	608055	0.9390		79.4	2105	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	535123	0.9423	Target=4.60	104	706	M
399.00 > 99.00	3.073	3.073	0.0	1.000	116022		4.61(2.30-6.91)		253	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.073	0.011	0.894	714309	1.03		82.3	3726	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.000	577034	1.01	Target=3.34	101	256	
363.00 > 169.00	3.084	3.084	0.0	1.000	174613		3.30(1.67-5.01)		645	
77 DONA										
377.00 > 251.00	3.123	3.115	0.008	0.830	1279939	1.01	Target=2.44	107	3407	
377.00 > 85.00	3.123	3.115	0.008	0.830	528194		2.42(1.22-3.67)		1044	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.432	3.433	-0.001	0.912	501981	1.05	Target=7.08	111	2483	
449.00 > 99.00	3.432	3.433	-0.001	0.912	72331		6.94(3.54-10.63)		695	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.441	3.433	0.008	1.003	51768	0.9688		102	588	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.441	-0.009	0.995	79507	0.9187		77.4	347	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	682614	0.9609		76.9	2765	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.441	0.009		901993	1.25			2706	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.450	3.450	0.0	1.000	578095	1.03	Target=2.29	103	228	
413.00 > 169.00	3.450	3.450	0.0	1.000	269692		2.14(1.14-3.43)		576	
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	492099	0.9290		77.7	2110	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	441335	0.9862	Target=7.10	106	1208	M
499.00 > 99.00	3.765	3.765	0.0	1.000	59077		7.47(3.55-10.64)		368	M
D 19 13C5 PFNA										
468.00 > 423.00	3.785	3.786	-0.001	1.097	596330	1.00		79.7	2041	
20 Perfluorononanoic acid										
463.00 > 419.00	3.785	3.786	-0.001	1.000	501297	1.03	Target=5.83	103	222	
463.00 > 169.00	3.785	3.786	-0.001	1.000	75163		6.67(2.91-8.74)		1610	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.921	3.922	-0.001	1.042	373085	0.9473		102	2637	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.051	4.052	-0.001	1.076	336535	0.9516	Target=3.38	99.1	6186	
549.00 > 99.00	4.051	4.052	-0.001	1.076	94851		3.55(1.69-5.08)		582	
24 Perfluorodecanoic acid										
513.00 > 469.00	4.081	4.082	-0.001	1.000	437929	1.05	Target=6.81	105	881	
513.00 > 169.00	4.081	4.082	-0.001	1.000	62629		6.99(3.41-10.22)		1072	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.082	-0.001	1.183	524726	0.9140		73.1	4984	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.091	4.092	-0.001	1.000	31051	0.9059		94.6	453	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.091	4.092	-0.001	1.186	103696	1.02		85.0	925	
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.139	-0.001	1.200	765837	0.8278		66.2	2243	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.150	4.139	0.011	1.003	603857	1.05		105	1121	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.224	0.001	1.225	30063	0.9198		73.6	194	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.224	0.001	1.000	21268	0.9370		93.7	180	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.321	-0.011	1.145	270447	0.9140	Target=3.31	94.8	1827	
599.00 > 99.00	4.310	4.321	-0.011	1.145	84294		3.21(1.66-4.97)		996	
D 30 13C2 PFUnA										
565.00 > 520.00	4.344	4.343	0.001	1.259	372479	0.8595		68.8	4402	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.344	4.343	0.001	1.000	313087	1.07	Target=6.57	107	403	
563.00 > 169.00	4.344	4.343	0.001	1.000	46710		6.70(3.28-9.85)		1120	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	33465	0.9524		76.2	469	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.366	-0.011	1.000	22539	0.9196		92.0	504	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.434	4.433	0.001	1.178	293951	0.8653		91.9	3305	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	398802	0.8707		69.7	3765	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	329924	1.06	Target=5.16	106	489	
613.00 > 169.00	4.573	4.573	0.0	1.000	65723		5.02(2.58-7.75)		1505	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.598	4.597	0.001	1.124	15313	0.8040		83.4	589	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.745	4.745	0.0	1.260	74360	0.7831	Target=0.45	80.9	376	
699.00 > 99.00	4.745	4.745	0.0	1.260	172305		0.43(0.22-0.67)		1742	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.780	4.790	-0.010	1.045	262251	0.99	Target=3.30	99.3	196	
663.00 > 169.00	4.780	4.790	-0.010	1.045	78961		3.32(1.65-4.95)		1480	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.978	0.0	1.443	255582	0.7833		62.7	3265	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.978	4.978	0.0	1.000	54766	1.17	Target=1.06	117	2000	
713.00 > 219.00	4.969	4.978	-0.009	0.998	50361		1.09(0.53-1.59)		1458	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 44 13C2 PFHxDA										
815.00 > 770.00	5.340	5.350	-0.010	1.548	361017	0.9763		78.1	3516	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.350	0.0	1.002	270885	1.06	Target=3.06	106	274	
813.00 > 169.00	5.340	5.350	-0.010	1.000	93586		2.89(1.53-4.58)		2231	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.738	-0.018	1.071	189169	0.8764	Target=2.82	87.6	204	
913.00 > 169.00	5.720	5.738	-0.018	1.071	71103		2.66(1.41-4.24)		1157	

QC Flag Legend

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d

Injection Date: 24-Sep-2020 17:44:58

Instrument ID: LC812

Lims ID: 480-175175-C-1-C MSD

Client ID: CC-MW-1

Operator ID: lc812tech

ALS Bottle#: 12

Worklist Smp#: 12

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

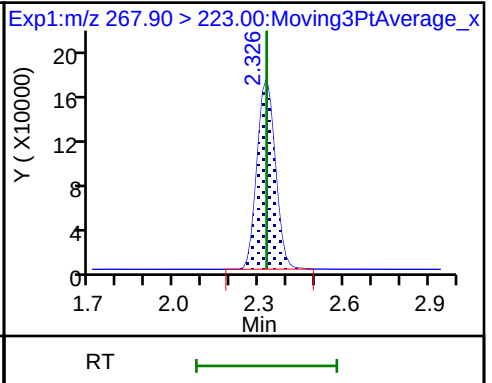
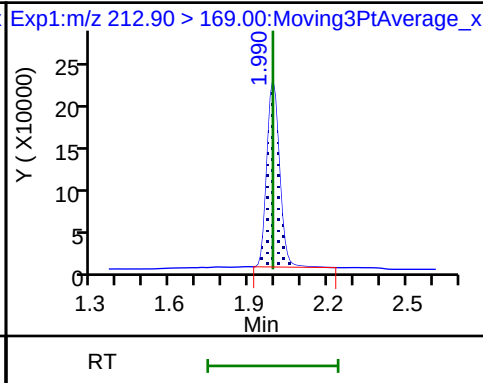
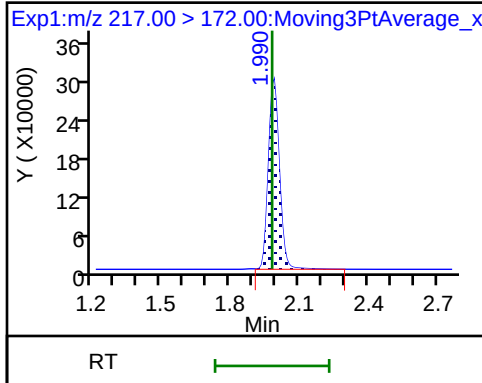
Method: PFC_LC812

Limit Group: LC_PFC_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

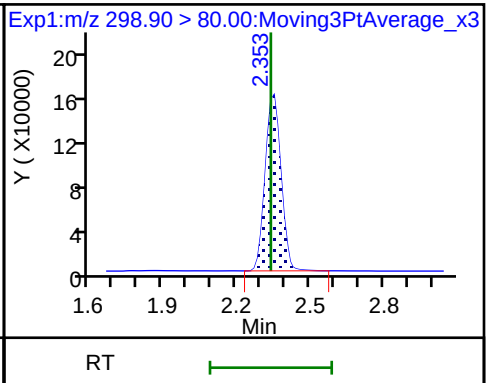
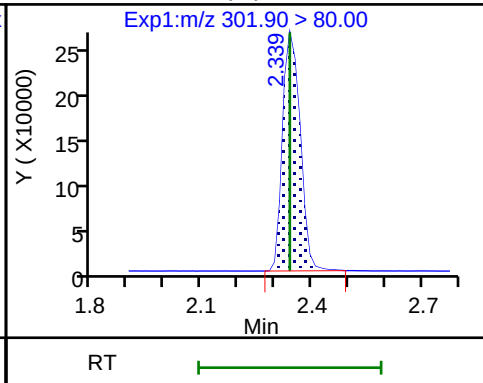
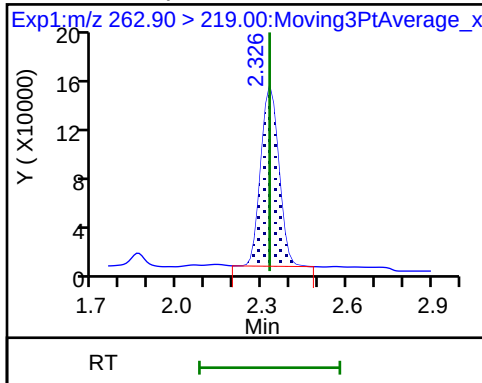
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

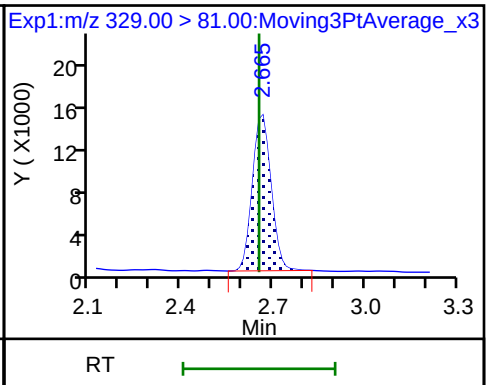
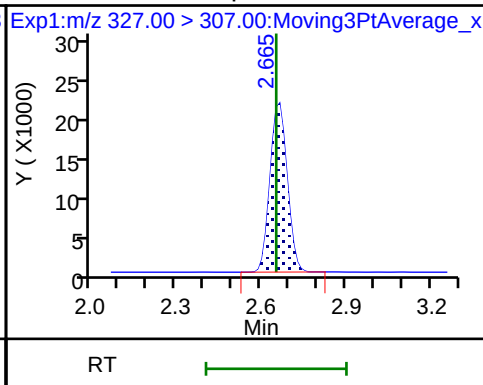
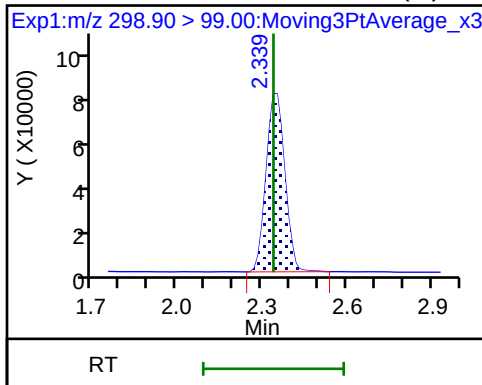
D 47 13C3 PFBS (M)

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid (M)

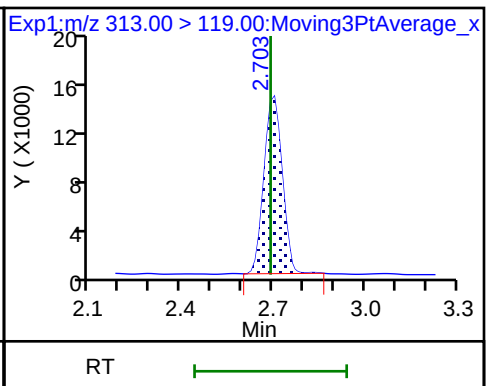
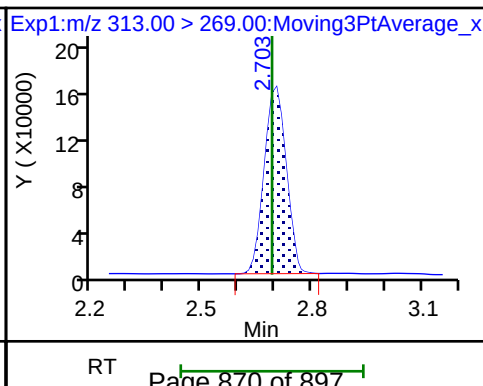
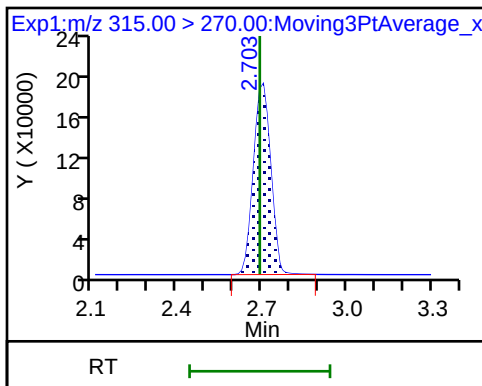
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

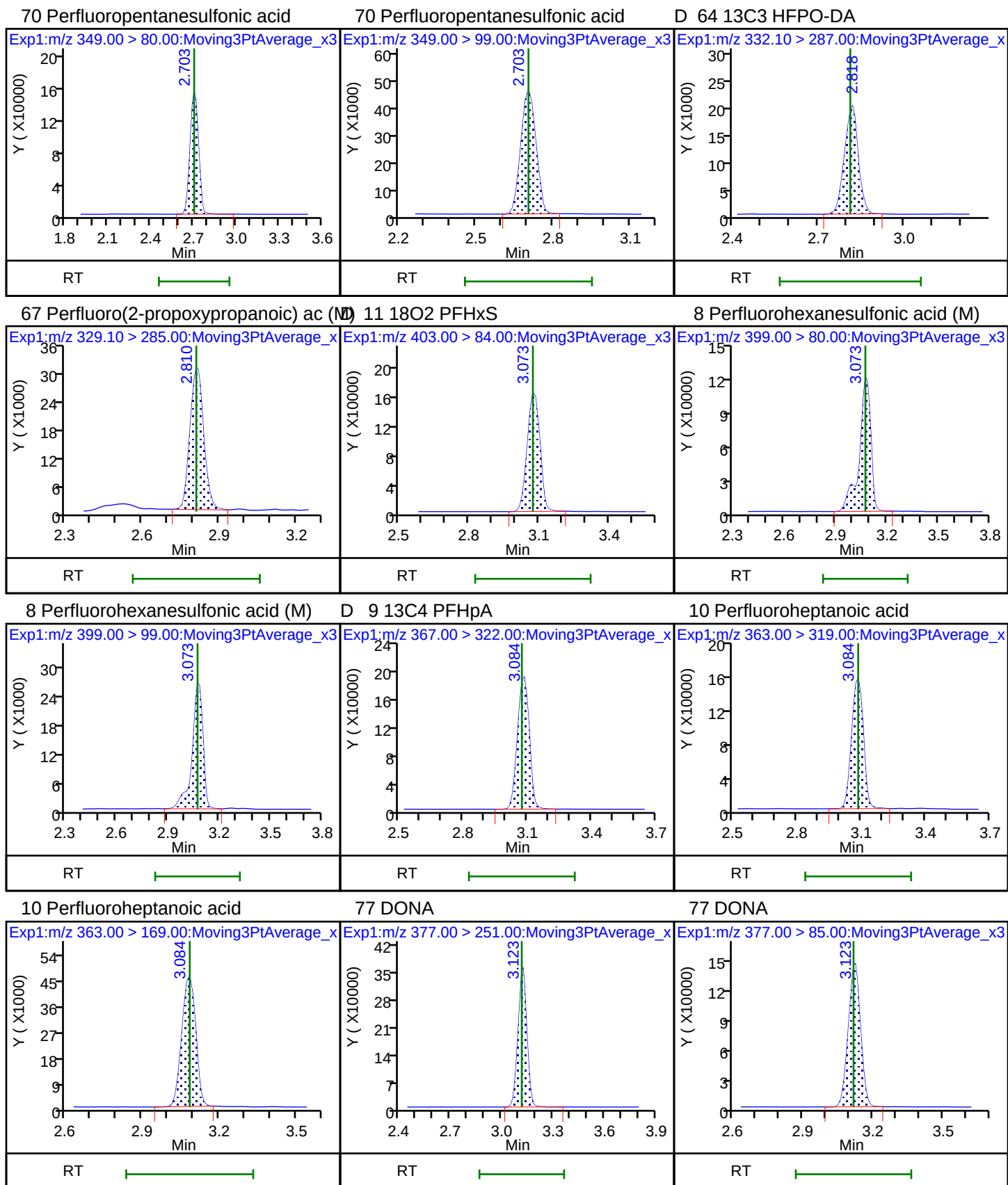


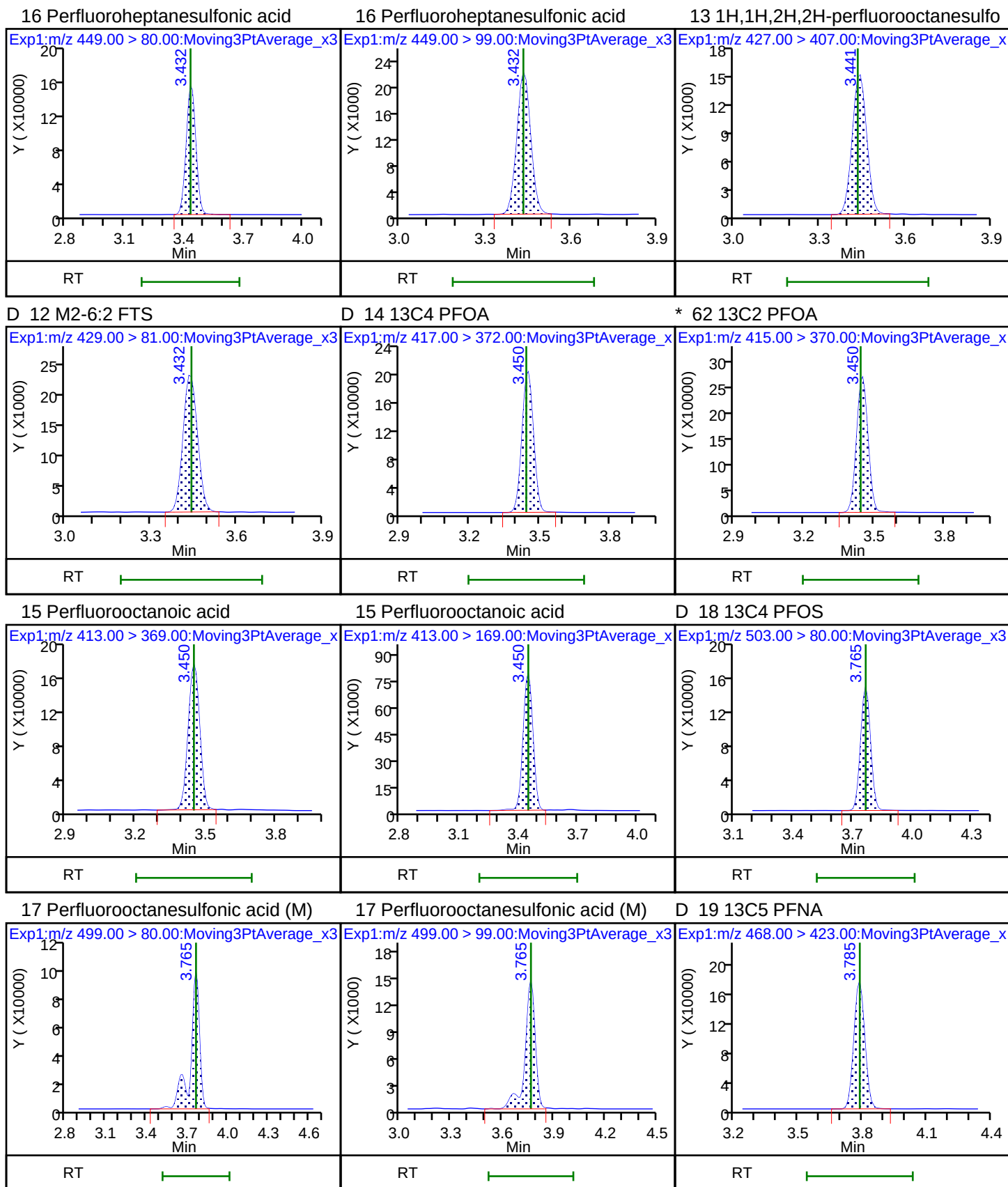
D 7 13C2 PFHxA

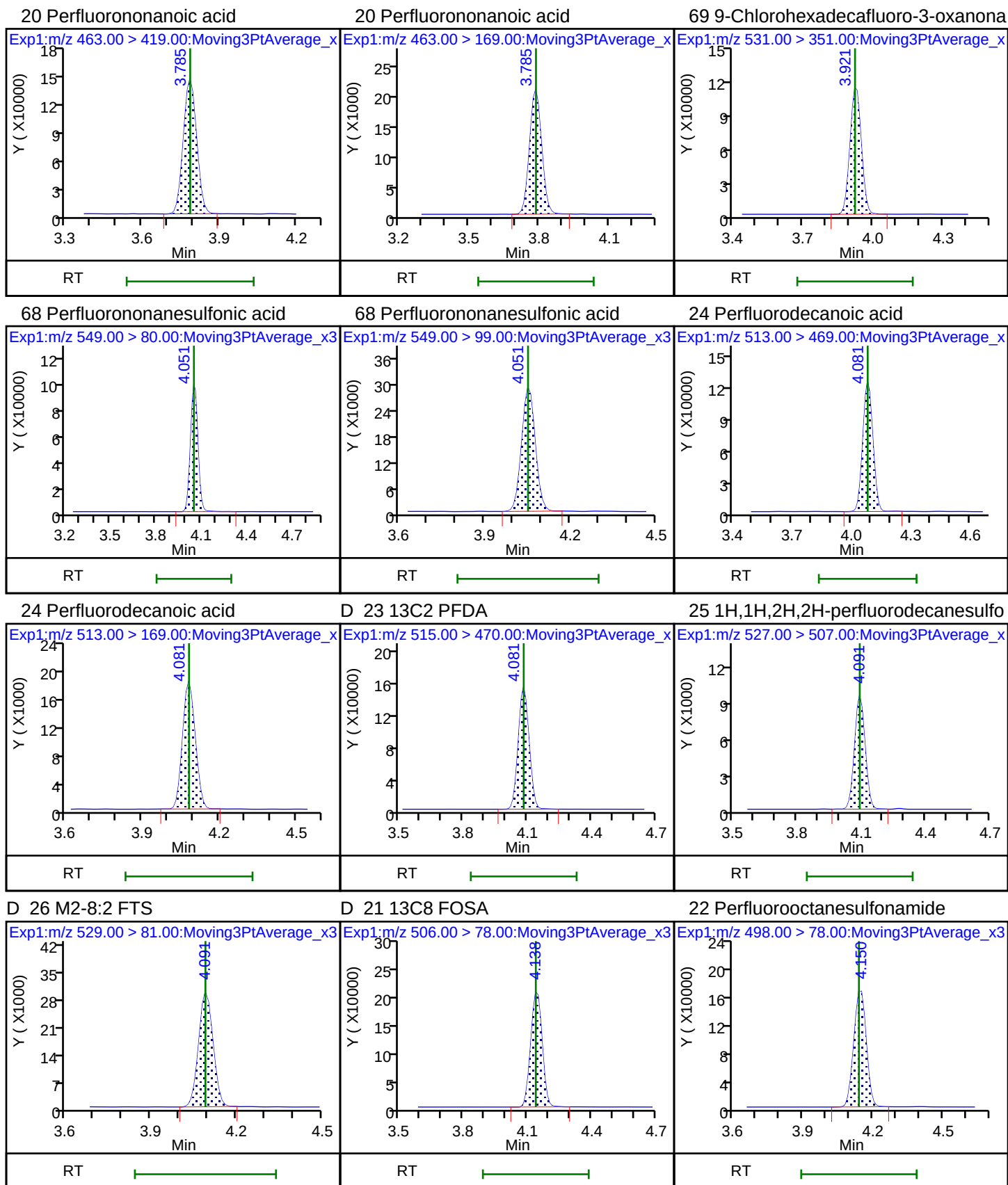
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

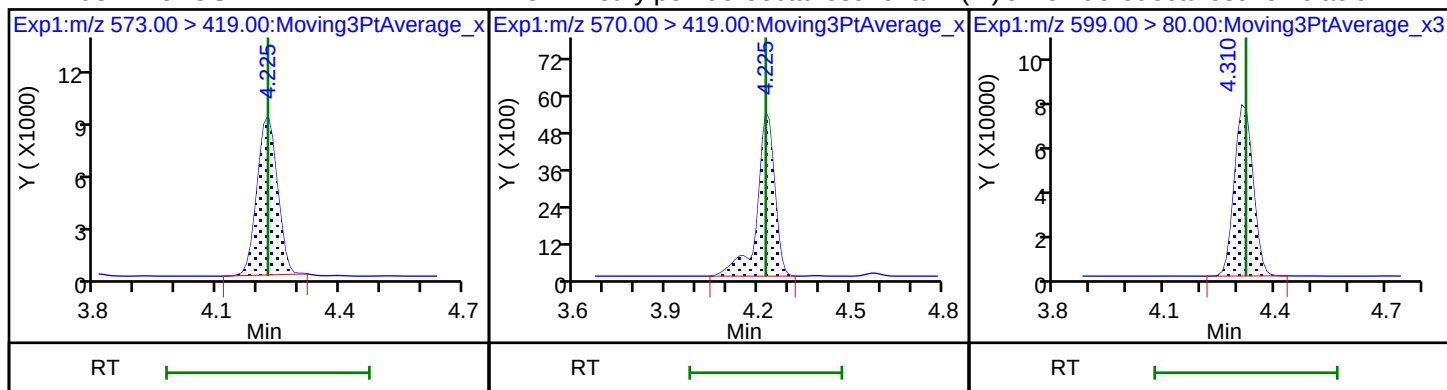








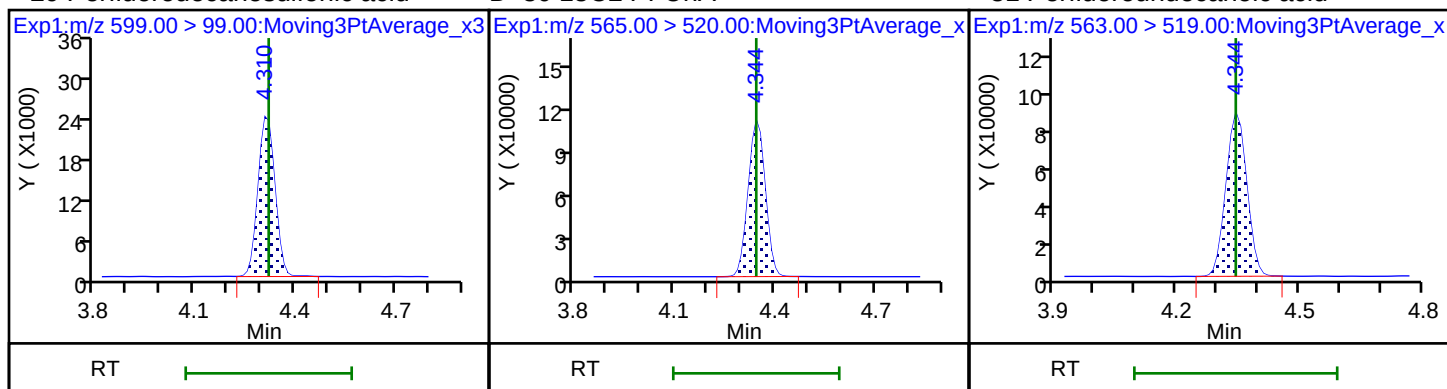
D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami (M₂9 Perfluorodecanesulfonic acid

29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

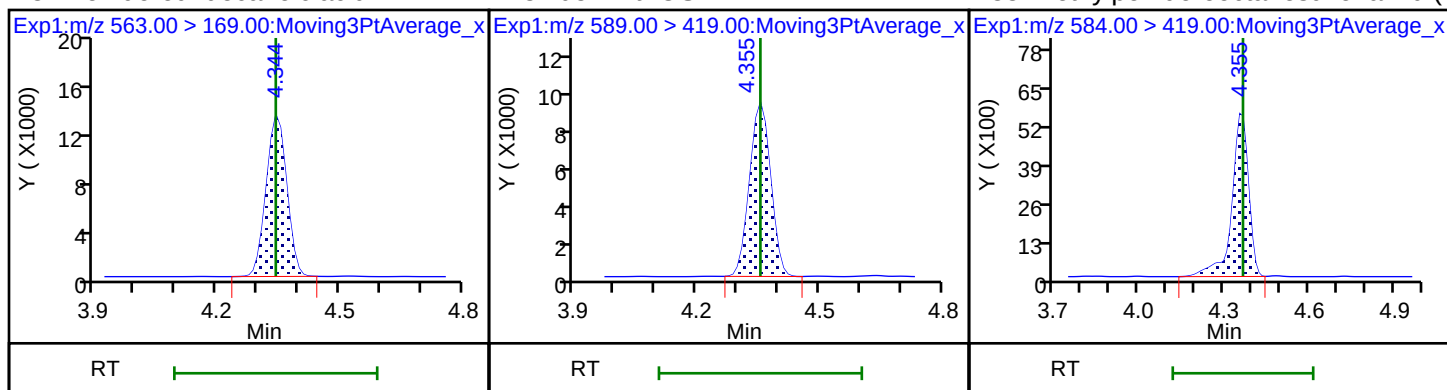
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

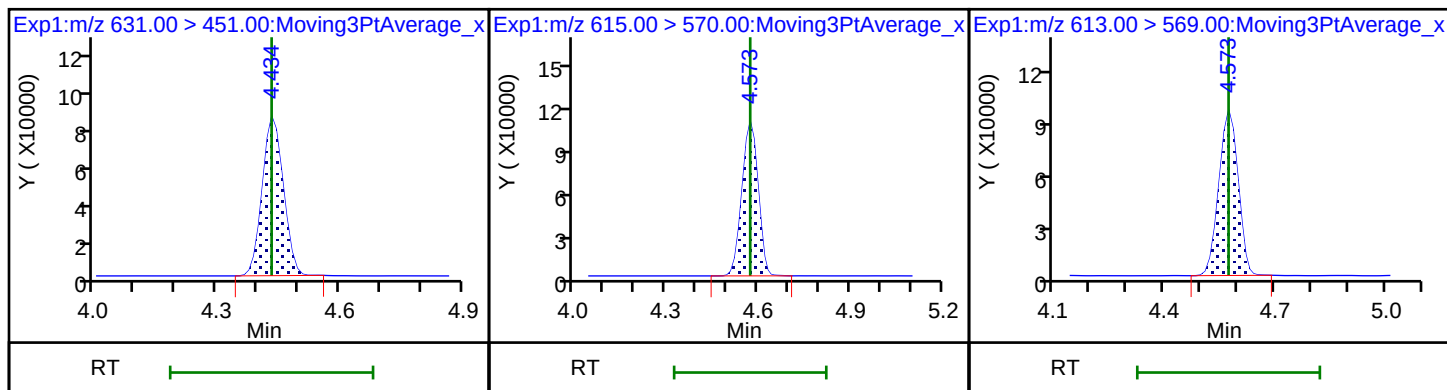
33 N-ethylperfluorooctanesulfonamid (M



66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDaA

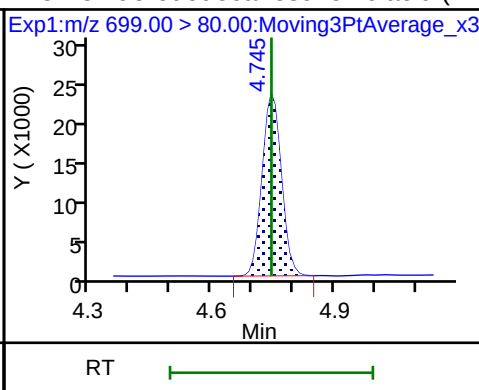
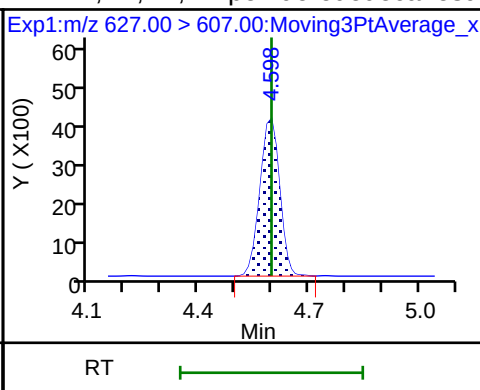
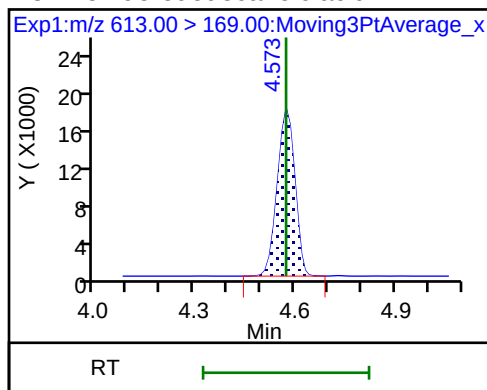
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

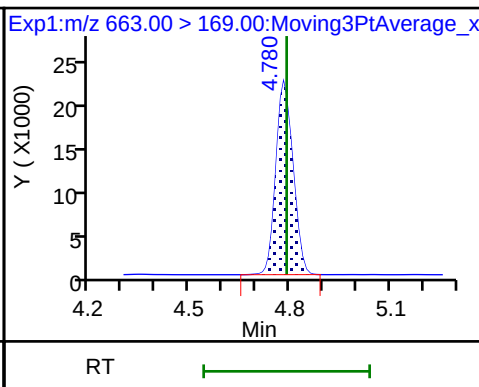
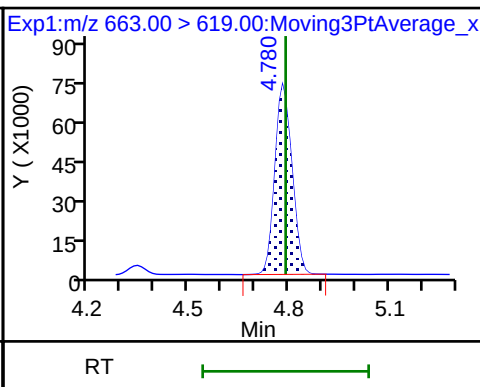
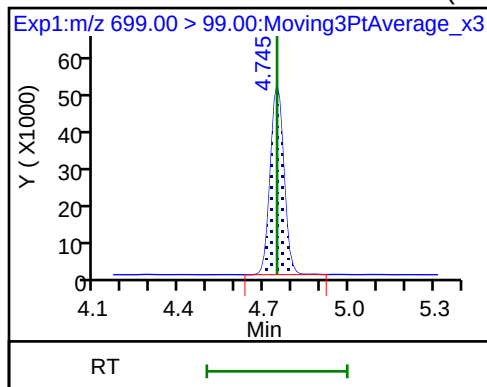
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

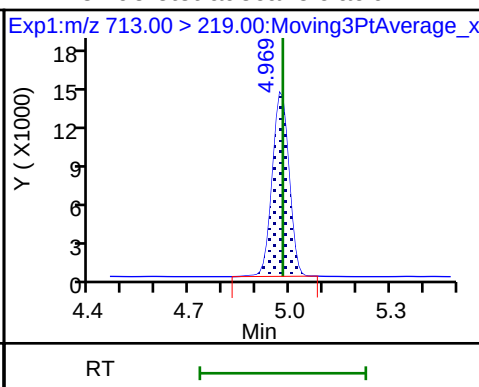
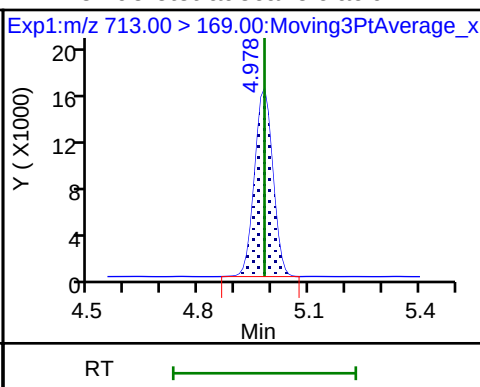
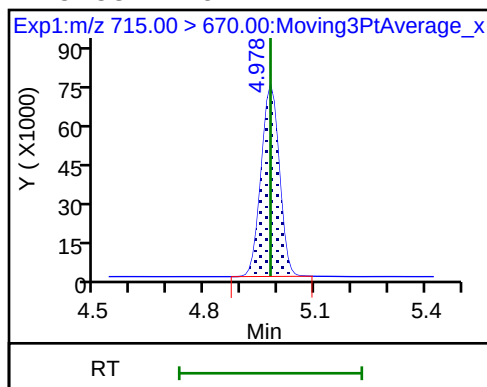
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

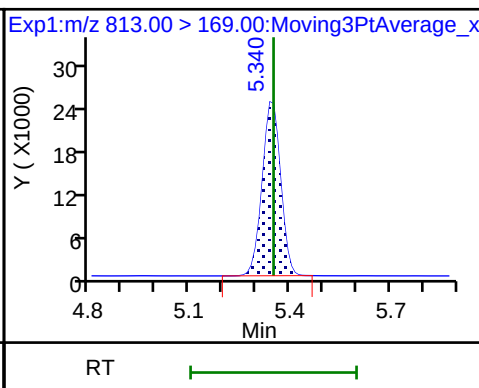
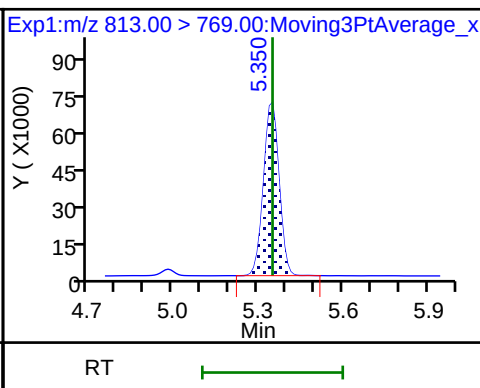
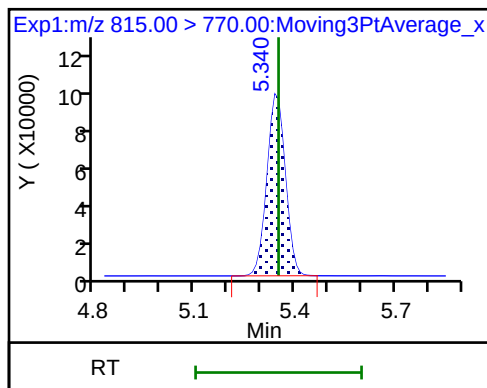
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

45 Perfluorohexadecanoic acid

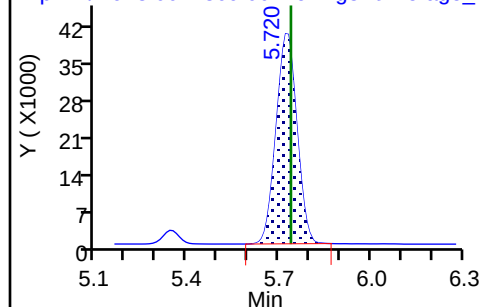
45 Perfluorohexadecanoic acid



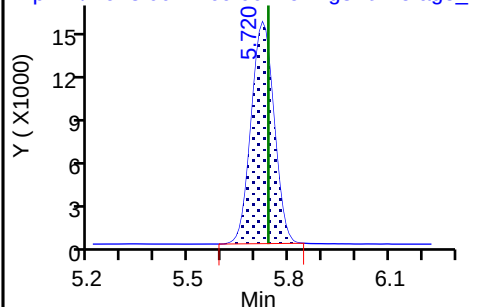
46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid

Exp1:m/z 913.00 > 869.00:Moving3PtAverage_x



Exp1:m/z 913.00 > 169.00:Moving3PtAverage_x



Eurofins TestAmerica, Burlington

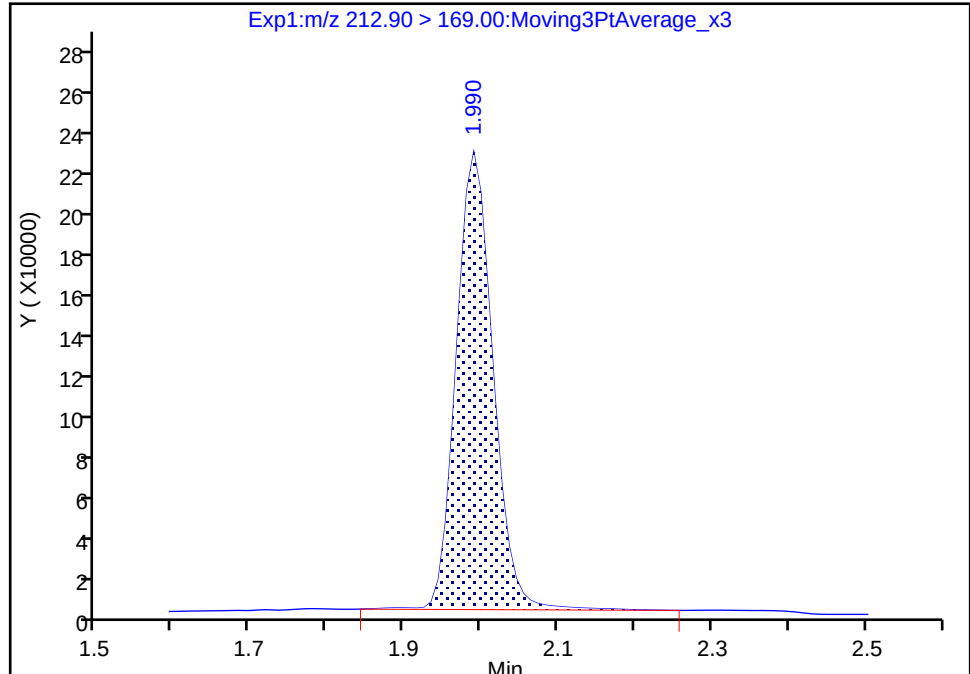
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

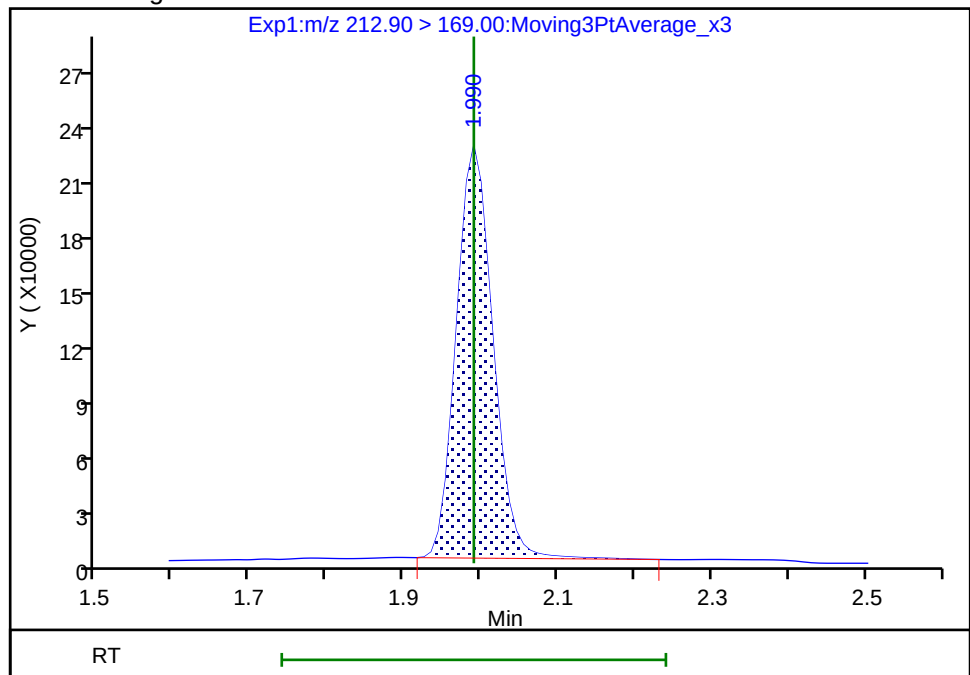
RT: 1.99
Area: 753381
Amount: 1.019803
Amount Units: ng/ml

Processing Integration Results



RT: 1.99
Area: 745487
Amount: 1.009118
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:52:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

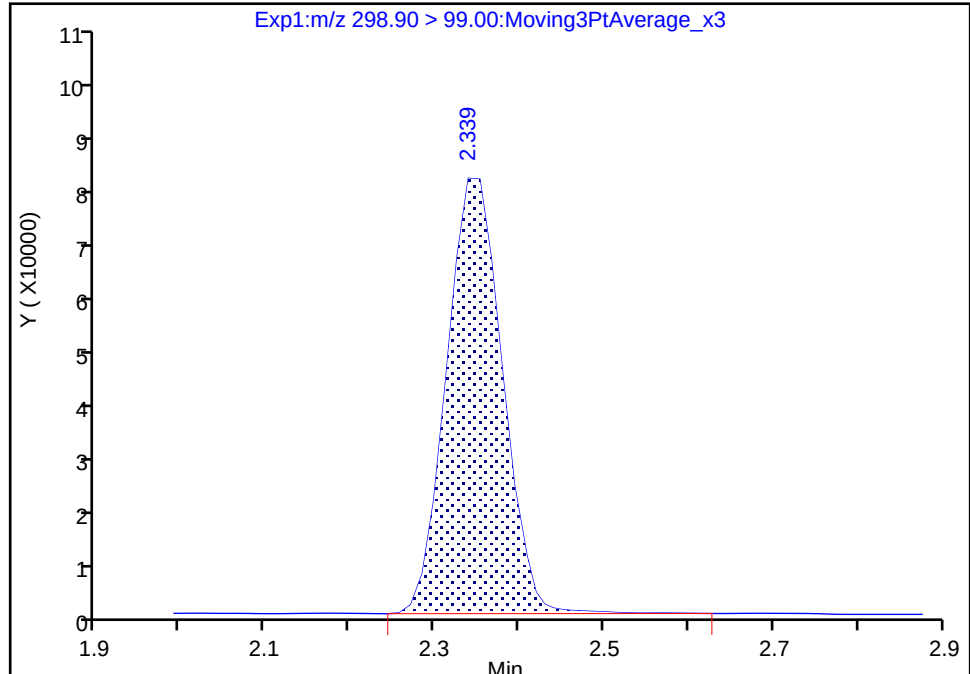
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

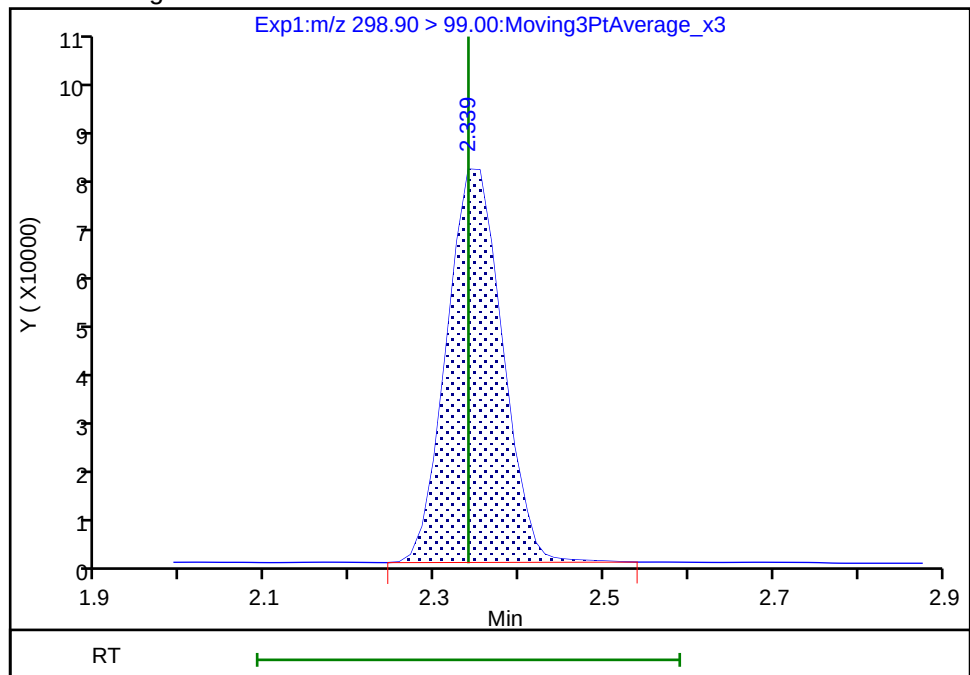
RT: 2.34
Area: 357575
Amount: 0.980009
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 356609
Amount: 0.980009
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:54:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

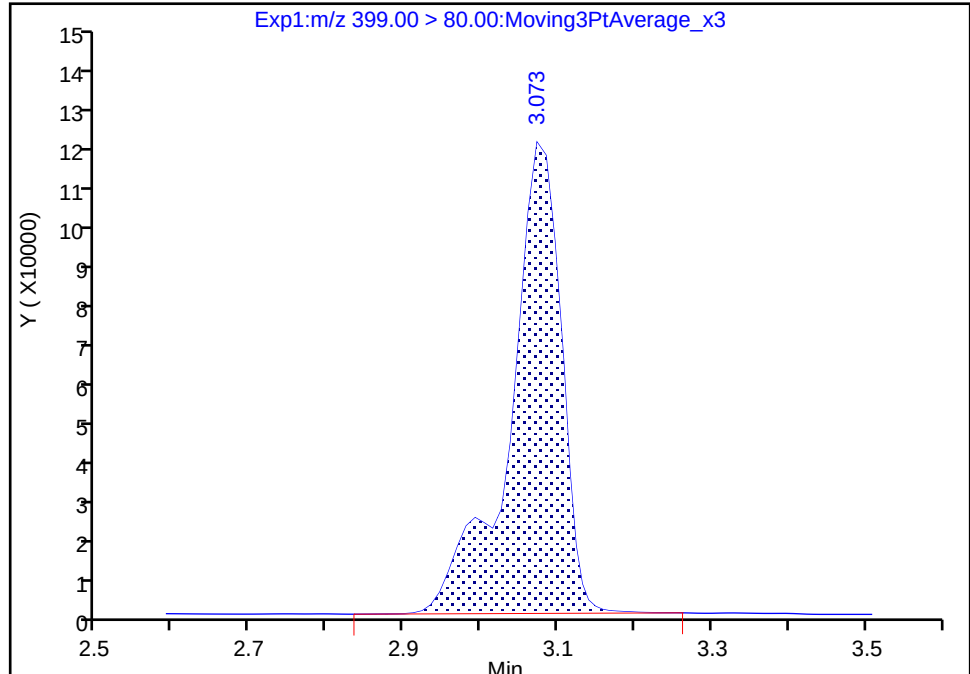
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

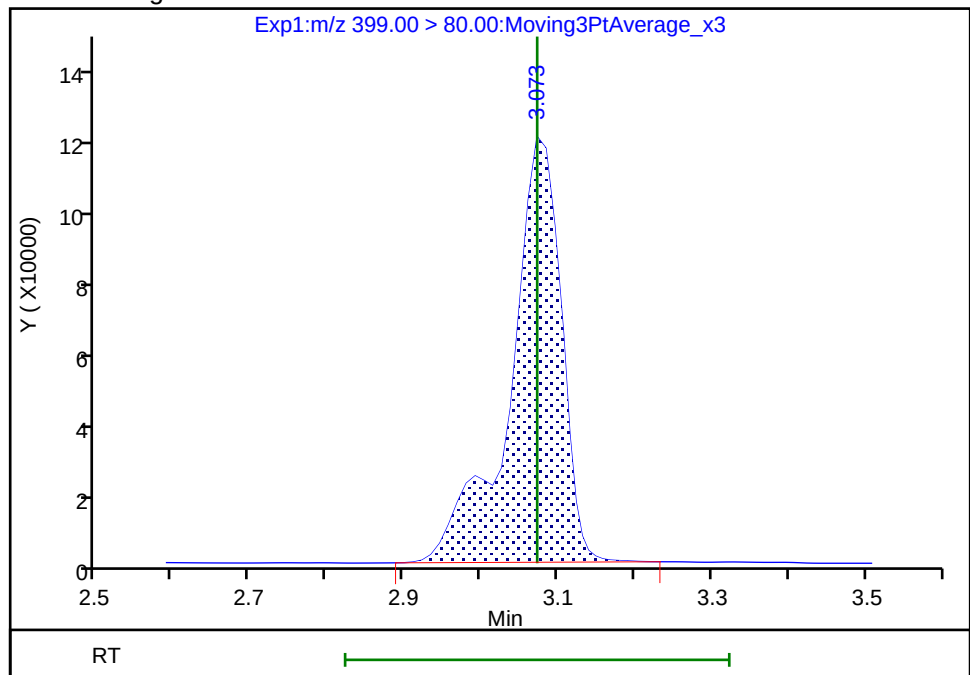
RT: 3.07
Area: 535983
Amount: 0.943799
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 535123
Amount: 0.942285
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:54:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

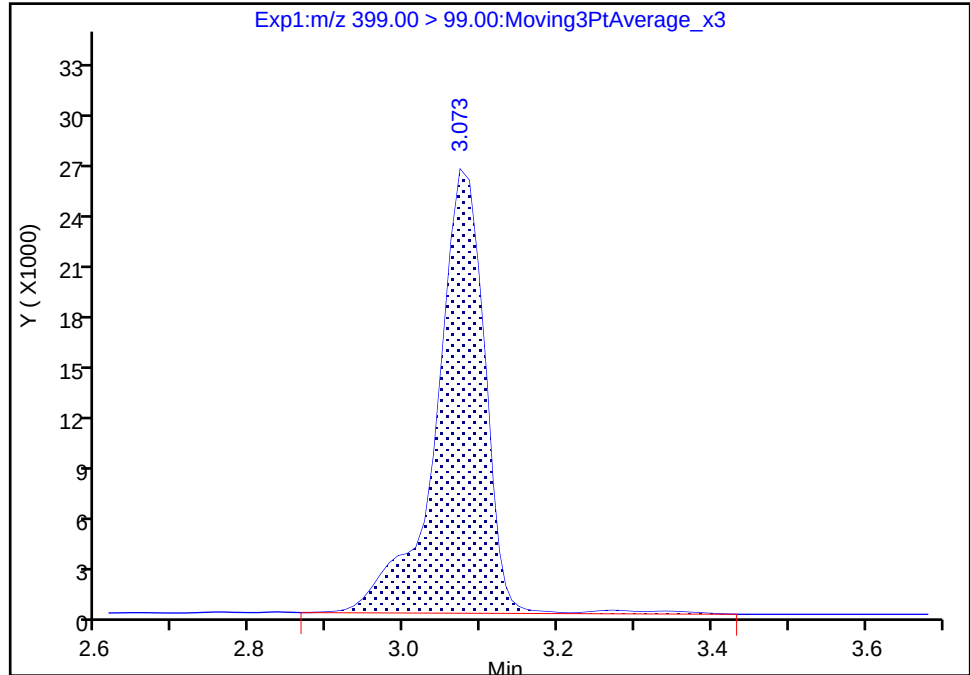
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

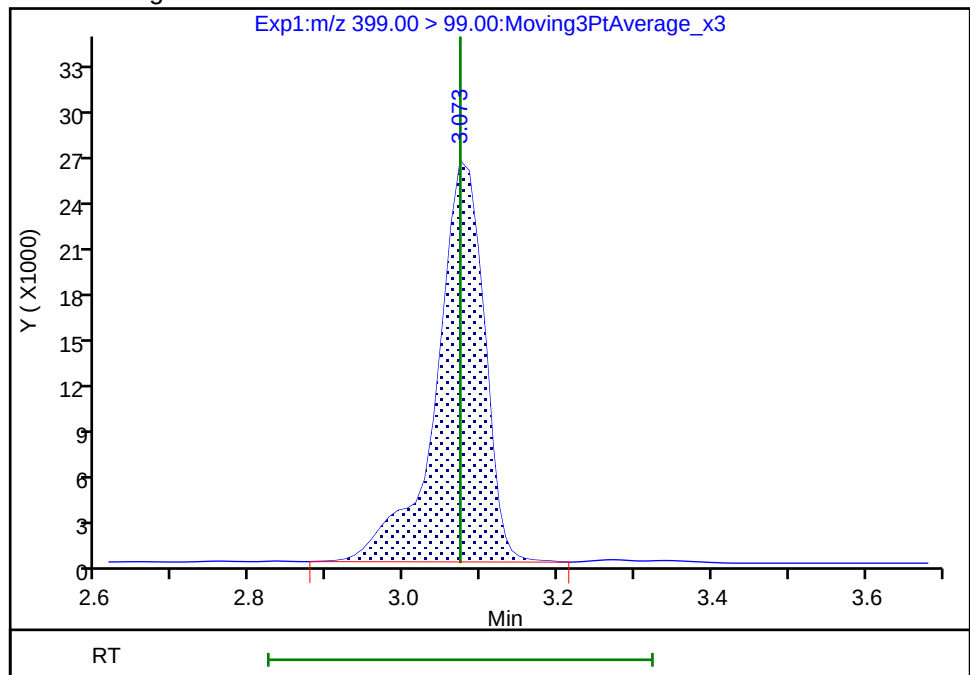
RT: 3.07
Area: 117771
Amount: 0.943799
Amount Units: ng/ml

Processing Integration Results



RT: 3.07
Area: 116022
Amount: 0.942285
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:54:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 880 of 897

Eurofins TestAmerica, Burlington

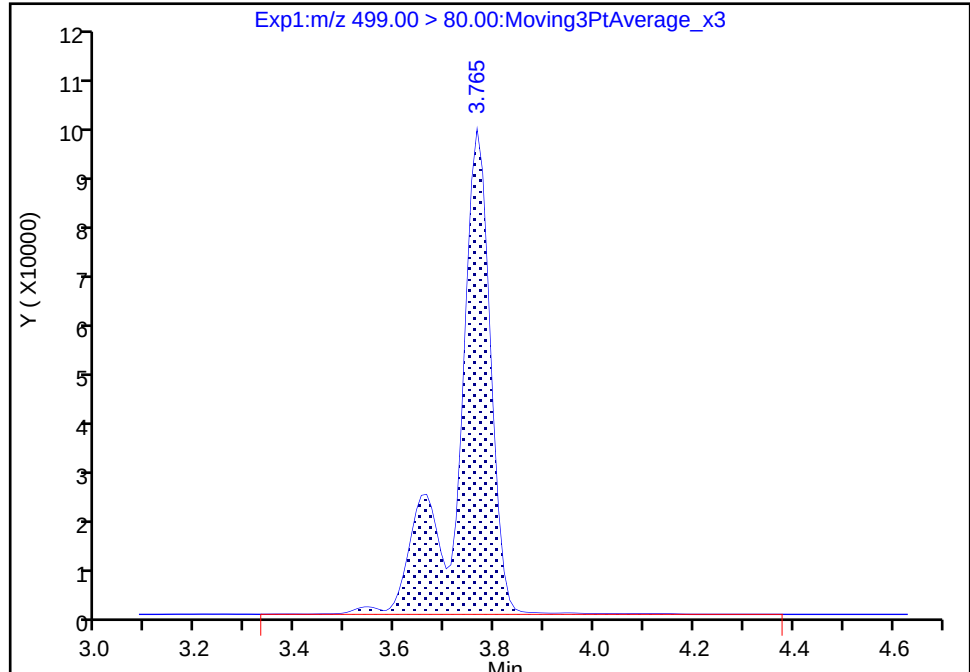
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

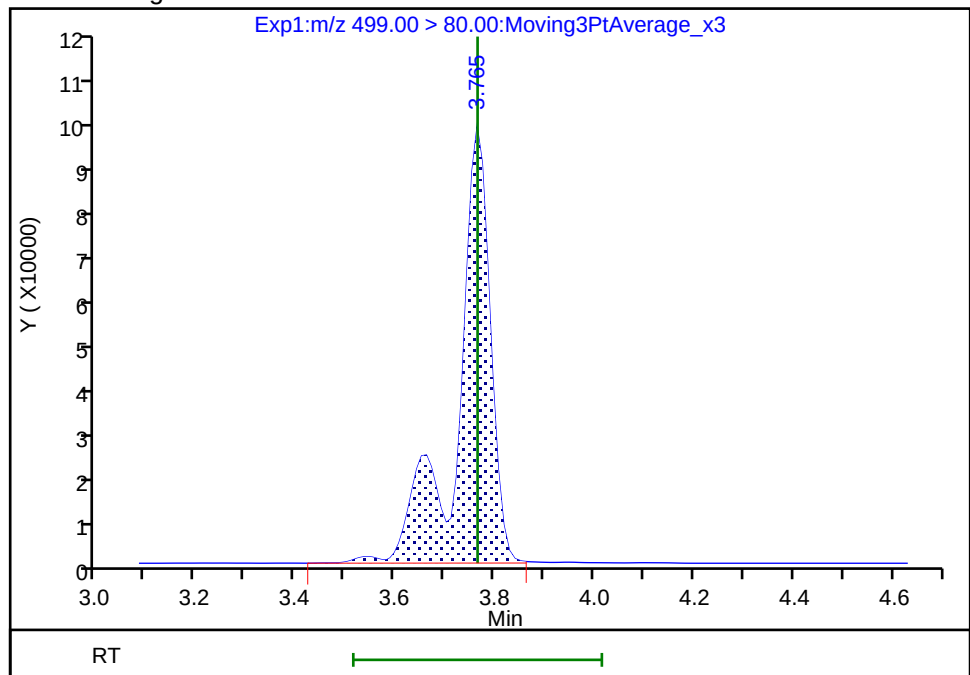
RT: 3.76
Area: 444804
Amount: 0.993981
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 441335
Amount: 0.986229
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:37:18
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration
Page 881 of 897

Eurofins TestAmerica, Burlington

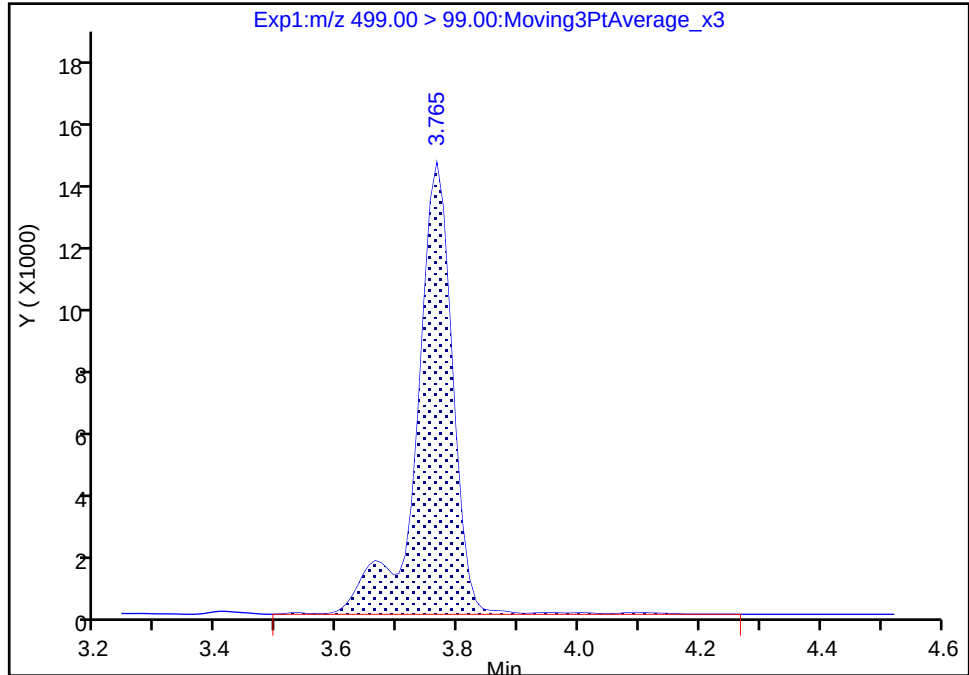
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

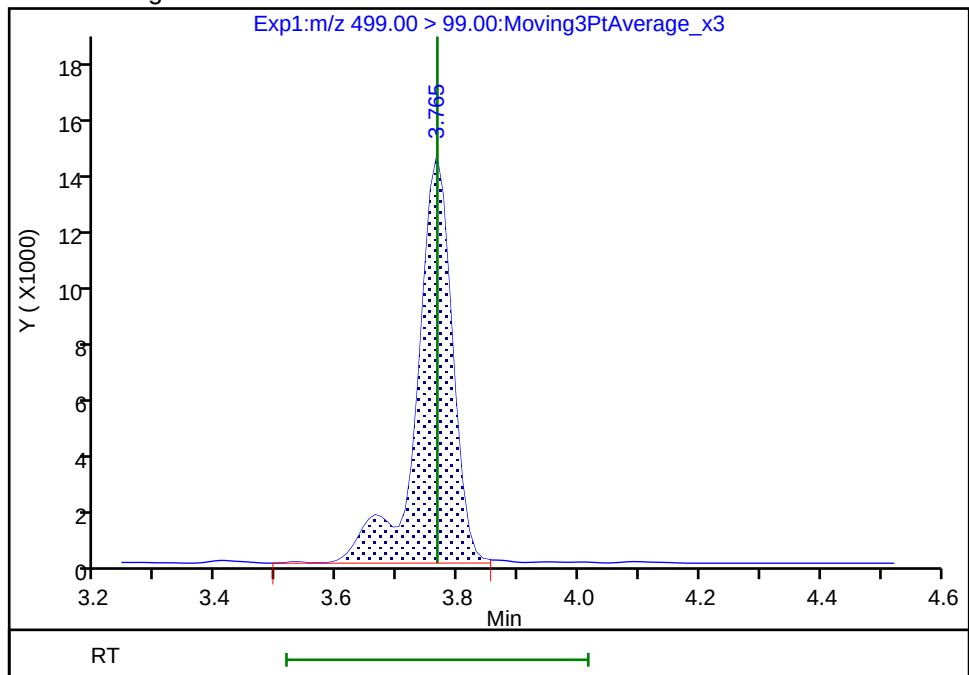
RT: 3.76
Area: 59897
Amount: 0.993981
Amount Units: ng/ml

Processing Integration Results



RT: 3.76
Area: 59077
Amount: 0.986229
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 25-Sep-2020 10:37:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

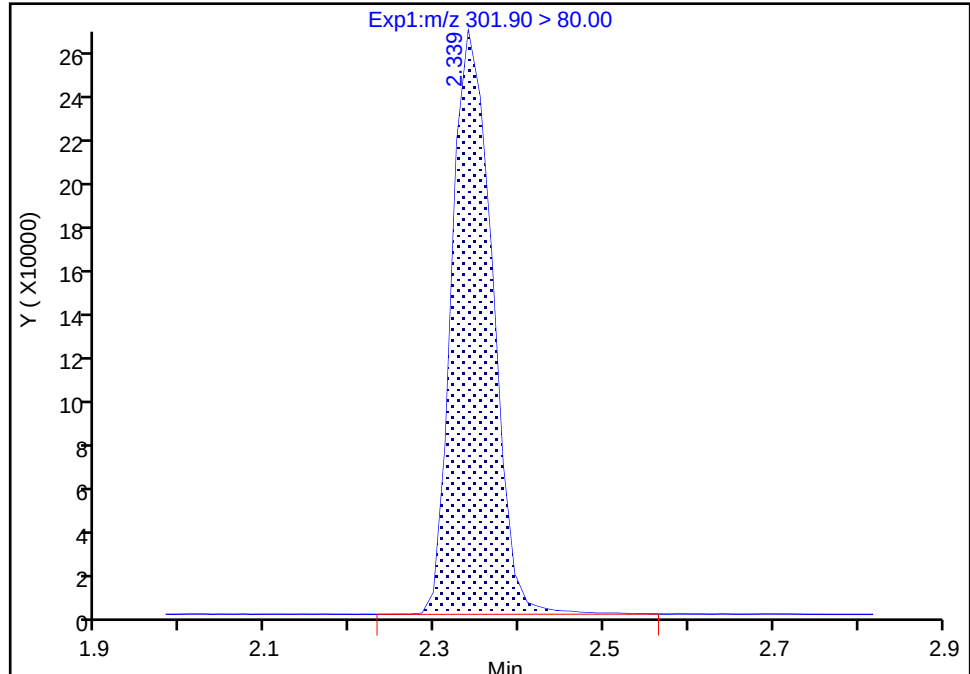
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

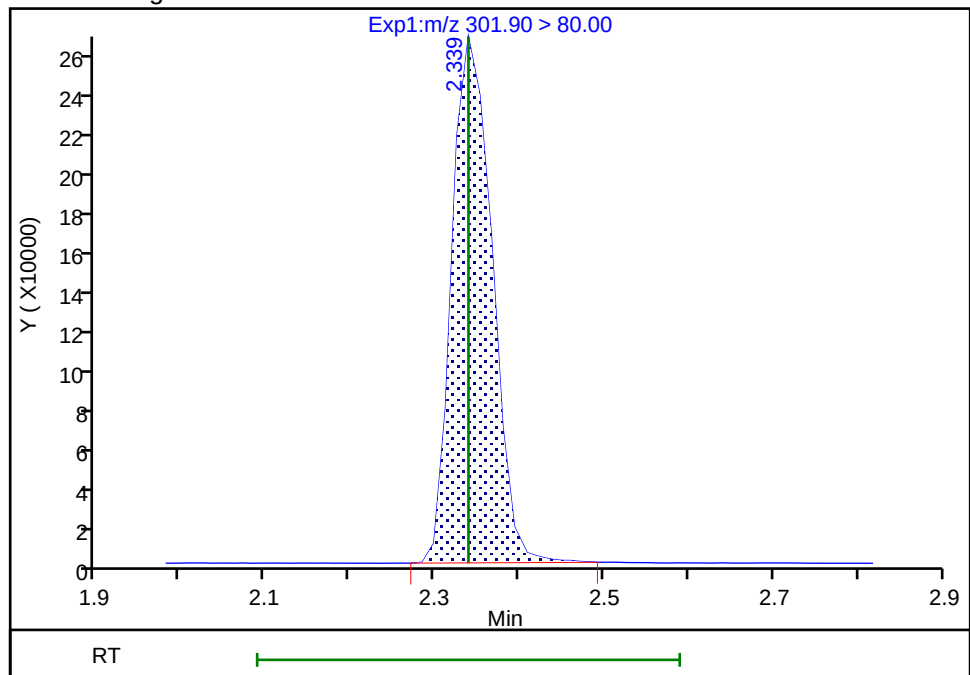
RT: 2.34
Area: 862771
Amount: 0.955981
Amount Units: ng/ml

Processing Integration Results



RT: 2.34
Area: 858891
Amount: 0.951682
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:52:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

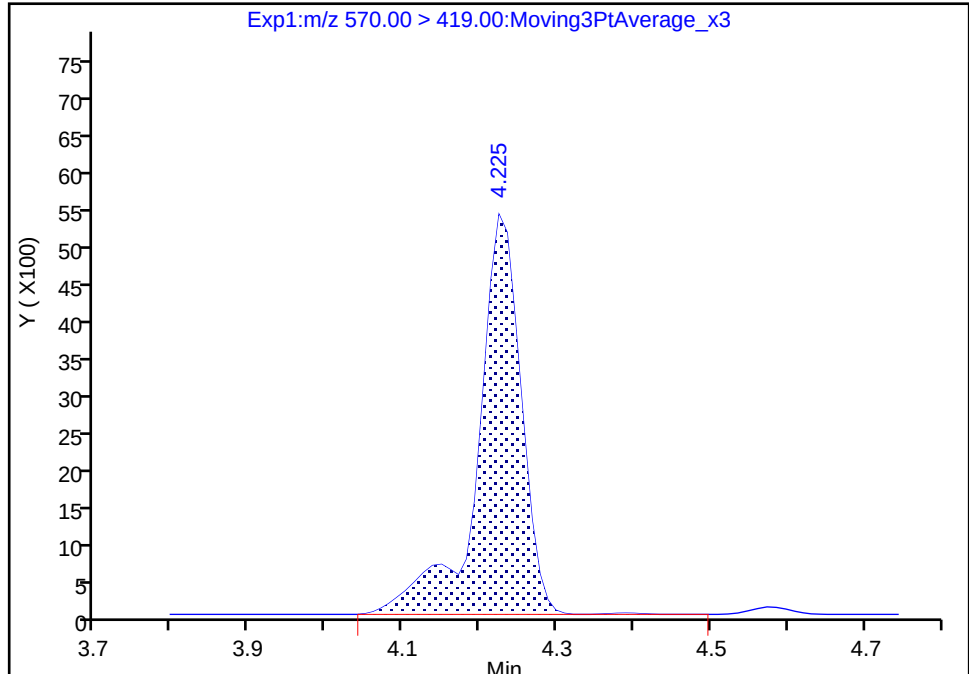
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

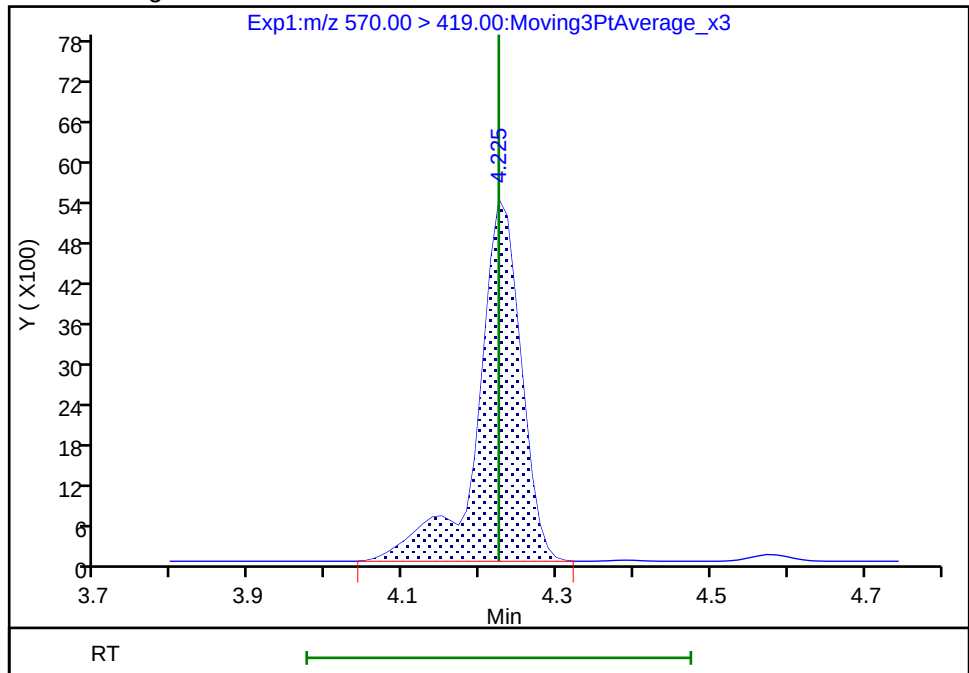
RT: 4.22
Area: 21311
Amount: 0.938944
Amount Units: ng/ml

Processing Integration Results



RT: 4.22
Area: 21268
Amount: 0.937049
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:55:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

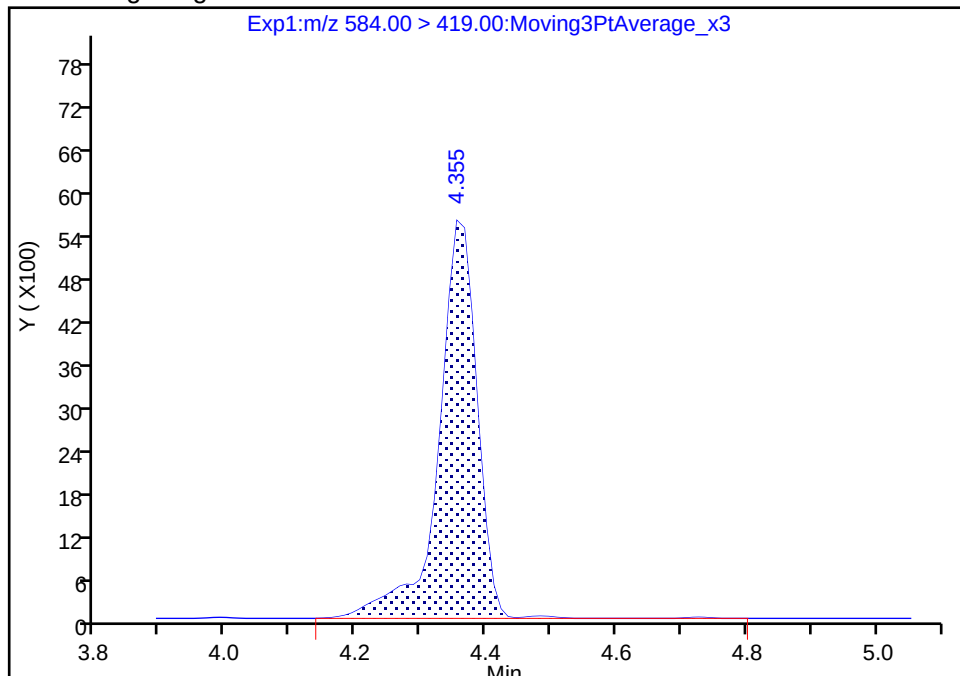
Data File: \\chromfs\Burlington\ChromData\LC812\20200924-42936.b\PA200924B12.d
Injection Date: 24-Sep-2020 17:44:58 Instrument ID: LC812
Lims ID: 480-175175-C-1-C MSD
Client ID: CC-MW-1
Operator ID: lc812tech ALS Bottle#: 12 Worklist Smp#: 12
Injection Vol: 20.0 ul Dil. Factor: 1.0000
Method: PFC_LC812 Limit Group: LC_PFC_ICAL
Column: C-18 (4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

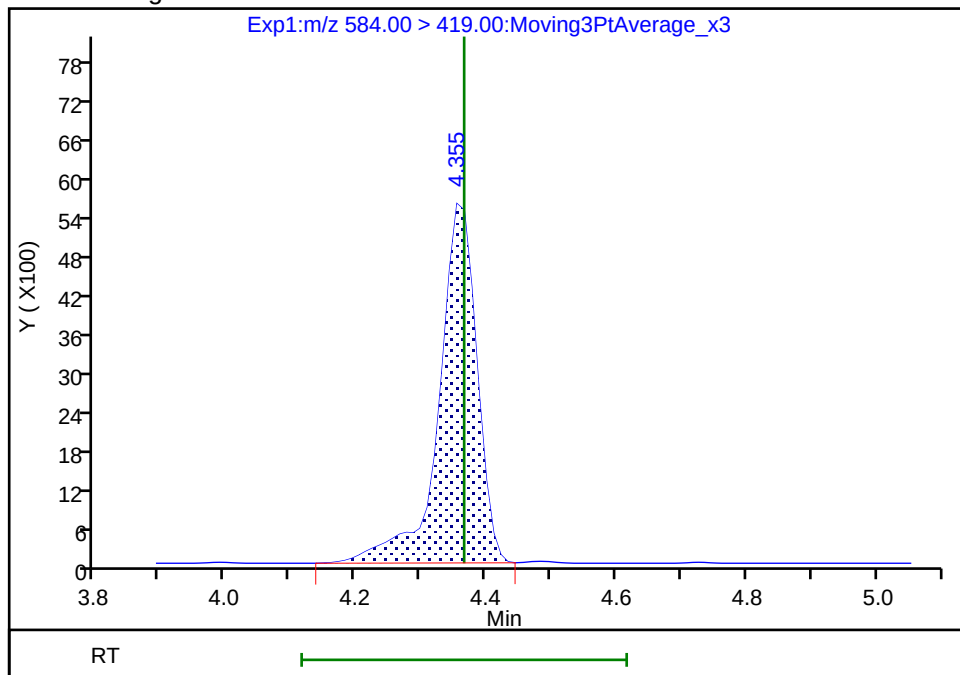
RT: 4.36
Area: 22726
Amount: 0.927207
Amount Units: ng/ml

Processing Integration Results



RT: 4.36
Area: 22539
Amount: 0.919578
Amount Units: ng/ml

Manual Integration Results



Reviewer: khanphomeea, 25-Sep-2020 08:55:39

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Instrument ID: LC812 Start Date: 09/22/2020 19:05Analysis Batch Number: 159115 End Date: 09/22/2020 20:36

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/22/2020 19:05	1		C-18 4.6 (mm)
ZZZZZ		09/22/2020 19:13	1		C-18 4.6 (mm)
ZZZZZ		09/22/2020 19:22	1		C-18 4.6 (mm)
IC 200-159115/5		09/22/2020 19:30	1	PA200922ICAL05. d	C-18 4.6 (mm)
IC 200-159115/6		09/22/2020 19:38	1	PA200922ICAL06. d	C-18 4.6 (mm)
IC 200-159115/7		09/22/2020 19:47	1	PA200922ICAL07. d	C-18 4.6 (mm)
ICIS 200-159115/8		09/22/2020 19:55	1	PA200922ICAL08. d	C-18 4.6 (mm)
IC 200-159115/9		09/22/2020 20:03	1	PA200922ICAL09. d	C-18 4.6 (mm)
IC 200-159115/10		09/22/2020 20:11	1	PA200922ICAL10. d	C-18 4.6 (mm)
ICB 200-159115/11		09/22/2020 20:20	1	PA200922ICAL11. d	C-18 4.6 (mm)
ICV 200-159115/12		09/22/2020 20:28	1	PA200922ICAL12. d	C-18 4.6 (mm)
ZZZZZ		09/22/2020 20:36	1		C-18 4.6 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175175-1

SDG No.: _____

Instrument ID: LC812 Start Date: 09/24/2020 11:23Analysis Batch Number: 159162 End Date: 09/24/2020 13:44

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/24/2020 11:23	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 11:32	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 11:40	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 11:48	1		C-18 4.6 (mm)
CCVL 200-159162/5		09/24/2020 11:56	1	PA200924A05.d	C-18 4.6 (mm)
CCVIS 200-159162/6		09/24/2020 12:05	1	PA200924A06.d	C-18 4.6 (mm)
ZZZZZ		09/24/2020 12:13	5		C-18 4.6 (mm)
ZZZZZ		09/24/2020 12:21	10		C-18 4.6 (mm)
ZZZZZ		09/24/2020 12:30	5		C-18 4.6 (mm)
ZZZZZ		09/24/2020 12:38	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 12:46	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 12:54	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 13:03	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 13:11	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 13:19	1		C-18 4.6 (mm)
200-54650-A-8-B MDLV		09/24/2020 13:28	1		C-18 4.6 (mm)
200-54650-A-9-B MDLV		09/24/2020 13:36	1		C-18 4.6 (mm)
CCV 200-159162/18		09/24/2020 13:44	1		C-18 4.6 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BurlingtonJob No.: 480-175175-1

SDG No.: _____

Instrument ID: LC812Start Date: 09/24/2020 16:13Analysis Batch Number: 159169End Date: 09/24/2020 20:05

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-159169/1		09/24/2020 16:13	1	PA200924B01.d	C-18 4.6 (mm)
MB 200-159139/1-A		09/24/2020 16:21	1	PA200924B02.d	C-18 4.6 (mm)
LCS 200-159139/2-A		09/24/2020 16:30	1	PA200924B03.d	C-18 4.6 (mm)
ZZZZZ		09/24/2020 16:38	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 16:46	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 16:55	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 17:03	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 17:11	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 17:20	1		C-18 4.6 (mm)
480-175175-1	CC-MW-1	09/24/2020 17:28	1	PA200924B10.d	C-18 4.6 (mm)
480-175175-1 MS	CC-MW-1 MS	09/24/2020 17:36	1	PA200924B11.d	C-18 4.6 (mm)
480-175175-1 MSD	CC-MW-1 MSD	09/24/2020 17:44	1	PA200924B12.d	C-18 4.6 (mm)
480-175175-2	CC-MW-2	09/24/2020 17:53	1	PA200924B13.d	C-18 4.6 (mm)
480-175175-5	CC-MW-4	09/24/2020 18:01	1	PA200924B14.d	C-18 4.6 (mm)
480-175175-7	CC-EQUIPMENT BLANK	09/24/2020 18:09	1	PA200924B15.d	C-18 4.6 (mm)
CCV 200-159169/16		09/24/2020 18:18	1	PA200924B16.d	C-18 4.6 (mm)
ZZZZZ		09/24/2020 18:26	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 18:34	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 18:43	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 18:51	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 18:59	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 19:07	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 19:16	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 19:24	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 19:32	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 19:41	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 19:49	1		C-18 4.6 (mm)
ZZZZZ		09/24/2020 19:57	5		C-18 4.6 (mm)
CCV 200-159169/29		09/24/2020 20:05	1		C-18 4.6 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-175175-1

SDG No.: _____

Batch Number: 159139 Batch Start Date: 09/24/20 07:00 Batch Analyst: Bourdeau, Timothy PBatch Method: 3535 Batch End Date: 09/24/20 08:10

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCPFC32MTXStk 00026	LCPFCIDASPK 00003
MB 200-159139/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL		25 uL
LCS 200-159139/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	25 uL
480-175175-C-1	CC-MW-1	3535, 537 (modified)	T	302.61 g	26.01 g	276.6 mL	10 mL		25 uL
480-175175-C-1 MS	CC-MW-1	3535, 537 (modified)	T	309.40 g	26.01 g	283.4 mL	10 mL	25 uL	25 uL
480-175175-C-1 MSD	CC-MW-1	3535, 537 (modified)	T	308.18 g	26.28 g	281.9 mL	10 mL	25 uL	25 uL
480-175175-C-2	CC-MW-2	3535, 537 (modified)	T	307.95 g	26.63 g	281.3 mL	10 mL		25 uL
480-175175-D-5	CC-MW-4	3535, 537 (modified)	T	307.33 g	26.72 g	280.6 mL	10 mL		25 uL
480-175175-A-7	CC-EQUIPMENT BLANK	3535, 537 (modified)	T	305.75 g	26.29 g	279.5 mL	10 mL		25 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00024					
MB 200-159139/1		3535, 537 (modified)		10 uL					
LCS 200-159139/2		3535, 537 (modified)		10 uL					
480-175175-C-1	CC-MW-1	3535, 537 (modified)	T	10 uL					
480-175175-C-1 MS	CC-MW-1	3535, 537 (modified)	T	10 uL					
480-175175-C-1 MSD	CC-MW-1	3535, 537 (modified)	T	10 uL					
480-175175-C-2	CC-MW-2	3535, 537 (modified)	T	10 uL					
480-175175-D-5	CC-MW-4	3535, 537 (modified)	T	10 uL					
480-175175-A-7	CC-EQUIPMENT BLANK	3535, 537 (modified)	T	10 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.

537 (modified)

Page 1 of 2

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-175175-1

SDG No.: _____

Batch Number: 159139 Batch Start Date: 09/24/20 07:00 Batch Analyst: Bourdeau, Timothy PBatch Method: 3535 Batch End Date: 09/24/20 08:10

Batch Notes	
Balance ID	M02926
Manifold ID	IDA 3 & 4
Rinse Solvent Lot	1415604
Rinse Solvent Name	Hexane
Solvent Lot #	1423365
Solvent Name	Methanol (0.3% NH4OH)
SPE Cartridge Lot ID	Lot 005339338A
SPE Cartridge Type	Oasis WAX 500 mg
Analyst ID - Spike Analyst	TPB
Analyst ID - Spike Witness Analyst	FC

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.

Subcontract Data

Shipping and Receiving Documents

[illegible]



Environment Testing
TestAmerica

Part # 159469-434 RIT2 EXP 04/21 ••

ORIGIN ID:SYRA (315) 431-0171
SYR SERVICE CENTER
EUROFINS TESTAMERICA
118 BOSS RD

SYRACUSE, NY 13211
UNITED STATES US

SHIP DATE: 16SEP20
ACTWGT: 12.00 LB MAN
CAD: 0883373/CAFE3407

BILL RECIPIENT

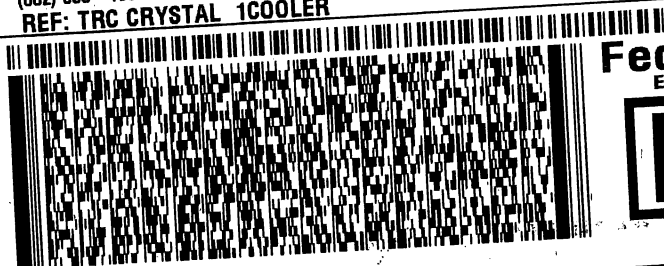
2850/5P51/53095

TO **SAMPLE RECEIVING
TESTAMERICA BURLINGTON
30 COMMUNITY DRIVE SUITE 11**

SOUTH BURLINGTON VT 05403

(802) 660-1980

REF: TRC CRYSTAL 1COOLER



FedEx
Express



AN10901161010127

TRK# 1870 7198 3877
0201

**THU - 17 SEP 10:30A
PRIORITY OVERNIGHT**

NL BTVA

**05403
VT-US BTV**



Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-175175-1

Login Number: 175175

List Number: 1

Creator: Yeager, Brian A

List Source: Eurofins TestAmerica, Buffalo

Question	Answer	Comment
Radioactivity either was not measured or, if measured, is at or below background	True	
The cooler's custody seal, if present, is intact.	True	
The cooler or samples do not appear to have been compromised or tampered with.	True	
Samples were received on ice.	True	
Cooler Temperature is acceptable.	True	
Cooler Temperature is recorded.	True	
COC is present.	True	
COC is filled out in ink and legible.	True	
COC is filled out with all pertinent information.	True	
Is the Field Sampler's name present on COC?	True	
There are no discrepancies between the sample IDs on the containers and the COC.	True	
Samples are received within Holding Time (Excluding tests with immediate HTs)..	True	
Sample containers have legible labels.	True	
Containers are not broken or leaking.	True	
Sample collection date/times are provided.	True	
Appropriate sample containers are used.	True	
Sample bottles are completely filled.	True	
Sample Preservation Verified	True	
There is sufficient vol. for all requested analyses, incl. any requested MS/MSDs	True	
VOA sample vials do not have headspace or bubble is <6mm (1/4") in diameter.	True	
If necessary, staff have been informed of any short hold time or quick TAT needs	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Sampling Company provided.	True	TRC
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: New York State D.E.C.

Job Number: 480-175175-1

Login Number: 175175

List Number: 2

Creator: Jaffe, Nat S

List Source: Eurofins TestAmerica, Burlington

List Creation: 09/18/20 08:18 AM

Question	Answer	Comment
Radioactivity wasn't checked or is $\leq$ background as measured by a survey meter.	N/A	Lab does not accept radioactive samples.
The cooler's custody seal, if present, is intact.	True	
Sample custody seals, if present, are 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	2.1°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?	True	CS
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.	N/A	
Sample Preservation Verified.	True	
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	