



**PRECISION**  
ENVIRONMENTAL SERVICES, INC.

831 RT. 67, LOT 38 A  
BALLSTON SPA, NY 12020  
TEL: 518-885-4399  
FAX: 518-885-4416

CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE



December 18, 2020

Mr. Mark Domaracki  
New York State Department of Environmental Conservation  
Division of Environmental Remediation  
625 Broadway  
Albany, New York 12233-7014

Re: OFF-SITE Flamingo Cleaners, Emerging Contaminant Well Sampling  
149 North Avenue, New Rochelle, NY  
***NYSDEC Site No. C360078A, PES Contract No. C100614***

Mr. Domaracki:

On September 24, 2020 Precision Environmental Services (PES) visited the OFF-SITE Flamingo Cleaners site (the Site) to sample six monitoring wells for Per- & polyfluoroalkyl substances (PFAS) and 1,4-dioxane. Prior to mobilization to the Site PES obtained the necessary permit from the City of New Rochelle Department of Public Works.

A total of six (6) monitoring wells (MW-1B, MW-3, MW-3B, MW-4, MW-5, and MW-5B) were gauged to determine the depth to groundwater. In addition to gauging, all six monitoring wells were purged and sampled on September 24, 2020 for emerging contaminant analysis by EPA Method 537 (Modified) for PFAS and EPA Method 8270D SIM for 1,4-dioxane. Samples were collected using low flow techniques. The pre-collection field parameters are presented on attached sampling logs. All secured groundwater samples were obtained by aseptic techniques to prevent cross-contamination, labeled, and placed on iced storage for subsequent submission under chain of custody to Eurofins Test America. The resulting analytical data was summarized and utilized to construct the Summary of Groundwater Analytical Results included as Table 1 and Analytical Results map included as Figure 1. As requested, PES also includes the laboratory Category B data package and data useability report in attachment.

Should you have any questions regarding the work completed by PES please contact me at directly at (518) 885-4399.

Sincerely,  
**Precision Environmental Services, Inc.**

Brian Neumann  
Project Manager

Attachments: Figure, Table, Logs, Cat B Lab Package & DUSR

Figure



PRECISION ENVIRONMENTAL SERVICES, INC  
 831 NYS Route 67, Lot 38A  
 Ballston Spa, NY 12020  
 518-885-4399



## Analytical Results

Flamingo Cleaners  
 149 North Ave.  
 New Rochelle, NY

Date: December - 2020

Scale - See Bar Scale

NYS DEC Site No. C360078A

### LEGEND

- Monitoring Well (Historic).

Updated By : JJJ

Figure: 1

Table

**TABLE**  
Summary of Monitoring Well Data  
OFF-SITE Flamingo Cleaners  
NYSDEC Site No. C360078A

OFF-SITE Flamingo Cleaners 149 North Avenue, New Rochelle, NY		Sample Identification								
		MW-1B	MW-3	MW-3B	MW-4	MW-5	Duplicate (MW-5)	MW-5B	Equipment Blank	NYS MCLs
Sample Collection Date		9/24/2020								
Analyte	Method									
1,4-Dioxane (measured in ug/L)	8270D SIM ID	0.098	ND	0.24	ND	ND	0.12	ND	0.41	1
Perfluorobutanoic acid (PFBA)	Modified 537	9.90	12.00	6.40	26.00	20.00	20.00	16.00	ND	100
Perfluoropentanoic acid (PFPeA)		22.00	29.00	12.00	27.00	21.00	22.00	16.00	ND	100
Perfluorohexanoic acid (PFHxA)		20.00	20.00	11.00	39.00	18.00	17.00	13.00	ND	100
Perfluoroheptanoic acid (PFHpA)		14.00	11.00	9.10	14.00	14.00	14.00	12.00	ND	100
Perfluorooctanoic acid (PFOA)		40.00	16.00	32.00	43.00	56.00	51.00	39.00	ND	10
Perfluorononanoic acid (PFNA)		5.90	5.10	2.20	2.80	3.30	3.00	5.30	ND	100
Perfluorodecanoic acid (PFDA)		0.74	2.50	0.44	0.84	ND	ND	ND	ND	100
Perfluoroundecanoic acid (PFUnA)		ND	ND	0.68	ND	ND	ND	ND	ND	100
Perfluorododecanoic acid (PFDoA)		ND	ND	ND	ND	ND	ND	ND	ND	100
Perfluorotridecanoic acid (PFTriA)		ND	ND	ND	ND	ND	ND	ND	ND	100
Perfluorotetradecanoic acid (PFTeA)		ND	ND	ND	ND	ND	ND	ND	ND	100
Perfluorobutanesulfonic acid (PFBS)		5.70	10.00	4.70	17.00	25.00	28.00	17.00	ND	100
Perfluorohexanesulfonic acid (PFHxS)		0.73	3.90	8.40	8.50	4.80	5.20	3.10	ND	100
Perfluoroheptanesulfonic acid (PFHpS)		ND	0.82	0.71	0.46	1.30	1.10	0.49	ND	100
Perfluorodecanesulfonic acid (PFDS)		ND	0.62	ND	ND	ND	ND	ND	ND	100
Perfluorooctanesulfonic acid (PFOS)		13.00	54.00	14.00	16.00	53.00	51.00	30.00	ND	10
Perfluorooctanesulfonamide (FOSA)		ND	ND	ND	ND	ND	ND	ND	ND	100
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)		ND	ND	ND	ND	ND	ND	ND	ND	100
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)		ND	ND	ND	ND	ND	ND	ND	ND	100
6:2 FTS		ND	ND	2.20	1.10	ND	ND	0.92	ND	100
8:2 FTS	ND	ND	ND	ND	ND	ND	ND	ND	100	
<b>Total incl PFOA &amp; PFOS</b>		<b>131.97</b>	<b>164.94</b>	<b>103.83</b>	<b>195.70</b>	<b>216.40</b>	<b>212.30</b>	<b>152.81</b>	<b>0.00</b>	<b>500</b>

**NOTES:**

Sampling performed by Precision Environmental Services, Inc.  
All values are reported in ng/L - parts per trillion (ppt), unless otherwise noted.  
Analytical Facility - TestAmerica Laboratories  
ND indicates values reported below the laboratory minimum detection limits  
Values in **BOLD** indicate values reported above the laboratory minimum detection limits  
**BLUE** indicates value detected above method detection level, but deemed unreliable by third party validator  
**RED** analyte is present but reported value may be associated with a higher level of uncertainty than is expected with the method  
**YELLOW** highlight indicates concentration exceeds MCL

Attachment - Logs



**PRECISION ENVIRONMENTAL SERVICES, INC**

831 RT. 67, LOT 36A  
BALLSTON SPA, NY 12020  
TEL: 518-885-4399  
FAX: 518-885-4418

CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE

**GROUND WATER MONITOR WELL FIELD DATA SHEET**

Project Name: Flamingo Cleaners Project Number: C360078A Well ID: MW-5B (4")

Weather: 55° clear

WATER LEVEL DATA Date: 9/14/2020 Time: 8:53 Well Locked? Yes  No

(a) Total Sounded Well Depth 31.7 (feet) \*Volume Factors: 2-inch well = 0.163 gal/ft  
(b) Depth to Water (below measuring point) 12.73 (feet) (circle one) 4-inch well = 0.653 gal/ft  
(c) Height of Water Column 18.97 (feet) 6-inch well = 1.468 gal/ft  
8-inch well = 2.611 gal/ft

Well Volume ((c) x volume factor\*) = \_\_\_\_\_ feet x \_\_\_\_\_ gallons/foot = \_\_\_\_\_ gallons

PURGE DATA Date: 9/16/2020 Time: \_\_\_\_\_ start \_\_\_\_\_ finish

Method: peri-pump  
(Water, bailer, submersible pump, etc.)

Purge Volume (3 to 5 times well volume) = \_\_\_\_\_ volumes x \_\_\_\_\_ gallons/volume = 37 gallons

Did well dry out? Yes  No  Number of times \_\_\_\_\_ Actual Volume Removed: \_\_\_\_\_ gallons

**PURGE/SAMPLING DATA**

Time	Temp	pH	Conductivity	DO	ORP	Turbidity
9:09	16.93	6.72	1.77	5.61	-74	6.4
9:24	17.7	6.83	1.69	4.75	-150	12.5
9:32	17.9	6.92	1.62	4.50	-170	29.6
9:45	18.5	7.03	1.60	4.52	-157	32.5
9:52	18.8	6.92	1.64	4.42	-154	3.1

Appearance (visual turbidity) slight Color clear Odor None

Sampling Method: tubing

Constituents Sampled	Container Description	Preservative	Filtered?
<u>MW-5B</u>	<u>9:56 am</u>	<u>-</u>	yes <input type="checkbox"/> no <input checked="" type="checkbox"/>
<u>MS</u>	<u>10:05 am</u>	<u>-</u>	yes <input type="checkbox"/> no <input checked="" type="checkbox"/>
<u>MSD</u>	<u>10:15 am</u>	<u>-</u>	yes <input type="checkbox"/> no <input checked="" type="checkbox"/>

**COMMENTS**

\_\_\_\_\_

Personnel: MB



**PRECISION ENVIRONMENTAL SERVICES, INC**

831 RT. 67, LOT 38 A  
BALLSTON SPA, NY 12020  
TEL: 518-885-4399  
FAX: 518-885-4416

CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE

**GROUND WATER MONITOR WELL FIELD DATA SHEET**

Project Name: Flamingo Meadows Project Number: C300078A Well ID: MW-5 (2")

Weather: 60° clear

WATER LEVEL DATA Date: 9/24/02 Time: 9:10

Well Locked? Yes  No

(a) Total Sounded Well Depth 15.15 (feet)

\*Volume Factors (circle one) 2-inch well = 0.163 gal/ft

(b) Depth to Water (below measuring point) 10.32 (feet)

4-inch well = 0.653 gal/ft

(c) Height of Water Column 4.83 (feet)

6-inch well = 1.468 gal/ft

8-inch well = 2.611 gal/ft

Well Volume ((c) x volume factor\*) = \_\_\_\_\_ feet x \_\_\_\_\_ gallons/foot = 0.79 gallons

PURGE DATA Date: 9/24/02 Time: \_\_\_\_\_ start \_\_\_\_\_ finish

Method: peri-pump  
(Water, bailer, submersible pump, etc.)

Purge Volume (3 to 5 times well volume) = \_\_\_\_\_ volumes x \_\_\_\_\_ gallons/volume = 2.37 gallons

Did well dry out? Yes  No  Number of times \_\_\_\_\_ Actual Volume Removed: \_\_\_\_\_ gallons

**PURGE/SAMPLING DATA**

Time	Temp	pH	Conductivity	DO	ORP	Turbidity
10:30	20.29	6.64	0.907	3.20	-101	138
10:35	20.34	6.48	0.848	3.30	-95	18.7
10:40	20.28	6.35	0.846	3.06	-91	7.7
10:42	20.15	6.36	0.812	2.90	-85	4
10:45	20.18	6.29	0.871	2.70	-76	1.2
10:50	20.16	6.27	0.872	2.68	-71	1.1

Appearance (visual turbidity) \_\_\_\_\_ Color \_\_\_\_\_ Odor \_\_\_\_\_

Sampling Method: tubing

Constituents Sampled	Container Description	Preservative	Filtered?
<u>MW-5</u>	<u>10:55 am</u>	<u>-</u>	yes <input type="checkbox"/> no <input checked="" type="checkbox"/>
<u>DUP</u>	<u>11:05 am</u>	<u>-</u>	yes <input type="checkbox"/> no <input checked="" type="checkbox"/>
			yes <input type="checkbox"/> no <input type="checkbox"/>

**COMMENTS**

\_\_\_\_\_  
\_\_\_\_\_

Personnel: MR





**PRECISION ENVIRONMENTAL SERVICES, INC**

631 RT 67, LOT 38 A  
BALLSTON SPA, NY 12020  
TEL: 518-685-4399  
FAX: 518-685-4416

CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE

**GROUND WATER MONITOR WELL FIELD DATA SHEET**

Project Name: Flamingo Project Number: C360078A Well ID: MW-3B(2")

Weather: 70° sunny

WATER LEVEL DATA Date: 9/24/2020 Time: 11:20 Well Locked? Yes  No

(a) Total Sounded Well Depth 45.9 (feet) \*Volume Factors: 2-inch well = 0.163 gal/ft  
(circle one) 4-inch well = 0.653 gal/ft  
(b) Depth to Water (below measuring point) 10.22 (feet) 6-inch well = 1.468 gal/ft  
(c) Height of Water Column 35.68 (feet) 8-inch well = 2.611 gal/ft

Well Volume ((c) x volume factor\*) = \_\_\_\_\_ feet x \_\_\_\_\_ gallons/foot = 5.92 gallons

PURGE DATA Date: 9/24/20 Time: \_\_\_\_\_ start \_\_\_\_\_ finish

Method: perc-pump  
(Water, bailer, submersible pump, etc.)

Purge Volume (3 to 5 times well volume) = \_\_\_\_\_ volumes x \_\_\_\_\_ gallons/volume = 17.46 gallons

Did well dry out? Yes \_\_\_\_\_ No \_\_\_\_\_ Number of times \_\_\_\_\_ Actual Volume Removed: \_\_\_\_\_ gallons

**PURGE/SAMPLING DATA**

Time	Temp	pH	Conductivity	DO	ORP	Turbidity
11:40	20.30	6.43	1.51	2.80	-61	251
11:48	20.24	6.35	1.49	2.77	-63	92
12:00	20.26	6.23	1.50	2.85	-58	92
12:08	20.35	6.24	1.51	2.87	-55	46
12:15	20.27	6.20	1.52	2.86	-53	43

Appearance (visual turbidity) \_\_\_\_\_ Color \_\_\_\_\_ Odor \_\_\_\_\_

Sampling Method: tubing

Constituents Sampled	Container Description	Preservative	Filtered?
<u>MW-3B</u>	<u>12:30pm</u>	<u>-</u>	yes <input type="checkbox"/> no <input type="checkbox"/>
_____	_____	_____	yes <input type="checkbox"/> no <input type="checkbox"/>
_____	_____	_____	yes <input type="checkbox"/> no <input type="checkbox"/>

**COMMENTS**

\_\_\_\_\_

Personnel: MB



**PRECISION ENVIRONMENTAL SERVICES, INC**

831 RT. 67, LOT 38-A  
BALLSTON SPA, NY 12020  
TEL: 518-885-4399  
FAX: 518-885-4416

CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE

**GROUND WATER MONITOR WELL FIELD DATA SHEET**

Project Name: Flamingo Project Number: C360078A Well ID: MW-3

Weather: 70' sunny

WATER LEVEL DATA Date: 9/24/20 Time: 11:23 Well Locked? Yes X No     

(a) Total Sounded Well Depth 17.3 (feet) \*Volume Factors: 2-inch well = 0.163 gal/ft  
(circle one) 4-inch well = 0.653 gal/ft

(b) Depth to Water (below measuring point) 9.78 (feet) 6-inch well = 1.468 gal/ft

(c) Height of Water Column 7.52 (feet) 8-inch well = 2.611 gal/ft

Well Volume ((c) x volume factor\*) =      feet x      gallons/foot = 1.23 gallons

PURGE DATA Date: 9/24/20 Time:      start      finish     

Method: per pump  
(Water, bailer, submersible pump, etc.)

Purge Volume (3 to 5 times well volume) =      volumes x      gallons/volume = 3.69 gallons

Did well dry out? Yes      No      Number of times      Actual Volume Removed:      gallons

**PURGE/SAMPLING DATA**

Time	Temp	pH	Conductivity	DO	ORP	Turbidity
12:40	22.28	6.28	5.36	5.28	-32	350
12:45	22.03	6.54	3.65	5.60	-42	108
12:50	22.0	6.60	3.70	5.40	-30	82
12:55	21.98	6.56	3.72	5.39	-28	42

Appearance (visual turbidity)      Color      Odor     

Sampling Method:  tubing

Constituents Sampled	Container Description	Preservative	Filtered?
<u>MW-3</u>	<u>1305</u>	<u>    </u>	yes <u>    </u> no <u>X</u>
<u>    </u>	<u>    </u>	<u>    </u>	yes <u>    </u> no <u>    </u>
<u>    </u>	<u>    </u>	<u>    </u>	yes <u>    </u> no <u>    </u>

**COMMENTS**

Personnel: MB



**PRECISION ENVIRONMENTAL SERVICES, INC**

831 RT. 67 LOT 38 A  
BALLSTON SPA, NY 12020  
TEL: 518-885-4399  
FAX: 518-885-4416

CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE

**GROUND WATER MONITOR WELL FIELD DATA SHEET**

Project Name: Flamingo Project Number: C30078A Well ID: MW-4 (2")

Weather: 75° cloudy

WATER LEVEL DATA Date: 9/24/2020 Time: \_\_\_\_\_ Well Locked? Yes  No \_\_\_\_\_

(a) Total Sounded Well Depth 18.90 (feet) \*Volume Factors: 2-Inch well = 0.163 gal/ft  
(b) Depth to Water (below measuring point) 8.92 (feet) (circle one) 4-inch well = 0.653 gal/ft  
(c) Height of Water Column 9.98 (feet) 6-inch well = 1.468 gal/ft  
8-inch well = 2.611 gal/ft

Well Volume ((c) x volume factor\*) = \_\_\_\_\_ feet x \_\_\_\_\_ gallons/foot = 1.63 gallons

PURGE DATA Date: 9/24/2020 Time: \_\_\_\_\_ start \_\_\_\_\_ finish \_\_\_\_\_

Method: per pump  
(Water, bailer, submersible pump, etc.)

Purge Volume (3 to 5 times well volume) = \_\_\_\_\_ volumes x \_\_\_\_\_ gallons/volume = 4.89 gallons

Did well dry out? Yes \_\_\_\_\_ No \_\_\_\_\_ Number of times \_\_\_\_\_ Actual Volume Removed: \_\_\_\_\_ gallons

**PURGE/SAMPLING DATA**

Time	Temp	pH	Conductivity	DO	ORP	Turbidity
13:34	21.72	6.37	2.38	2.26	25	200
13:38	21.36	6.45	2.10	2.40	24	44
13:42	21.30	6.44	2.12	2.50	24	30
13:46	21.31	6.43	2.12	2.18	25	17

Appearance (visual turbidity) \_\_\_\_\_ Color \_\_\_\_\_ Odor \_\_\_\_\_

Sampling Method: tubing

Constituents Sampled	Container Description	Preservative	Filtered?
<u>MW-4</u>	<u>13:50</u>	<u>-</u>	yes ___ no <input checked="" type="checkbox"/>
<u>Equip Blank</u>	<u>13:30</u>	<u>-</u>	yes ___ no <input checked="" type="checkbox"/>
			yes ___ no ___

**COMMENTS**

\_\_\_\_\_

Personnel: MB



**PRECISION ENVIRONMENTAL SERVICES, INC**

831 RT. 67, LOT 38 A  
BALLSTON SPA, NY 12020  
TEL: 518-885-4399  
FAX: 518-885-4416

CERTIFIED WOMEN-OWNED BUSINESS ENTERPRISE

**GROUND WATER MONITOR WELL FIELD DATA SHEET**

Project Name: Flamingo Project Number: C360078A Well ID: MW-113(4")

Weather: 75° cloudy

WATER LEVEL DATA Date: 9/24/2020 Time: \_\_\_\_\_ Well Locked? Yes \_\_\_\_\_ No \_\_\_\_\_

(a) Total Sounded Well Depth 27.6 (feet) \*Volume Factors: 2-inch well = 0.163 gal/ft  
(circle one) 4-inch well = 0.653 gal/ft  
(b) Depth to Water (below measuring point) 9.77 (feet) 6-inch well = 1.468 gal/ft  
8-inch well = 2.611 gal/ft  
(c) Height of Water Column \_\_\_\_\_ (feet)

Well Volume ((c) x volume factor\*) = \_\_\_\_\_ feet x \_\_\_\_\_ gallons/foot = 11.6 gallons

PURGE DATA Date: 9/24/20 Time: \_\_\_\_\_ start \_\_\_\_\_ finish

Method: per pump  
(Water, bailer, submersible pump, etc.)

Purge Volume (3 to 5 times well volume) = \_\_\_\_\_ volumes x \_\_\_\_\_ gallons/volume = 34.9 gallons

Did well dry out? Yes \_\_\_\_\_ No \_\_\_\_\_ Number of times \_\_\_\_\_ Actual Volume Removed: \_\_\_\_\_ gallons

**PURGE/SAMPLING DATA**

Time	Temp	pH	Conductivity	DO	ORP	Turbidity
14:25	20.44	6.94	0.916	2.10	-200	165
14:30	19.85	7.10	0.908	1.90	-205	129
14:36	19.66	7.10	0.910	1.91	-197	98
14:41	19.68	7.09	0.912	1.89	-196	75
14:46	19.74	7.07	0.914	1.92	-198	62.5
14:51	19.72	7.07	0.913	1.91	-198	48.3
15:00	19.71	7.08	0.913	1.92	-197	42.5

Appearance (visual turbidity) \_\_\_\_\_ Color \_\_\_\_\_ Odor \_\_\_\_\_

Sampling Method: grab

Constituents Sampled	Container Description	Preservative	Filtered?
<u>MW-113</u>	<u>15:11</u>	<u>-</u>	yes ___ no <u>X</u>
_____	_____	_____	yes ___ no ___
_____	_____	_____	yes ___ no ___

**COMMENTS**

\_\_\_\_\_

Personnel: MB

Attachment – Eurofins Laboratory Category B Package

## ANALYTICAL REPORT

Job Number: 480-175657-1

Job Description: Off-Site Flamingo Cleaners #C360078A

Contract Number: C100700

For:

New York State D.E.C.

625 Broadway

11th Floor

Albany, NY 12233-3256

Attention: Salvatore Priore



Approved for release.  
Joshua M Velez  
Project Management Assistant I  
10/8/2020 3:44 PM

---

Designee for  
Judy L Stone, Senior Project Manager  
10 Hazelwood Drive, Amherst, NY, 14228-2298  
(484)685-0868  
Judy.Stone@Eurofinset.com  
10/08/2020

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](http://www.testamericainc.com)



Job Number: 480-175657-1

Job Description: Off-Site Flamingo Cleaners #C360078A

I certify that this data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed within the body of this report. Release of the data contained in this sample data package and in the electronic data deliverable has been authorized by the Laboratory Manager or his/her designee, as verified by the following signature.

A handwritten signature in black ink that reads "Joshua M Velez". The signature is written in a cursive style and is contained within a white rectangular box.

Approved for release.  
Joshua M Velez  
Project Management Assistant I  
10/8/2020 3:44 PM

---

Designee for  
Judy L Stone

# Table of Contents

Cover Title Page . . . . .	1
Data Summaries . . . . .	5
Report Narrative . . . . .	5
Sample Summary . . . . .	6
Detection Summary . . . . .	7
Method Summary . . . . .	10
Client Sample Results . . . . .	11
Isotope Dilution Summary . . . . .	21
QC Sample Results . . . . .	23
Definitions . . . . .	29
QC Association . . . . .	30
Chronicle . . . . .	32
Certification Summary . . . . .	34
Organic Sample Data . . . . .	35
GC/MS Semi VOA . . . . .	35
Method 8270D SIM-ID . . . . .	35
Method 8270D SIM-ID QC Summary . . . . .	36
Method 8270D SIM-ID Sample Data . . . . .	45
Standards Data . . . . .	82
Method 8270D SIM-ID ICAL Data . . . . .	82
Method 8270D SIM-ID CCAL Data . . . . .	96
Raw QC Data . . . . .	102
Method 8270D SIM-ID Tune Data . . . . .	102
Method 8270D SIM-ID Blank Data . . . . .	116
Method 8270D SIM-ID LCS/LCSD Data . . . . .	120
Method 8270D SIM-ID MS/MSD Data . . . . .	123



# Table of Contents

Method 8270D SIM-ID Run Logs .....	129
Method 8270D SIM-ID Prep Data .....	131
<b>LCMS</b> .....	<b>133</b>
<b>PFC_IDA</b> .....	<b>133</b>
PFC_IDA QC Summary .....	134
PFC_IDA Sample Data .....	151
Standards Data .....	503
PFC_IDA ICAL Data .....	503
PFC_IDA CCAL Data .....	613
Raw QC Data .....	956
PFC_IDA Blank Data .....	956
PFC_IDA LCS/LCSD Data .....	1047
PFC_IDA MS/MSD Data .....	1071
PFC_IDA Run Logs .....	1141
PFC_IDA Prep Data .....	1145
<b>Subcontracted Data</b> .....	<b>1148</b>
<b>Shipping and Receiving Documents</b> .....	<b>1149</b>
Client Chain of Custody .....	1150
Sample Receipt Checklist .....	1153

**Job Narrative**  
**480-175657-1**

**Comments**

No additional comments.

**Receipt**

The samples were received on 9/26/2020 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 3.8° C and 4.2° C.

**GC/MS Semi VOA**

Method 8270D SIM ID: The 1,4-Dioxane result reported for sample MW-5B (480-175657-6[MS]) have an E flag qualifier indicating the results are over the calibration range on the raw data. The actual amounts are within the calibration range; however, the E flag is generated based upon the bias corrected concentration. The LIMS system calculates a bias correction based on the recovery of the 1,4-Dioxane-d8 isotope.

Method 8270D SIM ID: The breakdown of 4,4'-DDT in the tuning evaluation exceeded 20%. Breakdown is not a criteria of the method but rather an internal check performed by the laboratory to evaluate the peak shape of 1,4-Dioxane and 1,4-Dioxane-d8. No adverse performance was observed and QC recoveries were in control. The data have been reported. (DFTPP 480-552087/2)

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

**LCMS**

Method 537 (modified): 13C2 PFTeDA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: (MB 200-159386/1-A). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): d3-NMeFOSAA and 13C2 PFUnA Isotope Dilution Analyte (IDA) recoveries associated with the following sample are below the method recommended limit: MW-1B (480-175657-1). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): d3-NMeFOSAA, d5-NEtFOSAA and 13C2 PFUnA Isotope Dilution Analyte (IDA) recoveries associated with the following sample are below the method recommended limit: MW-3 (480-175657-2). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

Method 537 (modified): d3-NMeFOSAA Isotope Dilution Analyte (IDA) recovery associated with the following sample is below the method recommended limit: MW-3B (480-175657-3). Generally, data quality is not considered affected if the IDA signal-to-noise ratio is greater than 10:1, which is achieved for all IDA in the sample.

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

**Organic Prep**

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

# Sample Summary

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

---

---

Lab Sample ID	Client Sample ID	Matrix	Collected	Received	Asset ID
480-175657-1	MW-1B	Water	09/24/20 15:00	09/26/20 08:00	
480-175657-2	MW-3	Water	09/24/20 13:05	09/26/20 08:00	
480-175657-3	MW-3B	Water	09/24/20 12:30	09/26/20 08:00	
480-175657-4	MW-4	Water	09/24/20 15:11	09/26/20 08:00	
480-175657-5	MW-5	Water	09/24/20 10:55	09/26/20 08:00	
480-175657-6	MW-5B	Water	09/24/20 09:56	09/26/20 08:00	
480-175657-7	DUPLICATE	Water	09/24/20 12:05	09/26/20 08:00	
480-175657-8	EQUIPMENT BLANK	Water	09/24/20 13:30	09/26/20 08:00	

# Detection Summary

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## Client Sample ID: MW-1B

## Lab Sample ID: 480-175657-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.098	J	0.19	0.095	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	9.9		4.2	0.96	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	22		1.7	0.92	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	20		1.7	0.71	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	40		1.7	0.83	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.9		1.7	0.49	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.74	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	5.7		1.7	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	7.8		1.7	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.73	J	1.7	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	13		1.7	0.74	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-3

## Lab Sample ID: 480-175657-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	12		4.1	0.93	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	29		1.7	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	20		1.7	0.69	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	11		1.7	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	16		1.7	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.1		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	2.5		1.7	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	10		1.7	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.7	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.82	J	1.7	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	54		1.7	0.72	ng/L	1		537 (modified)	Total/NA
Perfluorodecanesulfonic acid (PFDS)	0.62	J	1.7	0.40	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-3B

## Lab Sample ID: 480-175657-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.24		0.19	0.095	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	6.4		4.1	0.92	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	12		1.6	0.87	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	11		1.6	0.67	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	9.1		1.6	0.37	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	32		1.6	0.79	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.2		1.6	0.47	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.44	J	1.6	0.37	ng/L	1		537 (modified)	Total/NA
Perfluoroundecanoic acid (PFUnA)	0.68	J	1.6	0.59	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	4.7		1.6	0.51	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.4		1.6	0.54	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.71	J	1.6	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	14		1.6	0.70	ng/L	1		537 (modified)	Total/NA
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.2	J	4.1	0.58	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

# Detection Summary

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## Client Sample ID: MW-4

## Lab Sample ID: 480-175657-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	26		4.3	0.96	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	27		1.7	0.92	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	39		1.7	0.71	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	43		1.7	0.84	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	2.8		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorodecanoic acid (PFDA)	0.84	J	1.7	0.39	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	8.5		1.7	0.57	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.46	J	1.7	0.33	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.74	ng/L	1		537 (modified)	Total/NA
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.1	J	4.3	0.61	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-5

## Lab Sample ID: 480-175657-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	20		4.1	0.93	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	21		1.6	0.89	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	18		1.6	0.68	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	14		1.6	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	56		1.6	0.80	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.3		1.6	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	25		1.6	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	4.8		1.6	0.55	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.3	J	1.6	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	53		1.6	0.71	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: MW-5B

## Lab Sample ID: 480-175657-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluorobutanoic acid (PFBA)	16		4.1	0.94	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	16		1.7	0.90	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	13		1.7	0.69	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanoic acid (PFHpA)	12		1.7	0.38	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	39		1.7	0.81	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	5.3		1.7	0.48	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.52	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.7	0.56	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	0.49	J	1.7	0.32	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	30		1.7	0.72	ng/L	1		537 (modified)	Total/NA
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.92	J	4.1	0.60	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: DUPLICATE

## Lab Sample ID: 480-175657-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.12	J	0.19	0.095	ug/L	1		8270D SIM ID	Total/NA
Perfluorobutanoic acid (PFBA)	20		4.3	0.97	ng/L	1		537 (modified)	Total/NA
Perfluoropentanoic acid (PFPeA)	22		1.7	0.93	ng/L	1		537 (modified)	Total/NA
Perfluorohexanoic acid (PFHxA)	17		1.7	0.71	ng/L	1		537 (modified)	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Detection Summary

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## Client Sample ID: DUPLICATE (Continued)

Lab Sample ID: 480-175657-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.40	ng/L	1		537 (modified)	Total/NA
Perfluorooctanoic acid (PFOA)	51		1.7	0.84	ng/L	1		537 (modified)	Total/NA
Perfluorononanoic acid (PFNA)	3.0		1.7	0.50	ng/L	1		537 (modified)	Total/NA
Perfluorobutanesulfonic acid (PFBS)	28		1.7	0.54	ng/L	1		537 (modified)	Total/NA
Perfluorohexanesulfonic acid (PFHxS)	5.2		1.7	0.58	ng/L	1		537 (modified)	Total/NA
Perfluoroheptanesulfonic Acid (PFHpS)	1.1	J	1.7	0.34	ng/L	1		537 (modified)	Total/NA
Perfluorooctanesulfonic acid (PFOS)	51		1.7	0.75	ng/L	1		537 (modified)	Total/NA

## Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-175657-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dioxane	0.41		0.19	0.095	ug/L	1		8270D SIM ID	Total/NA

This Detection Summary does not include radiochemical test results.

Eurofins TestAmerica, Buffalo

# Method Summary

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

---

---

<b>Method</b>	<b>Method Description</b>	<b>Protocol</b>	<b>Laboratory</b>
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

---

**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: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-1B**

**Lab Sample ID: 480-175657-1**

**Date Collected: 09/24/20 15:00**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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	0.098	J	0.19	0.095	ug/L		09/30/20 08:35	10/02/20 03:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	24		15 - 110				09/30/20 08:35	10/02/20 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.9		4.2	0.96	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluoropentanoic acid (PFPeA)	22		1.7	0.92	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorohexanoic acid (PFHxA)	20		1.7	0.71	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorooctanoic acid (PFOA)	40		1.7	0.83	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorononanoic acid (PFNA)	5.9		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorodecanoic acid (PFDA)	0.74	J	1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.62	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.50	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorobutanesulfonic acid (PFBS)	5.7		1.7	0.54	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorohexanesulfonic acid (PFHxS)	7.8		1.7	0.57	ng/L		09/30/20 13:06	10/01/20 23:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.73	J	1.7	0.33	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorooctanesulfonic acid (PFOS)	13		1.7	0.74	ng/L		09/30/20 13:06	10/01/20 23:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.48	ng/L		09/30/20 13:06	09/30/20 20:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.67	ng/L		09/30/20 13:06	09/30/20 20:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.79	ng/L		09/30/20 13:06	09/30/20 20:27	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.2	0.61	ng/L		09/30/20 13:06	09/30/20 20:27	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.56	ng/L		09/30/20 13:06	09/30/20 20:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	75		50 - 150				09/30/20 13:06	10/01/20 23:10	1
13C4 PFHpA	79		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C4 PFOA	74		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C4 PFOS	55		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C4 PFOS	59		50 - 150				09/30/20 13:06	10/01/20 23:10	1
13C5 PFNA	65		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C4 PFBA	75		25 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFHxA	81		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFDA	53		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFUnA	47	*5	50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFDoA	52		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C8 FOSA	49		25 - 150				09/30/20 13:06	09/30/20 20:27	1
13C5 PFPeA	75		25 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFTeDA	61		50 - 150				09/30/20 13:06	09/30/20 20:27	1
d3-NMeFOSAA	46	*5	50 - 150				09/30/20 13:06	09/30/20 20:27	1



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-1B**

**Lab Sample ID: 480-175657-1**

**Date Collected: 09/24/20 15:00**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	57		50 - 150	09/30/20 13:06	09/30/20 20:27	1
M2-6:2 FTS	80		25 - 150	09/30/20 13:06	09/30/20 20:27	1
M2-8:2 FTS	59		25 - 150	09/30/20 13:06	09/30/20 20:27	1
13C3 PFBS	76		50 - 150	09/30/20 13:06	09/30/20 20:27	1

**Client Sample ID: MW-3**

**Lab Sample ID: 480-175657-2**

**Date Collected: 09/24/20 13:05**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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		09/30/20 08:35	10/02/20 04:00	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	26		15 - 110	09/30/20 08:35	10/02/20 04:00	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		4.1	0.93	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluoropentanoic acid (PFPeA)	29		1.7	0.89	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorohexanoic acid (PFHxA)	20		1.7	0.69	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluoroheptanoic acid (PFHpA)	11		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorooctanoic acid (PFOA)	16		1.7	0.81	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorononanoic acid (PFNA)	5.1		1.7	0.48	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorodecanoic acid (PFDA)	2.5		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.60	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.36	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorobutanesulfonic acid (PFBS)	10		1.7	0.52	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.7	0.55	ng/L		09/30/20 13:06	10/01/20 23:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.82	J	1.7	0.32	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorooctanesulfonic acid (PFOS)	54		1.7	0.72	ng/L		09/30/20 13:06	10/01/20 23:18	1
Perfluorodecanesulfonic acid (PFDS)	0.62	J	1.7	0.40	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.47	ng/L		09/30/20 13:06	09/30/20 20:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.65	ng/L		09/30/20 13:06	09/30/20 20:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.77	ng/L		09/30/20 13:06	09/30/20 20:35	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.60	ng/L		09/30/20 13:06	09/30/20 20:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.55	ng/L		09/30/20 13:06	09/30/20 20:35	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	87		50 - 150	09/30/20 13:06	10/01/20 23:18	1
13C4 PFHpA	86		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C4 PFOA	87		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C4 PFOS	56		50 - 150	09/30/20 13:06	09/30/20 20:35	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-3**  
**Date Collected: 09/24/20 13:05**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-2**  
**Matrix: Water**

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	58		50 - 150	09/30/20 13:06	10/01/20 23:18	1
13C5 PFNA	66		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C4 PFBA	66		25 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFHxA	85		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFDA	51		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFUnA	48	*5	50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFDoA	50		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C8 FOSA	45		25 - 150	09/30/20 13:06	09/30/20 20:35	1
13C5 PFPeA	82		25 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFTeDA	57		50 - 150	09/30/20 13:06	09/30/20 20:35	1
d3-NMeFOSAA	46	*5	50 - 150	09/30/20 13:06	09/30/20 20:35	1
d5-NEtFOSAA	48	*5	50 - 150	09/30/20 13:06	09/30/20 20:35	1
M2-6:2 FTS	89		25 - 150	09/30/20 13:06	09/30/20 20:35	1
M2-8:2 FTS	56		25 - 150	09/30/20 13:06	09/30/20 20:35	1
13C3 PFBS	88		50 - 150	09/30/20 13:06	09/30/20 20:35	1

**Client Sample ID: MW-3B**  
**Date Collected: 09/24/20 12:30**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-3**  
**Matrix: Water**

**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	0.24		0.19	0.095	ug/L		09/30/20 08:35	10/02/20 04:22	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	21		15 - 110	09/30/20 08:35	10/02/20 04:22	1			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.4		4.1	0.92	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluoropentanoic acid (PFPeA)	12		1.6	0.87	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorohexanoic acid (PFHxA)	11		1.6	0.67	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluoroheptanoic acid (PFHpA)	9.1		1.6	0.37	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorooctanoic acid (PFOA)	32		1.6	0.79	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorononanoic acid (PFNA)	2.2		1.6	0.47	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorodecanoic acid (PFDA)	0.44	J	1.6	0.37	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluoroundecanoic acid (PFUnA)	0.68	J	1.6	0.59	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.37	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorobutanesulfonic acid (PFBS)	4.7		1.6	0.51	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorohexanesulfonic acid (PFHxS)	8.4		1.6	0.54	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.71	J	1.6	0.32	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorooctanesulfonic acid (PFOS)	14		1.6	0.70	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.46	ng/L		09/30/20 13:06	09/30/20 20:43	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-3B**

**Lab Sample ID: 480-175657-3**

**Date Collected: 09/24/20 12:30**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.64	ng/L		09/30/20 13:06	09/30/20 20:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.75	ng/L		09/30/20 13:06	09/30/20 20:43	1
<b>1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)</b>	<b>2.2</b>	<b>J</b>	4.1	0.58	ng/L		09/30/20 13:06	09/30/20 20:43	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.53	ng/L		09/30/20 13:06	09/30/20 20:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	57		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C4 PFHpA	62		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C4 PFOA	58		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C4 PFOS	50		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C5 PFNA	50		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C4 PFBA	49		25 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFHxA	59		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFDA	51		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFUnA	96		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFDoA	85		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C8 FOSA	26		25 - 150				09/30/20 13:06	09/30/20 20:43	1
13C5 PFPeA	60		25 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFTeDA	55		50 - 150				09/30/20 13:06	09/30/20 20:43	1
d3-NMeFOSAA	44	*5	50 - 150				09/30/20 13:06	09/30/20 20:43	1
d5-NEtFOSAA	126		50 - 150				09/30/20 13:06	09/30/20 20:43	1
M2-6:2 FTS	62		25 - 150				09/30/20 13:06	09/30/20 20:43	1
M2-8:2 FTS	59		25 - 150				09/30/20 13:06	09/30/20 20:43	1
13C3 PFBS	55		50 - 150				09/30/20 13:06	09/30/20 20:43	1

**Client Sample ID: MW-4**

**Lab Sample ID: 480-175657-4**

**Date Collected: 09/24/20 15:11**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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		09/30/20 08:35	10/02/20 04:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	24		15 - 110				09/30/20 08:35	10/02/20 04:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	26		4.3	0.96	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluoropentanoic acid (PFPeA)	27		1.7	0.92	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorohexanoic acid (PFHxA)	39		1.7	0.71	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorooctanoic acid (PFOA)	43		1.7	0.84	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorononanoic acid (PFNA)	2.8		1.7	0.50	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorodecanoic acid (PFDA)	0.84	J	1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.62	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.50	ng/L		09/30/20 13:06	09/30/20 20:51	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-4**  
**Date Collected: 09/24/20 15:11**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.54	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorohexanesulfonic acid (PFHxS)	8.5		1.7	0.57	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.46	J	1.7	0.33	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.74	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 20:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.67	ng/L		09/30/20 13:06	09/30/20 20:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.79	ng/L		09/30/20 13:06	09/30/20 20:51	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.1	J	4.3	0.61	ng/L		09/30/20 13:06	09/30/20 20:51	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.56	ng/L		09/30/20 13:06	09/30/20 20:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	106		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C4 PFHpA	101		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C4 PFOA	101		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C4 PFOS	88		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C5 PFNA	94		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C4 PFBA	62		25 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFHxA	99		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFDA	82		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFUnA	72		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFDoA	68		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C8 FOSA	77		25 - 150	09/30/20 13:06	09/30/20 20:51	1
13C5 PFPeA	87		25 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFTeDA	77		50 - 150	09/30/20 13:06	09/30/20 20:51	1
d3-NMeFOSAA	73		50 - 150	09/30/20 13:06	09/30/20 20:51	1
d5-NEtFOSAA	73		50 - 150	09/30/20 13:06	09/30/20 20:51	1
M2-6:2 FTS	110		25 - 150	09/30/20 13:06	09/30/20 20:51	1
M2-8:2 FTS	88		25 - 150	09/30/20 13:06	09/30/20 20:51	1
13C3 PFBS	95		50 - 150	09/30/20 13:06	09/30/20 20:51	1

**Client Sample ID: MW-5**  
**Date Collected: 09/24/20 10:55**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-5**  
**Matrix: Water**

**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		09/30/20 08:35	10/02/20 05:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	49		15 - 110	09/30/20 08:35	10/02/20 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	20		4.1	0.93	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluoropentanoic acid (PFPeA)	21		1.6	0.89	ng/L		09/30/20 13:06	09/30/20 21:00	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-5**  
**Date Collected: 09/24/20 10:55**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-5**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	18		1.6	0.68	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluoroheptanoic acid (PFHpA)	14		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorooctanoic acid (PFOA)	56		1.6	0.80	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorononanoic acid (PFNA)	3.3		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.60	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorobutanesulfonic acid (PFBS)	25		1.6	0.52	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorohexanesulfonic acid (PFHxS)	4.8		1.6	0.55	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.3	J	1.6	0.32	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorooctanesulfonic acid (PFOS)	53		1.6	0.71	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.47	ng/L		09/30/20 13:06	09/30/20 21:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.65	ng/L		09/30/20 13:06	09/30/20 21:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.76	ng/L		09/30/20 13:06	09/30/20 21:00	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.59	ng/L		09/30/20 13:06	09/30/20 21:00	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.54	ng/L		09/30/20 13:06	09/30/20 21:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	93		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C4 PFHpA	90		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C4 PFOA	91		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C4 PFOS	70		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C5 PFNA	78		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C4 PFBA	65		25 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFHxA	89		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFDA	71		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFUnA	69		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFDoA	66		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C8 FOSA	53		25 - 150				09/30/20 13:06	09/30/20 21:00	1
13C5 PFPeA	82		25 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFTeDA	64		50 - 150				09/30/20 13:06	09/30/20 21:00	1
d3-NMeFOSAA	68		50 - 150				09/30/20 13:06	09/30/20 21:00	1
d5-NEtFOSAA	66		50 - 150				09/30/20 13:06	09/30/20 21:00	1
M2-6:2 FTS	100		25 - 150				09/30/20 13:06	09/30/20 21:00	1
M2-8:2 FTS	71		25 - 150				09/30/20 13:06	09/30/20 21:00	1
13C3 PFBS	87		50 - 150				09/30/20 13:06	09/30/20 21:00	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-5B**

**Lab Sample ID: 480-175657-6**

**Date Collected: 09/24/20 09:56**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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		09/30/20 08:35	10/02/20 03:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	25		15 - 110				09/30/20 08:35	10/02/20 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	16		4.1	0.94	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluoropentanoic acid (PFPeA)	16		1.7	0.90	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorohexanoic acid (PFHxA)	13		1.7	0.69	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluoroheptanoic acid (PFHpA)	12		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorooctanoic acid (PFOA)	39		1.7	0.81	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorononanoic acid (PFNA)	5.3		1.7	0.48	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.61	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.36	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.52	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.7	0.56	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.49 J		1.7	0.32	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorooctanesulfonic acid (PFOS)	30		1.7	0.72	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.40	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.47	ng/L		09/30/20 13:06	09/30/20 21:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.66	ng/L		09/30/20 13:06	09/30/20 21:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.77	ng/L		09/30/20 13:06	09/30/20 21:08	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.92 J		4.1	0.60	ng/L		09/30/20 13:06	09/30/20 21:08	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.55	ng/L		09/30/20 13:06	09/30/20 21:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	97		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C4 PFHpA	96		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C4 PFOA	96		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C4 PFOS	84		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C5 PFNA	83		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C4 PFBA	86		25 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFHxA	96		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFDA	81		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFUnA	80		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFDoA	77		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C8 FOSA	55		25 - 150				09/30/20 13:06	09/30/20 21:08	1
13C5 PFPeA	95		25 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFTeDA	71		50 - 150				09/30/20 13:06	09/30/20 21:08	1
d3-NMeFOSAA	68		50 - 150				09/30/20 13:06	09/30/20 21:08	1
d5-NEtFOSAA	78		50 - 150				09/30/20 13:06	09/30/20 21:08	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-5B**

**Lab Sample ID: 480-175657-6**

Date Collected: 09/24/20 09:56

Matrix: Water

Date Received: 09/26/20 08:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	102		25 - 150	09/30/20 13:06	09/30/20 21:08	1
M2-8:2 FTS	86		25 - 150	09/30/20 13:06	09/30/20 21:08	1
13C3 PFBS	93		50 - 150	09/30/20 13:06	09/30/20 21:08	1

**Client Sample ID: DUPLICATE**

**Lab Sample ID: 480-175657-7**

Date Collected: 09/24/20 12:05

Matrix: Water

Date Received: 09/26/20 08:00

**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	0.12	J	0.19	0.095	ug/L		09/30/20 08:35	10/02/20 05:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110	09/30/20 08:35	10/02/20 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	20		4.3	0.97	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluoropentanoic acid (PFPeA)	22		1.7	0.93	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorohexanoic acid (PFHxA)	17		1.7	0.71	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.40	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorooctanoic acid (PFOA)	51		1.7	0.84	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorononanoic acid (PFNA)	3.0		1.7	0.50	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.40	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.63	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.40	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.51	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorobutanesulfonic acid (PFBS)	28		1.7	0.54	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorohexanesulfonic acid (PFHxS)	5.2		1.7	0.58	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.1	J	1.7	0.34	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorooctanesulfonic acid (PFOS)	51		1.7	0.75	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 21:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.68	ng/L		09/30/20 13:06	09/30/20 21:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.80	ng/L		09/30/20 13:06	09/30/20 21:33	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.62	ng/L		09/30/20 13:06	09/30/20 21:33	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.57	ng/L		09/30/20 13:06	09/30/20 21:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	96		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C4 PFHpA	91		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C4 PFOA	96		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C4 PFOS	88		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C5 PFNA	94		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C4 PFBA	71		25 - 150	09/30/20 13:06	09/30/20 21:33	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: DUPLICATE**

**Lab Sample ID: 480-175657-7**

Date Collected: 09/24/20 12:05

Matrix: Water

Date Received: 09/26/20 08:00

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C2 PFHxA	97		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C2 PFDA	88		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C2 PFUnA	76		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C2 PFDoA	74		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C8 FOSA	54		25 - 150	09/30/20 13:06	09/30/20 21:33	1
13C5 PFPeA	87		25 - 150	09/30/20 13:06	09/30/20 21:33	1
13C2 PFTeDA	75		50 - 150	09/30/20 13:06	09/30/20 21:33	1
d3-NMeFOSAA	74		50 - 150	09/30/20 13:06	09/30/20 21:33	1
d5-NEtFOSAA	67		50 - 150	09/30/20 13:06	09/30/20 21:33	1
M2-6:2 FTS	109		25 - 150	09/30/20 13:06	09/30/20 21:33	1
M2-8:2 FTS	96		25 - 150	09/30/20 13:06	09/30/20 21:33	1
13C3 PFBS	93		50 - 150	09/30/20 13:06	09/30/20 21:33	1

**Client Sample ID: EQUIPMENT BLANK**

**Lab Sample ID: 480-175657-8**

Date Collected: 09/24/20 13:30

Matrix: Water

Date Received: 09/26/20 08:00

**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	0.41		0.19	0.095	ug/L		09/30/20 08:35	10/02/20 05:53	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	28		15 - 110	09/30/20 08:35	10/02/20 05:53	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	ND		4.1	0.93	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.89	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.68	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.80	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.60	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.52	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.55	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.32	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.71	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.47	ng/L		09/30/20 13:06	09/30/20 21:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.65	ng/L		09/30/20 13:06	09/30/20 21:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.76	ng/L		09/30/20 13:06	09/30/20 21:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.59	ng/L		09/30/20 13:06	09/30/20 21:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.54	ng/L		09/30/20 13:06	09/30/20 21:41	1



# Client Sample Results

Client: New York State D.E.C.  
 Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: EQUIPMENT BLANK**

**Lab Sample ID: 480-175657-8**

**Date Collected: 09/24/20 13:30**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	102		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C4 PFHpA	100		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C4 PFOA	98		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C4 PFOS	97		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C5 PFNA	99		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C4 PFBA	112		25 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFHxA	107		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFDA	95		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFUnA	83		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFDoA	76		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C8 FOSA	68		25 - 150	09/30/20 13:06	09/30/20 21:41	1
13C5 PFPeA	105		25 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFTeDA	67		50 - 150	09/30/20 13:06	09/30/20 21:41	1
d3-NMeFOSAA	78		50 - 150	09/30/20 13:06	09/30/20 21:41	1
d5-NEtFOSAA	91		50 - 150	09/30/20 13:06	09/30/20 21:41	1
M2-6:2 FTS	101		25 - 150	09/30/20 13:06	09/30/20 21:41	1
M2-8:2 FTS	99		25 - 150	09/30/20 13:06	09/30/20 21:41	1
13C3 PFBS	95		50 - 150	09/30/20 13:06	09/30/20 21:41	1

# Isotope Dilution Summary

Client: New York State D.E.C.  
 Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## 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)
480-175657-1	MW-1B	24
480-175657-2	MW-3	26
480-175657-3	MW-3B	21
480-175657-4	MW-4	24
480-175657-5	MW-5	49
480-175657-6	MW-5B	25
480-175657-6 MS	MW-5B	22
480-175657-6 MSD	MW-5B	26
480-175657-7	DUPLICATE	27
480-175657-8	EQUIPMENT BLANK	28
LCS 480-551803/2-A	Lab Control Sample	23
MB 480-551803/1-A	Method Blank	28

**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	PFHxS (50-150)	C4PFHA (50-150)	PFOA (50-150)	PFOS (50-150)	PFNA (50-150)	PFBA (25-150)	PFHxA (50-150)	PFDA (50-150)
480-175657-1	MW-1B		79	74	55	65	75	81	53
480-175657-1	MW-1B	75			59				
480-175657-2	MW-3		86	87	56	66	66	85	51
480-175657-2	MW-3	87			58				
480-175657-3	MW-3B	57	62	58	50	49	59	59	51
480-175657-4	MW-4	106	101	101	88	94	62	99	82
480-175657-5	MW-5	93	90	91	70	78	65	89	71
480-175657-6	MW-5B	97	96	96	84	83	86	96	81
480-175657-6 MS	MW-5B	94	97	99	89	92	83	98	93
480-175657-6 MSD	MW-5B	98	100	96	88	95	86	97	86
480-175657-7	DUPLICATE	96	91	96	88	94	71	97	88
480-175657-8	EQUIPMENT BLANK	102	100	98	97	99	112	107	95
LCS 200-159386/2-A	Lab Control Sample	96	101	93	100	96	108	105	90
MB 200-159386/1-A	Method Blank	107	105	104	105	108	119	110	102

### Percent Isotope Dilution Recovery (Acceptance Limits)

Lab Sample ID	Client Sample ID	PFUnA (50-150)	PFDaA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
480-175657-1	MW-1B	47 *5	52	49	75	61	46 *5	57	80
480-175657-1	MW-1B								
480-175657-2	MW-3	48 *5	50	45	82	57	46 *5	48 *5	89
480-175657-2	MW-3								
480-175657-3	MW-3B	96	85	26	60	55	44 *5	126	62
480-175657-4	MW-4	72	68	77	87	77	73	73	110
480-175657-5	MW-5	69	66	53	82	64	68	66	100
480-175657-6	MW-5B	80	77	55	95	71	68	78	102
480-175657-6 MS	MW-5B	85	84	59	93	67	66	86	106
480-175657-6 MSD	MW-5B	81	80	55	94	69	72	74	113
480-175657-7	DUPLICATE	76	74	54	87	75	74	67	109

# Isotope Dilution Summary

Client: New York State D.E.C.  
 Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

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

Matrix: Water

Prep Type: Total/NA

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)							
		PFUnA (50-150)	PFDoA (50-150)	PFOSA (25-150)	PFPeA (25-150)	PFTDA (50-150)	d3NMFOS (50-150)	d5NEFOS (50-150)	M262FTS (25-150)
480-175657-8	EQUIPMENT BLANK	83	76	68	105	67	78	91	101
LCS 200-159386/2-A	Lab Control Sample	84	68	63	102	65	83	79	95
MB 200-159386/1-A	Method Blank	80	54	51	110	48 *5	90	76	111

Lab Sample ID	Client Sample ID	Percent Isotope Dilution Recovery (Acceptance Limits)	
		M282FTS (25-150)	C3PFBS (50-150)
480-175657-1	MW-1B	59	76
480-175657-1	MW-1B		
480-175657-2	MW-3	56	88
480-175657-2	MW-3		
480-175657-3	MW-3B	59	55
480-175657-4	MW-4	88	95
480-175657-5	MW-5	71	87
480-175657-6	MW-5B	86	93
480-175657-6 MS	MW-5B	80	94
480-175657-6 MSD	MW-5B	92	92
480-175657-7	DUPLICATE	96	93
480-175657-8	EQUIPMENT BLANK	99	95
LCS 200-159386/2-A	Lab Control Sample	89	99
MB 200-159386/1-A	Method Blank	103	106

### Surrogate Legend

- PFHxS = 18O2 PFHxS
- C4PFHA = 13C4 PFHpA
- PFOA = 13C4 PFOA
- PFOS = 13C4 PFOS
- PFNA = 13C5 PFNA
- PFBA = 13C4 PFBA
- PFHxA = 13C2 PFHxA
- PFDA = 13C2 PFDA
- PFUnA = 13C2 PFUnA
- PFDoA = 13C2 PFDoA
- PFOSA = 13C8 FOSA
- PFPeA = 13C5 PFPeA
- PFTDA = 13C2 PFTeDA
- d3NMFOS = d3-NMeFOSAA
- d5NEFOS = d5-NEtFOSAA
- M262FTS = M2-6:2 FTS
- M282FTS = M2-8:2 FTS
- C3PFBS = 13C3 PFBS

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

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

**Lab Sample ID: MB 480-551803/1-A**  
**Matrix: Water**  
**Analysis Batch: 552087**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 551803**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
1,4-Dioxane	ND		0.20	0.10	ug/L		09/30/20 08:35	10/02/20 01:43	1
Isotope Dilution		MB MB	Limits			Prepared	Analyzed	Dil Fac	
	%Recovery	Qualifier							
1,4-Dioxane-d8	28		15 - 110			09/30/20 08:35	10/02/20 01:43	1	

**Lab Sample ID: LCS 480-551803/2-A**  
**Matrix: Water**  
**Analysis Batch: 552087**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 551803**

Analyte	LCS LCS		Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier							
1,4-Dioxane			1.00	1.20		ug/L		120	40 - 140
Isotope Dilution		LCS LCS	Limits					%Rec. Limits	
	%Recovery	Qualifier							
1,4-Dioxane-d8	23		15 - 110						

**Lab Sample ID: 480-175657-6 MS**  
**Matrix: Water**  
**Analysis Batch: 552087**

**Client Sample ID: MW-5B**  
**Prep Type: Total/NA**  
**Prep Batch: 551803**

Analyte	Sample Sample		Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
	Result	Qualifier							
1,4-Dioxane	ND		0.952	1.16	E	ug/L		122	40 - 140
Isotope Dilution		MS MS	Limits					%Rec. Limits	
	%Recovery	Qualifier							
1,4-Dioxane-d8	22		15 - 110						

**Lab Sample ID: 480-175657-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 552087**

**Client Sample ID: MW-5B**  
**Prep Type: Total/NA**  
**Prep Batch: 551803**

Analyte	Sample Sample		Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
	Result	Qualifier									
1,4-Dioxane	ND		0.952	1.11		ug/L		117	40 - 140	4	20
Isotope Dilution		MSD MSD	Limits					%Rec. Limits	RPD	RPD Limit	
	%Recovery	Qualifier									
1,4-Dioxane-d8	26		15 - 110								

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

**Lab Sample ID: MB 200-159386/1-A**  
**Matrix: Water**  
**Analysis Batch: 159409**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159386**

Analyte	MB MB		RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
	Result	Qualifier							
Perfluorobutanoic acid (PFBA)	ND		5.0	1.1	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluoropentanoic acid (PFPeA)	ND		2.0	1.1	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorohexanoic acid (PFHxA)	ND		2.0	0.83	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluoroheptanoic acid (PFHpA)	ND		2.0	0.46	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorooctanoic acid (PFOA)	ND		2.0	0.98	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorononanoic acid (PFNA)	ND		2.0	0.58	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorodecanoic acid (PFDA)	ND		2.0	0.46	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluoroundecanoic acid (PFUnA)	ND		2.0	0.73	ng/L		09/30/20 13:06	09/30/20 18:22	1

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

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

**Lab Sample ID: MB 200-159386/1-A**  
**Matrix: Water**  
**Analysis Batch: 159409**

**Client Sample ID: Method Blank**  
**Prep Type: Total/NA**  
**Prep Batch: 159386**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorododecanoic acid (PFDoA)	ND		2.0	0.46	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorotridecanoic acid (PFTriA)	ND		2.0	0.43	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorotetradecanoic acid (PFTeA)	ND		2.0	0.59	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorobutanesulfonic acid (PFBS)	ND		2.0	0.63	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorohexanesulfonic acid (PFHxS)	ND		2.0	0.67	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		2.0	0.39	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.87	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.48	ng/L		09/30/20 13:06	09/30/20 18:22	1
Perfluorooctanesulfonamide (PFOSA)	ND		2.0	0.57	ng/L		09/30/20 13:06	09/30/20 18:22	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		5.0	0.79	ng/L		09/30/20 13:06	09/30/20 18:22	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		5.0	0.93	ng/L		09/30/20 13:06	09/30/20 18:22	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	0.72	ng/L		09/30/20 13:06	09/30/20 18:22	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.66	ng/L		09/30/20 13:06	09/30/20 18:22	1

Isotope Dilution	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	107		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C4 PFHpA	105		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C4 PFOA	104		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C4 PFOS	105		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C5 PFNA	108		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C4 PFBA	119		25 - 150	09/30/20 13:06	09/30/20 18:22	1
13C2 PFHxA	110		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C2 PFDA	102		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C2 PFUnA	80		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C2 PFDoA	54		50 - 150	09/30/20 13:06	09/30/20 18:22	1
13C8 FOSA	51		25 - 150	09/30/20 13:06	09/30/20 18:22	1
13C5 PFPeA	110		25 - 150	09/30/20 13:06	09/30/20 18:22	1
13C2 PFTeDA	48	*5	50 - 150	09/30/20 13:06	09/30/20 18:22	1
d3-NMeFOSAA	90		50 - 150	09/30/20 13:06	09/30/20 18:22	1
d5-NEtFOSAA	76		50 - 150	09/30/20 13:06	09/30/20 18:22	1
M2-6:2 FTS	111		25 - 150	09/30/20 13:06	09/30/20 18:22	1
M2-8:2 FTS	103		25 - 150	09/30/20 13:06	09/30/20 18:22	1
13C3 PFBS	106		50 - 150	09/30/20 13:06	09/30/20 18:22	1

**Lab Sample ID: LCS 200-159386/2-A**  
**Matrix: Water**  
**Analysis Batch: 159409**

**Client Sample ID: Lab Control Sample**  
**Prep Type: Total/NA**  
**Prep Batch: 159386**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	Limits
Perfluorobutanoic acid (PFBA)	40.0	40.4		ng/L		101	50 - 150
Perfluoropentanoic acid (PFPeA)	40.0	39.2		ng/L		98	50 - 150
Perfluorohexanoic acid (PFHxA)	40.0	40.1		ng/L		100	70 - 130
Perfluoroheptanoic acid (PFHpA)	40.0	39.4		ng/L		98	70 - 130
Perfluorooctanoic acid (PFOA)	40.0	42.9		ng/L		107	70 - 130
Perfluorononanoic acid (PFNA)	40.0	42.7		ng/L		107	70 - 130

Eurofins TestAmerica, Buffalo

# QC Sample Results

Client: New York State D.E.C.  
 Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

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

**Lab Sample ID: LCS 200-159386/2-A**

**Matrix: Water**

**Analysis Batch: 159409**

**Client Sample ID: Lab Control Sample**

**Prep Type: Total/NA**

**Prep Batch: 159386**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Perfluorodecanoic acid (PFDA)	40.0	42.8		ng/L		107	70 - 130
Perfluoroundecanoic acid (PFUnA)	40.0	40.3		ng/L		101	70 - 130
Perfluorododecanoic acid (PFDoA)	40.0	39.6		ng/L		99	70 - 130
Perfluorotridecanoic acid (PFTriA)	40.0	40.7		ng/L		102	70 - 130
Perfluorotetradecanoic acid (PFTeA)	40.0	41.8		ng/L		104	70 - 130
Perfluorobutanesulfonic acid (PFBS)	35.4	36.8		ng/L		104	70 - 130
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.7		ng/L		106	70 - 130
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.8		ng/L		107	50 - 150
Perfluorooctanesulfonic acid (PFOS)	37.1	35.4		ng/L		95	70 - 130
Perfluorodecanesulfonic acid (PFDS)	38.6	31.5		ng/L		82	50 - 150
Perfluorooctanesulfonamide (PFOSA)	40.0	39.6		ng/L		99	50 - 150
N-methylperfluorooctanesulfonamide doacetic acid (NMeFOSAA)	40.0	41.0		ng/L		103	70 - 130
N-ethylperfluorooctanesulfonamide doacetic acid (NEtFOSAA)	40.0	41.0		ng/L		102	70 - 130
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	40.7		ng/L		107	50 - 150
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	39.3		ng/L		103	50 - 150

Isotope Dilution	LCS LCS		Limits
	%Recovery	Qualifier	
18O2 PFHxS	96		50 - 150
13C4 PFHpA	101		50 - 150
13C4 PFOA	93		50 - 150
13C4 PFOS	100		50 - 150
13C5 PFNA	96		50 - 150
13C4 PFBA	108		25 - 150
13C2 PFHxA	105		50 - 150
13C2 PFDA	90		50 - 150
13C2 PFUnA	84		50 - 150
13C2 PFDoA	68		50 - 150
13C8 FOSA	63		25 - 150
13C5 PFPeA	102		25 - 150
13C2 PFTeDA	65		50 - 150
d3-NMeFOSAA	83		50 - 150
d5-NEtFOSAA	79		50 - 150
M2-6:2 FTS	95		25 - 150
M2-8:2 FTS	89		25 - 150
13C3 PFBS	99		50 - 150



# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

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

**Lab Sample ID: 480-175657-6 MS**  
**Matrix: Water**  
**Analysis Batch: 159409**

**Client Sample ID: MW-5B**  
**Prep Type: Total/NA**  
**Prep Batch: 159386**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MS MS Qualifier</i>	<i>Limits</i>
M2-6:2 FTS	106		25 - 150
M2-8:2 FTS	80		25 - 150
13C3 PFBS	94		50 - 150

**Lab Sample ID: 480-175657-6 MSD**  
**Matrix: Water**  
**Analysis Batch: 159409**

**Client Sample ID: MW-5B**  
**Prep Type: Total/NA**  
**Prep Batch: 159386**

<i>Analyte</i>	<i>Sample Result</i>	<i>Sample Qualifier</i>	<i>Spike Added</i>	<i>MSD Result</i>	<i>MSD Qualifier</i>	<i>Unit</i>	<i>D</i>	<i>%Rec</i>	<i>%Rec.</i>	<i>RPD</i>	<i>RPD Limit</i>
									<i>Limits</i>	<i>RPD</i>	<i>Limit</i>
Perfluorobutanoic acid (PFBA)	16		32.3	44.9		ng/L		90	40 - 160	3	30
Perfluoropentanoic acid (PFPeA)	16		32.3	45.4		ng/L		92	40 - 160	1	30
Perfluorohexanoic acid (PFHxA)	13		32.3	46.1		ng/L		102	40 - 160	2	20
Perfluoroheptanoic acid (PFHpA)	12		32.3	42.1		ng/L		93	40 - 160	4	20
Perfluorooctanoic acid (PFOA)	39		32.3	71.4		ng/L		101	40 - 160	2	20
Perfluorononanoic acid (PFNA)	5.3		32.3	34.5		ng/L		90	40 - 160	5	20
Perfluorodecanoic acid (PFDA)	ND		32.3	33.6		ng/L		104	40 - 160	16	20
Perfluoroundecanoic acid (PFUnA)	ND		32.3	34.9		ng/L		108	40 - 160	4	20
Perfluorododecanoic acid (PFDoA)	ND		32.3	32.2		ng/L		100	40 - 160	3	20
Perfluorotridecanoic acid (PFTriA)	ND		32.3	30.7		ng/L		95	40 - 160	1	20
Perfluorotetradecanoic acid (PFTeA)	ND		32.3	33.5		ng/L		104	40 - 160	0	20
Perfluorobutanesulfonic acid (PFBS)	17		28.6	49.0		ng/L		113	40 - 160	6	20
Perfluorohexanesulfonic acid (PFHxS)	3.1		29.4	33.0		ng/L		102	40 - 160	3	20
Perfluoroheptanesulfonic Acid (PFHpS)	0.49	J	30.8	33.3		ng/L		107	40 - 160	0	30
Perfluorooctanesulfonic acid (PFOS)	30		30.0	59.2		ng/L		97	40 - 160	0	20
Perfluorodecanesulfonic acid (PFDS)	ND		31.2	29.4		ng/L		94	40 - 160	6	30
Perfluorooctanesulfonamide (PFOSA)	ND		32.3	32.7		ng/L		101	40 - 160	2	30
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		32.3	36.2		ng/L		112	40 - 160	0	20
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		32.3	32.3		ng/L		100	40 - 160	15	20
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.92	J	30.6	30.5		ng/L		96	40 - 160	10	30
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		31.0	29.9		ng/L		97	40 - 160	10	30

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>MSD MSD Qualifier</i>	<i>Limits</i>
18O2 PFHxS	98		50 - 150
13C4 PFHpA	100		50 - 150
13C4 PFOA	96		50 - 150
13C4 PFOS	88		50 - 150
13C5 PFNA	95		50 - 150
13C4 PFBA	86		25 - 150



# QC Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

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

Lab Sample ID: 480-175657-6 MSD

Matrix: Water

Analysis Batch: 159409

Client Sample ID: MW-5B

Prep Type: Total/NA

Prep Batch: 159386

<i>Isotope Dilution</i>	<i>MSD MSD</i>		<i>Limits</i>
	<i>%Recovery</i>	<i>Qualifier</i>	
13C2 PFHxA	97		50 - 150
13C2 PFDA	86		50 - 150
13C2 PFUnA	81		50 - 150
13C2 PFDoA	80		50 - 150
13C8 FOSA	55		25 - 150
13C5 PFPeA	94		25 - 150
13C2 PFTeDA	69		50 - 150
d3-NMeFOSAA	72		50 - 150
d5-NEtFOSAA	74		50 - 150
M2-6:2 FTS	113		25 - 150
M2-8:2 FTS	92		25 - 150
13C3 PFBS	92		50 - 150

# Definitions/Glossary

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## Qualifiers

### GC/MS Semi VOA

Qualifier	Qualifier Description
E	Result exceeded calibration range.
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
*5	Isotope dilution analyte is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

## Glossary

Abbreviation	These commonly used abbreviations may or may not be present in this report.
▫	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: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## GC/MS Semi VOA

### Prep Batch: 551803

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175657-1	MW-1B	Total/NA	Water	3510C	
480-175657-2	MW-3	Total/NA	Water	3510C	
480-175657-3	MW-3B	Total/NA	Water	3510C	
480-175657-4	MW-4	Total/NA	Water	3510C	
480-175657-5	MW-5	Total/NA	Water	3510C	
480-175657-6	MW-5B	Total/NA	Water	3510C	
480-175657-7	DUPLICATE	Total/NA	Water	3510C	
480-175657-8	EQUIPMENT BLANK	Total/NA	Water	3510C	
MB 480-551803/1-A	Method Blank	Total/NA	Water	3510C	
LCS 480-551803/2-A	Lab Control Sample	Total/NA	Water	3510C	
480-175657-6 MS	MW-5B	Total/NA	Water	3510C	
480-175657-6 MSD	MW-5B	Total/NA	Water	3510C	

### Analysis Batch: 552087

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175657-1	MW-1B	Total/NA	Water	8270D SIM ID	551803
480-175657-2	MW-3	Total/NA	Water	8270D SIM ID	551803
480-175657-3	MW-3B	Total/NA	Water	8270D SIM ID	551803
480-175657-4	MW-4	Total/NA	Water	8270D SIM ID	551803
480-175657-5	MW-5	Total/NA	Water	8270D SIM ID	551803
480-175657-6	MW-5B	Total/NA	Water	8270D SIM ID	551803
480-175657-7	DUPLICATE	Total/NA	Water	8270D SIM ID	551803
480-175657-8	EQUIPMENT BLANK	Total/NA	Water	8270D SIM ID	551803
MB 480-551803/1-A	Method Blank	Total/NA	Water	8270D SIM ID	551803
LCS 480-551803/2-A	Lab Control Sample	Total/NA	Water	8270D SIM ID	551803
480-175657-6 MS	MW-5B	Total/NA	Water	8270D SIM ID	551803
480-175657-6 MSD	MW-5B	Total/NA	Water	8270D SIM ID	551803

## LCMS

### Prep Batch: 159386

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175657-1	MW-1B	Total/NA	Water	3535	
480-175657-2	MW-3	Total/NA	Water	3535	
480-175657-3	MW-3B	Total/NA	Water	3535	
480-175657-4	MW-4	Total/NA	Water	3535	
480-175657-5	MW-5	Total/NA	Water	3535	
480-175657-6	MW-5B	Total/NA	Water	3535	
480-175657-7	DUPLICATE	Total/NA	Water	3535	
480-175657-8	EQUIPMENT BLANK	Total/NA	Water	3535	
MB 200-159386/1-A	Method Blank	Total/NA	Water	3535	
LCS 200-159386/2-A	Lab Control Sample	Total/NA	Water	3535	
480-175657-6 MS	MW-5B	Total/NA	Water	3535	
480-175657-6 MSD	MW-5B	Total/NA	Water	3535	

### Analysis Batch: 159409

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175657-1	MW-1B	Total/NA	Water	537 (modified)	159386
480-175657-2	MW-3	Total/NA	Water	537 (modified)	159386
480-175657-3	MW-3B	Total/NA	Water	537 (modified)	159386
480-175657-4	MW-4	Total/NA	Water	537 (modified)	159386

# QC Association Summary

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## LCMS (Continued)

### Analysis Batch: 159409 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175657-5	MW-5	Total/NA	Water	537 (modified)	159386
480-175657-6	MW-5B	Total/NA	Water	537 (modified)	159386
480-175657-7	DUPLICATE	Total/NA	Water	537 (modified)	159386
480-175657-8	EQUIPMENT BLANK	Total/NA	Water	537 (modified)	159386
MB 200-159386/1-A	Method Blank	Total/NA	Water	537 (modified)	159386
LCS 200-159386/2-A	Lab Control Sample	Total/NA	Water	537 (modified)	159386
480-175657-6 MS	MW-5B	Total/NA	Water	537 (modified)	159386
480-175657-6 MSD	MW-5B	Total/NA	Water	537 (modified)	159386

### Analysis Batch: 159470

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
480-175657-1	MW-1B	Total/NA	Water	537 (modified)	159386
480-175657-2	MW-3	Total/NA	Water	537 (modified)	159386

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-1B**

**Lab Sample ID: 480-175657-1**

**Date Collected: 09/24/20 15:00**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551803	09/30/20 08:35	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	552087	10/02/20 03:37	PJQ	TAL BUF
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159409	09/30/20 20:27	ND	TAL BUR
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159470	10/01/20 23:10	BWC	TAL BUR

**Client Sample ID: MW-3**

**Lab Sample ID: 480-175657-2**

**Date Collected: 09/24/20 13:05**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551803	09/30/20 08:35	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	552087	10/02/20 04:00	PJQ	TAL BUF
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159409	09/30/20 20:35	ND	TAL BUR
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159470	10/01/20 23:18	BWC	TAL BUR

**Client Sample ID: MW-3B**

**Lab Sample ID: 480-175657-3**

**Date Collected: 09/24/20 12:30**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551803	09/30/20 08:35	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	552087	10/02/20 04:22	PJQ	TAL BUF
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159409	09/30/20 20:43	ND	TAL BUR

**Client Sample ID: MW-4**

**Lab Sample ID: 480-175657-4**

**Date Collected: 09/24/20 15:11**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551803	09/30/20 08:35	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	552087	10/02/20 04:45	PJQ	TAL BUF
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159409	09/30/20 20:51	ND	TAL BUR

**Client Sample ID: MW-5**

**Lab Sample ID: 480-175657-5**

**Date Collected: 09/24/20 10:55**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551803	09/30/20 08:35	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	552087	10/02/20 05:08	PJQ	TAL BUF

# Lab Chronicle

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## Client Sample ID: MW-5

Lab Sample ID: 480-175657-5

Date Collected: 09/24/20 10:55

Matrix: Water

Date Received: 09/26/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159409	09/30/20 21:00	ND	TAL BUR

## Client Sample ID: MW-5B

Lab Sample ID: 480-175657-6

Date Collected: 09/24/20 09:56

Matrix: Water

Date Received: 09/26/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551803	09/30/20 08:35	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	552087	10/02/20 03:14	PJQ	TAL BUF
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159409	09/30/20 21:08	ND	TAL BUR

## Client Sample ID: DUPLICATE

Lab Sample ID: 480-175657-7

Date Collected: 09/24/20 12:05

Matrix: Water

Date Received: 09/26/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551803	09/30/20 08:35	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	552087	10/02/20 05:30	PJQ	TAL BUF
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159409	09/30/20 21:33	ND	TAL BUR

## Client Sample ID: EQUIPMENT BLANK

Lab Sample ID: 480-175657-8

Date Collected: 09/24/20 13:30

Matrix: Water

Date Received: 09/26/20 08:00

Prep Type	Batch Type	Batch Method	Run	Dilution Factor	Batch Number	Prepared or Analyzed	Analyst	Lab
Total/NA	Prep	3510C			551803	09/30/20 08:35	JMP	TAL BUF
Total/NA	Analysis	8270D SIM ID		1	552087	10/02/20 05:53	PJQ	TAL BUF
Total/NA	Prep	3535			159386	09/30/20 13:06	BWC	TAL BUR
Total/NA	Analysis	537 (modified)		1	159409	09/30/20 21:41	ND	TAL BUR

### 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: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

## 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	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)
537 (modified)	3535	Water	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)
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 (PFDoA)
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 (PFOSA)
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 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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water

Level: Low

GC Column (1): RXI-5Sil MS ID: 0.25 (mm)

Client Sample ID	Lab Sample ID	DXE #
MW-1B	480-175657-1	24
MW-3	480-175657-2	26
MW-3B	480-175657-3	21
MW-4	480-175657-4	24
MW-5	480-175657-5	49
MW-5B	480-175657-6	25
DUPLICATE	480-175657-7	27
EQUIPMENT BLANK	480-175657-8	28
	MB 480-551803/1-A	28
	LCS 480-551803/2-A	23
MW-5B MS	480-175657-6 MS	22
MW-5B MSD	480-175657-6 MSD	26

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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: Z002738.D

Lab ID: LCS 480-551803/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ug/L)	LCS CONCENTRATION (ug/L)	LCS % REC	QC LIMITS REC	#
1,4-Dioxane	1.00	1.20	120	40-140	
1,4-Dioxane-d8	10.0	2.32	23	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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water Level: Low Lab File ID: Z002739.D  
 Lab ID: 480-175657-6 MS Client ID: MW-5B 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	1.16	122	40-140	E
1,4-Dioxane-d8	9.52	2.4	2.07	22	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 DUPLICATE RECOVERY

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: Z002740.D

Lab ID: 480-175657-6 MSD Client ID: MW-5B MSD

COMPOUND	SPIKE ADDED (ug/L)	MSD CONCENTRATION (ug/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
1,4-Dioxane	0.952	1.11	117	4	20	40-140	
1,4-Dioxane-d8	9.52	2.51	26			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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: Z002737.D Lab Sample ID: MB 480-551803/1-A  
 Matrix: Water Date Extracted: 09/30/2020 08:35  
 Instrument ID: HP5973Z Date Analyzed: 10/02/2020 01:43  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 480-551803/2-A	Z002738.D	10/02/2020 02:06
MW-5B MS	480-175657-6 MS	Z002739.D	10/02/2020 02:29
MW-5B MSD	480-175657-6 MSD	Z002740.D	10/02/2020 02:51
MW-5B	480-175657-6	Z002741.D	10/02/2020 03:14
MW-1B	480-175657-1	Z002742.D	10/02/2020 03:37
MW-3	480-175657-2	Z002743.D	10/02/2020 04:00
MW-3B	480-175657-3	Z002744.D	10/02/2020 04:22
MW-4	480-175657-4	Z002745.D	10/02/2020 04:45
MW-5	480-175657-5	Z002746.D	10/02/2020 05:08
DUPLICATE	480-175657-7	Z002747.D	10/02/2020 05:30
EQUIPMENT BLANK	480-175657-8	Z002748.D	10/02/2020 05:53

FORM V  
GC/MS SEMI VOA INSTRUMENT PERFORMANCE CHECK  
DECAFLUOROTRIPHENYLPHOSPHINE (DFTPP)

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1  
 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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: Z002735.D DFTPP Injection Date: 10/02/2020  
 Instrument ID: HP5973Z DFTPP Injection Time: 00:53  
 Analysis Batch No.: 552087

M/E	ION ABUNDANCE CRITERIA	% RELATIVE ABUNDANCE
51	10-80% of Base Peak	39.9
68	Less than 2% of mass 69	0.1 (0.2) 1
69	Mass 69 Relative abundance	42.0
70	Less than 2% of mass 69	0.3 (0.6) 1
127	10-80% of Base Peak	49.2
197	Less than 2% of mass 198	0.0
198	Base peak	100.0
199	5-9% of mass 198	7.3
275	10-60% of Base Peak	29.1
365	Greater than 1% of mass 198	5.7
441	present but less than 24% of mass 442	14.0 (17.3) 2
442	Greater than 50% of mass 198	81.0
443	15-24% of mass 442	15.6 (19.2) 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 480-552087/3	Z002736.D	10/02/2020	1:20
	MB 480-551803/1-A	Z002737.D	10/02/2020	1:43
	LCS 480-551803/2-A	Z002738.D	10/02/2020	2:06
MW-5B MS	480-175657-6 MS	Z002739.D	10/02/2020	2:29
MW-5B MSD	480-175657-6 MSD	Z002740.D	10/02/2020	2:51
MW-5B	480-175657-6	Z002741.D	10/02/2020	3:14
MW-1B	480-175657-1	Z002742.D	10/02/2020	3:37
MW-3	480-175657-2	Z002743.D	10/02/2020	4:00
MW-3B	480-175657-3	Z002744.D	10/02/2020	4:22
MW-4	480-175657-4	Z002745.D	10/02/2020	4:45
MW-5	480-175657-5	Z002746.D	10/02/2020	5:08
DUPLICATE	480-175657-7	Z002747.D	10/02/2020	5:30
EQUIPMENT BLANK	480-175657-8	Z002748.D	10/02/2020	5:53

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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1  
 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		#	RT #	#	RT #
	AREA #	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 480-552087/3		306576	5.93			

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits



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

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 480-552087/3 Date Analyzed: 10/02/2020 01:20  
 Instrument ID: HP5973Z GC Column: RXI-5Sil MS(0.5 ID: 0.25 (mm)  
 Lab File ID (Standard): Z002736.D Heated Purge: (Y/N) N  
 Calibration ID: 40374

		DCBd4					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		306576	5.93				
UPPER LIMIT		613152	6.43				
LOWER LIMIT		153288	5.43				
LAB SAMPLE ID	CLIENT SAMPLE ID						
MB 480-551803/1-A		275152	5.94				
LCS 480-551803/2-A		270079	5.95				
480-175657-6 MS	MW-5B MS	290742	5.95				
480-175657-6 MSD	MW-5B MSD	282491	5.95				
480-175657-6	MW-5B	287911	5.94				
480-175657-1	MW-1B	287741	5.94				
480-175657-2	MW-3	275093	5.94				
480-175657-3	MW-3B	287431	5.94				
480-175657-4	MW-4	287895	5.94				
480-175657-5	MW-5	281640	5.95				
480-175657-7	DUPLICATE	311166	5.95				
480-175657-8	EQUIPMENT BLANK	294772	5.95				

DCBd4 = 1,4-Dichlorobenzene-d4

Area Limit = 50%-200% of internal standard area  
 RT Limit = ± 0.5 minutes of internal standard RT

# Column used to flag values outside QC limits

FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-1B Lab Sample ID: 480-175657-1  
 Matrix: Water Lab File ID: Z002742.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 15:00  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 03:37  
 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.: 552087 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.098	J	0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	24		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002742.D  
 Lims ID: 480-175657-B-1-A  
 Client ID: MW-1B  
 Sample Type: Client  
 Inject. Date: 02-Oct-2020 03:37:30 ALS Bottle#: 37 Worklist Smp#: 9  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-009  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:36:21 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:36:21

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	2.898	2.818	0.080	95	78884	2.39	23.9	
3 1,4-Dioxane	88	2.943	2.863	0.081	63	790	0.1031		a
* 2 1,4-Dichlorobenzene-d4	152	5.941	5.934	0.007	100	287741	4.00		

**QC Flag Legend**

Processing Flags

Review Flags

a - User Assigned ID

**Reagents:**

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002742.D

Injection Date: 02-Oct-2020 03:37:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-B-1-A

Lab Sample ID: 480-175657-1

Worklist Smp#: 9

Client ID: MW-1B

Injection Vol: 1.0 ul

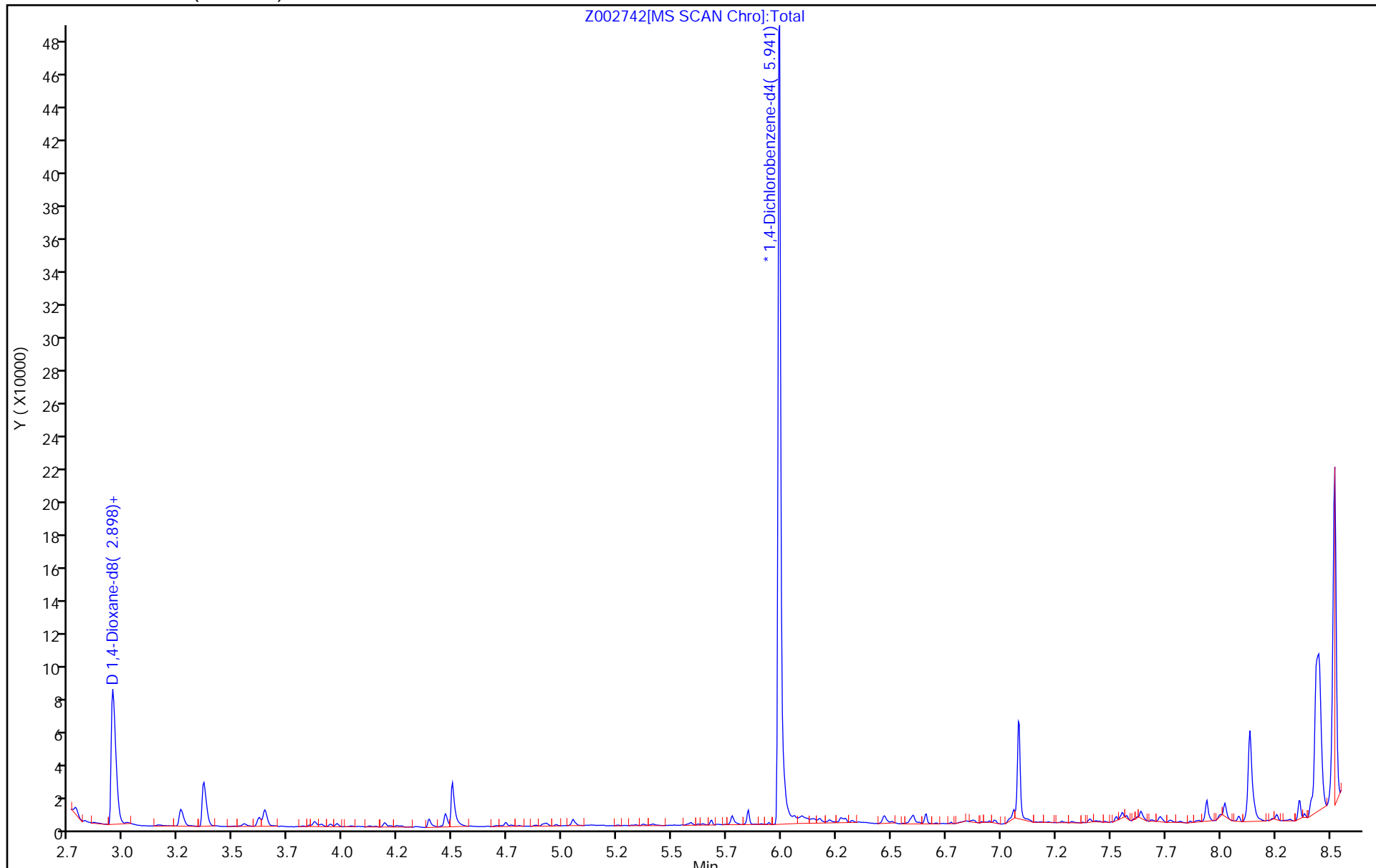
Dil. Factor: 1.0000

ALS Bottle#: 37

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\20201001-93834.b\Z002742.D

Injection Date: 02-Oct-2020 03:37:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-1-A

Lab Sample ID: 480-175657-1

Client ID: MW-1B

Operator ID: PJQ

ALS Bottle#: 37

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

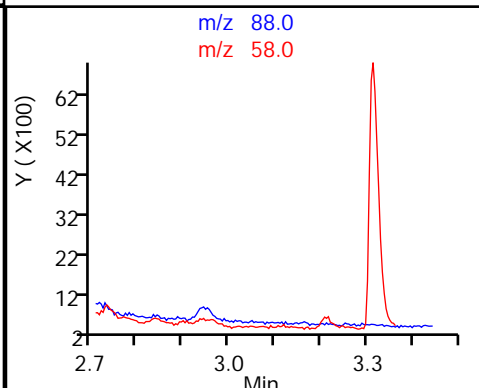
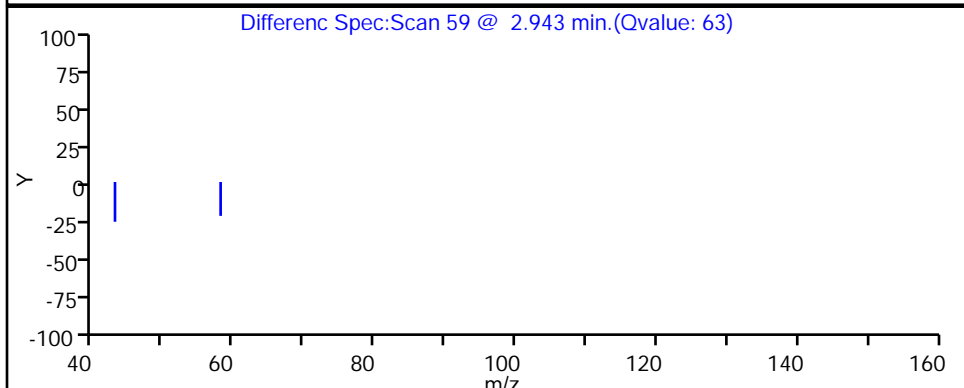
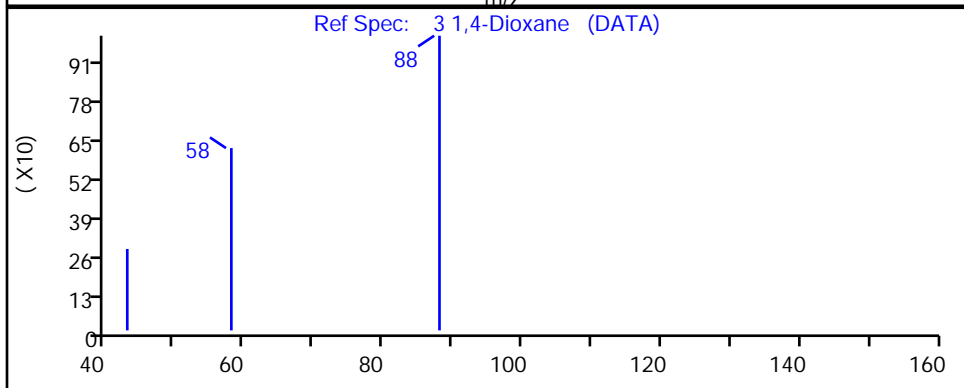
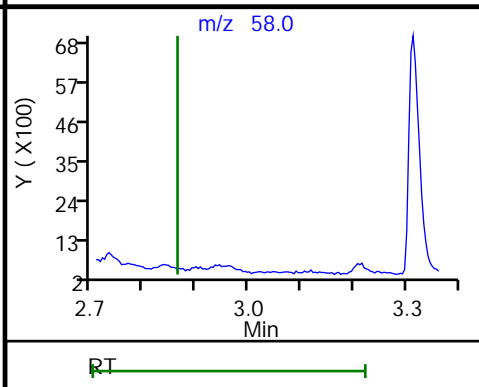
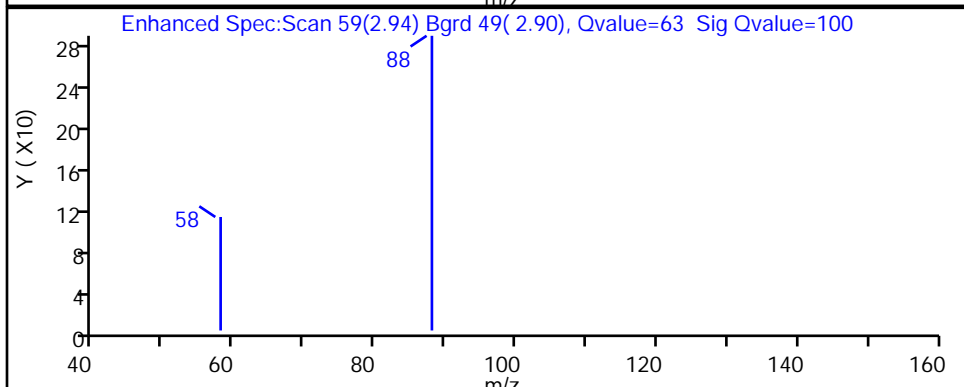
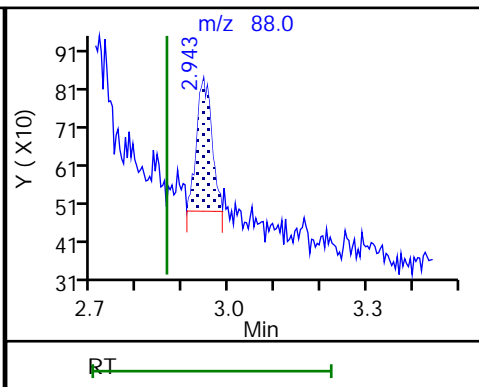
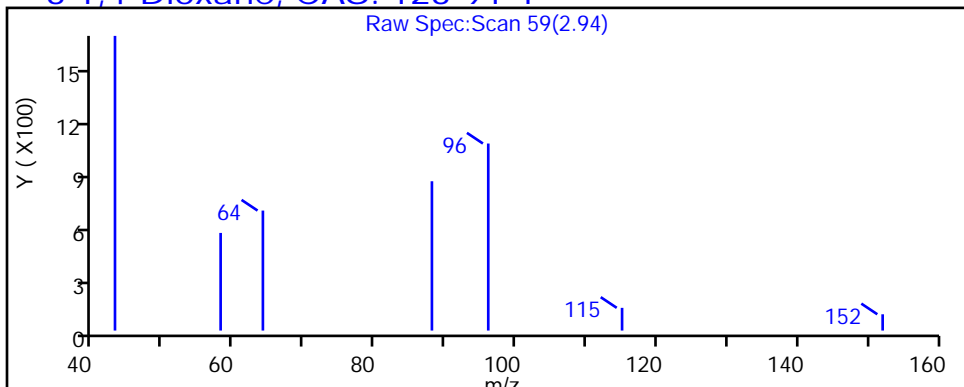
Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002742.D

Injection Date: 02-Oct-2020 03:37:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-1-A

Lab Sample ID: 480-175657-1

Client ID: MW-1B

Operator ID: PJQ

ALS Bottle#: 37

Worklist Smp#: 9

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

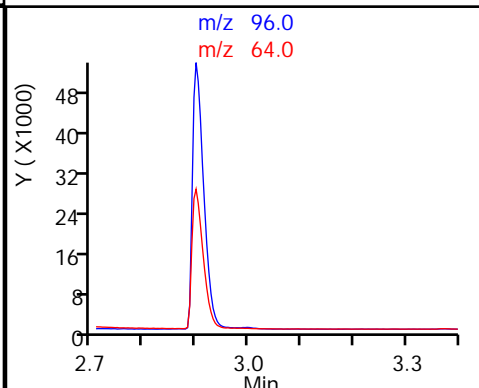
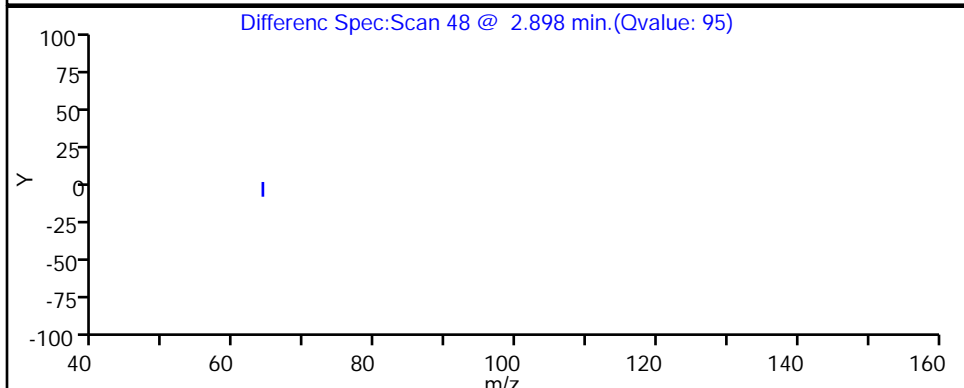
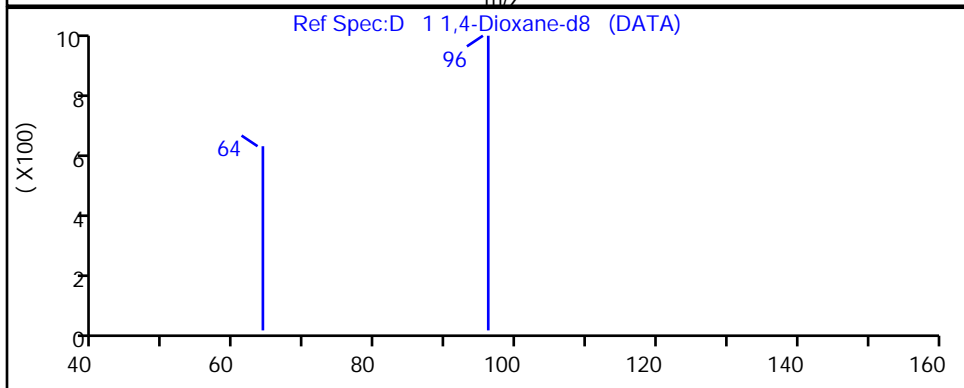
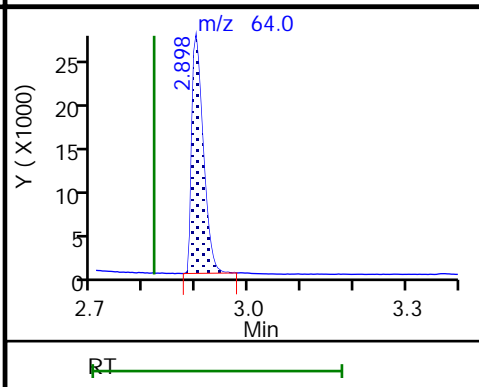
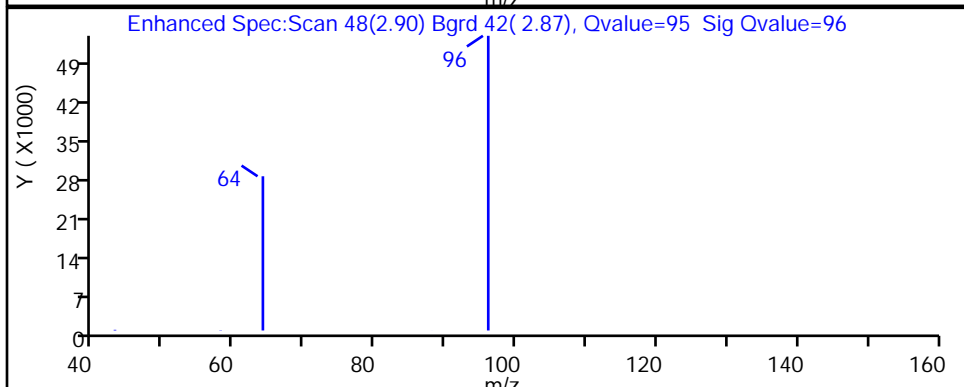
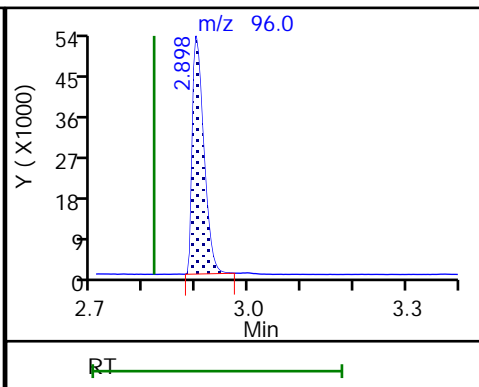
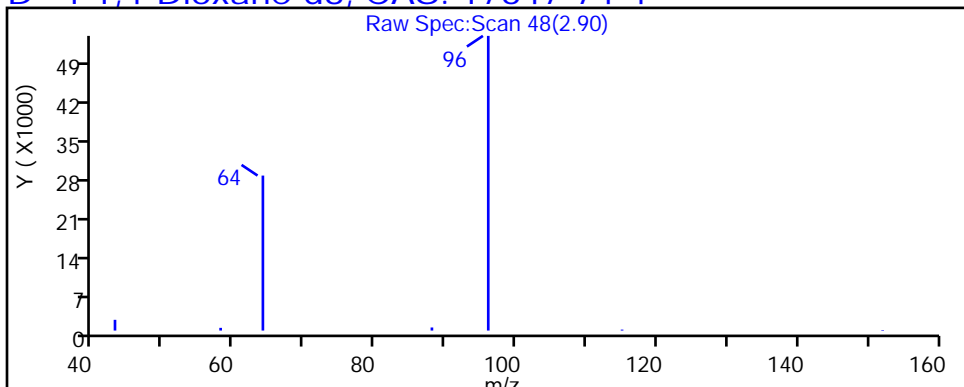
Method: 1.4\_Dx\_SIM\_HP5973Za

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



Eurofins TestAmerica, Buffalo

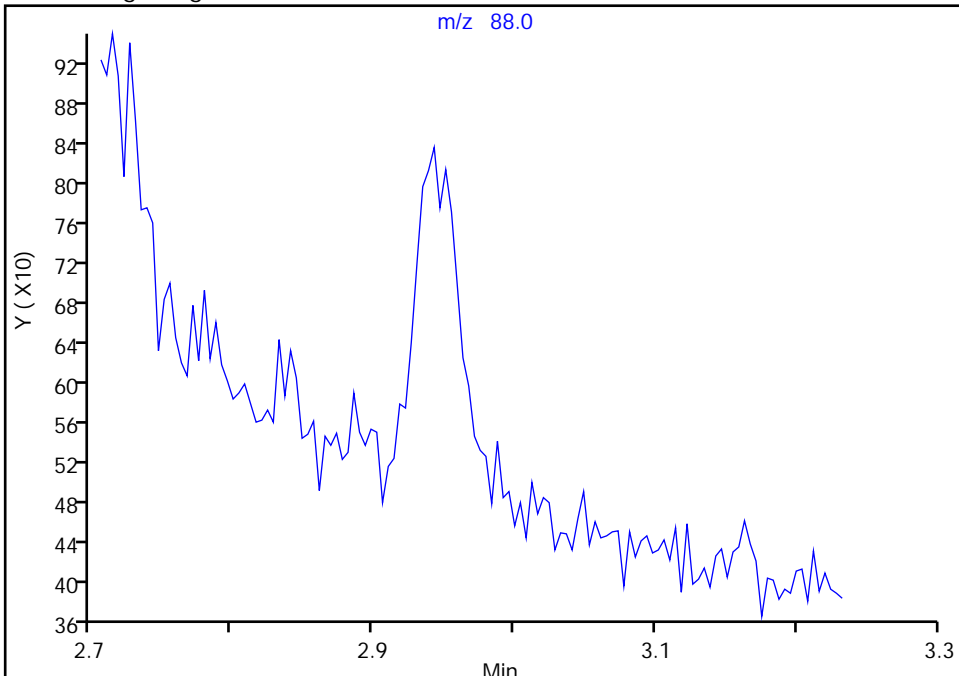
Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002742.D  
Injection Date: 02-Oct-2020 03:37:30 Instrument ID: HP5973Z  
Lims ID: 480-175657-B-1-A Lab Sample ID: 480-175657-1  
Client ID: MW-1B  
Operator ID: PJO ALS Bottle#: 37 Worklist Smp#: 9  
Injection Vol: 1.0 ul Dil. Factor: 1.0000  
Method: 1.4\_Dx\_SIM\_HP5973Za Limit Group: MB - 8270D SIM ID ICAL  
Column: RXI-5Sil MS (0.25 mm) Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1

Signal: 1

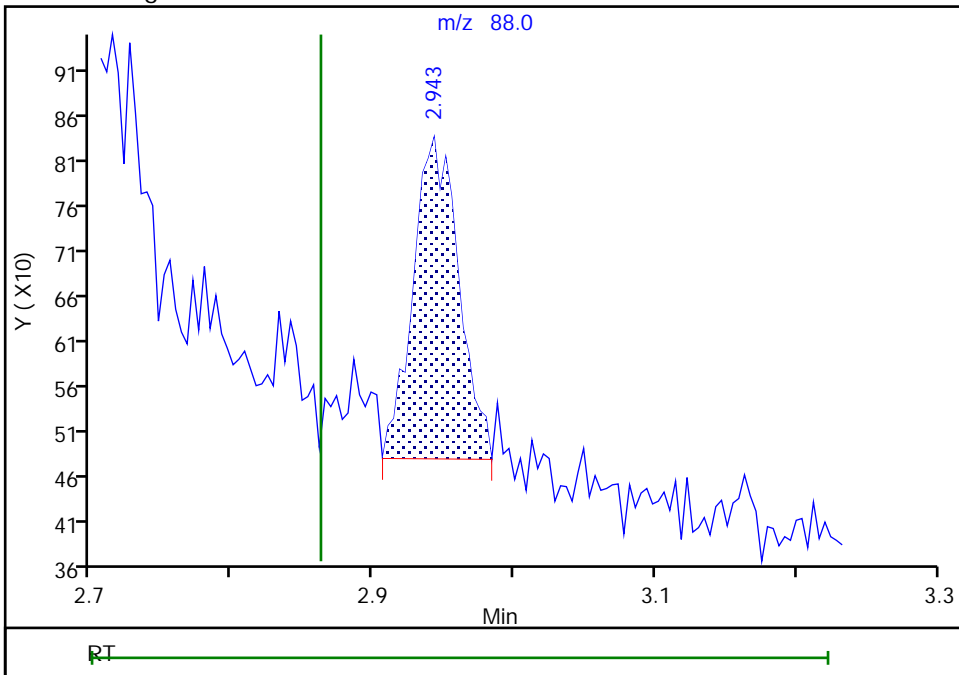
Not Detected  
Expected RT: 2.86

Processing Integration Results



Manual Integration Results

RT: 2.94  
Area: 790  
Amount: 0.103138  
Amount Units: ng/ul



FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3 Lab Sample ID: 480-175657-2  
 Matrix: Water Lab File ID: Z002743.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 13:05  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 04:00  
 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.: 552087 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\20201001-93834.b\Z002743.D  
 Lims ID: 480-175657-A-2-A  
 Client ID: MW-3  
 Sample Type: Client  
 Inject. Date: 02-Oct-2020 04:00:30 ALS Bottle#: 38 Worklist Smp#: 10  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-010  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:36:21 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:36:39

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	2.893	2.818	0.075	96	82778	2.63	26.3	
3 1,4-Dioxane	88		2.863				ND		
* 2 1,4-Dichlorobenzene-d4	152	5.940	5.934	0.006	98	275093	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002743.D

Injection Date: 02-Oct-2020 04:00:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-A-2-A

Lab Sample ID: 480-175657-2

Worklist Smp#: 10

Client ID: MW-3

Injection Vol: 1.0 ul

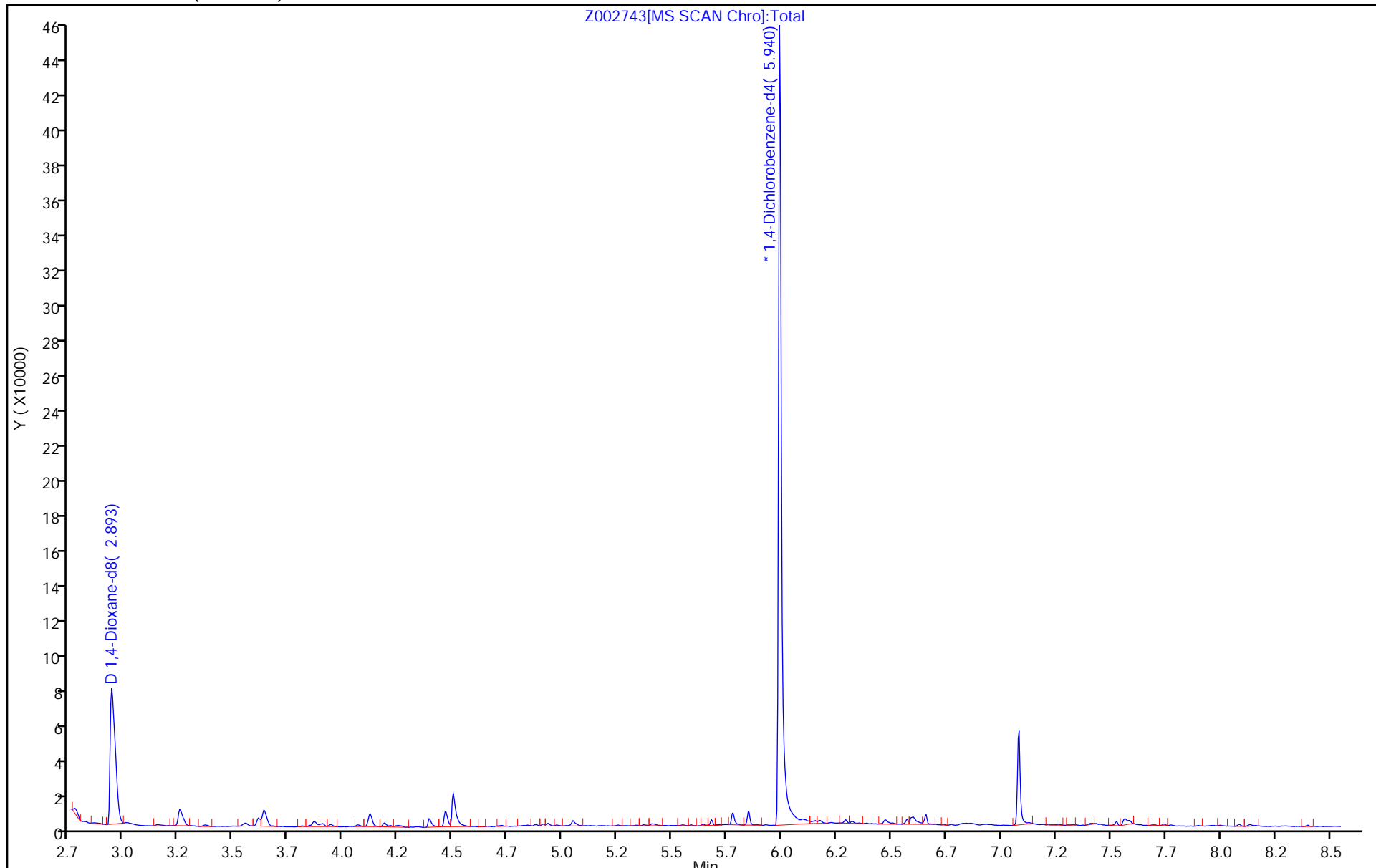
Dil. Factor: 1.0000

ALS Bottle#: 38

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\20201001-93834.b\Z002743.D

Injection Date: 02-Oct-2020 04:00:30

Instrument ID: HP5973Z

Lims ID: 480-175657-A-2-A

Lab Sample ID: 480-175657-2

Client ID: MW-3

Operator ID: PJQ

ALS Bottle#: 38

Worklist Smp#: 10

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

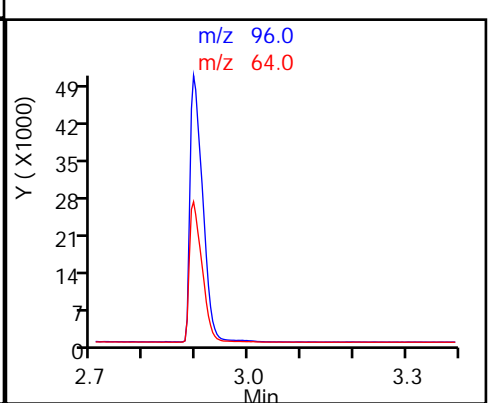
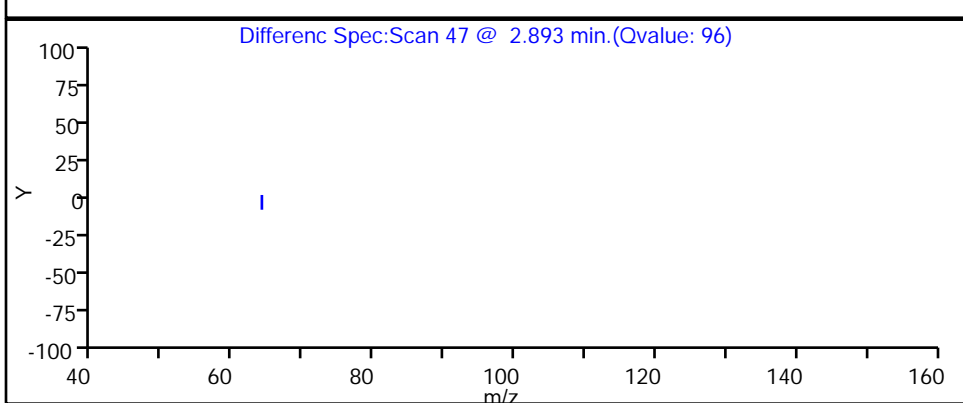
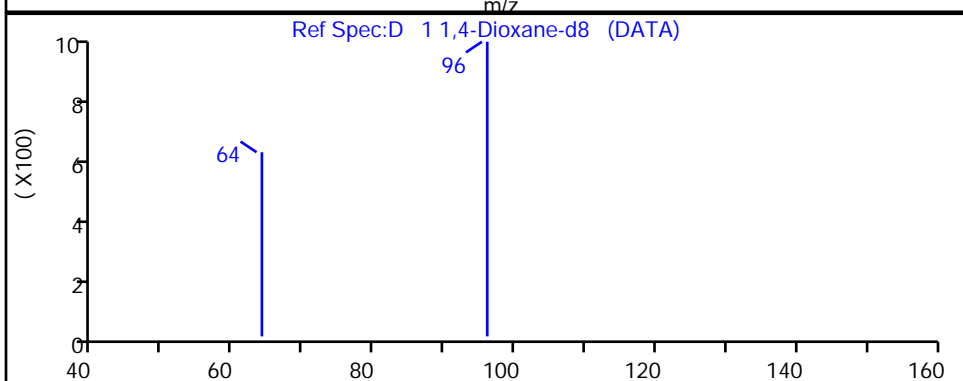
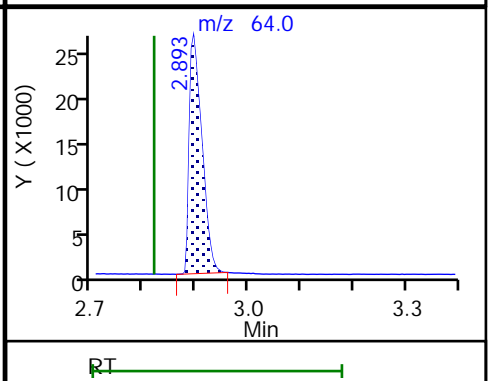
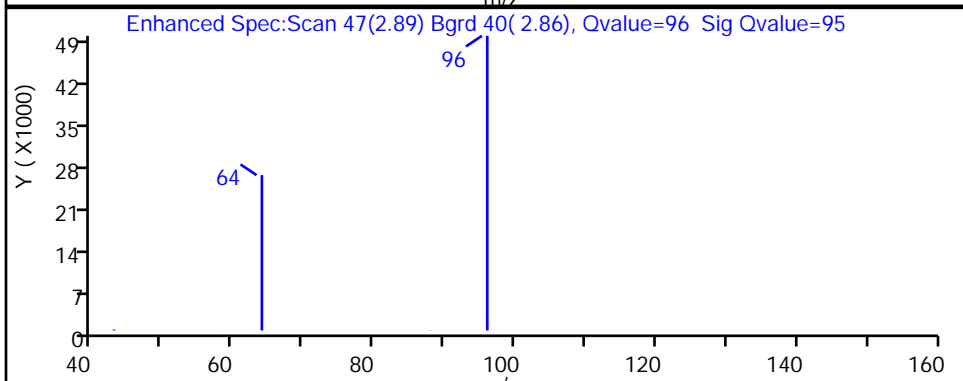
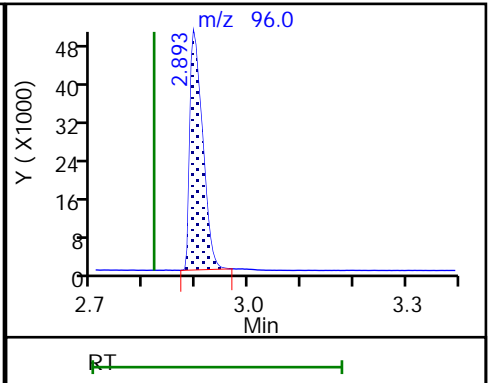
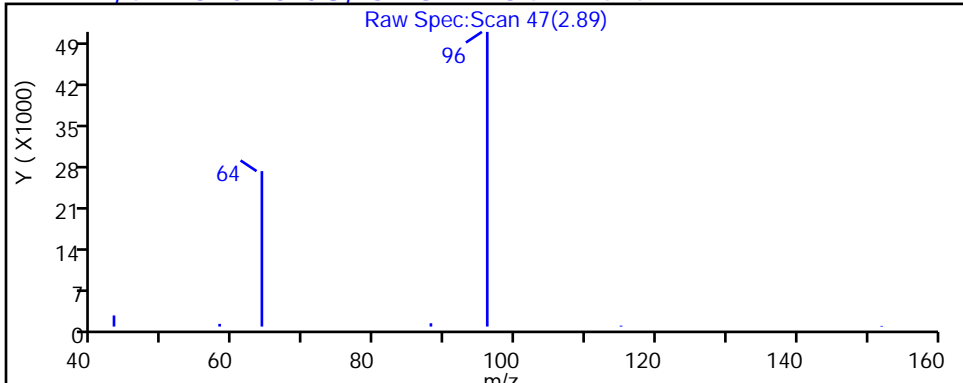
Method: 1.4\_Dx\_SIM\_HP5973Za

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3B Lab Sample ID: 480-175657-3  
 Matrix: Water Lab File ID: Z002744.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 12:30  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 04:22  
 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.: 552087 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.24		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	21		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002744.D  
 Lims ID: 480-175657-B-3-A  
 Client ID: MW-3B  
 Sample Type: Client  
 Inject. Date: 02-Oct-2020 04:22:30 ALS Bottle#: 39 Worklist Smp#: 11  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-011  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:36:21 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:36:51

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	2.875	2.818	0.057	95	67504	2.05	20.5	
3 1,4-Dioxane	88	2.916	2.863	0.054	96	1649	0.2516		
* 2 1,4-Dichlorobenzene-d4	152	5.942	5.934	0.008	99	287431	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002744.D

Injection Date: 02-Oct-2020 04:22:30

Instrument ID: HP5973Z

Operator ID: PJO

Lims ID: 480-175657-B-3-A

Lab Sample ID: 480-175657-3

Worklist Smp#: 11

Client ID: MW-3B

Injection Vol: 1.0 ul

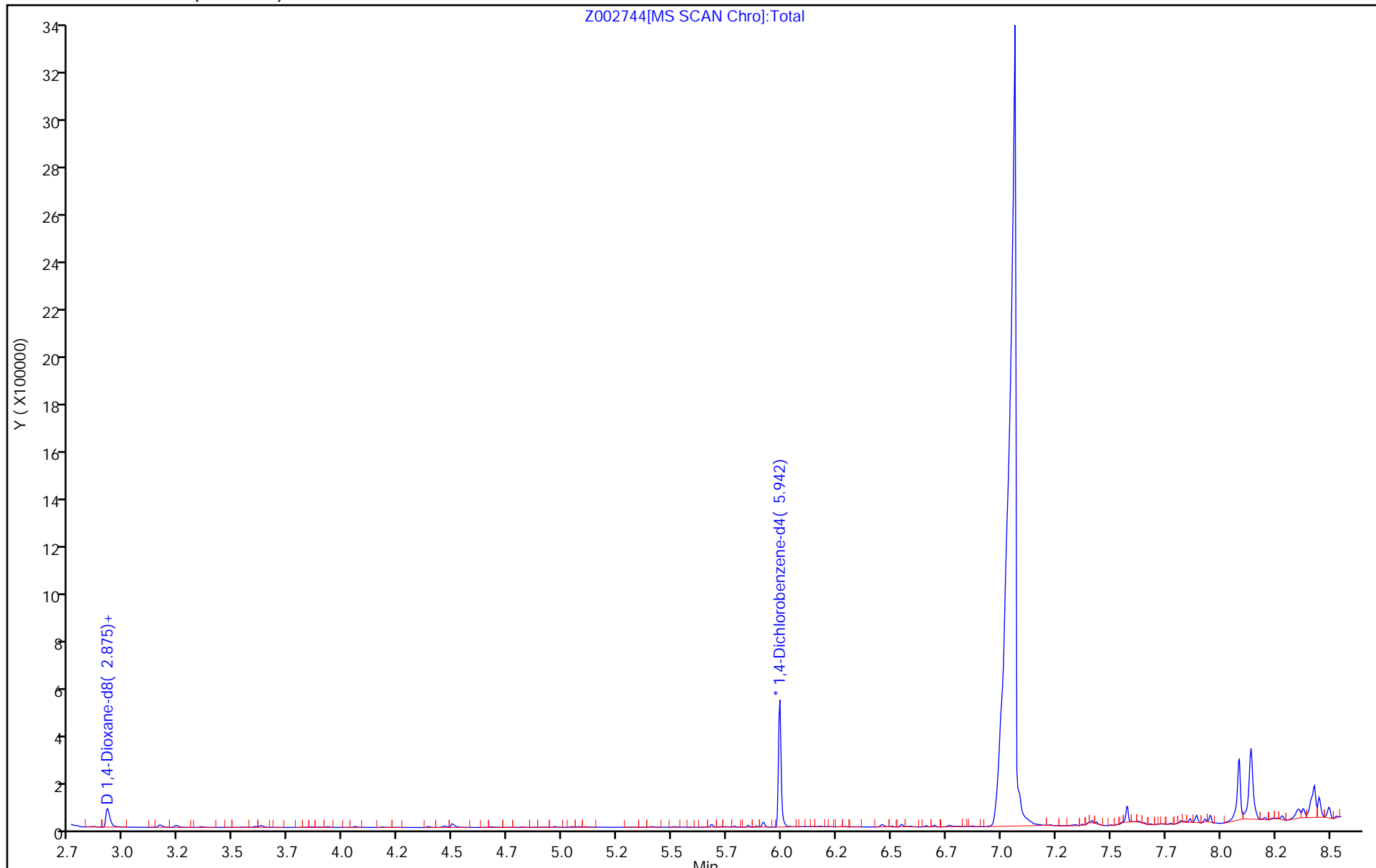
Dil. Factor: 1.0000

ALS Bottle#: 39

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\20201001-93834.b\Z002744.D

Injection Date: 02-Oct-2020 04:22:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-3-A

Lab Sample ID: 480-175657-3

Client ID: MW-3B

Operator ID: PJQ

ALS Bottle#: 39

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

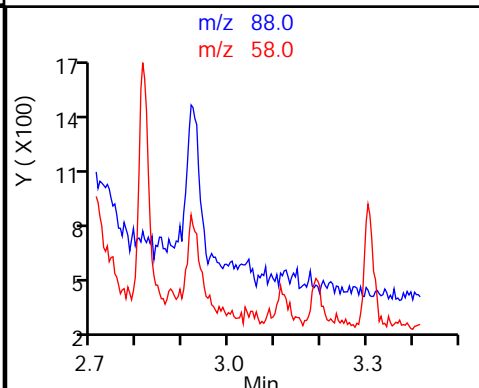
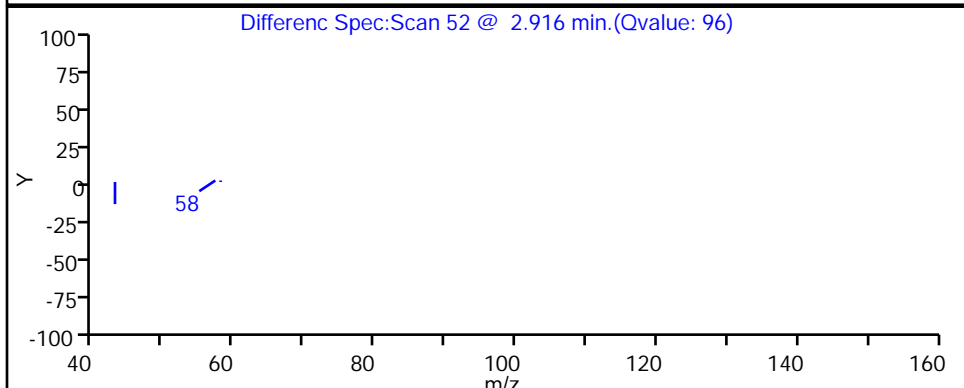
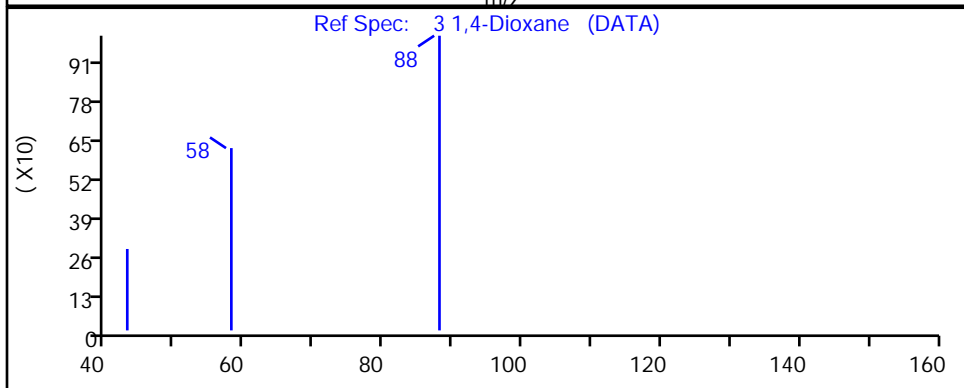
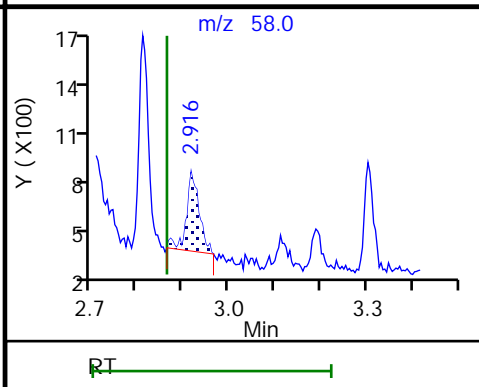
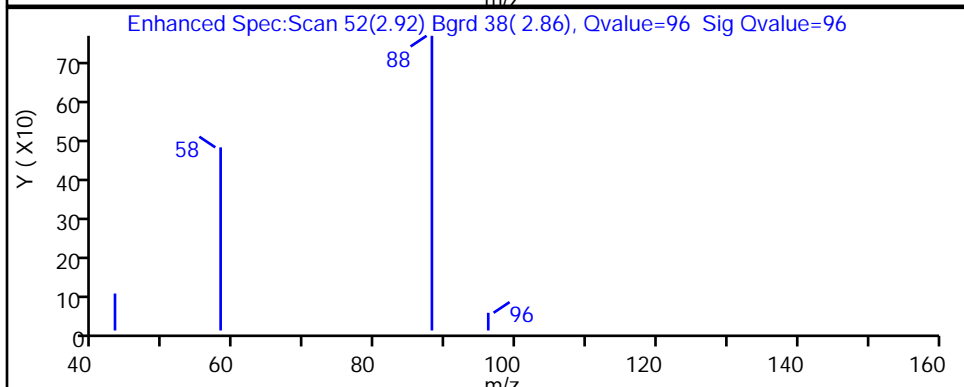
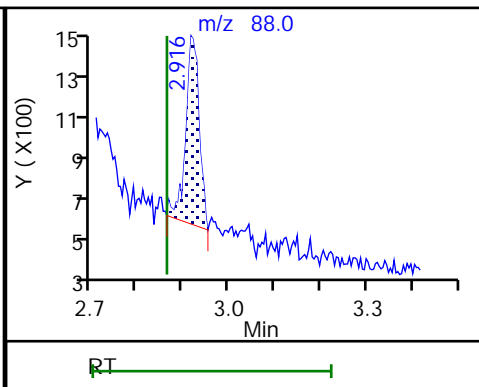
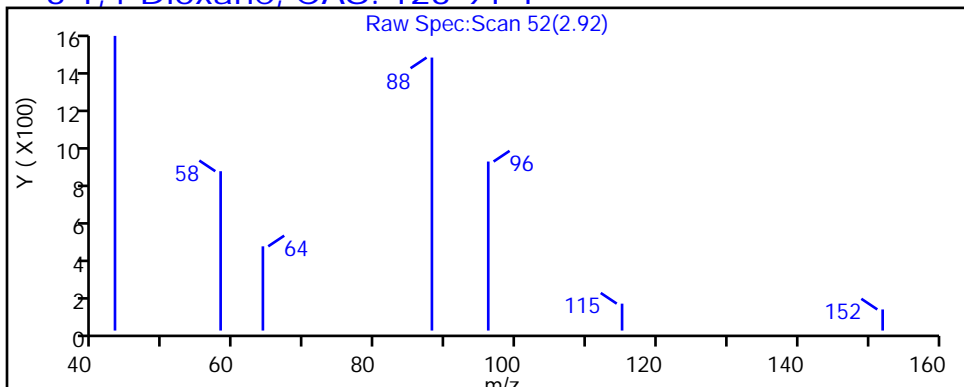
Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002744.D

Injection Date: 02-Oct-2020 04:22:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-3-A

Lab Sample ID: 480-175657-3

Client ID: MW-3B

Operator ID: PJQ

ALS Bottle#: 39

Worklist Smp#: 11

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

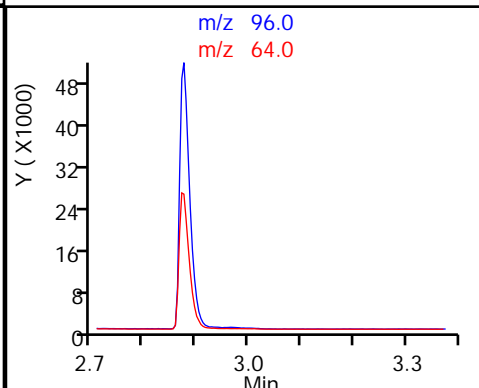
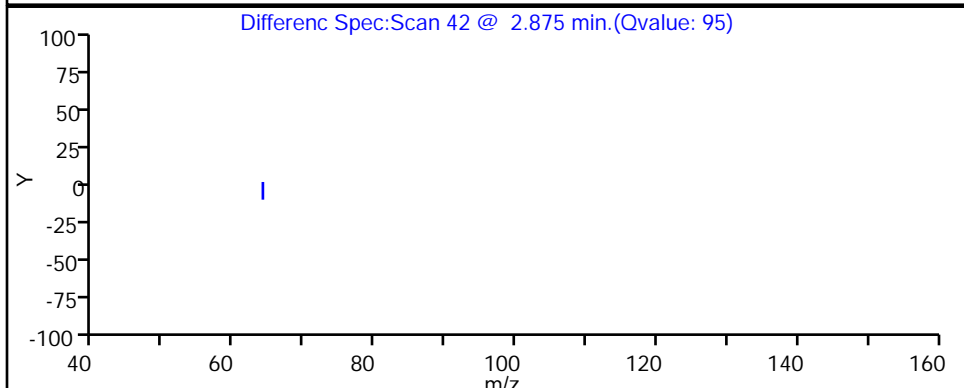
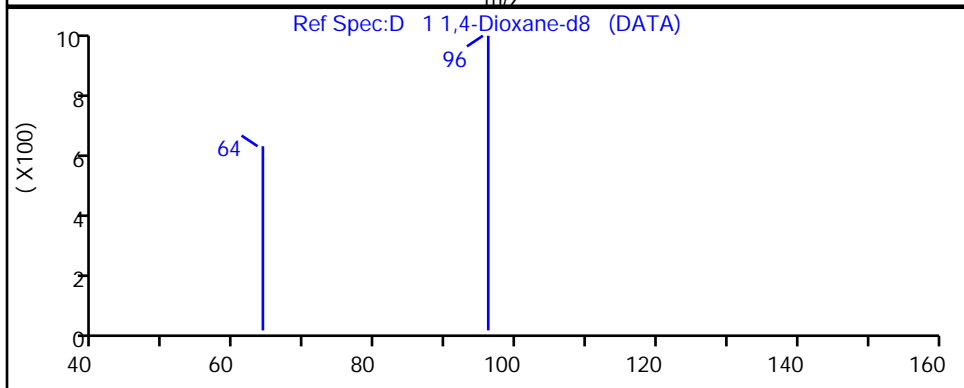
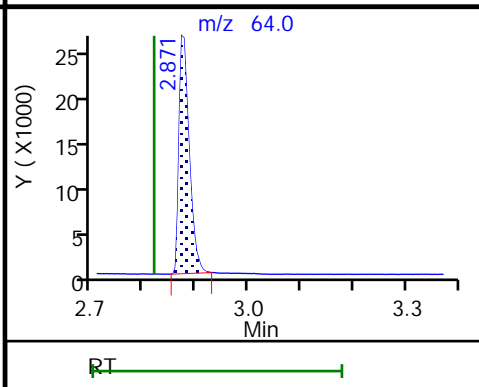
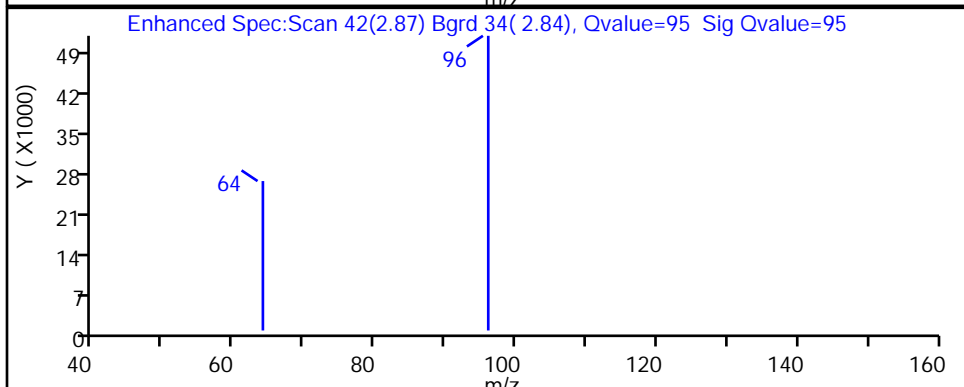
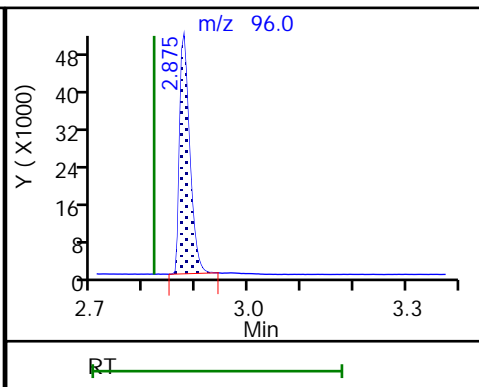
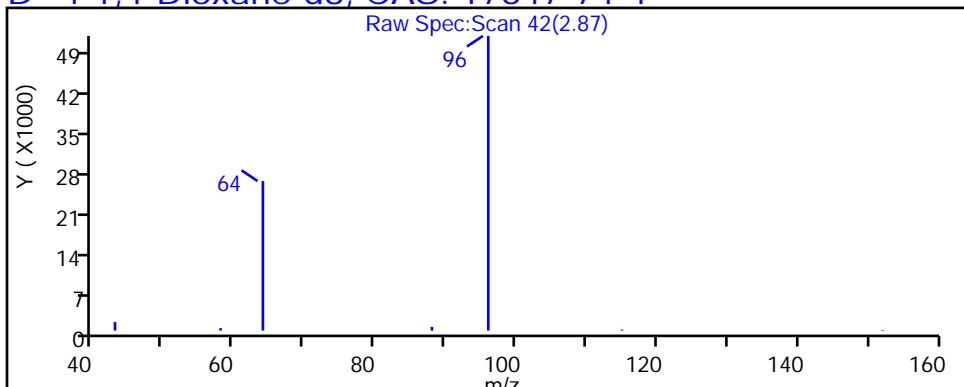
Method: 1.4\_Dx\_SIM\_HP5973Za

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-4 Lab Sample ID: 480-175657-4  
 Matrix: Water Lab File ID: Z002745.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 15:11  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 04:45  
 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.: 552087 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	24		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002745.D  
 Lims ID: 480-175657-B-4-A  
 Client ID: MW-4  
 Sample Type: Client  
 Inject. Date: 02-Oct-2020 04:45:30 ALS Bottle#: 40 Worklist Smp#: 12  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-012  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:36:21 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:37:07

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	2.890	2.818	0.072	95	78396	2.38	23.8	
3 1,4-Dioxane	88		2.863				ND		
* 2 1,4-Dichlorobenzene-d4	152	5.942	5.934	0.008	99	287895	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002745.D

Injection Date: 02-Oct-2020 04:45:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-B-4-A

Lab Sample ID: 480-175657-4

Worklist Smp#: 12

Client ID: MW-4

Injection Vol: 1.0 ul

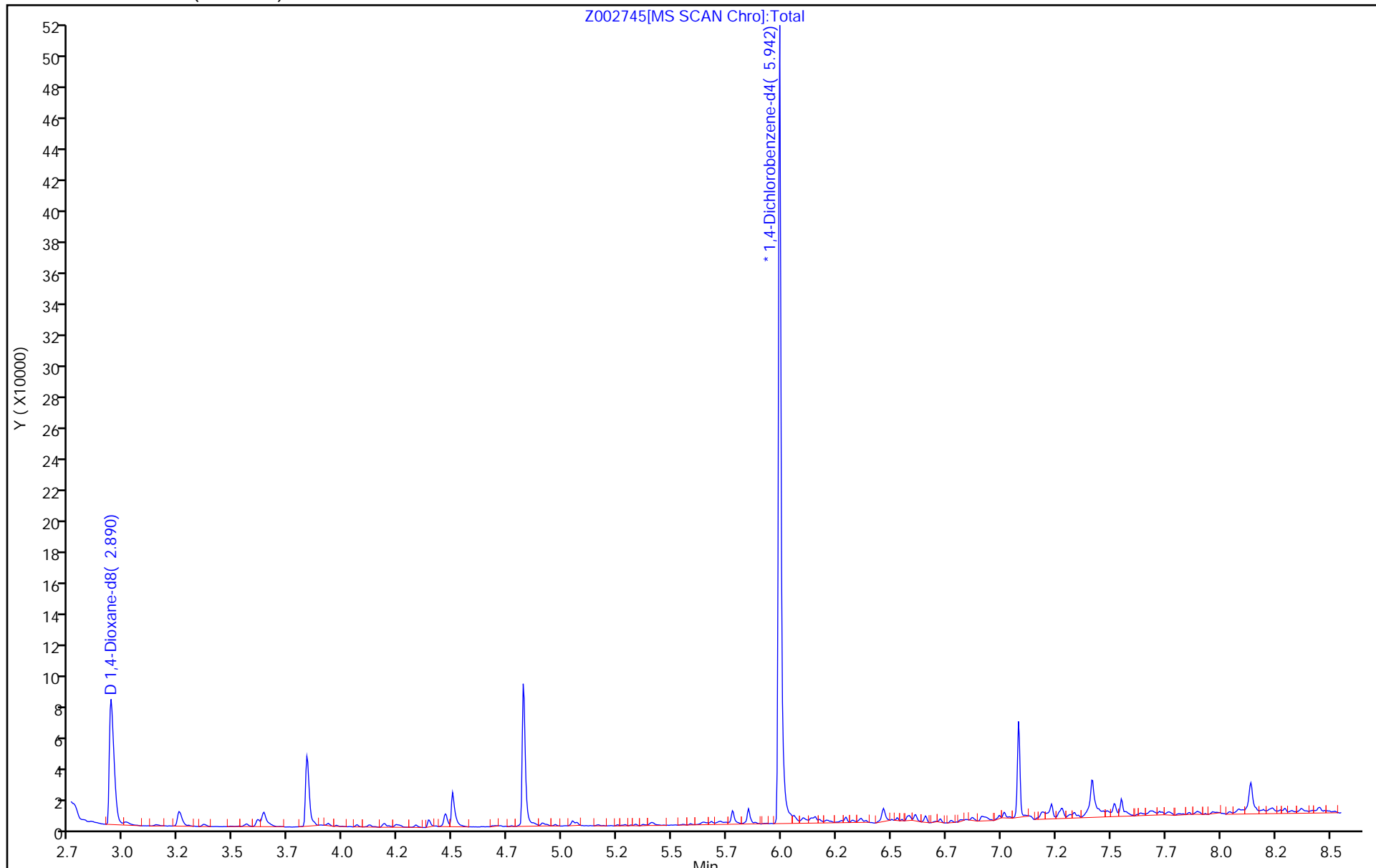
Dil. Factor: 1.0000

ALS Bottle#: 40

Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Euofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002745.D

Injection Date: 02-Oct-2020 04:45:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-4-A

Lab Sample ID: 480-175657-4

Client ID: MW-4

Operator ID: PJQ

ALS Bottle#: 40

Worklist Smp#: 12

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

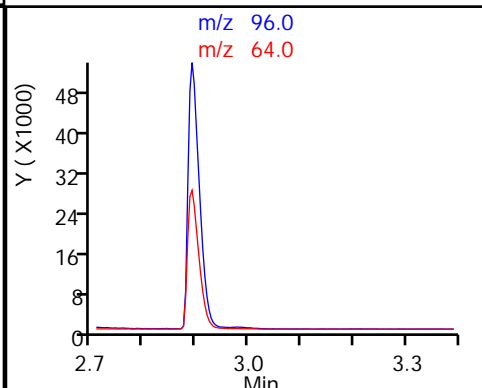
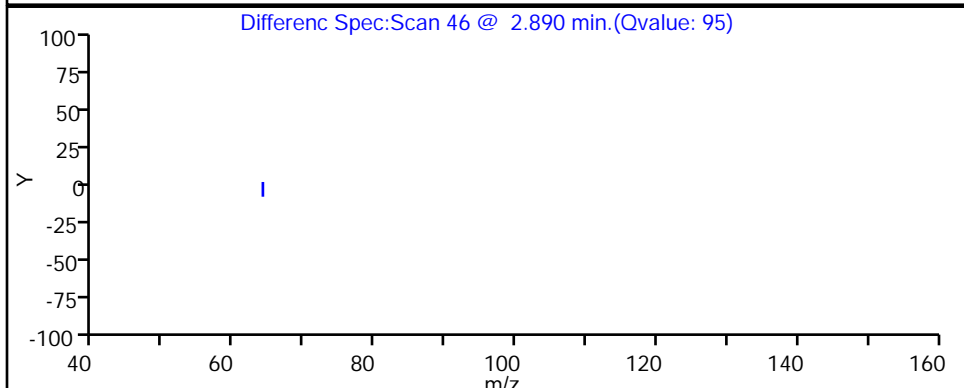
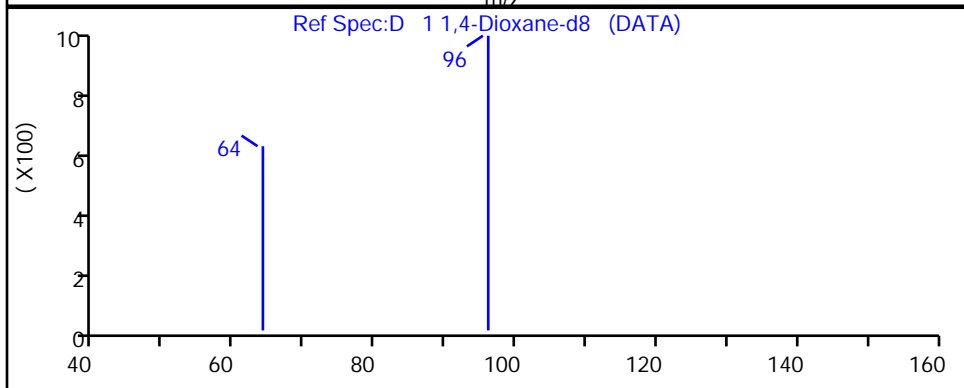
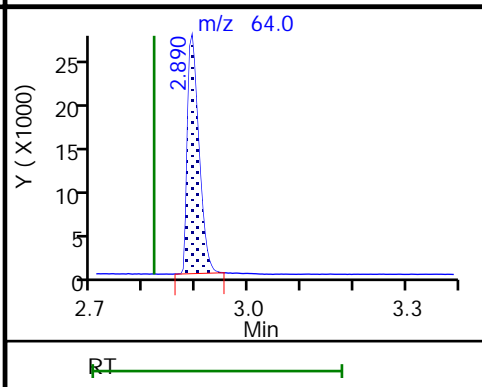
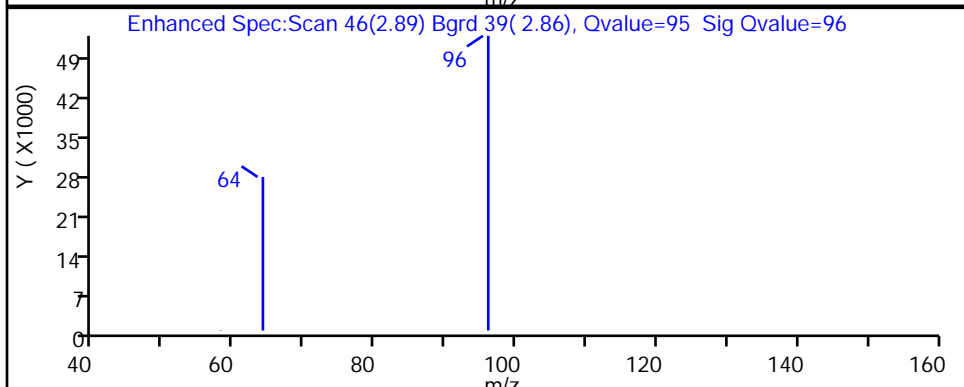
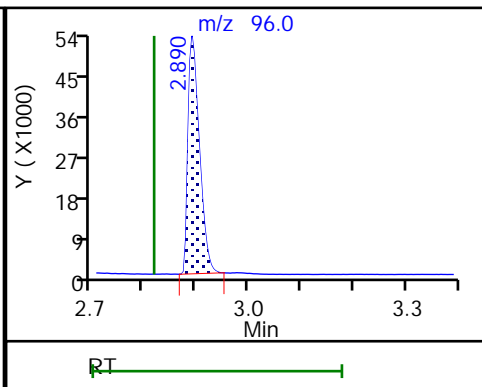
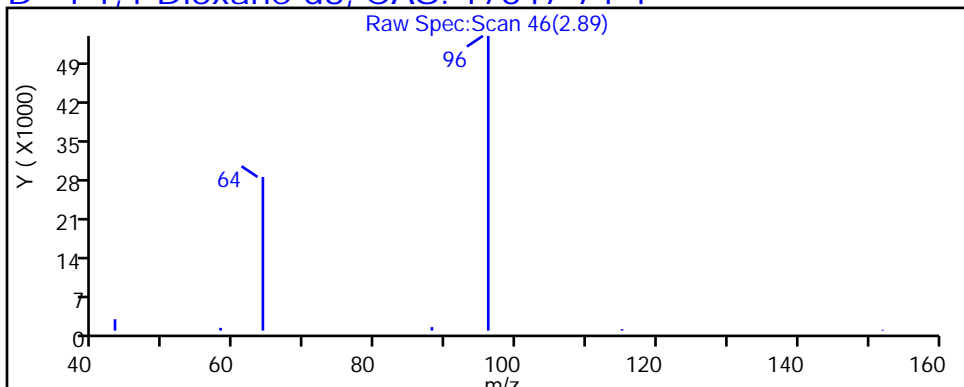
Method: 1.4\_Dx\_SIM\_HP5973Za

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 I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5 Lab Sample ID: 480-175657-5  
 Matrix: Water Lab File ID: Z002746.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 10:55  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 05:08  
 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.: 552087 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	49		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002746.D  
 Lims ID: 480-175657-B-5-A  
 Client ID: MW-5  
 Sample Type: Client  
 Inject. Date: 02-Oct-2020 05:08:30 ALS Bottle#: 41 Worklist Smp#: 13  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-013  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:36:21 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:37:53

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	2.931	2.818	0.113	95	159213	4.94	49.4	
3 1,4-Dioxane	88		2.863				ND		
* 2 1,4-Dichlorobenzene-d4	152	5.946	5.934	0.012	99	281640	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002746.D

Injection Date: 02-Oct-2020 05:08:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-B-5-A

Lab Sample ID: 480-175657-5

Worklist Smp#: 13

Client ID: MW-5

Injection Vol: 1.0 ul

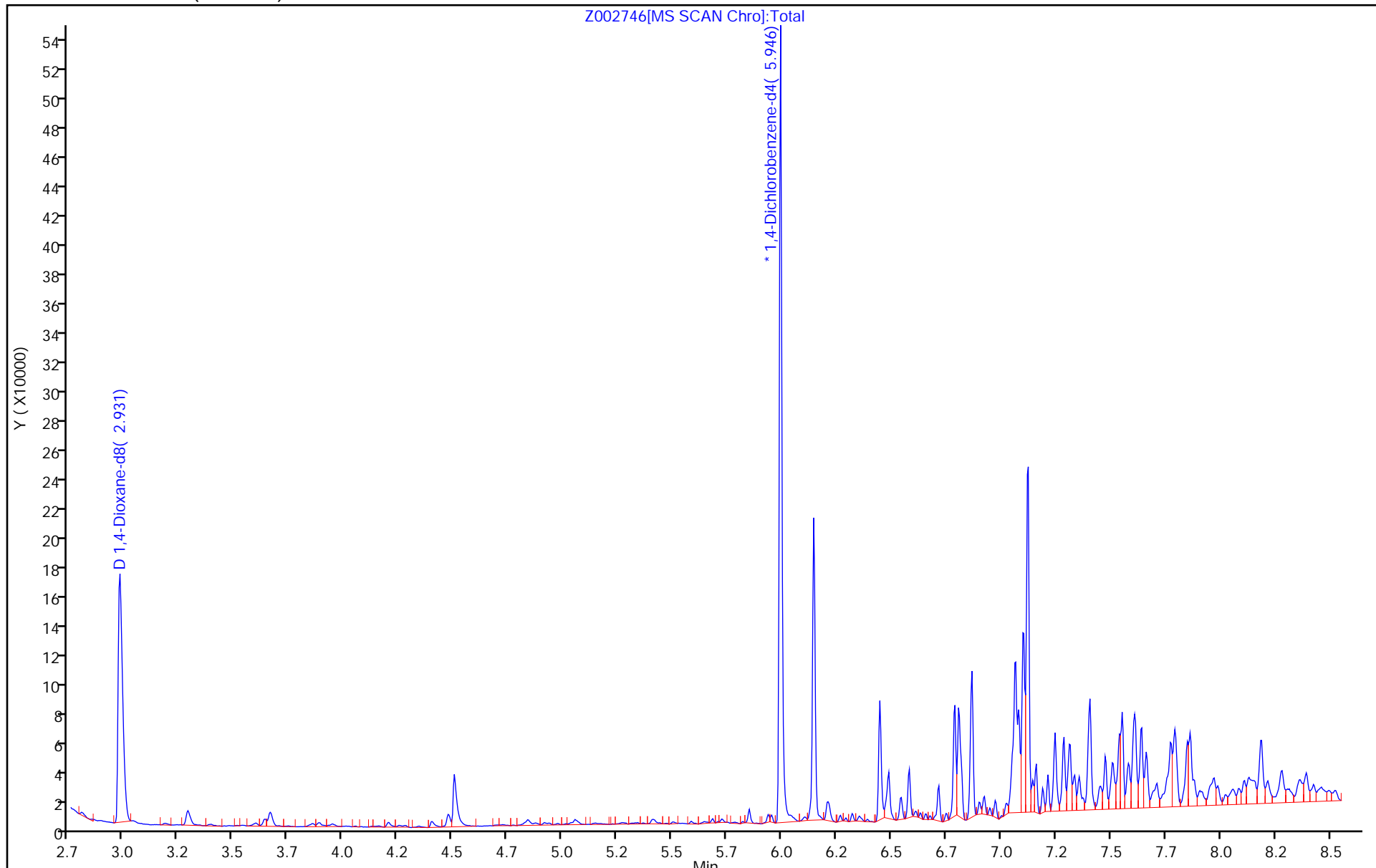
Dil. Factor: 1.0000

ALS Bottle#: 41

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\20201001-93834.b\Z002746.D

Injection Date: 02-Oct-2020 05:08:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-5-A

Lab Sample ID: 480-175657-5

Client ID: MW-5

Operator ID: PJQ

ALS Bottle#: 41 Worklist Smp#: 13

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

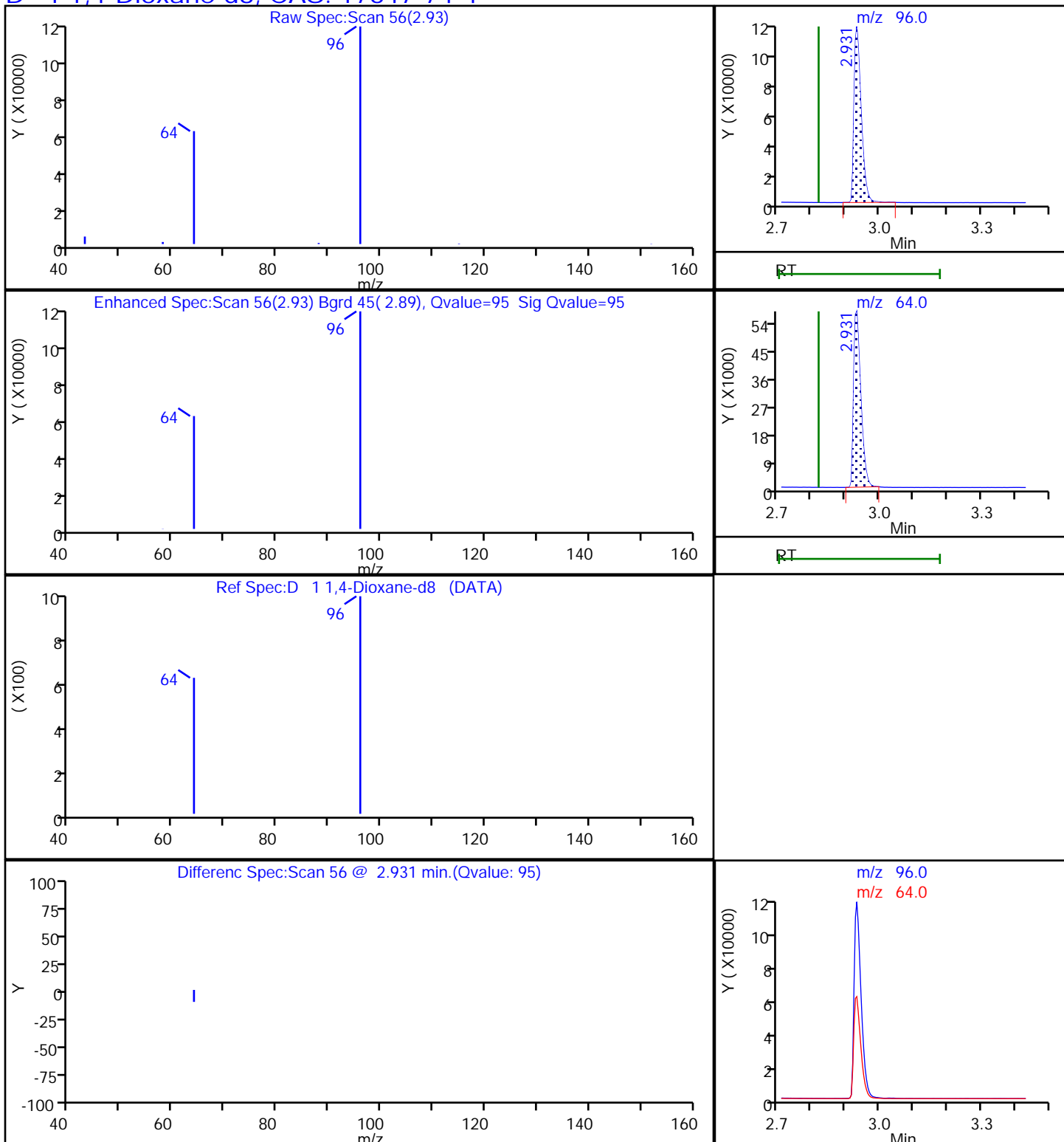
Method: 1.4\_Dx\_SIM\_HP5973Za

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B Lab Sample ID: 480-175657-6  
 Matrix: Water Lab File ID: Z002741.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 09:56  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 03:14  
 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.: 552087 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	25		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002741.D  
 Lims ID: 480-175657-B-6-A  
 Client ID: MW-5B  
 Sample Type: Client  
 Inject. Date: 02-Oct-2020 03:14:30 ALS Bottle#: 36 Worklist Smp#: 8  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-008  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:35:33 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:36:02

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	2.897	2.818	0.079	95	81926	2.48	24.8	
3 1,4-Dioxane	88		2.863				ND		
* 2 1,4-Dichlorobenzene-d4	152	5.940	5.934	0.006	99	287911	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002741.D

Injection Date: 02-Oct-2020 03:14:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-B-6-A

Lab Sample ID: 480-175657-6

Worklist Smp#: 8

Client ID: MW-5B

Injection Vol: 1.0 ul

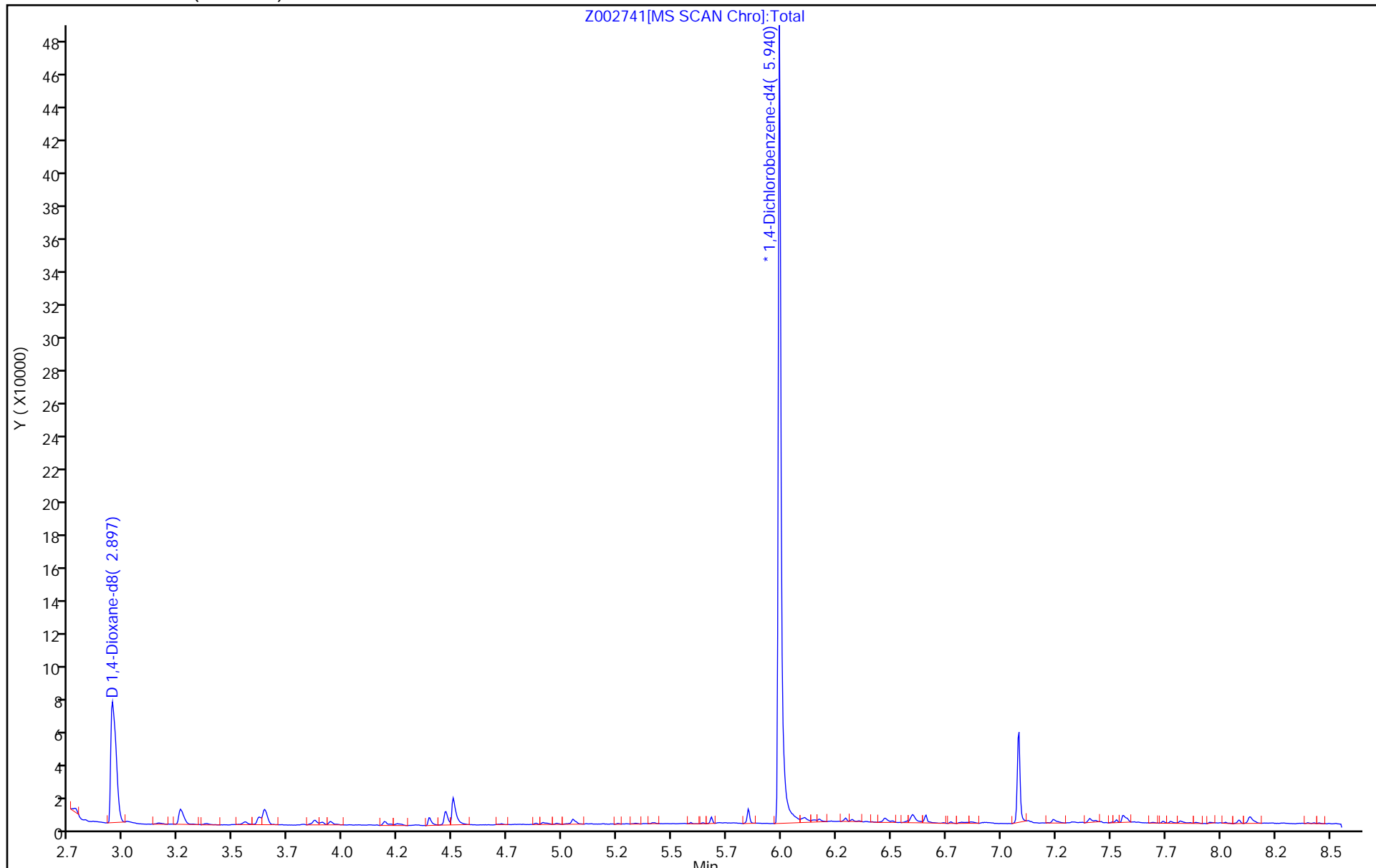
Dil. Factor: 1.0000

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\20201001-93834.b\Z002741.D

Injection Date: 02-Oct-2020 03:14:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-6-A

Lab Sample ID: 480-175657-6

Client ID: MW-5B

Operator ID: PJQ

ALS Bottle#: 36

Worklist Smp#: 8

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

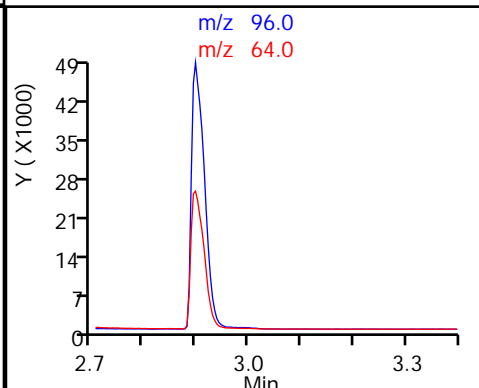
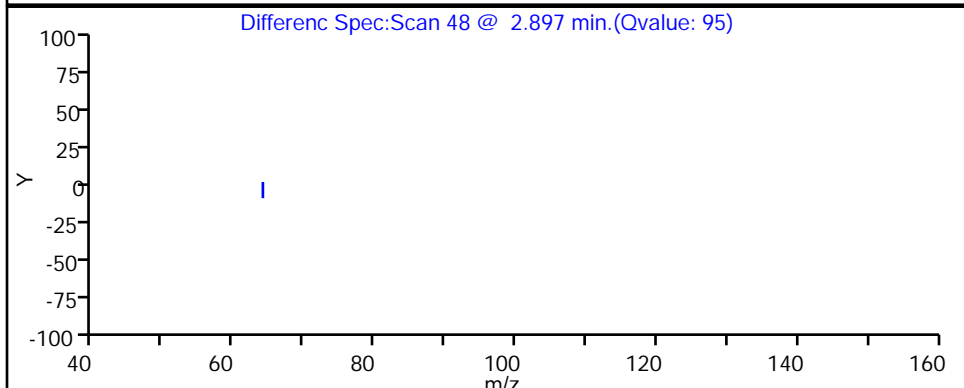
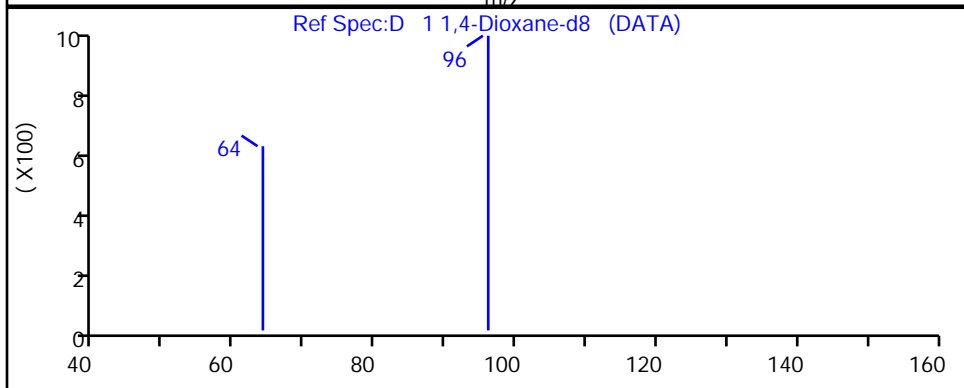
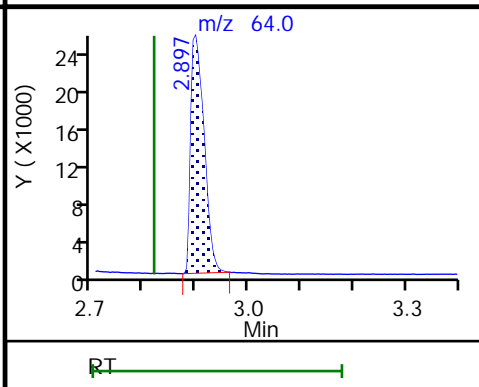
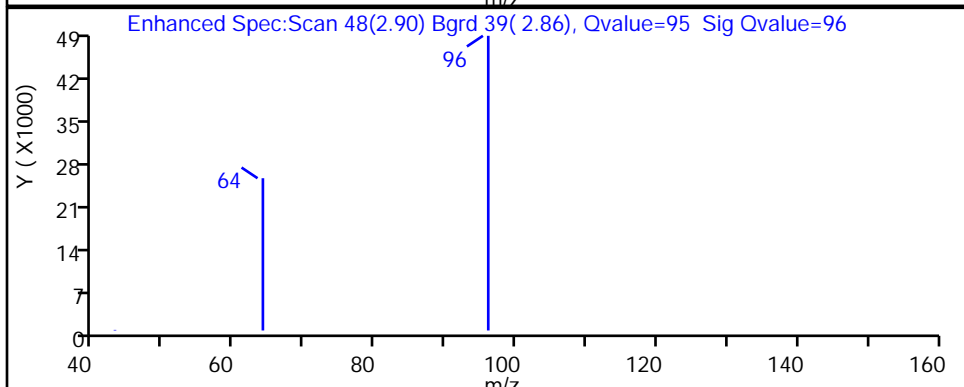
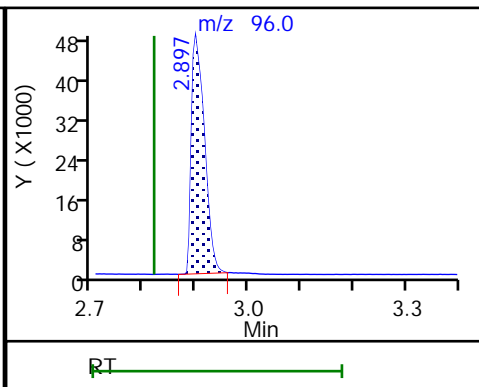
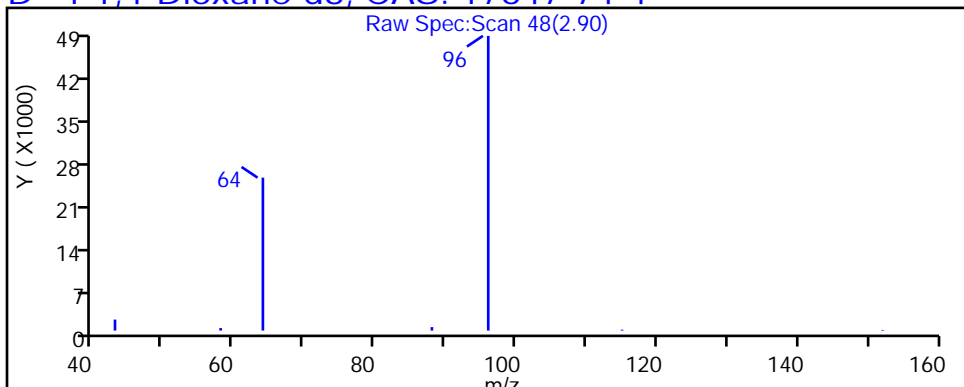
Method: 1.4\_Dx\_SIM\_HP5973Za

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: DUPLICATE Lab Sample ID: 480-175657-7  
 Matrix: Water Lab File ID: Z002747.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 12:05  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 05:30  
 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.: 552087 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.12	J	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\20201001-93834.b\Z002747.D  
 Lims ID: 480-175657-B-7-A  
 Client ID: DUPLICATE  
 Sample Type: Client  
 Inject. Date: 02-Oct-2020 05:30:30 ALS Bottle#: 42 Worklist Smp#: 14  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-014  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:36:21 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:38:04

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	2.902	2.818	0.084	95	94503	2.65	26.5	
3 1,4-Dioxane	88	2.946	2.863	0.084	72	1121	0.1222		
* 2 1,4-Dichlorobenzene-d4	152	5.945	5.934	0.011	100	311166	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002747.D

Injection Date: 02-Oct-2020 05:30:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-B-7-A

Lab Sample ID: 480-175657-7

Worklist Smp#: 14

Client ID: DUPLICATE

Injection Vol: 1.0 ul

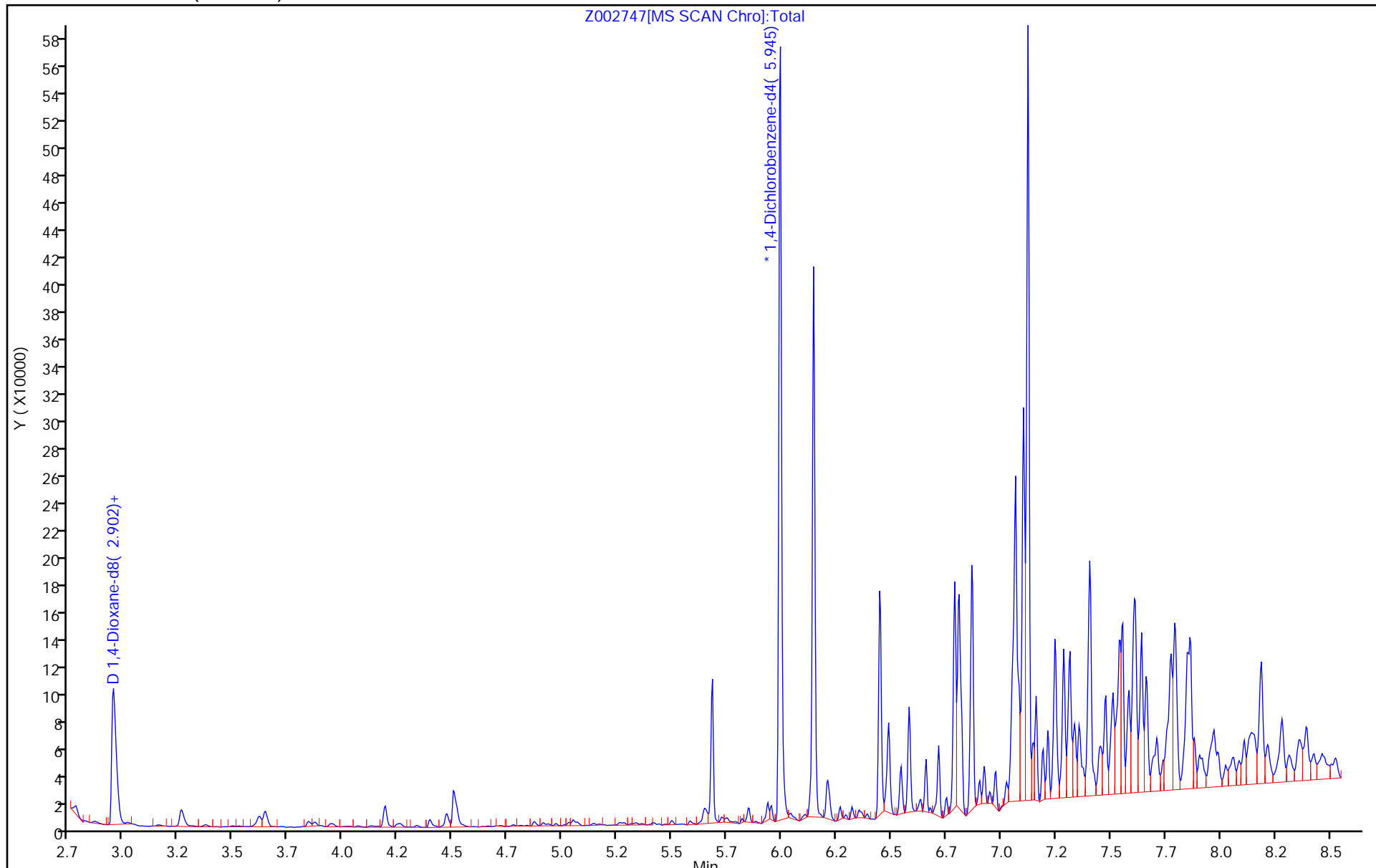
Dil. Factor: 1.0000

ALS Bottle#: 42

Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Euromins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002747.D

Injection Date: 02-Oct-2020 05:30:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-7-A

Lab Sample ID: 480-175657-7

Client ID: DUPLICATE

Operator ID: PJQ

ALS Bottle#: 42

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

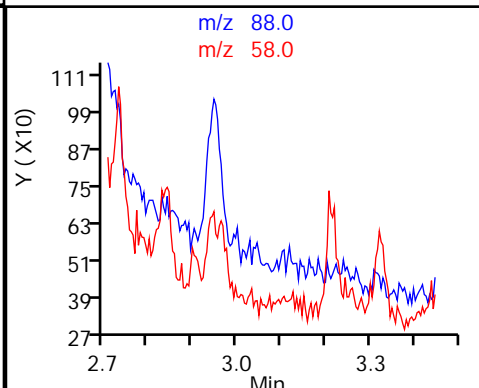
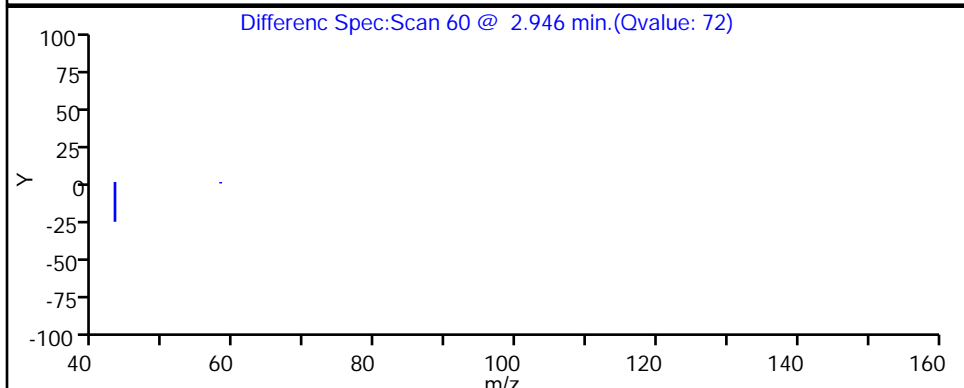
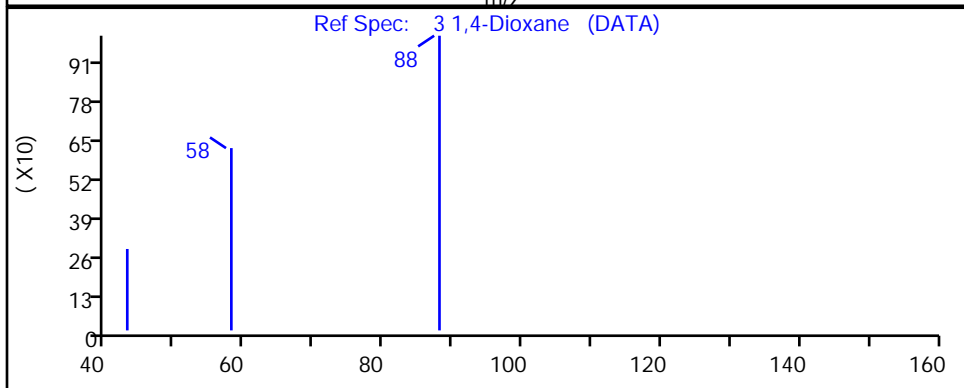
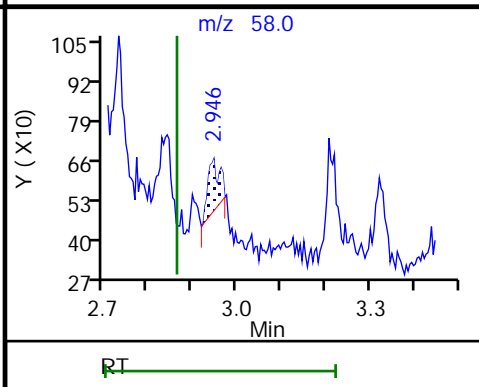
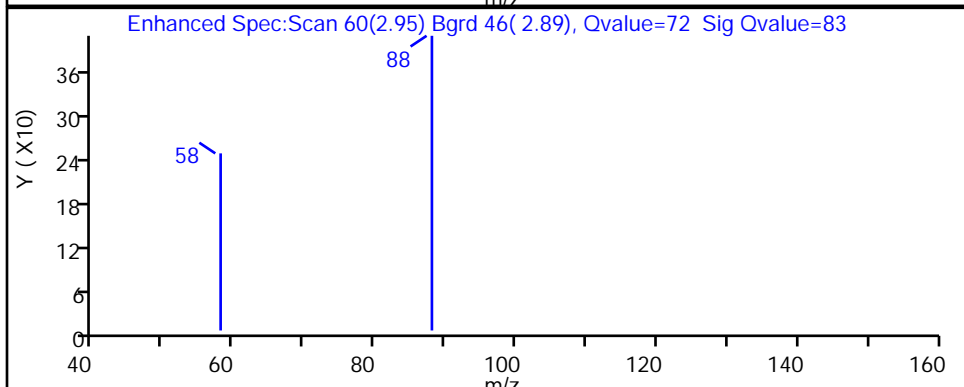
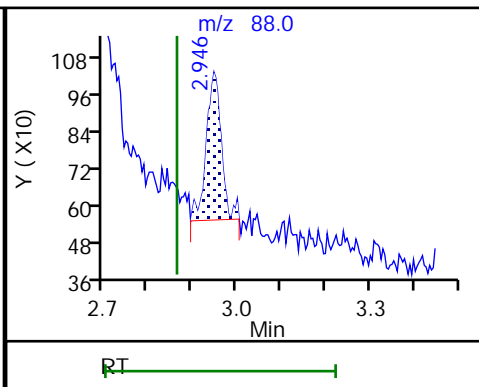
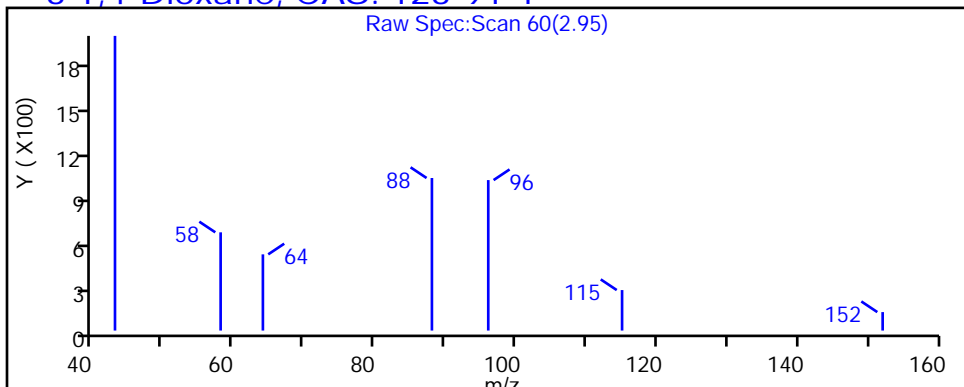
Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1





Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002747.D

Injection Date: 02-Oct-2020 05:30:30

Instrument ID: HP5973Z

Lims ID: 480-175657-B-7-A

Lab Sample ID: 480-175657-7

Client ID: DUPLICATE

Operator ID: PJQ

ALS Bottle#: 42

Worklist Smp#: 14

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

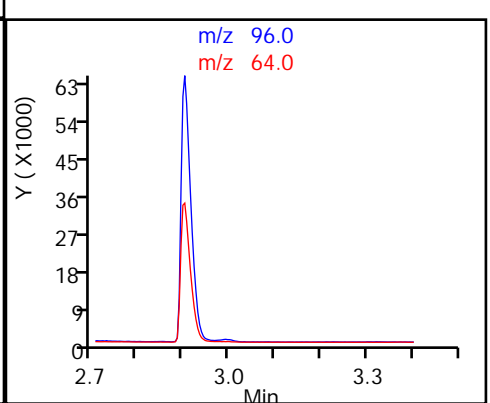
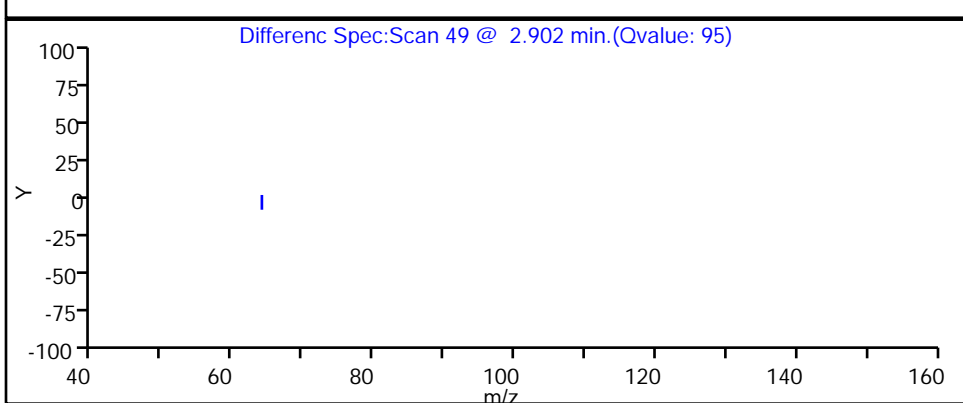
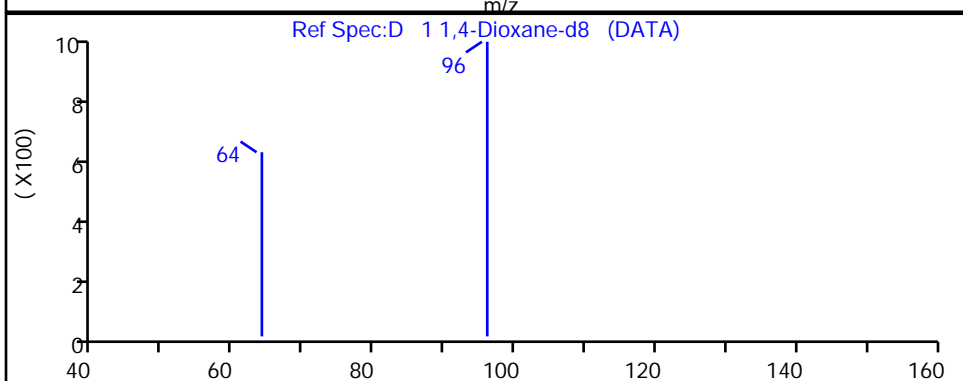
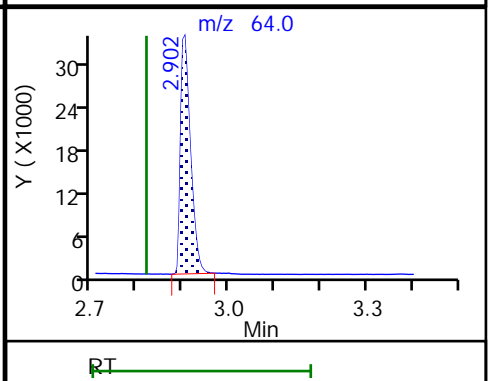
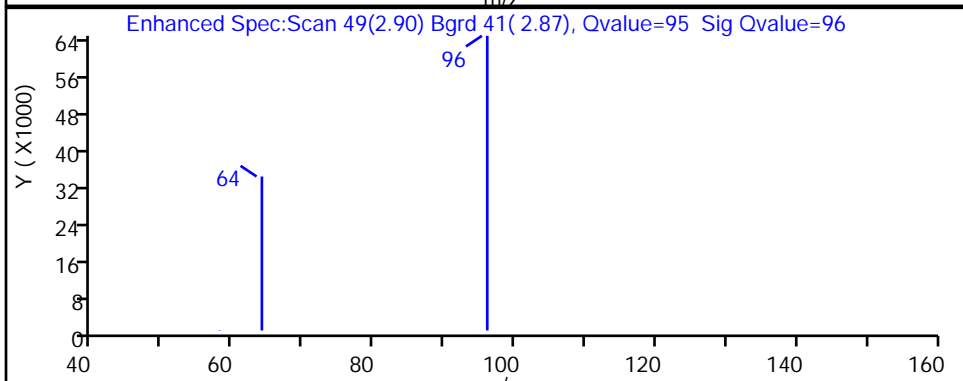
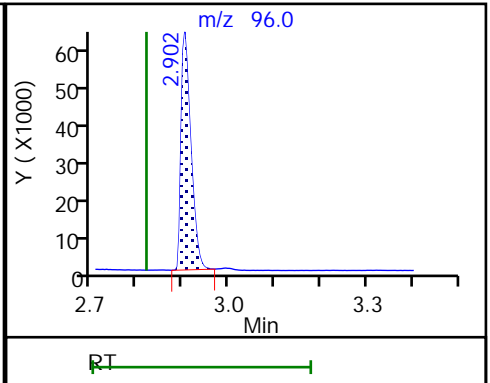
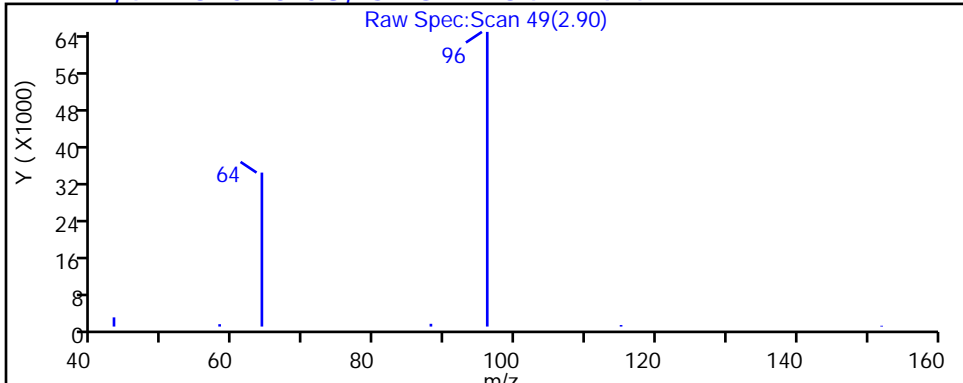
Method: 1.4\_Dx\_SIM\_HP5973Za

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQUIPMENT BLANK Lab Sample ID: 480-175657-8  
 Matrix: Water Lab File ID: Z002748.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 13:30  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 05:53  
 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.: 552087 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	0.41		0.19	0.095

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\20201001-93834.b\Z002748.D  
 Lims ID: 480-175657-A-8-A  
 Client ID: EQUIPMENT BLANK  
 Sample Type: Client  
 Inject. Date: 02-Oct-2020 05:53:30 ALS Bottle#: 43 Worklist Smp#: 15  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-015  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:36:21 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:38:37

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	2.910	2.818	0.092	96	95556	2.83	28.3	
3 1,4-Dioxane	88	2.955	2.863	0.093	93	4016	0.4328		
* 2 1,4-Dichlorobenzene-d4	152	5.945	5.934	0.011	99	294772	4.00		

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002748.D

Injection Date: 02-Oct-2020 05:53:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-A-8-A

Lab Sample ID: 480-175657-8

Worklist Smp#: 15

Client ID: EQUIPMENT BLANK

Injection Vol: 1.0 ul

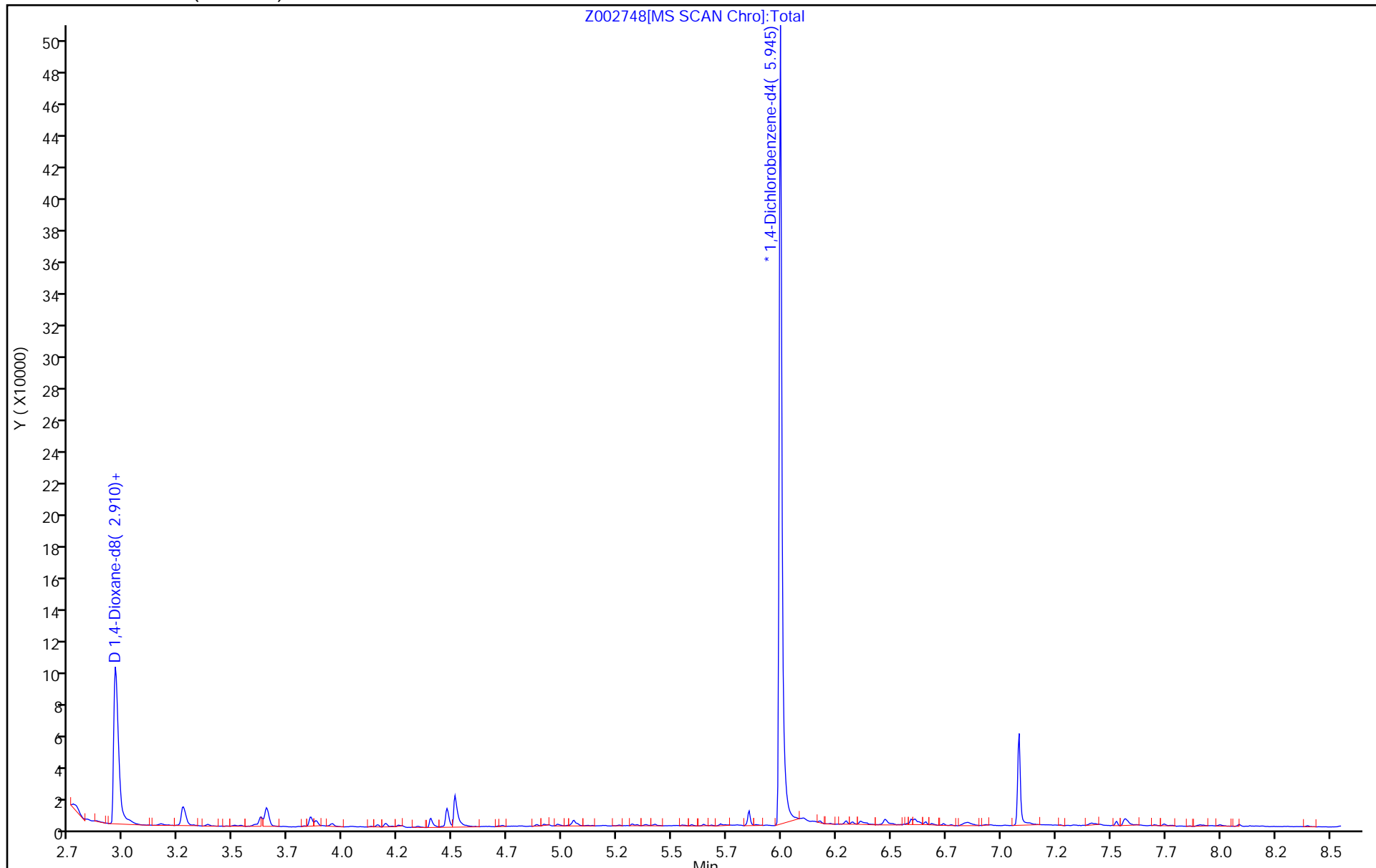
Dil. Factor: 1.0000

ALS Bottle#: 43

Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Euromins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002748.D

Injection Date: 02-Oct-2020 05:53:30

Instrument ID: HP5973Z

Lims ID: 480-175657-A-8-A

Lab Sample ID: 480-175657-8

Client ID: EQUIPMENT BLANK

Operator ID: PJQ

ALS Bottle#: 43

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

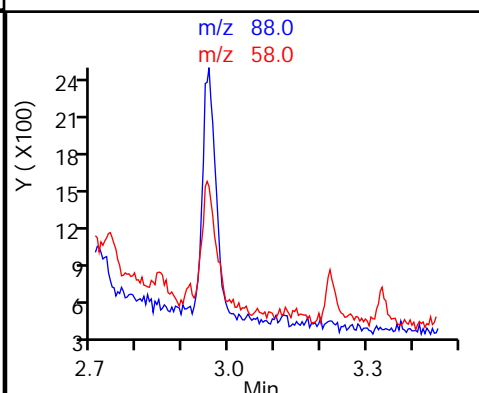
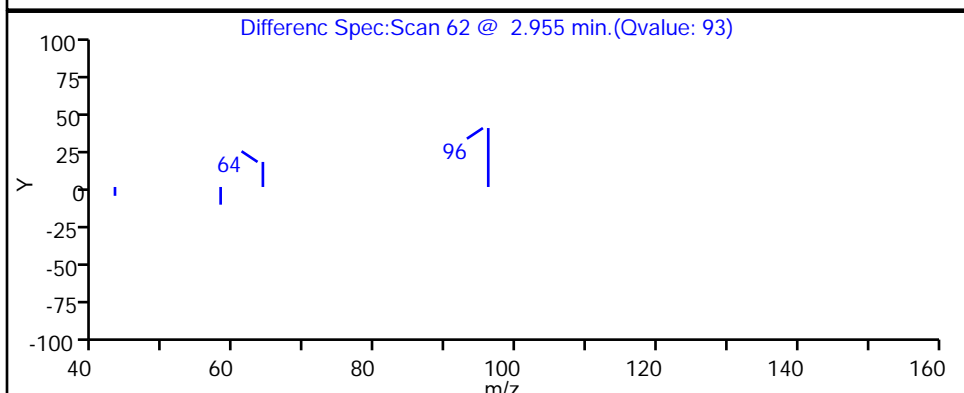
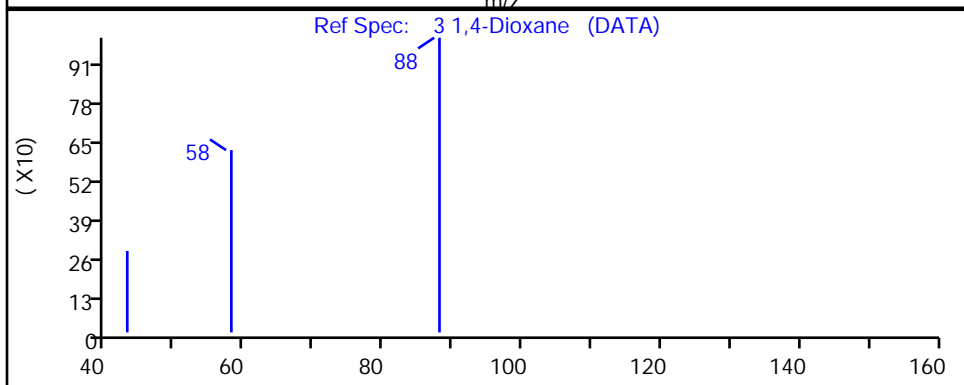
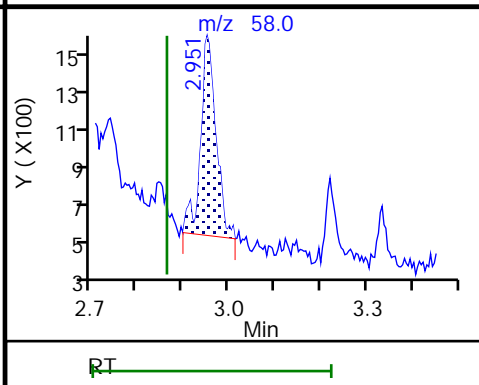
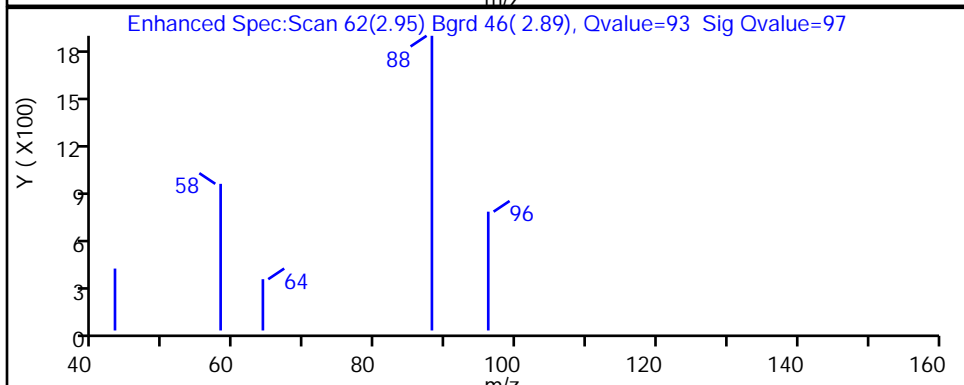
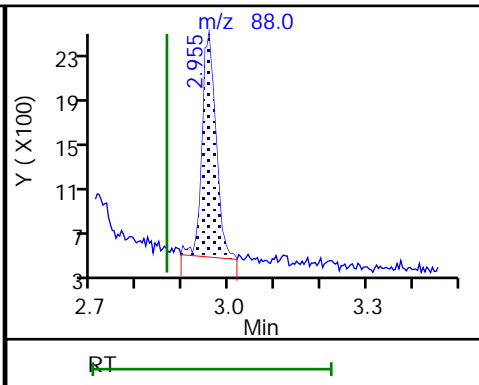
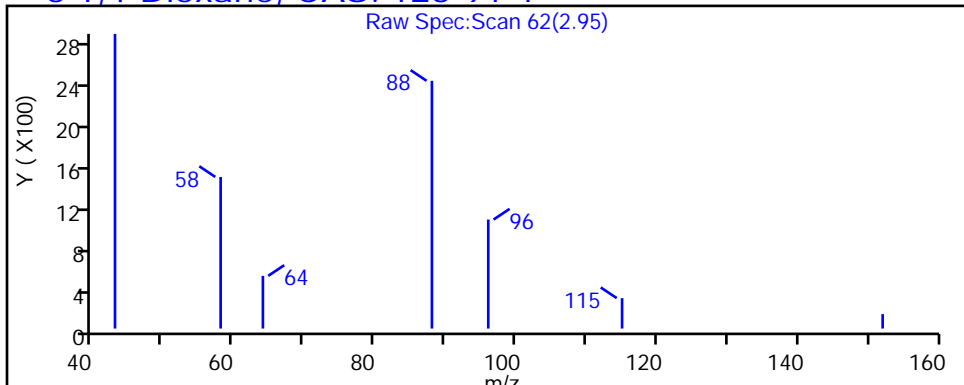
Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)

Detector: MS SCAN

3 1,4-Dioxane, CAS: 123-91-1



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002748.D

Injection Date: 02-Oct-2020 05:53:30

Instrument ID: HP5973Z

Lims ID: 480-175657-A-8-A

Lab Sample ID: 480-175657-8

Client ID: EQUIPMENT BLANK

Operator ID: PJQ

ALS Bottle#: 43

Worklist Smp#: 15

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

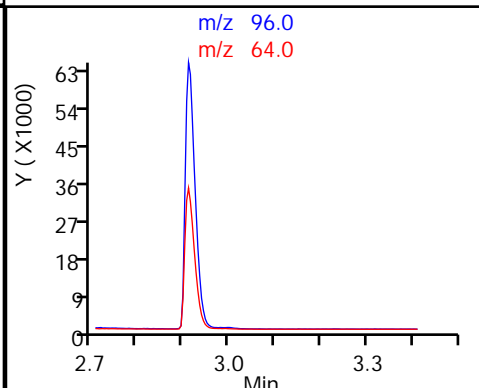
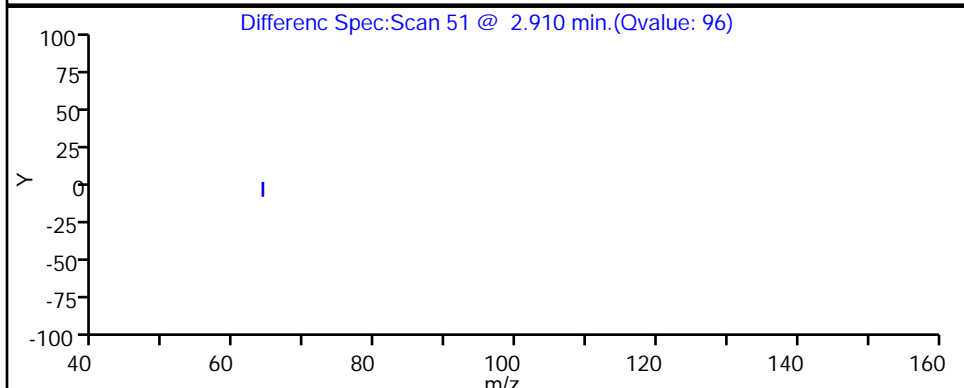
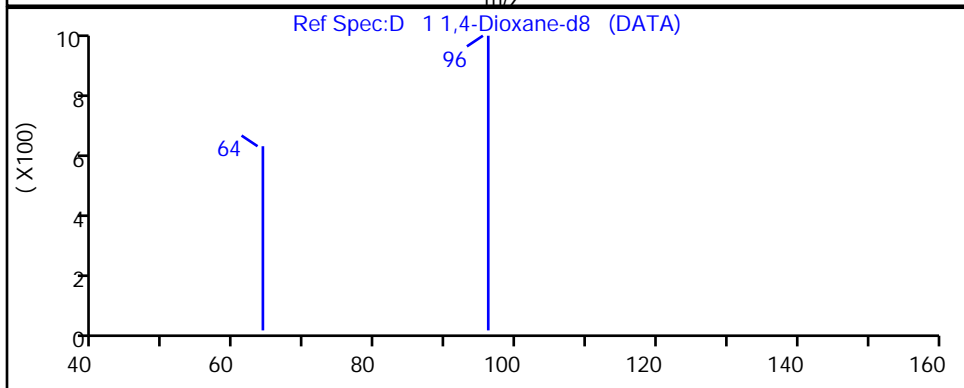
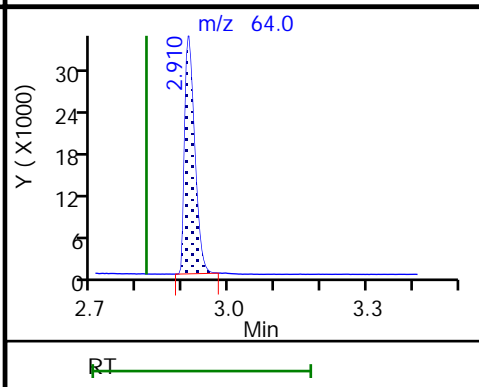
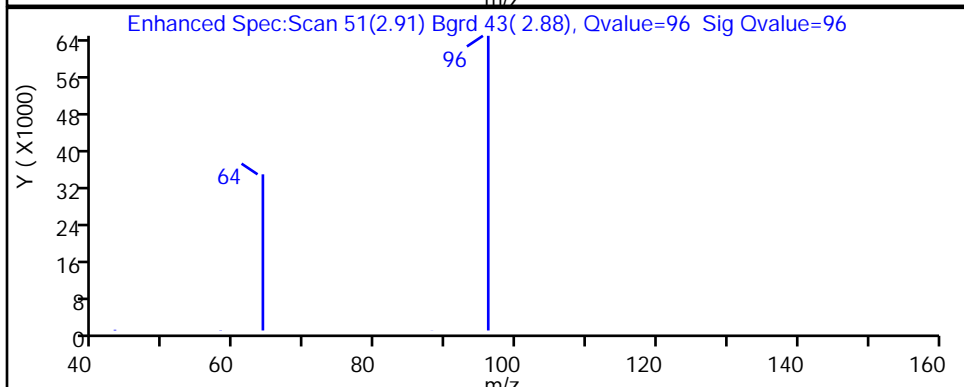
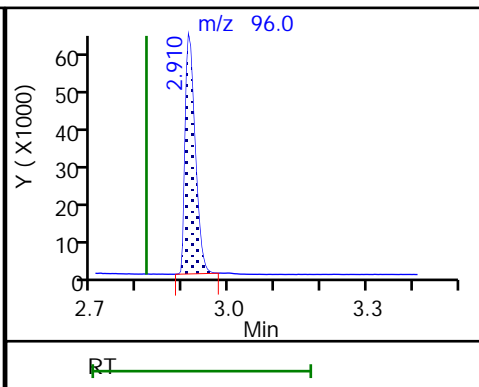
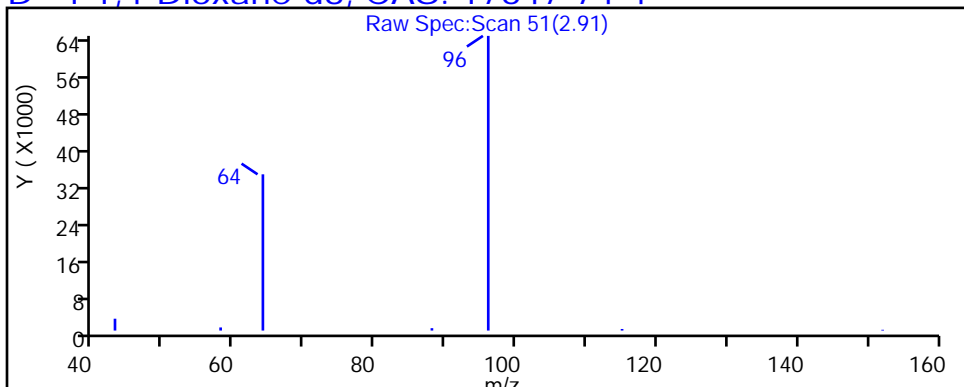
Method: 1.4\_Dx\_SIM\_HP5973Za

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.: 480-175657-1 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.: 480-175657-1 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

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

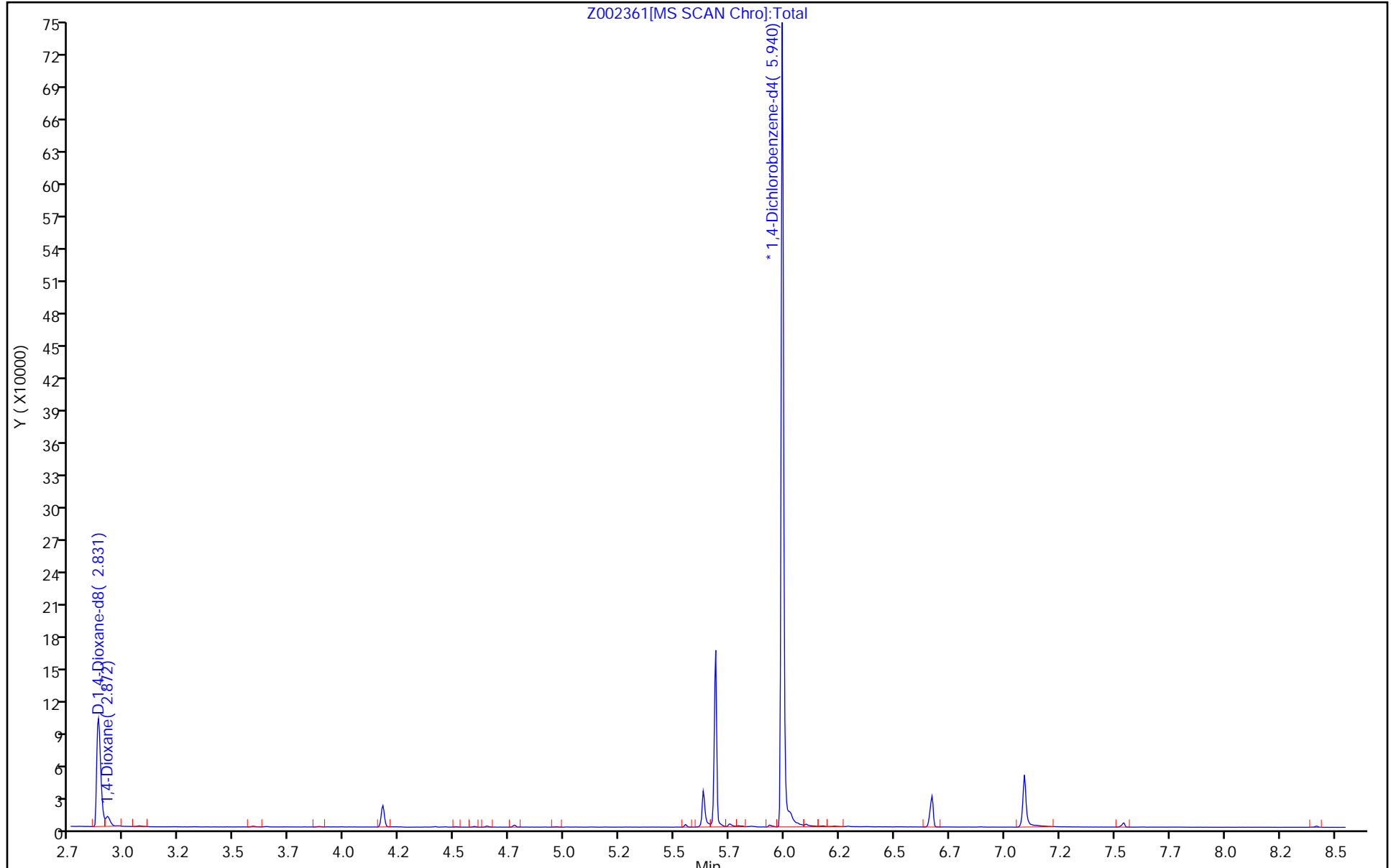
Dil. Factor: 1.0000

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

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

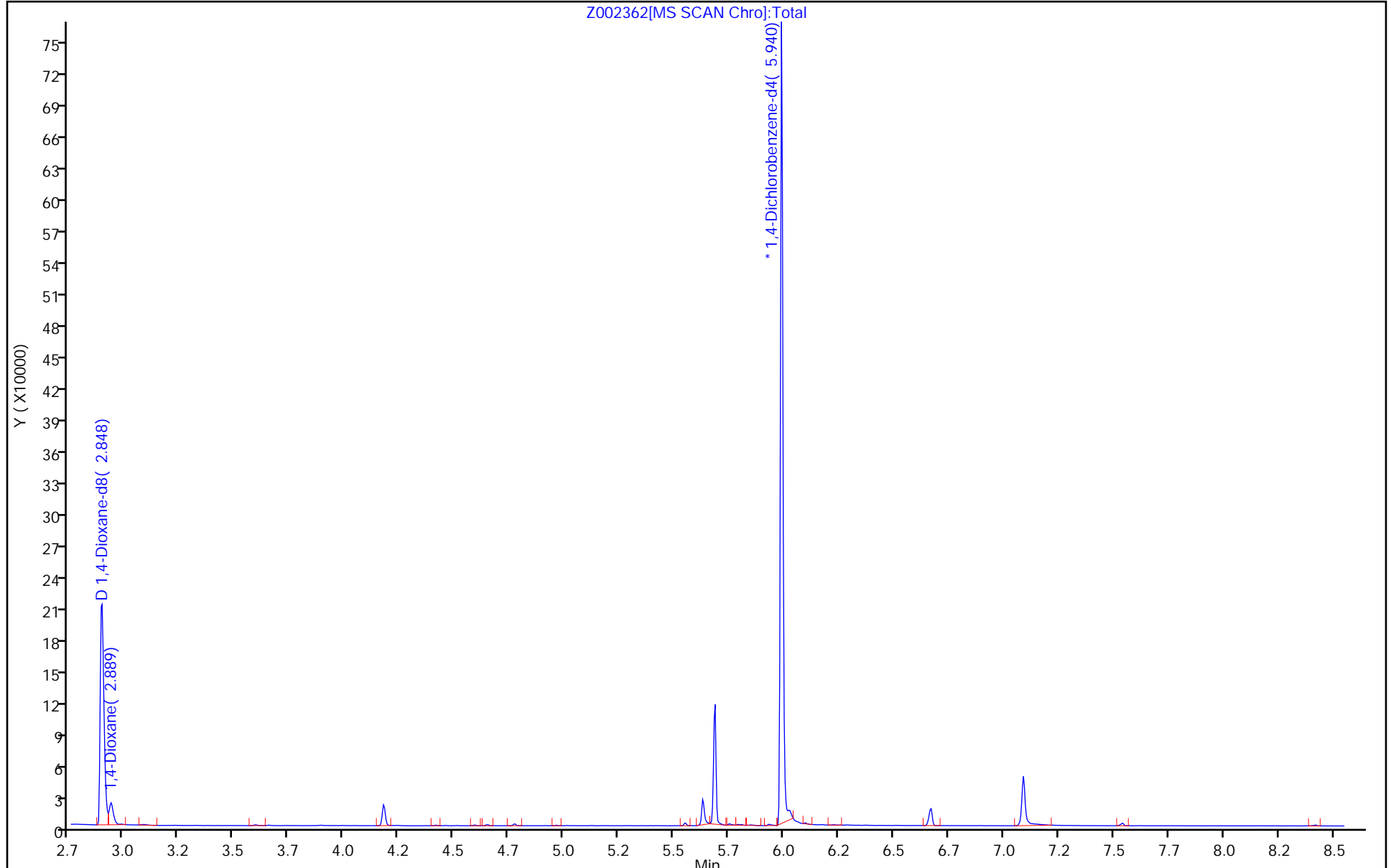
Dil. Factor: 1.0000

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

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

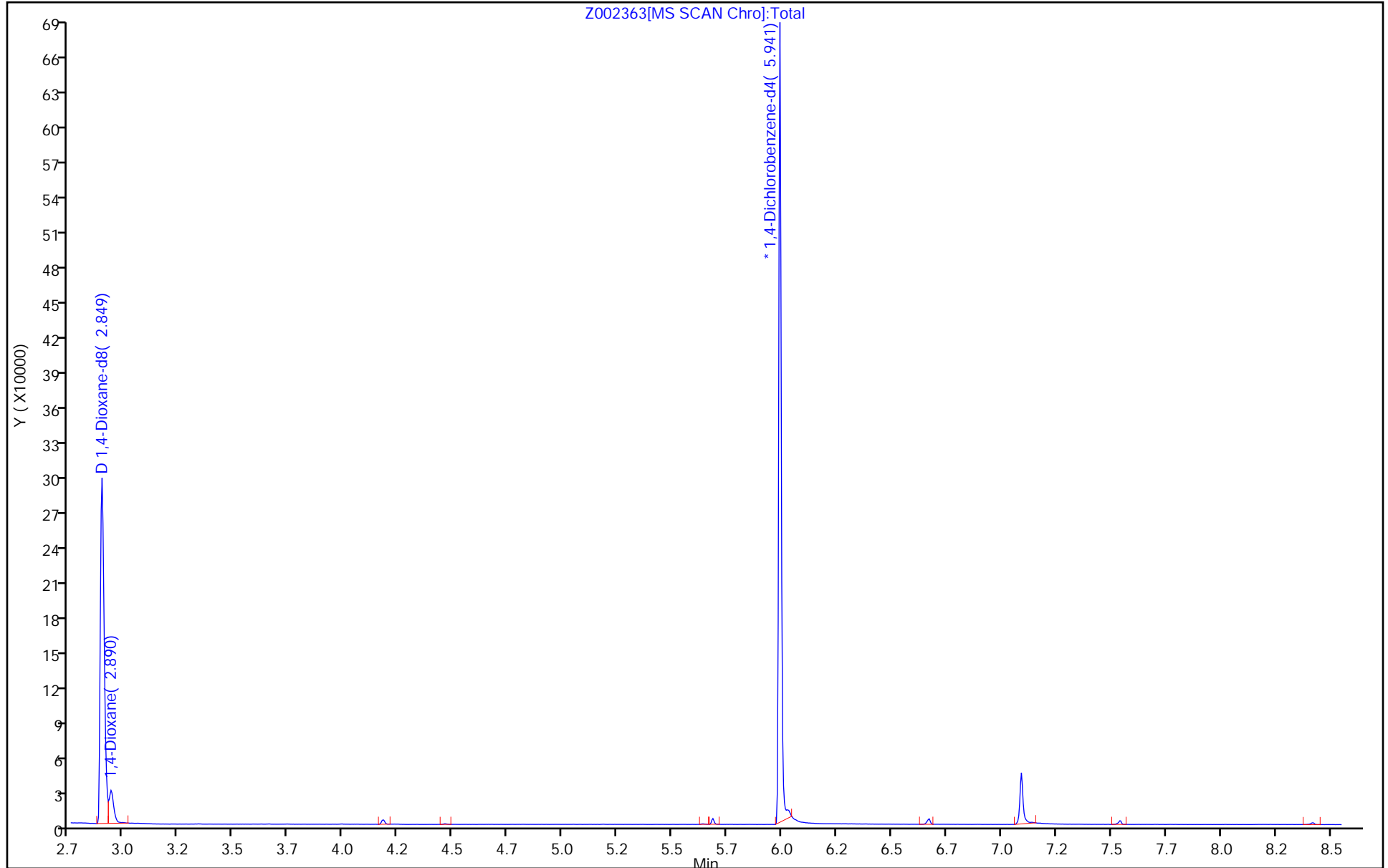
Dil. Factor: 1.0000

ALS Bottle#: 5

Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



Z002363[MS SCAN Chrom]:Total

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

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

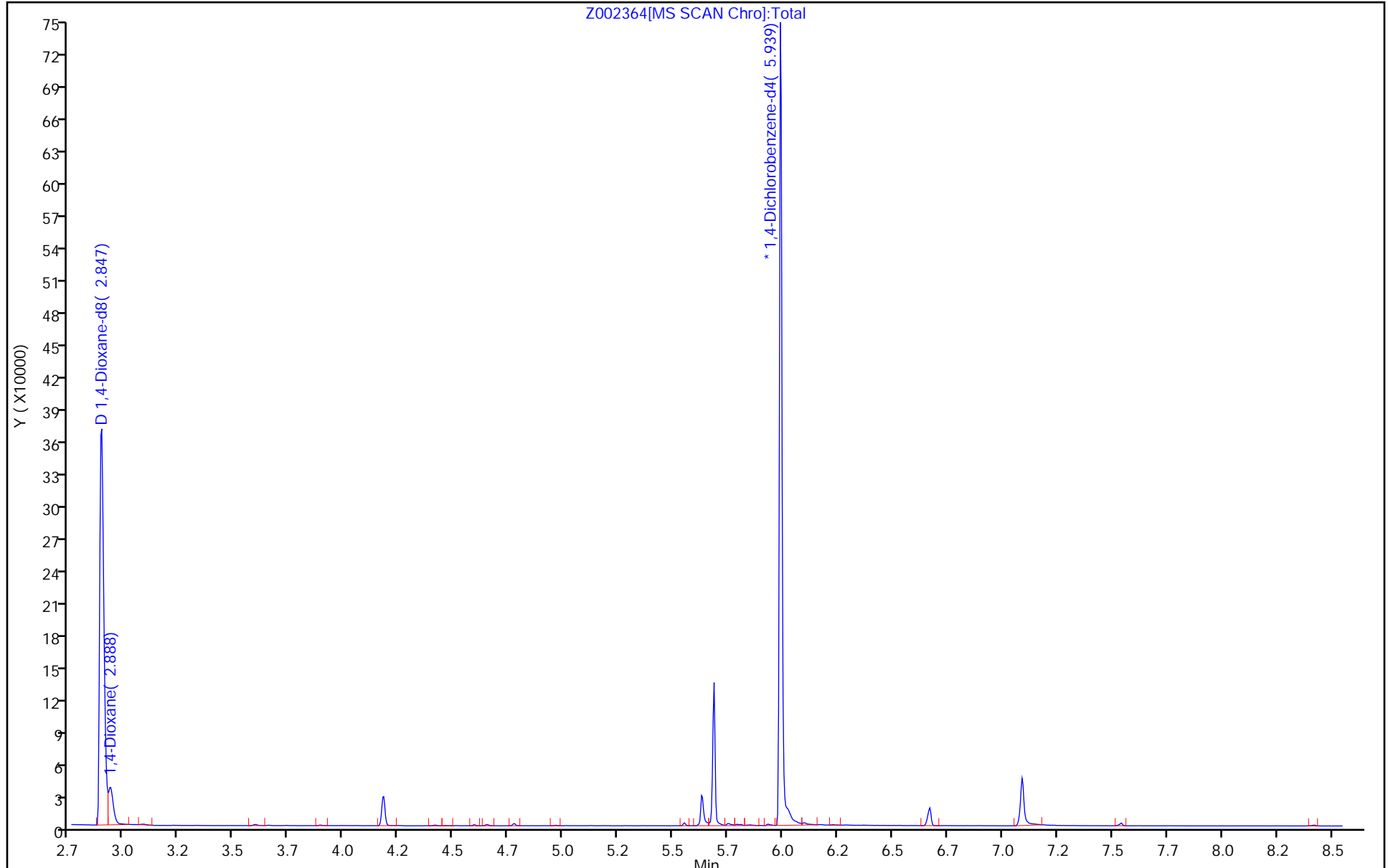
Dil. Factor: 1.0000

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

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: PJO

Lims ID: IC SIM 1.0

Worklist Smp#: 7

Client ID:

Injection Vol: 1.0 ul

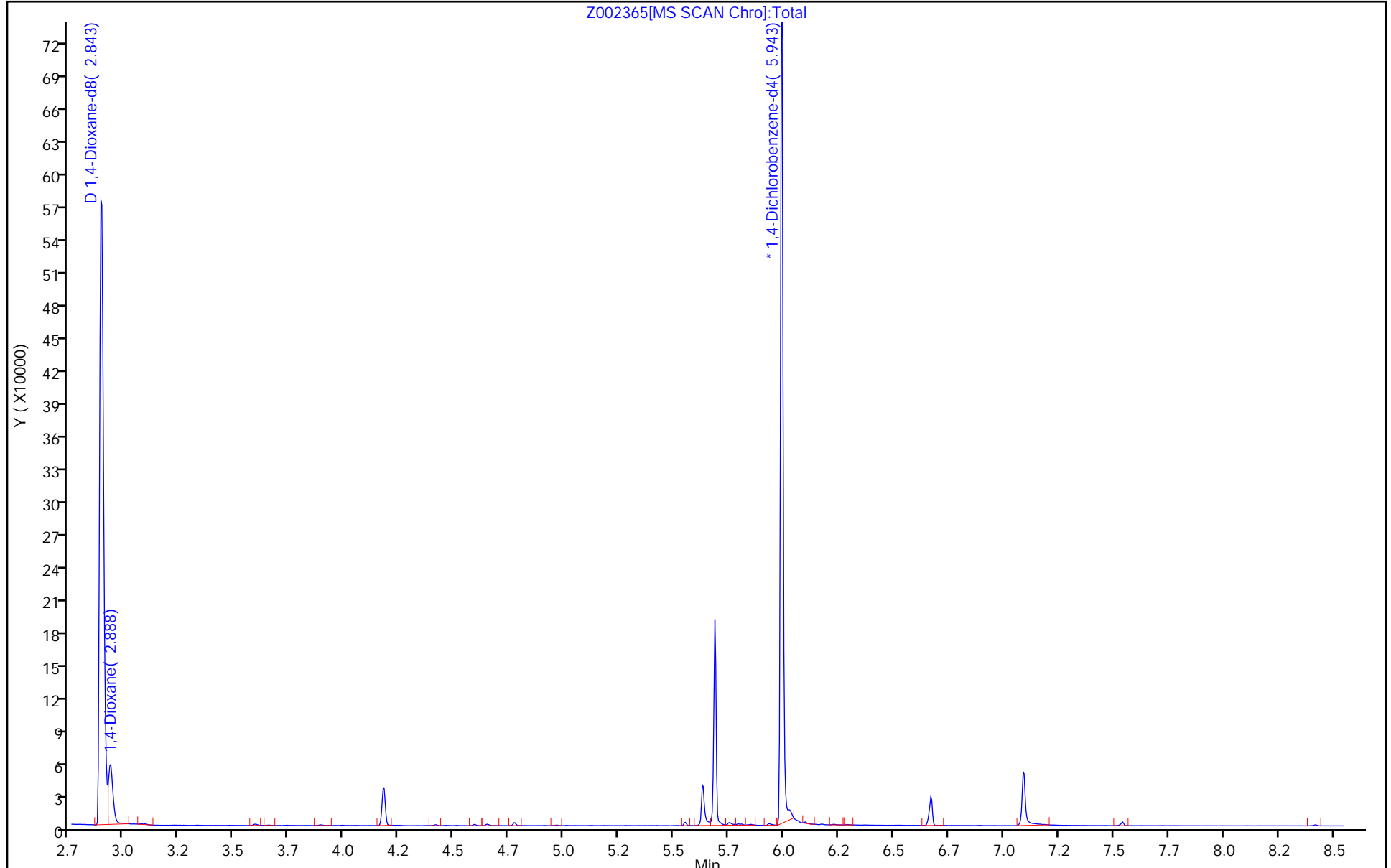
Dil. Factor: 1.0000

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

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: PJO

Lims ID: IC SIM 1.2

Worklist Smp#: 8

Client ID:

Injection Vol: 1.0 ul

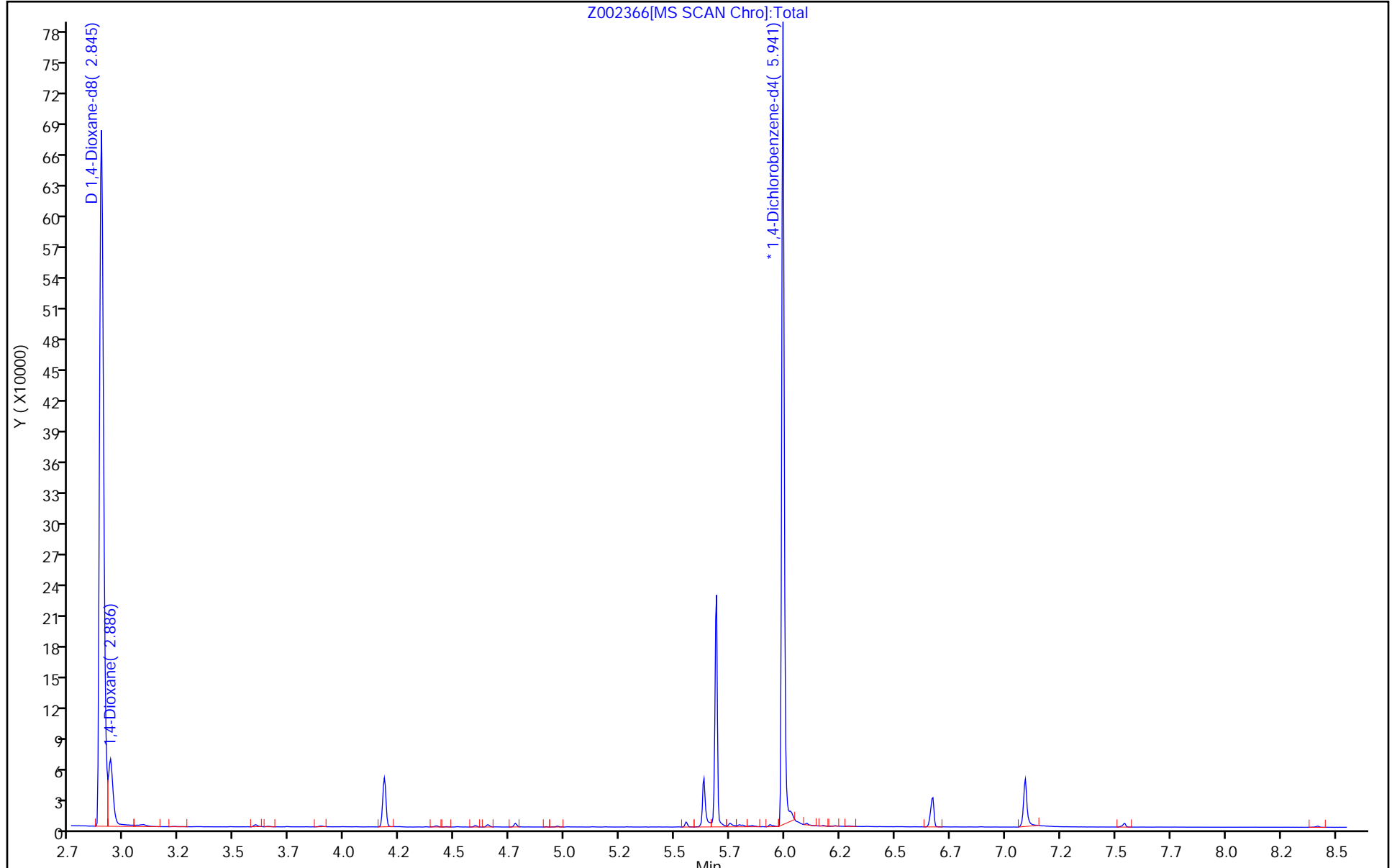
Dil. Factor: 1.0000

ALS Bottle#: 8

Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS ( 0.25 mm)



Z002366[MS SCAN Chrom]:Total

FORM VII  
GC/MS SEMI VOA CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1  
 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

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

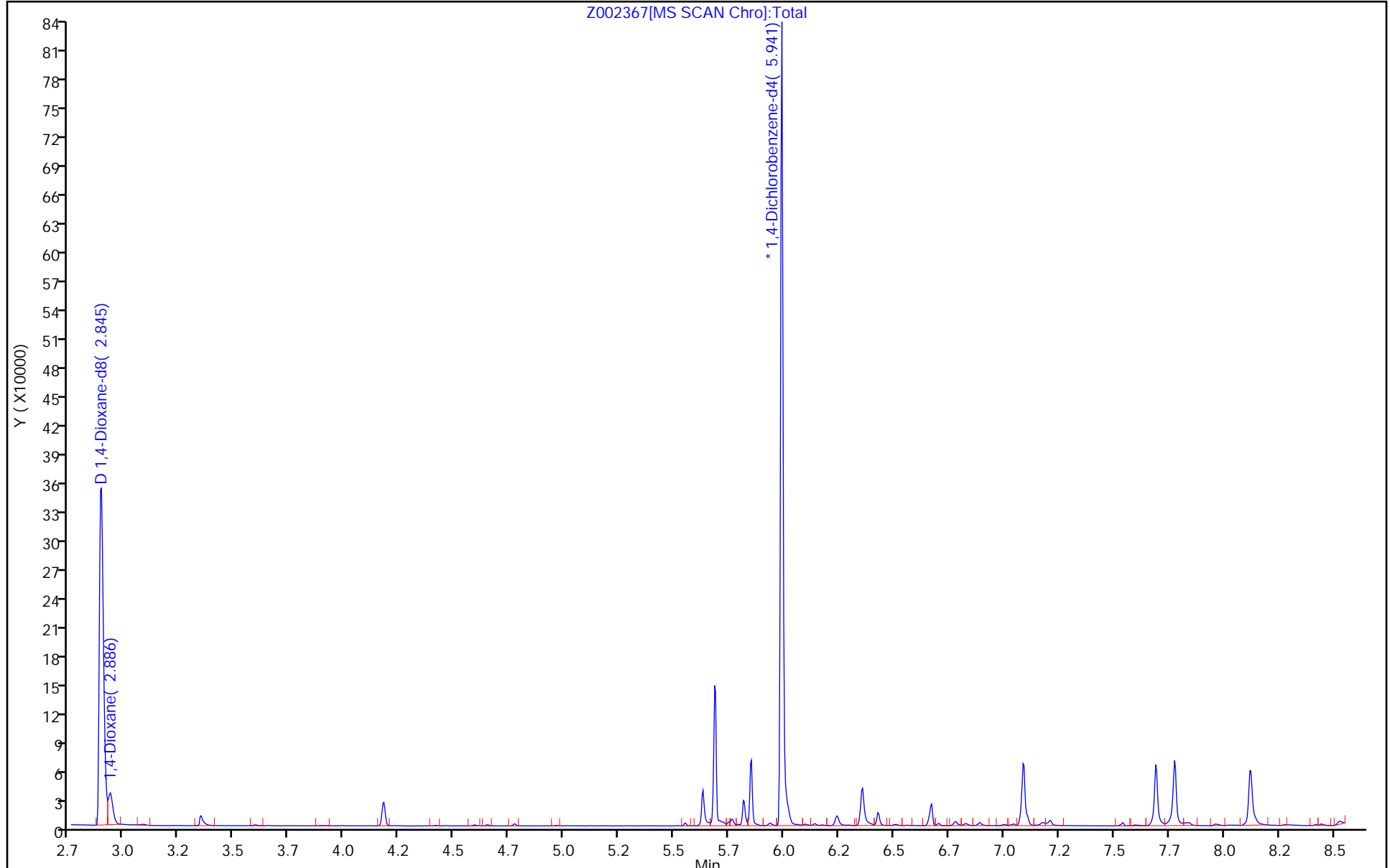
Dil. Factor: 1.0000

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 480-552087/3 Calibration Date: 10/02/2020 01:20  
 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: Z002736.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	0.997	0.0100	616	600	2.6	20.0
1,4-Dioxane-d8	Ave	0.4581	0.4895	0.0100	6410	6000	6.8	20.0



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002736.D  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 02-Oct-2020 01:20:30 ALS Bottle#: 31 Worklist Smp#: 3  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-003  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Sublist: chrom-1.4\_Dx\_SIM\_HP5973Za\*sub1  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:34:31 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:34:31

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	2.818	2.818	0.000	96	225100	6.00	6.41	
3 1,4-Dioxane	88	2.863	2.863	0.000	92	22433	0.6000	0.6158	
* 2 1,4-Dichlorobenzene-d4	152	5.934	5.934	0.000	100	306576	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB\_1,4SIM\_WRK\_00103 Amount Added: 1.00 Units: mL  
 MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002736.D

Injection Date: 02-Oct-2020 01:20:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: CCVIS

Worklist Smp#: 3

Client ID:

Injection Vol: 1.0 ul

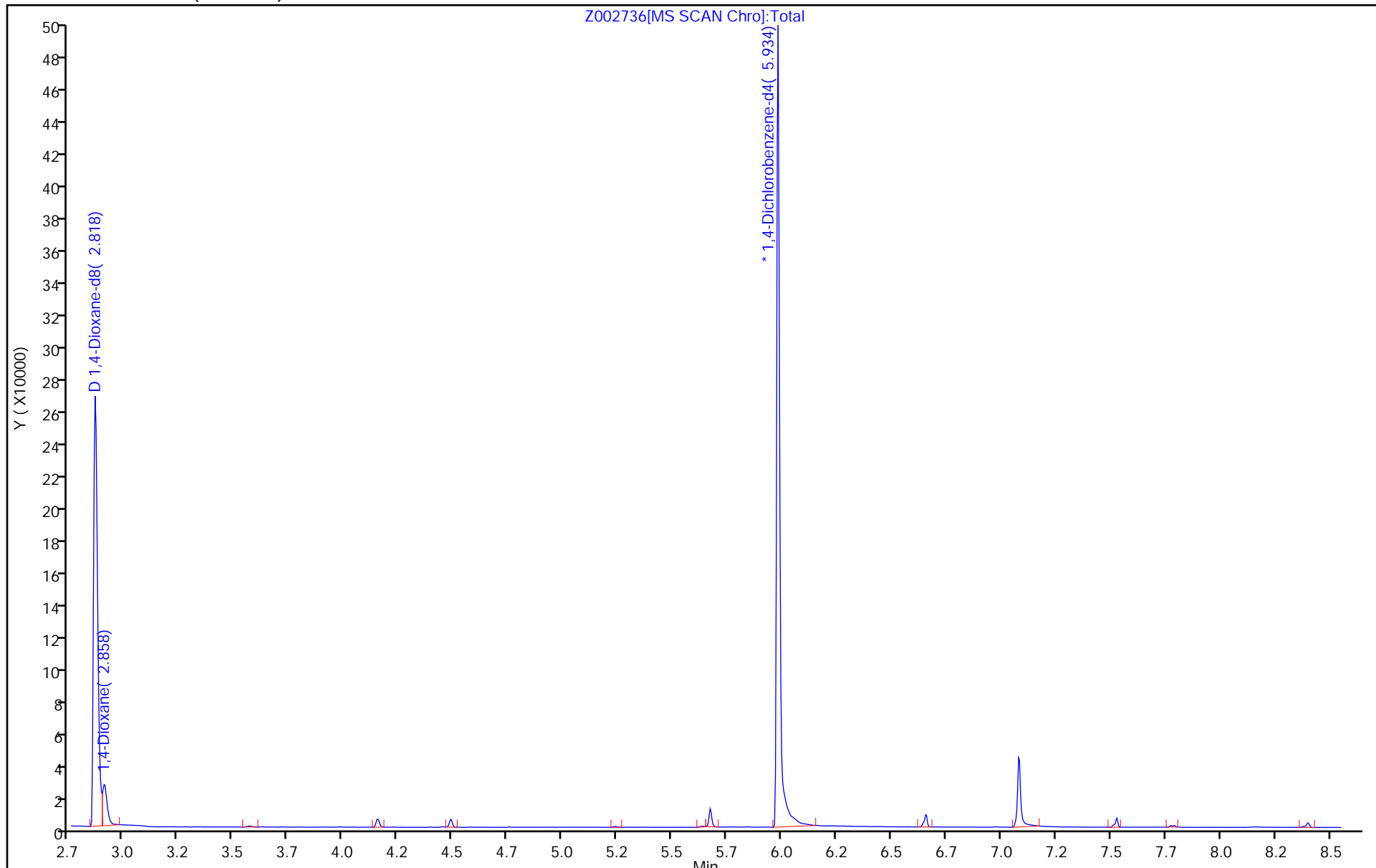
Dil. Factor: 1.0000

ALS Bottle#: 31

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

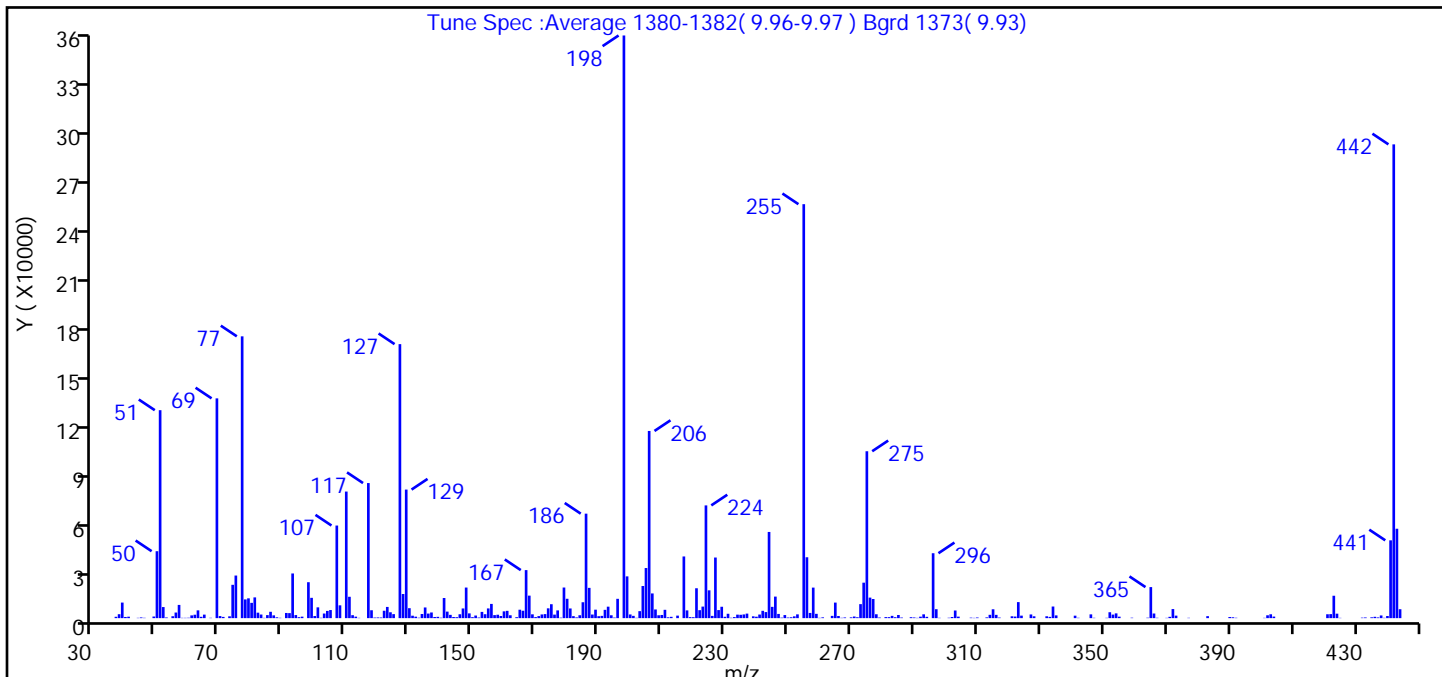
Reagents:

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.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
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		

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

Operator ID: PJQ

Lims ID: DFTPP

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

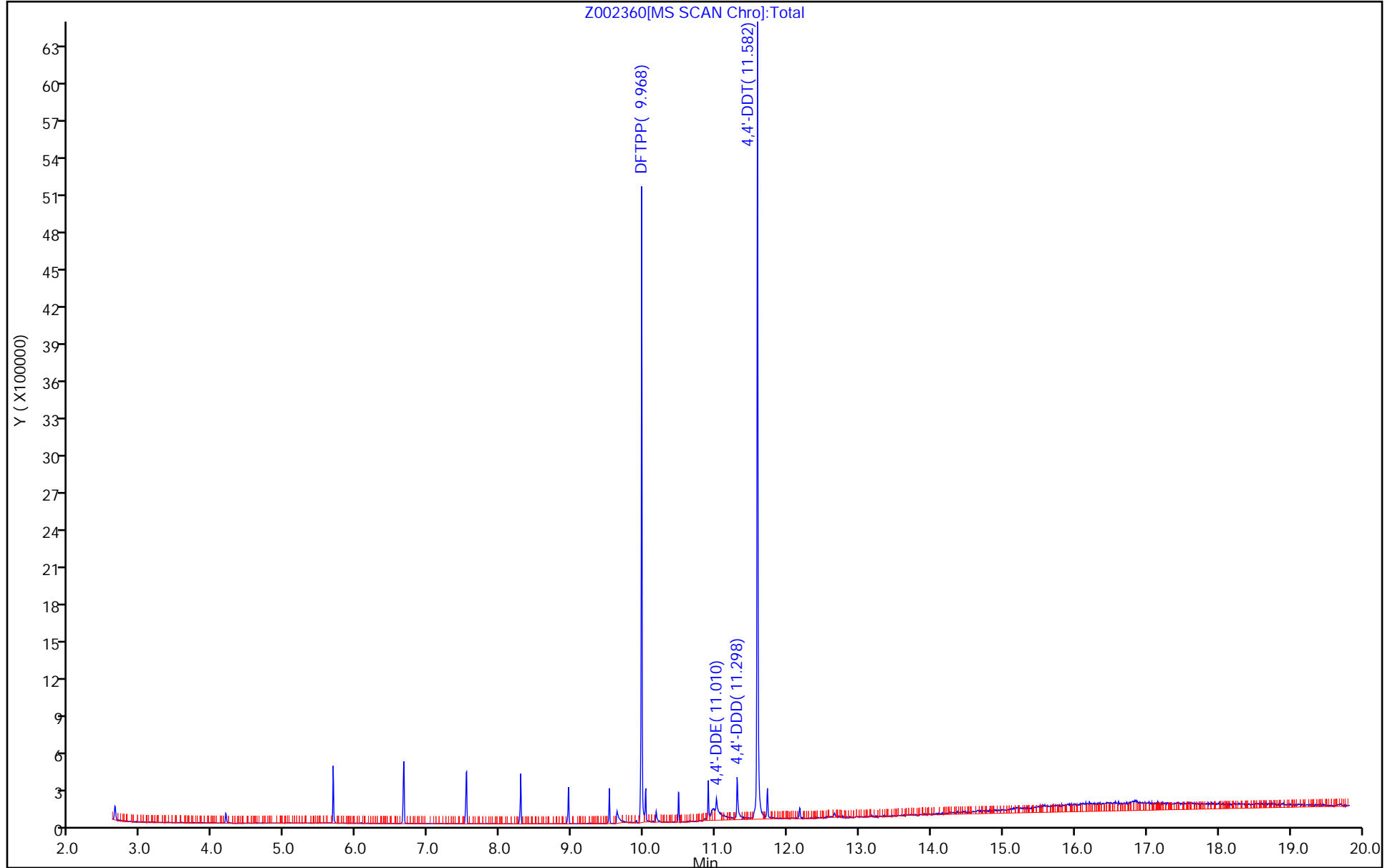
Dil. Factor: 1.0000

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

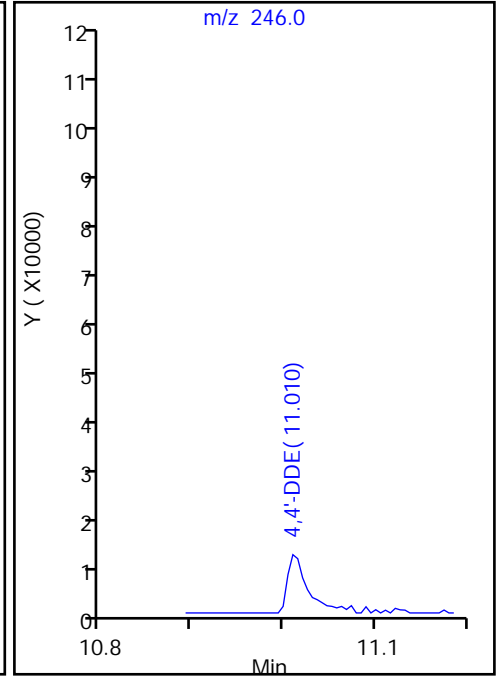
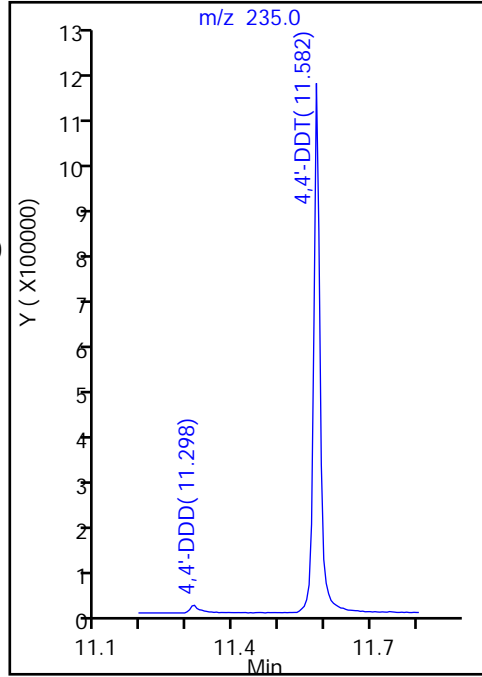
6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 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\20201001-93834.b\Z002735.D  
 Lims ID: DFTPP  
 Client ID:  
 Sample Type: DFTPP  
 Inject. Date: 02-Oct-2020 00:53:30 ALS Bottle#: 30 Worklist Smp#: 2  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-002  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:34:10 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:34:10

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	10.998	10.998	0.000	0	53054			NR
5 4,4'-DDD	235	11.297	11.297	0.000	95	144253			NR
6 4,4'-DDT	235	11.569	11.569	0.000	95	562990	NR		NR

QC Flag Legend

Processing Flags

NR - Missing Quant Standard

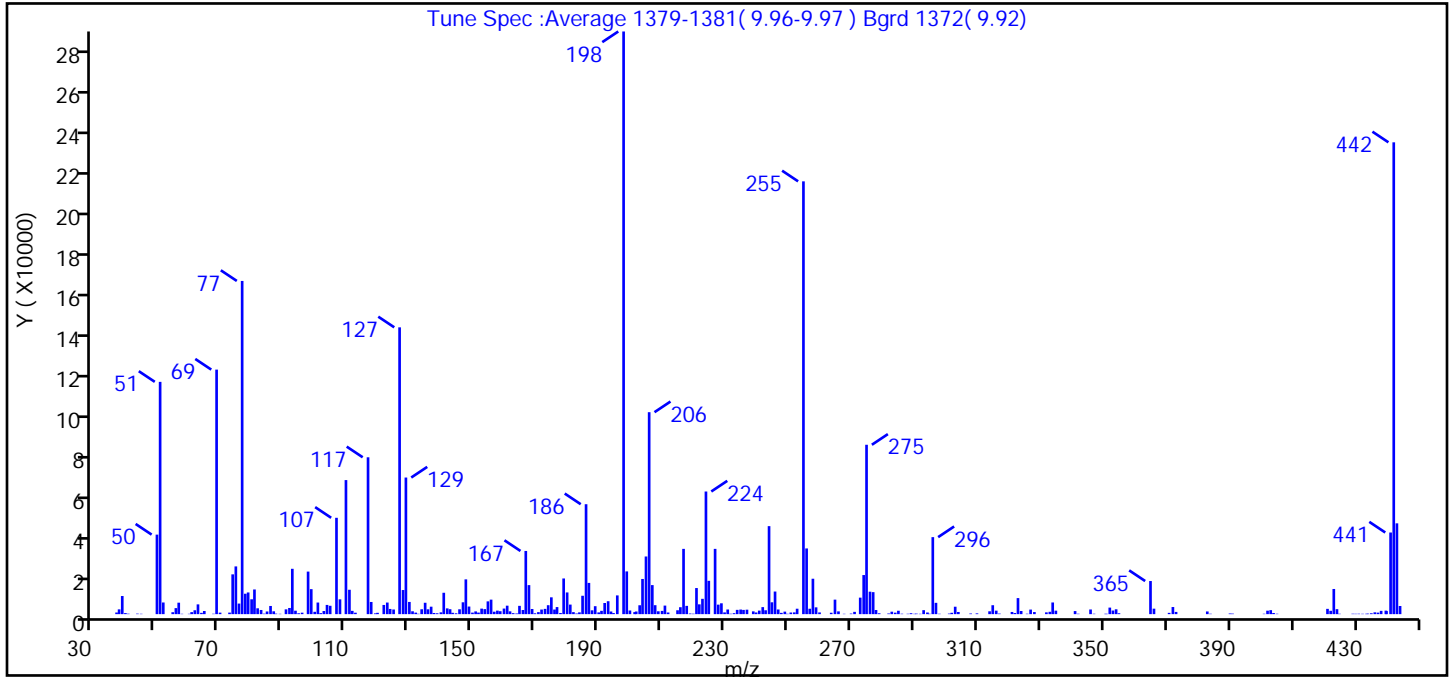
Reagents:

MB\_DFTPP\_WRK\_00379 Amount Added: 1.00 Units: mL

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002735.D  
 Injection Date: 02-Oct-2020 00:53:30 Instrument ID: HP5973Z  
 Lims ID: DFTPP  
 Client ID:  
 Operator ID: PJO ALS Bottle#: 30 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 (123.5)
51	10-80% of the base peak	39.9
68	<2% of mass 69	0.1 (0.2)
69	Present	42.0
70	<2% of mass 69	0.3 (0.6)
127	10-80% of the base peak	49.2
197	<2% of mass 198	0.0
199	5-9% of mass 198	7.3
275	10-60% of the base peak	29.1
365	>1% of mass 198	5.7
441	present but <24% of mass 442	14.0 (17.3)
442	base peak, or >50% of 198	81.0
443	15-24% of mass 442	15.6 (19.2)

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002735.D\1.4\_Dx\_SIM\_HP5973Za.rsl\spectr  
Injection Date: 02-Oct-2020 00:53:30  
Spectrum: Tune Spec :Average 1379-1381( 9.96-9.97 ) Bgrd 1372( 9.92)  
Base Peak: 197.90  
Minimum % Base Peak: 0  
Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
37.00	804	132.00	754	206.00	100040	293.00	1972
38.00	2370	133.00	179	207.00	14384	294.00	815
39.00	8978	134.00	2420	208.00	4432	295.00	206
40.00	520	135.00	5637	209.00	1415	296.00	38144
41.00	219	136.00	2400	210.00	1601	297.00	5604
44.00	252	137.00	3692	211.00	4235	298.00	186
45.00	177	138.00	574	212.00	815	301.00	274
50.00	39392	139.00	431	215.00	1924	302.00	672
51.00	115072	140.00	889	216.00	3434	303.00	3678
52.00	5775	141.00	10591	217.00	32336	304.00	1071
55.00	949	142.00	2851	218.00	4099	308.00	321
56.00	2987	143.00	2437	219.00	311	310.00	374
57.00	5676	144.00	669	220.00	220	314.00	1411
58.00	171	145.00	420	221.00	12926	315.00	4422
60.00	172	146.00	2406	222.00	4856	316.00	1727
61.00	994	147.00	5871	223.00	7589	317.00	274
62.00	1922	148.00	17232	224.00	60752	321.00	1077
63.00	4840	149.00	3764	225.00	16512	322.00	560
64.00	645	150.00	757	227.00	32336	323.00	7950
65.00	1556	151.00	1356	228.00	4706	324.00	1557
68.00	202	152.00	776	229.00	5375	326.00	206
69.00	121136	153.00	2734	230.00	858	327.00	2261
70.00	744	154.00	2492	231.00	2304	328.00	1036
73.00	766	155.00	6330	232.00	206	332.00	885
74.00	19712	156.00	7188	233.00	475	333.00	1165
75.00	23648	157.00	1209	234.00	2120	334.00	5781
76.00	5238	158.00	1734	235.00	2272	335.00	1723
77.00	165056	159.00	1448	236.00	2096	341.00	1518
78.00	10113	160.00	2767	237.00	2211	342.00	199
79.00	10740	161.00	4193	239.00	1377	346.00	2309
80.00	7362	162.00	1385	240.00	823	347.00	204
81.00	12223	163.00	492	241.00	1755	351.00	167
82.00	2895	164.00	326	242.00	3479	351.00	169

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002735.D\1.4\_Dx\_SIM\_HP5973Za.rsl\spectr

Injection Date: 02-Oct-2020 00:53:30

Spectrum: Tune Spec :Average 1379-1381( 9.96-9.97 ) Bgrd 1372( 9.92)

Base Peak: 197.90

Minimum % Base Peak: 0

Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
83.00	2062	165.00	4110	243.00	1921	352.00	3240
84.00	240	166.00	2048	244.00	43592	353.00	1791
85.00	1320	167.00	31296	245.00	5864	354.00	2401
86.00	4048	168.00	14377	246.00	11200	355.00	444
87.00	1409	169.00	2554	247.00	2310	365.00	16400
88.00	251	170.00	419	248.00	640	366.00	2710
89.00	167	171.00	996	249.00	1248	371.00	639
91.00	2375	172.00	2278	250.00	181	372.00	3524
92.00	3057	173.00	2608	251.00	806	373.00	1100
93.00	22464	174.00	4428	252.00	865	383.00	1329
94.00	1700	175.00	8330	253.00	2687	384.00	200
95.00	435	176.00	2286	255.00	214400	390.00	324
96.00	725	177.00	3503	256.00	32544	391.00	263
98.00	21080	178.00	573	257.00	2677	401.00	201
99.00	12378	179.00	17672	258.00	17544	402.00	1711
100.00	1160	180.00	10752	259.00	3370	403.00	1980
101.00	5751	181.00	4734	260.00	851	404.00	569
102.00	500	182.00	995	264.00	693	405.00	196
103.00	1549	183.00	313	265.00	7185	421.00	2619
104.00	4568	184.00	883	266.00	1365	422.00	1651
105.00	4143	185.00	9106	268.00	169	423.00	12467
107.00	47728	186.00	54456	270.00	282	424.00	2465
108.00	7331	187.00	15474	271.00	1133	425.00	189
110.00	66408	188.00	1891	273.00	8177	429.00	211
111.00	12078	189.00	3938	274.00	19368	430.00	185
112.00	1622	190.00	858	275.00	83904	431.00	213
113.00	712	191.00	1641	276.00	11125	432.00	182
117.00	77704	192.00	5520	277.00	10896	433.00	177
118.00	6030	193.00	6401	278.00	2036	434.00	260
119.00	380	194.00	1308	279.00	428	435.00	440
120.00	664	195.00	543	282.00	323	436.00	901
122.00	4553	196.00	9285	283.00	1214	437.00	749
123.00	5743	198.00	288640	284.00	732	438.00	1633
124.00	2572	199.00	21168	285.00	1682	440.00	1737

Report Date: 02-Oct-2020 13:34:11

Chrom Revision: 2.3 24-Sep-2020 19:22:38

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002735.D\1.4\_Dx\_SIM\_HP5973Za.rsl\spectr

Injection Date: 02-Oct-2020 00:53:30

Spectrum: Tune Spec :Average 1379-1381( 9.96-9.97 ) Bgrd 1372( 9.92)

Base Peak: 197.90

Minimum % Base Peak: 0

Number of Points: 291

m/z	Y	m/z	Y	m/z	Y	m/z	Y
125.00	2301	200.00	1807	286.00	212	440.00	1510
127.00	142080	201.00	1005	288.00	193	441.00	40440
128.00	11943	202.00	1310	289.00	465	442.00	233728
129.00	67672	203.00	4401	290.00	172	443.00	44984
130.00	6046	204.00	17424	291.00	256	444.00	4034
131.00	1418	205.00	28560	292.00	170		

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002735.D

Injection Date: 02-Oct-2020 00:53:30

Instrument ID: HP5973Z

Operator ID: PJO

Lims ID: DFTPP

Worklist Smp#: 2

Client ID:

Injection Vol: 1.0 ul

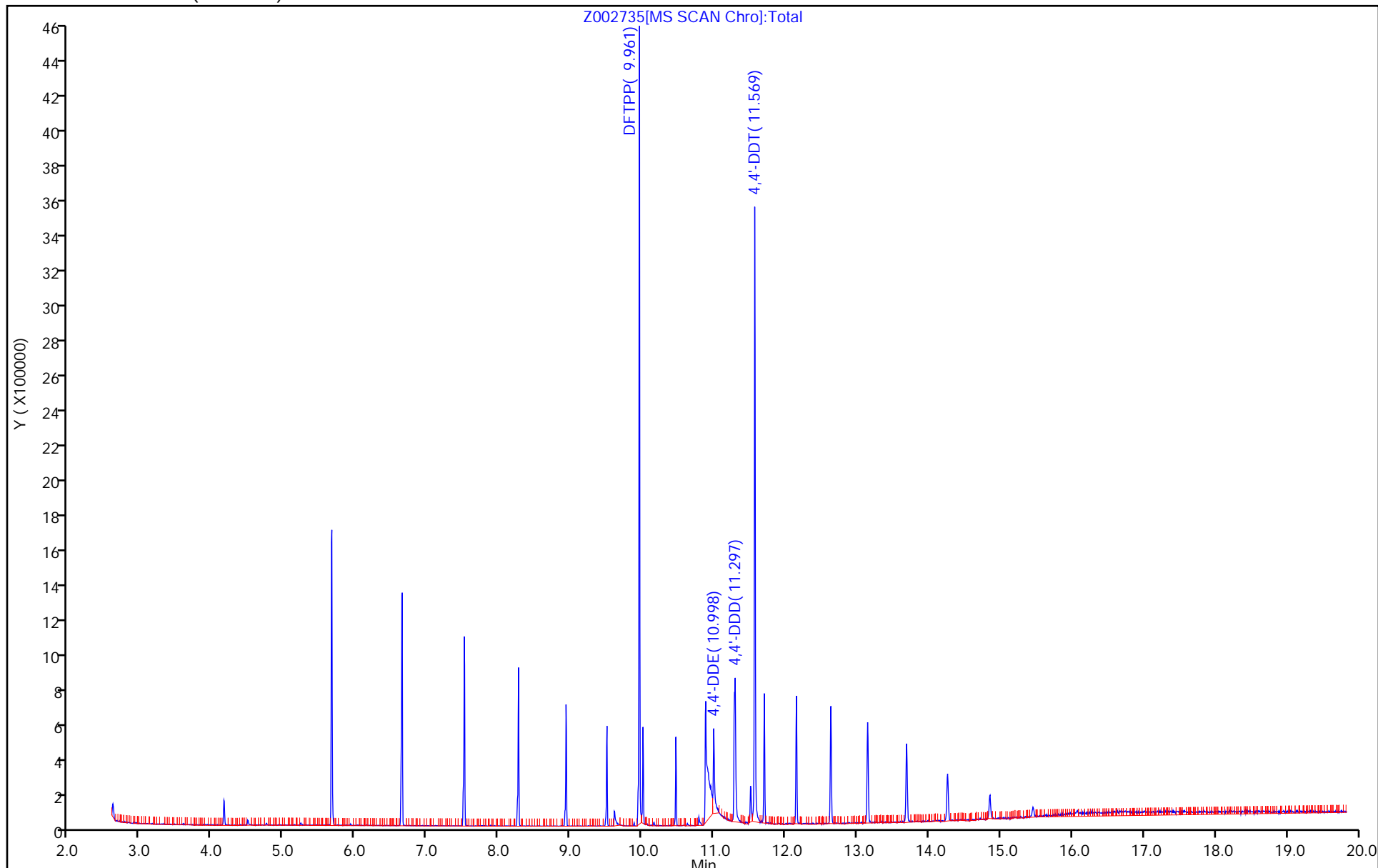
Dil. Factor: 1.0000

ALS Bottle#: 30

Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002735.D  
Injection Date: 02-Oct-2020 00:53:30 Instrument ID: HP5973Z  
Lims ID: DFTPP  
Client ID:  
Operator ID: PJQ ALS Bottle#: 30 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

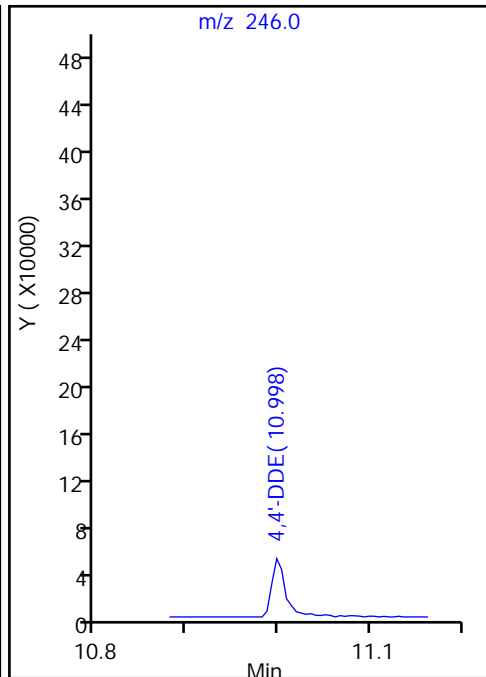
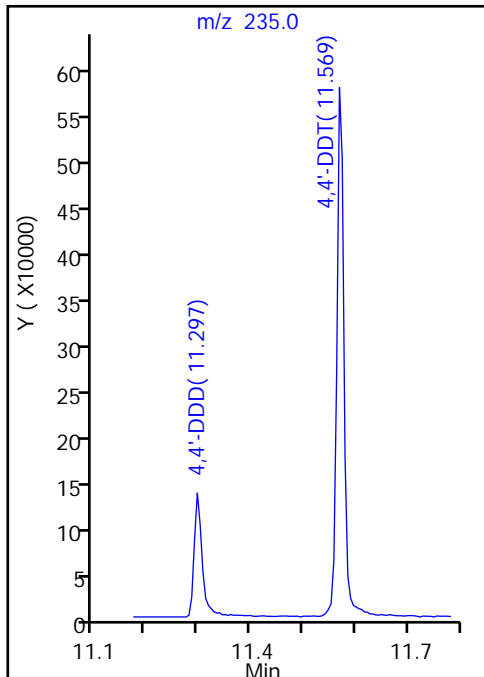
6 4,4'-DDT, Detector: MS SCAN

SW-846 Method

%Breakdown =  
(Area Breakdown Cpnds/  
Total Area Breakdown Cpnds) \* 100

6 4,4'-DDT, Area = 562990  
5 4,4'-DDD, Area = 144253  
7 4,4'-DDE, Area = 53054

%Breakdown:\* 25.95%, <= 20.00%  
Failed





FORM I  
GC/MS SEMI VOA ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 480-551803/1-A  
 Matrix: Water Lab File ID: Z002737.D  
 Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1000 (mL) Date Analyzed: 10/02/2020 01:43  
 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.: 552087 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	28		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002737.D  
 Lims ID: MB 480-551803/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 02-Oct-2020 01:43:30 ALS Bottle#: 32 Worklist Smp#: 4  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-004  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:34:31 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:34:45

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	2.901	2.818	0.083	95	88595	10.0	2.81	
3 1,4-Dioxane	88		2.863					ND	
* 2 1,4-Dichlorobenzene-d4	152	5.940	5.934	0.006	98	275152	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002737.D

Injection Date: 02-Oct-2020 01:43:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: MB 480-551803/1-A

Worklist Smp#: 4

Client ID:

Injection Vol: 1.0 ul

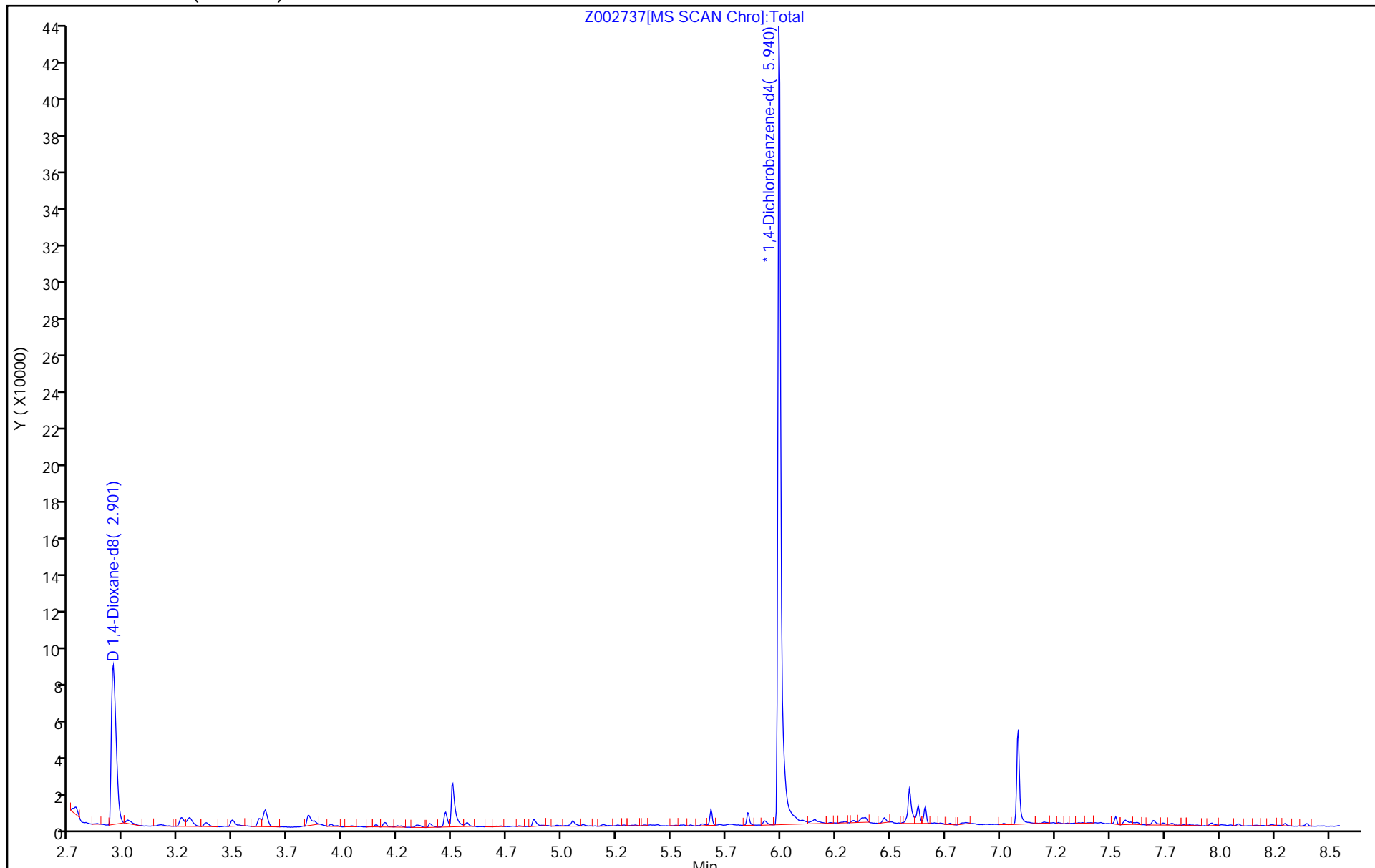
Dil. Factor: 1.0000

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\20201001-93834.b\Z002737.D

Injection Date: 02-Oct-2020 01:43:30

Instrument ID: HP5973Z

Lims ID: MB 480-551803/1-A

Client ID:

Operator ID: PJQ

ALS Bottle#: 32

Worklist Smp#: 4

Injection Vol: 1.0 ul

Dil. Factor: 1.0000

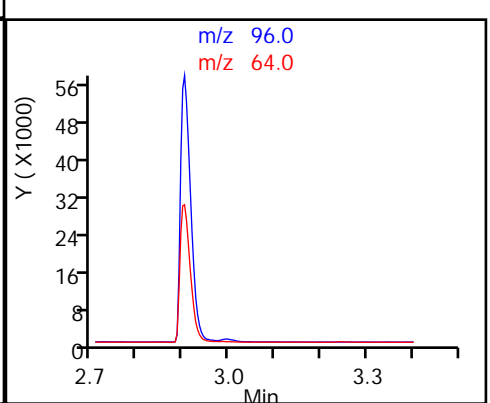
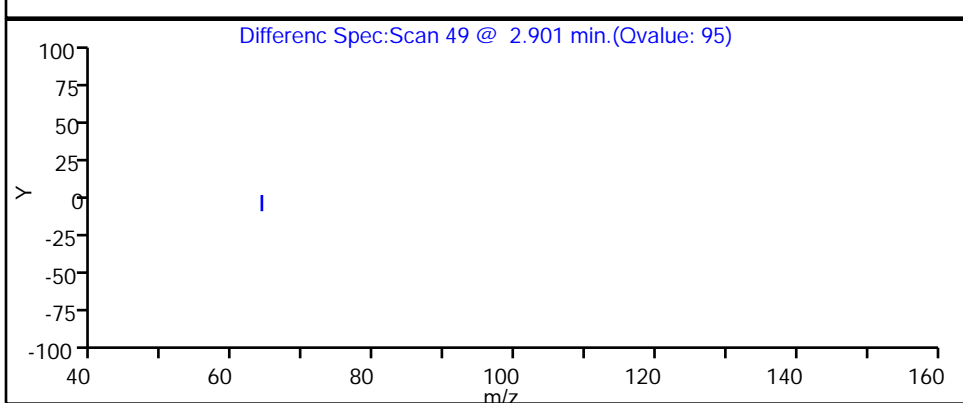
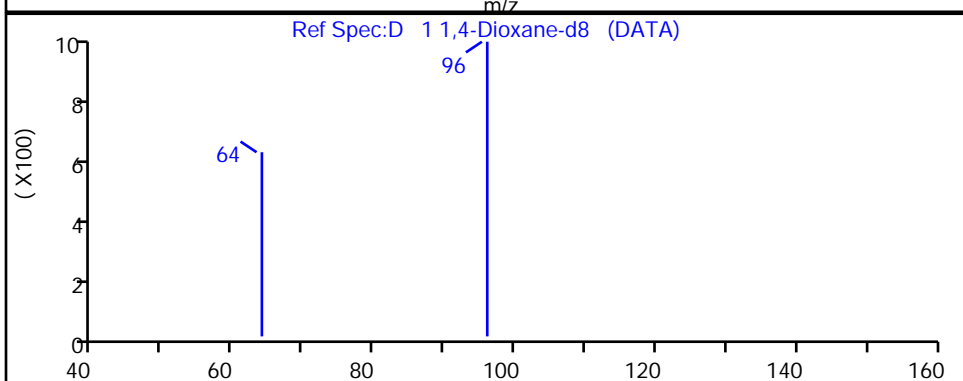
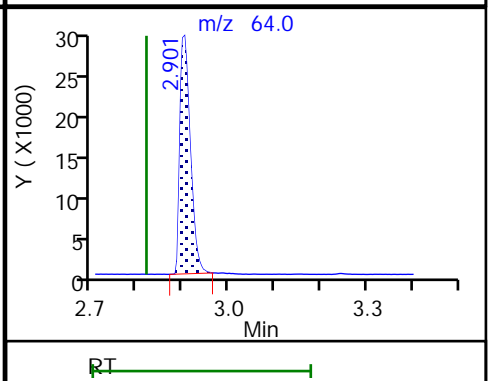
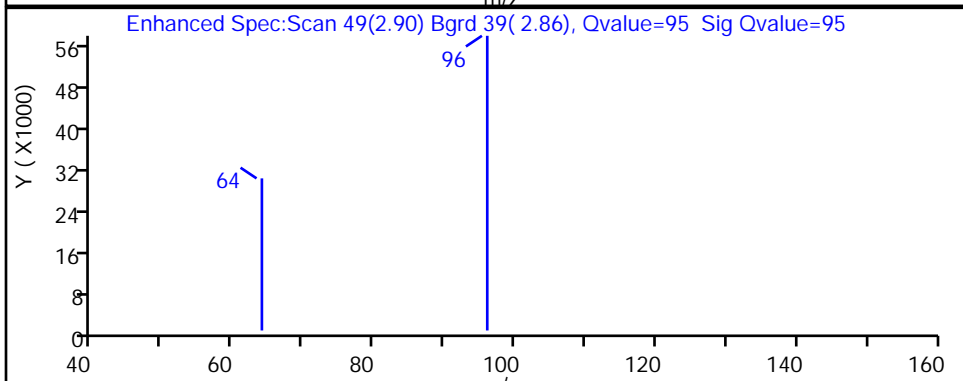
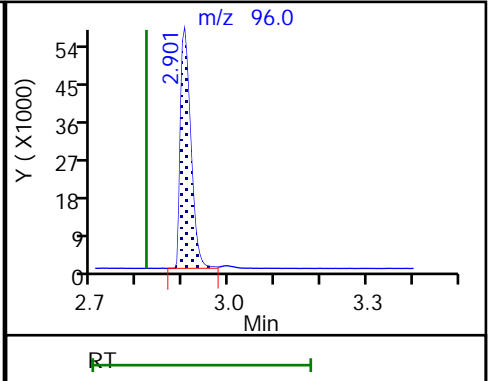
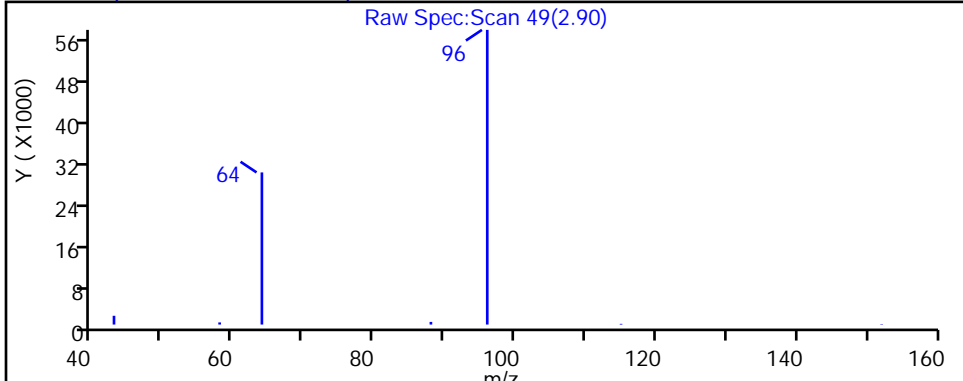
Method: 1.4\_Dx\_SIM\_HP5973Za

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 480-551803/2-A  
 Matrix: Water Lab File ID: Z002738.D  
 Analysis Method: 8270D SIM ID Date Collected: \_\_\_\_\_  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1000 (mL) Date Analyzed: 10/02/2020 02:06  
 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.: 552087 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.20		0.20	0.10

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	23		15-110

Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002738.D  
 Lims ID: LCS 480-551803/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 02-Oct-2020 02:06:30 ALS Bottle#: 33 Worklist Smp#: 5  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-005  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:35:33 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:35:33

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	2.932	2.818	0.114	95	71832	10.0	2.32	
3 1,4-Dioxane	88	2.973	2.863	0.111	94	8346	1.00	1.20	
* 2 1,4-Dichlorobenzene-d4	152	5.947	5.934	0.013	100	270079	4.00	4.00	

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002738.D

Injection Date: 02-Oct-2020 02:06:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: LCS 480-551803/2-A

Worklist Smp#: 5

Client ID:

Injection Vol: 1.0 ul

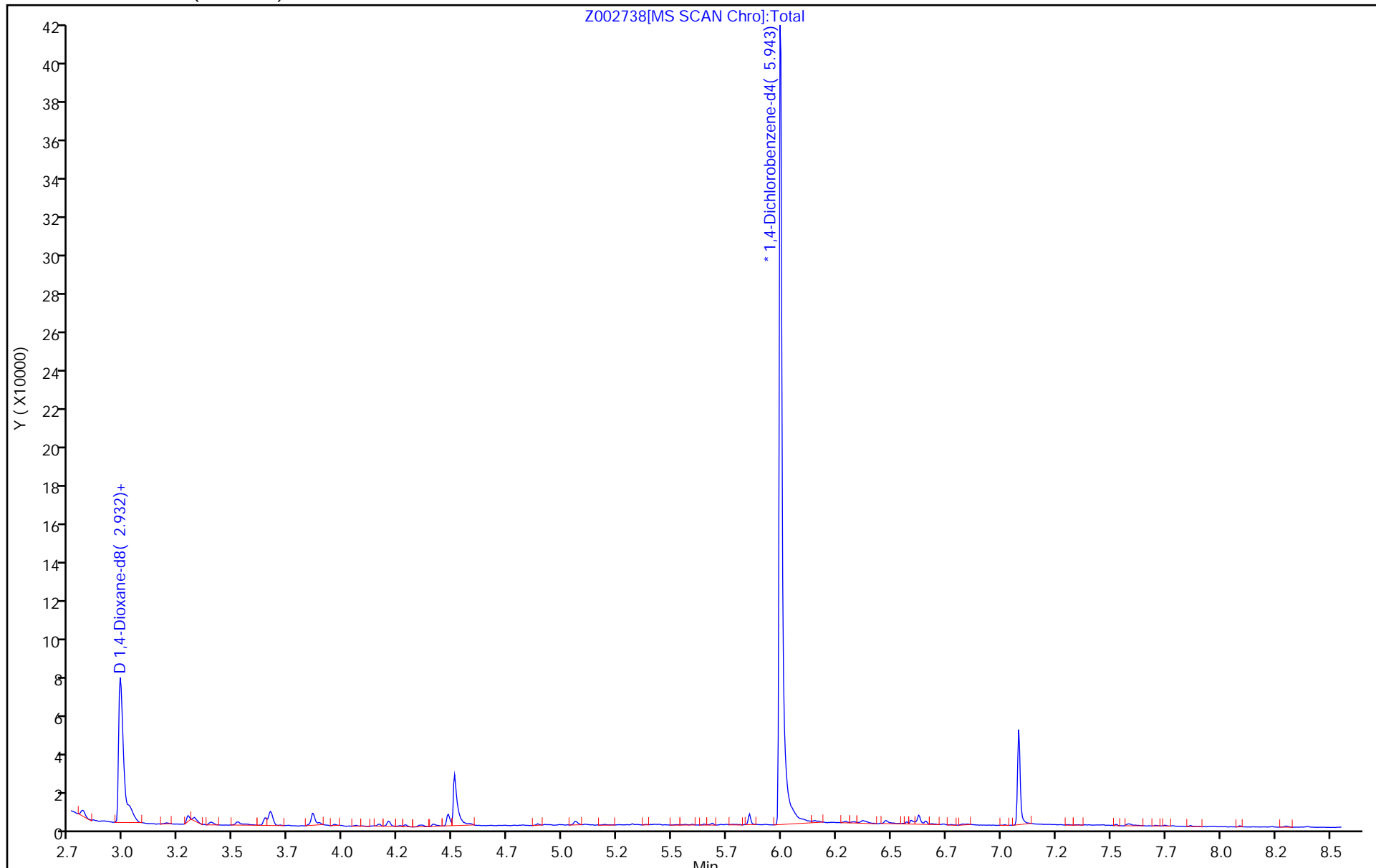
Dil. Factor: 1.0000

ALS Bottle#: 33

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B MS Lab Sample ID: 480-175657-6 MS  
 Matrix: Water Lab File ID: Z002739.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 09:56  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 02:29  
 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.: 552087 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.16		0.19	0.095

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
17647-74-4	1,4-Dioxane-d8	22		15-110



Eurofins TestAmerica, Buffalo  
Target Compound Quantitation Report

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002739.D  
 Lims ID: 480-175657-A-6-A MS  
 Client ID: MW-5B  
 Sample Type: MS  
 Inject. Date: 02-Oct-2020 02:29:30 ALS Bottle#: 34 Worklist Smp#: 6  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-006  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:35:33 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:35:43

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	2.929	2.818	0.111	96	72515	10.0	2.18	
3 1,4-Dioxane	88	2.970	2.863	0.108	92	8581	1.00	1.22	E
* 2 1,4-Dichlorobenzene-d4	152	5.948	5.934	0.014	100	290742	4.00	4.00	
7 4,4'-DDE	246		10.998					ND	
5 4,4'-DDD	235		11.297					ND	
6 4,4'-DDT	235		11.569					ND	

QC Flag Legend

Processing Flags

E - Exceeded Maximum Amount

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002739.D

Injection Date: 02-Oct-2020 02:29:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-A-6-A MS

Worklist Smp#: 6

Client ID: MW-5B

Injection Vol: 1.0 ul

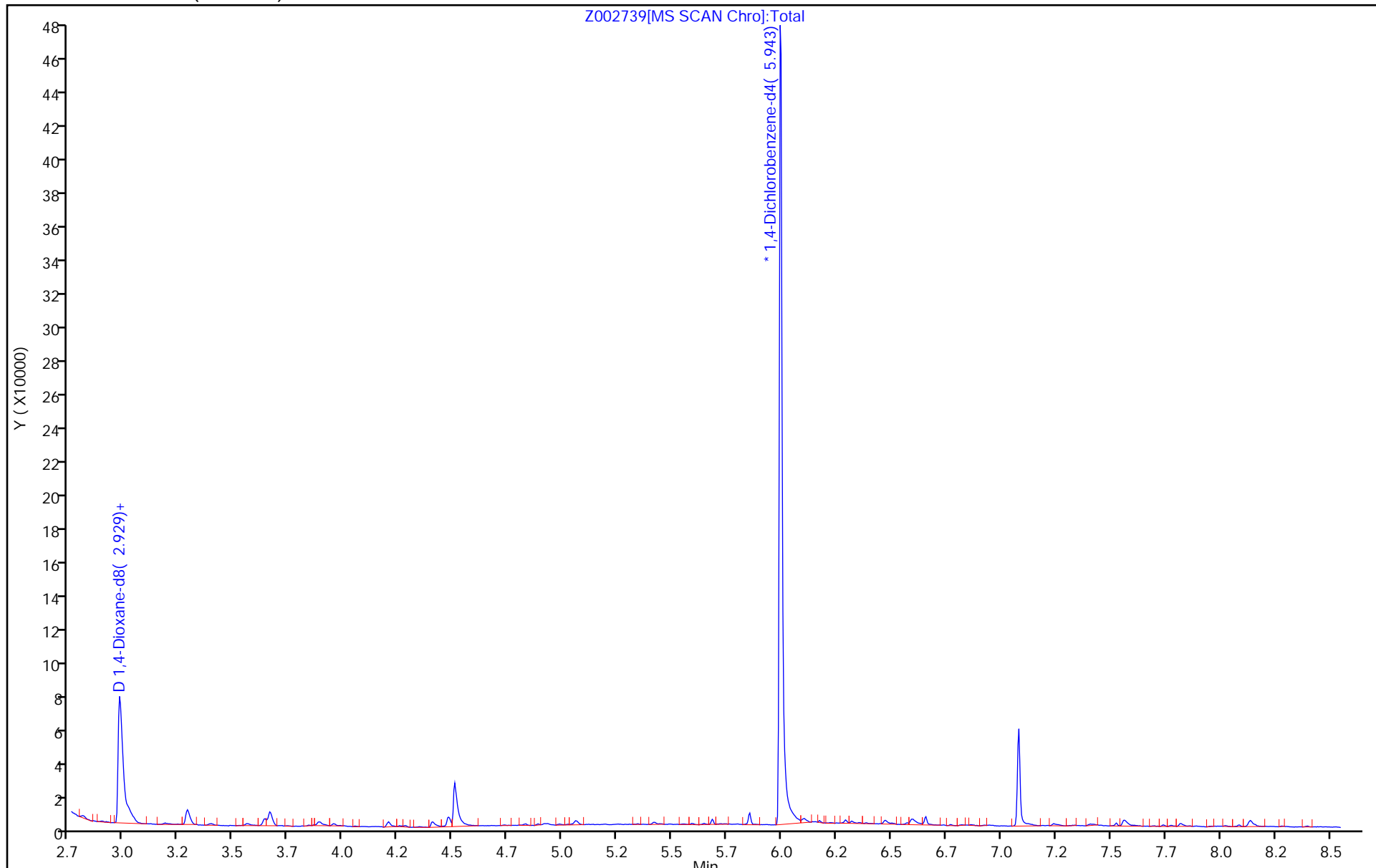
Dil. Factor: 1.0000

ALS Bottle#: 34

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B MSD Lab Sample ID: 480-175657-6 MSD  
 Matrix: Water Lab File ID: Z002740.D  
 Analysis Method: 8270D SIM ID Date Collected: 09/24/2020 09:56  
 Extract. Method: 3510C Date Extracted: 09/30/2020 08:35  
 Sample wt/vol: 1050 (mL) Date Analyzed: 10/02/2020 02:51  
 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.: 552087 Units: ug/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
123-91-1	1,4-Dioxane	1.11		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\20201001-93834.b\Z002740.D  
 Lims ID: 480-175657-A-6-B MSD  
 Client ID: MW-5B  
 Sample Type: MSD  
 Inject. Date: 02-Oct-2020 02:51:30 ALS Bottle#: 35 Worklist Smp#: 7  
 Injection Vol: 1.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-0093834-007  
 Operator ID: PJQ Instrument ID: HP5973Z  
 Method: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\1.4\_Dx\_SIM\_HP5973Za.m  
 Limit Group: MB - 8270D SIM ID ICAL  
 Last Update: 02-Oct-2020 13:35:33 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: CTX1626

First Level Reviewer: quirkp Date: 02-Oct-2020 13:35:51

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	2.943	2.818	0.125	94	85355	10.0	2.64	
3 1,4-Dioxane	88	2.984	2.863	0.122	94	9678	1.00	1.17	
* 2 1,4-Dichlorobenzene-d4	152	5.945	5.934	0.011	98	282491	4.00	4.00	
7 4,4'-DDE	246		10.998					ND	
5 4,4'-DDD	235		11.297					ND	
6 4,4'-DDT	235		11.569					ND	

QC Flag Legend

Processing Flags

Reagents:

MB\_LLIS\_WRK\_00201 Amount Added: 20.00 Units: uL Run Reagent

Eurofins TestAmerica, Buffalo

Data File: \\chromfs\Buffalo\ChromData\HP5973Z\20201001-93834.b\Z002740.D

Injection Date: 02-Oct-2020 02:51:30

Instrument ID: HP5973Z

Operator ID: PJQ

Lims ID: 480-175657-A-6-B MSD

Worklist Smp#: 7

Client ID: MW-5B

Injection Vol: 1.0 ul

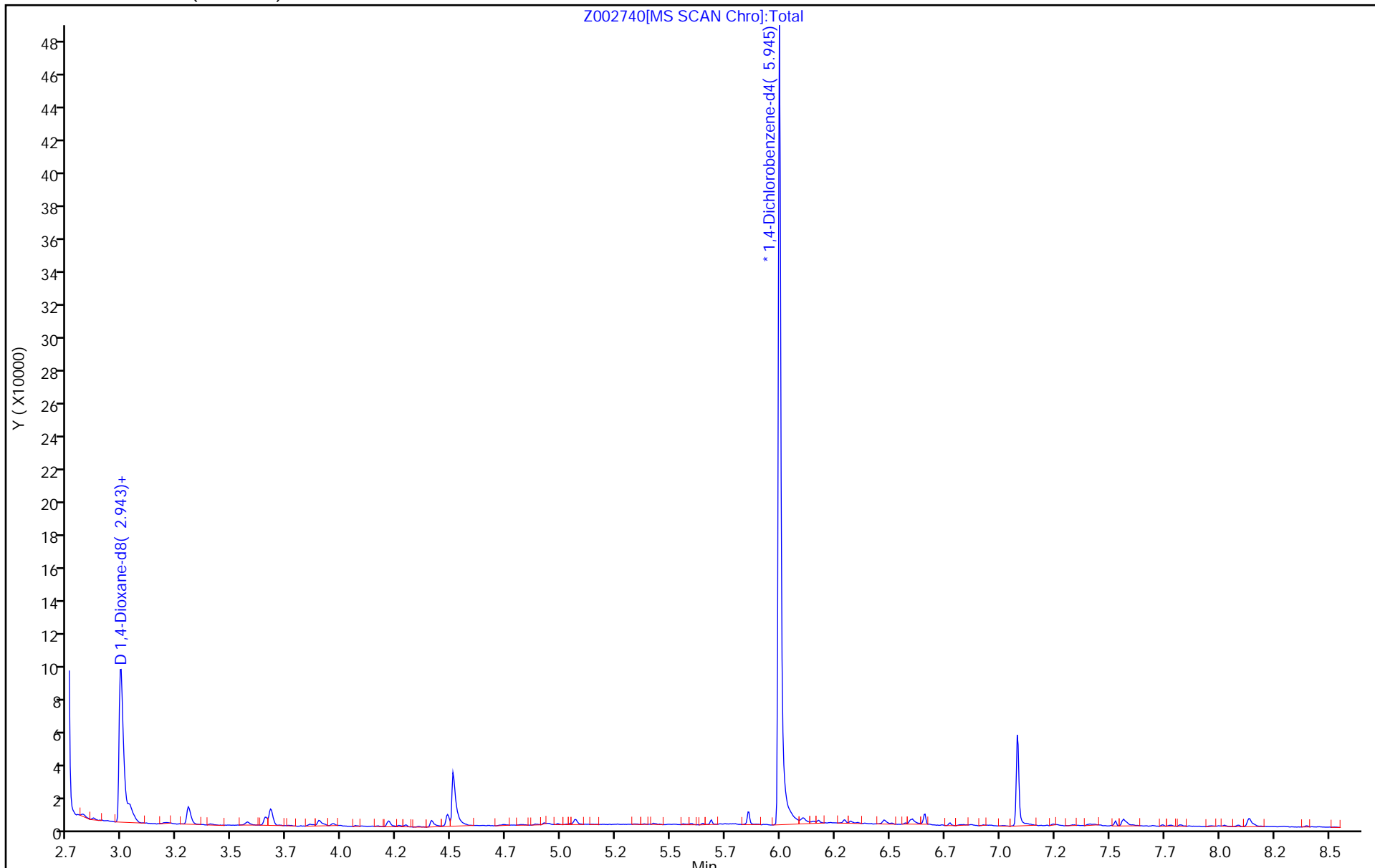
Dil. Factor: 1.0000

ALS Bottle#: 35

Method: 1.4\_Dx\_SIM\_HP5973Za

Limit Group: MB - 8270D SIM ID ICAL

Column: RXI-5Sil MS (0.25 mm)



## GC/MS SEMI VOA ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, BuffaloJob No.: 480-175657-1

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, Buffalo Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Instrument ID: HP5973Z Start Date: 10/02/2020 00:53

Analysis Batch Number: 552087 End Date: 10/02/2020 07:23

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
DFTPP 480-552087/2		10/02/2020 00:53	1	Z002735.D	RXI-5Sil MS(0.5 0.25 (mm))
CCVIS 480-552087/3		10/02/2020 01:20	1	Z002736.D	RXI-5Sil MS(0.5 0.25 (mm))
MB 480-551803/1-A		10/02/2020 01:43	1	Z002737.D	RXI-5Sil MS(0.5 0.25 (mm))
LCS 480-551803/2-A		10/02/2020 02:06	1	Z002738.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-6 MS	MW-5B MS	10/02/2020 02:29	1	Z002739.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-6 MSD	MW-5B MSD	10/02/2020 02:51	1	Z002740.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-6	MW-5B	10/02/2020 03:14	1	Z002741.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-1	MW-1B	10/02/2020 03:37	1	Z002742.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-2	MW-3	10/02/2020 04:00	1	Z002743.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-3	MW-3B	10/02/2020 04:22	1	Z002744.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-4	MW-4	10/02/2020 04:45	1	Z002745.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-5	MW-5	10/02/2020 05:08	1	Z002746.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-7	DUPLICATE	10/02/2020 05:30	1	Z002747.D	RXI-5Sil MS(0.5 0.25 (mm))
480-175657-8	EQUIPMENT BLANK	10/02/2020 05:53	1	Z002748.D	RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		10/02/2020 06:16	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		10/02/2020 06:38	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		10/02/2020 07:01	1		RXI-5Sil MS(0.5 0.25 (mm))
ZZZZZ		10/02/2020 07:23	1		RXI-5Sil MS(0.5 0.25 (mm))

## GC/MS SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Batch Number: 551803 Batch Start Date: 09/30/20 08:35 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 00026
MB 480-551803/1		3510C, 8270D SIM ID		1000 mL	1 mL	7 SU	<2 SU		1 mL
LCS 480-551803/2		3510C, 8270D SIM ID		1000 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-175657-A-6 MS	MW-5B	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-175657-A-6 MSD	MW-5B	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU	1 mL	1 mL
480-175657-B-6	MW-5B	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-175657-B-1	MW-1B	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-175657-A-2	MW-3	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-175657-B-3	MW-3B	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-175657-B-4	MW-4	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-175657-B-5	MW-5	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-175657-B-7	DUPLICATE	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL
480-175657-A-8	EQUIPMENT BLANK	3510C, 8270D SIM ID	T	1050 mL	1 mL	7 SU	<2 SU		1 mL

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
MB 480-551803/1		3510C, 8270D SIM ID							
LCS 480-551803/2		3510C, 8270D SIM ID							
480-175657-A-6 MS	MW-5B	3510C, 8270D SIM ID	T						
480-175657-A-6 MSD	MW-5B	3510C, 8270D SIM ID	T						
480-175657-B-6	MW-5B	3510C, 8270D SIM ID	T						
480-175657-B-1	MW-1B	3510C, 8270D SIM ID	T						
480-175657-A-2	MW-3	3510C, 8270D SIM ID	T						

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 SEMI VOA BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Buffalo Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Batch Number: 551803 Batch Start Date: 09/30/20 08:35 Batch Analyst: Pollock, Jacob M

Batch Method: 3510C Batch End Date: \_\_\_\_\_

Lab Sample ID	Client Sample ID	Method Chain	Basis	AnalysisComment					
480-175657-B-3	MW-3B	3510C, 8270D SIM ID	T						
480-175657-B-4	MW-4	3510C, 8270D SIM ID	T						
480-175657-B-5	MW-5	3510C, 8270D SIM ID	T	Possibly double surrogated					
480-175657-B-7	DUPLICATE	3510C, 8270D SIM ID	T						
480-175657-A-8	EQUIPMENT BLANK	3510C, 8270D SIM ID	T						

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	6136399
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.

# PFC\_IDA

---

Fluorinated Alkyl Substances

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1

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 #	C4PFHA #	M262FTS #	PFOA #	PFOS #
MW-1B	480-175657-1	75	75	76	81	79	80	74	55
MW-3	480-175657-2	66	82	88	85	86	89	87	56

PFBA = 13C4 PFBA  
 PFPeA = 13C5 PFPeA  
 C3PFBS = 13C3 PFBS  
 PFHxA = 13C2 PFHxA  
 C4PFHA = 13C4 PFHpA  
 M262FTS = M2-6:2 FTS  
 PFOA = 13C4 PFOA  
 PFOS = 13C4 PFOS

QC LIMITS

25-150  
 25-150  
 50-150  
 50-150  
 50-150  
 25-150  
 50-150  
 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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFNA #	PFDA #	M282FTS #	PFOSA #	d3NMFOS #	PFUnA #	d5NEFOS #	PFDoA #
MW-1B	480-175657-1	65	53	59	49	46 *5	47 *5	57	52
MW-3	480-175657-2	66	51	56	45	46 *5	48 *5	48 *5	50

PFNA = 13C5 PFNA  
 PFDA = 13C2 PFDA  
 M282FTS = M2-8:2 FTS  
 PFOSA = 13C8 FOSA  
 d3NMFOS = d3-NMeFOSAA  
 PFUnA = 13C2 PFUnA  
 d5NEFOS = d5-NEtFOSAA  
 PFDoA = 13C2 PFDoA

QC LIMITS

50-150  
 50-150  
 25-150  
 25-150  
 50-150  
 50-150  
 50-150  
 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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFTDA #
MW-1B	480-175657-1	61
MW-3	480-175657-2	57

PFTDA = 13C2 PFTeDA

QC LIMITS  
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.: 480-175657-1

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 #
MW-3B	480-175657-3	49	60	55	59	57	62	62	58
MW-4	480-175657-4	62	87	95	99	106	101	110	101
MW-5	480-175657-5	65	82	87	89	93	90	100	91
MW-5B	480-175657-6	86	95	93	96	97	96	102	96
DUPLICATE	480-175657-7	71	87	93	97	96	91	109	96
EQUIPMENT BLANK	480-175657-8	112	105	95	107	102	100	101	98
	MB 200-159386/1-A	119	110	106	110	107	105	111	104
	LCS 200-159386/2-A	108	102	99	105	96	101	95	93
MW-5B MS	480-175657-6 MS	83	93	94	98	94	97	106	99
MW-5B MSD	480-175657-6 MSD	86	94	92	97	98	100	113	96

QC LIMITS

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.: 480-175657-1

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 #	PFUnA #	d5NEFOS #
MW-3B	480-175657-3	50	50	51	59	26	44 *5	96	126
MW-4	480-175657-4	88	94	82	88	77	73	72	73
MW-5	480-175657-5	70	78	71	71	53	68	69	66
MW-5B	480-175657-6	84	83	81	86	55	68	80	78
DUPLICATE	480-175657-7	88	94	88	96	54	74	76	67
EQUIPMENT BLANK	480-175657-8	97	99	95	99	68	78	83	91
	MB 200-159386/1-A	105	108	102	103	51	90	80	76
	LCS 200-159386/2-A	100	96	90	89	63	83	84	79
MW-5B MS	480-175657-6 MS	89	92	93	80	59	66	85	86
MW-5B MSD	480-175657-6 MSD	88	95	86	92	55	72	81	74

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
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFD <sub>o</sub> A #	PFTDA #
MW-3B	480-175657-3	85	55
MW-4	480-175657-4	68	77
MW-5	480-175657-5	66	64
MW-5B	480-175657-6	77	71
DUPLICATE	480-175657-7	74	75
EQUIPMENT BLANK	480-175657-8	76	67
	MB 200-159386/1-A	54	48 *5
	LCS 200-159386/2-A	68	65
MW-5B MS	480-175657-6 MS	84	67
MW-5B MSD	480-175657-6 MSD	80	69

PFD<sub>o</sub>A = 13C2 PFD<sub>o</sub>A  
PFTDA = 13C2 PFT<sub>e</sub>DA

QC LIMITS  
50-150  
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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFHxS #	PFOS #
MW-1B	480-175657-1	75	59
MW-3	480-175657-2	87	58

PFHxS = 1802 PFHxS  
PFOS = 13C4 PFOS

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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: PA200930B03.d

Lab ID: LCS 200-159386/2-A Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	40.0	40.4	101	50-150	
Perfluoropentanoic acid (PFPeA)	40.0	39.2	98	50-150	
Perfluorohexanoic acid (PFHxA)	40.0	40.1	100	70-130	
Perfluoroheptanoic acid (PFHpA)	40.0	39.4	98	70-130	
Perfluorooctanoic acid (PFOA)	40.0	42.9	107	70-130	
Perfluorononanoic acid (PFNA)	40.0	42.7	107	70-130	
Perfluorodecanoic acid (PFDA)	40.0	42.8	107	70-130	
Perfluoroundecanoic acid (PFUnA)	40.0	40.3	101	70-130	
Perfluorododecanoic acid (PFDoA)	40.0	39.6	99	70-130	
Perfluorotridecanoic acid (PFTriA)	40.0	40.7	102	70-130	
Perfluorotetradecanoic acid (PFTeA)	40.0	41.8	104	70-130	
Perfluorobutanesulfonic acid (PFBS)	35.4	36.8	104	70-130	
Perfluorohexanesulfonic acid (PFHxS)	36.4	38.7	106	70-130	
Perfluoroheptanesulfonic Acid (PFHpS)	38.1	40.8	107	50-150	
Perfluorooctanesulfonic acid (PFOS)	37.1	35.4	95	70-130	
Perfluorodecanesulfonic acid (PFDS)	38.6	31.5	82	50-150	
Perfluorooctanesulfonamide (PFOSA)	40.0	39.6	99	50-150	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	40.0	41.0	103	70-130	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	40.0	41.0	102	70-130	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	37.9	40.7	107	50-150	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	38.3	39.3	103	50-150	
18O2 PFHxS	47.3	45.6	96	50-150	
13C4 PFHpA	50.0	50.7	101	50-150	
13C4 PFOA	50.0	46.4	93	50-150	
13C4 PFOS	47.8	47.9	100	50-150	
13C5 PFNA	50.0	48.1	96	50-150	
13C4 PFBA	50.0	54.2	108	25-150	
13C2 PFHxA	50.0	52.4	105	50-150	
13C2 PFDA	50.0	45.1	90	50-150	
13C2 PFUnA	50.0	41.8	84	50-150	

# 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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: PA200930B03.d  
 Lab ID: LCS 200-159386/2-A      Client ID: \_\_\_\_\_

COMPOUND	SPIKE ADDED (ng/L)	LCS CONCENTRATION (ng/L)	LCS % REC	QC LIMITS REC	#
13C2 PFDoA	50.0	33.9	68	50-150	
13C8 FOSA	50.0	31.3	63	25-150	
13C5 PFPeA	50.0	50.9	102	25-150	
13C2 PFTeDA	50.0	32.4	65	50-150	
d3-NMeFOSAA	50.0	41.4	83	50-150	
d5-NEtFOSAA	50.0	39.3	79	50-150	
M2-6:2 FTS	47.5	45.3	95	25-150	
M2-8:2 FTS	47.9	42.6	89	25-150	
13C3 PFBS	46.5	46.0	99	50-150	

# 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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: PA200930B23.d  
 Lab ID: 480-175657-6 MS      Client ID: MW-5B MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
Perfluorobutanoic acid (PFBA)	32.2	16	46.2	94	40-160	
Perfluoropentanoic acid (PFPeA)	32.2	16	46.0	94	40-160	
Perfluorohexanoic acid (PFHxA)	32.2	13	45.2	100	40-160	
Perfluoroheptanoic acid (PFHpA)	32.2	12	43.9	99	40-160	
Perfluorooctanoic acid (PFOA)	32.2	39	72.9	106	40-160	
Perfluorononanoic acid (PFNA)	32.2	5.3	36.1	96	40-160	
Perfluorodecanoic acid (PFDA)	32.2	ND	28.8	89	40-160	
Perfluoroundecanoic acid (PFUnA)	32.2	ND	33.7	105	40-160	
Perfluorododecanoic acid (PFDoA)	32.2	ND	31.2	97	40-160	
Perfluorotridecanoic acid (PFTriA)	32.2	ND	30.5	95	40-160	
Perfluorotetradecanoic acid (PFTeA)	32.2	ND	33.6	104	40-160	
Perfluorobutanesulfonic acid (PFBS)	28.4	17	46.0	103	40-160	
Perfluorohexanesulfonic acid (PFHxS)	29.3	3.1	31.9	98	40-160	
Perfluoroheptanesulfonic Acid (PFHpS)	30.6	0.49 J	33.3	107	40-160	
Perfluorooctanesulfonic acid (PFOS)	29.8	30	59.1	97	40-160	
Perfluorodecanesulfonic acid (PFDS)	31.0	ND	31.2	101	40-160	
Perfluorooctanesulfonamide (PFOSA)	32.2	ND	32.1	100	40-160	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	32.2	ND	36.3	113	40-160	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	32.2	ND	27.8	87	40-160	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	30.5	0.92 J	33.6	107	40-160	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	30.8	ND	32.9	107	40-160	
18O2 PFHxS	38.0	38	35.6	94	50-150	
13C4 PFHpA	40.2	40	39.1	97	50-150	
13C4 PFOA	40.2	40	39.9	99	50-150	
13C4 PFOS	38.4	33	34.2	89	50-150	
13C5 PFNA	40.2	35	37.1	92	50-150	
13C4 PFBA	40.2	35	33.2	83	25-150	
13C2 PFHxA	40.2	40	39.2	98	50-150	
13C2 PFDA	40.2	34	37.4	93	50-150	
13C2 PFUnA	40.2	33	34.3	85	50-150	

# Column to be used to flag recovery and RPD values

FORM III  
LCMS MATRIX SPIKE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington      Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: PA200930B23.d  
 Lab ID: 480-175657-6 MS      Client ID: MW-5B MS

COMPOUND	SPIKE ADDED (ng/L)	SAMPLE CONCENTRATION (ng/L)	MS CONCENTRATION (ng/L)	MS % REC	QC LIMITS REC	#
13C2 PFDoA	40.2	32	33.9	84	50-150	
13C8 FOSA	40.2	23	23.8	59	25-150	
13C5 PFPeA	40.2	40	37.2	93	25-150	
13C2 PFTeDA	40.2	30	27.1	67	50-150	
d3-NMeFOSAA	40.2	28	26.4	66	50-150	
d5-NEtFOSAA	40.2	32	34.5	86	50-150	
M2-6:2 FTS	38.2	40	40.5	106	25-150	
M2-8:2 FTS	38.5	34	30.8	80	25-150	
13C3 PFBS	37.4	36	35.3	94	50-150	

# 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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low Lab File ID: PA200930B24.d

Lab ID: 480-175657-6 MSD Client ID: MW-5B MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
Perfluorobutanoic acid (PFBA)	32.3	44.9	90	3	30	40-160	
Perfluoropentanoic acid (PFPeA)	32.3	45.4	92	1	30	40-160	
Perfluorohexanoic acid (PFHxA)	32.3	46.1	102	2	20	40-160	
Perfluoroheptanoic acid (PFHpA)	32.3	42.1	93	4	20	40-160	
Perfluorooctanoic acid (PFOA)	32.3	71.4	101	2	20	40-160	
Perfluorononanoic acid (PFNA)	32.3	34.5	90	5	20	40-160	
Perfluorodecanoic acid (PFDA)	32.3	33.6	104	16	20	40-160	
Perfluoroundecanoic acid (PFUnA)	32.3	34.9	108	4	20	40-160	
Perfluorododecanoic acid (PFDoA)	32.3	32.2	100	3	20	40-160	
Perfluorotridecanoic acid (PFTriA)	32.3	30.7	95	1	20	40-160	
Perfluorotetradecanoic acid (PFTeA)	32.3	33.5	104	0	20	40-160	
Perfluorobutanesulfonic acid (PFBS)	28.6	49.0	113	6	20	40-160	
Perfluorohexanesulfonic acid (PFHxS)	29.4	33.0	102	3	20	40-160	
Perfluoroheptanesulfonic Acid (PFHpS)	30.8	33.3	107	0	30	40-160	
Perfluorooctanesulfonic acid (PFOS)	30.0	59.2	97	0	20	40-160	
Perfluorodecanesulfonic acid (PFDS)	31.2	29.4	94	6	30	40-160	
Perfluorooctanesulfonamide (PFOSA)	32.3	32.7	101	2	30	40-160	
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	32.3	36.2	112	0	20	40-160	
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	32.3	32.3	100	15	20	40-160	
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	30.6	30.5	96	10	30	40-160	
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	31.0	29.9	97	10	30	40-160	
18O2 PFHxS	38.2	37.4	98			50-150	
13C4 PFHpA	40.4	40.5	100			50-150	
13C4 PFOA	40.4	38.8	96			50-150	
13C4 PFOS	38.6	34.1	88			50-150	
13C5 PFNA	40.4	38.4	95			50-150	
13C4 PFBA	40.4	34.6	86			25-150	
13C2 PFHxA	40.4	39.2	97			50-150	
13C2 PFDA	40.4	34.6	86			50-150	
13C2 PFUnA	40.4	32.6	81			50-150	

# 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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Matrix: Water      Level: Low      Lab File ID: PA200930B24.d  
 Lab ID: 480-175657-6 MSD      Client ID: MW-5B MSD

COMPOUND	SPIKE ADDED (ng/L)	MSD CONCENTRATION (ng/L)	MSD % REC	% RPD	QC LIMITS		#
					RPD	REC	
13C2 PFDoA	40.4	32.1	80			50-150	
13C8 FOSA	40.4	22.4	55			25-150	
13C5 PFPeA	40.4	37.9	94			25-150	
13C2 PFTeDA	40.4	27.9	69			50-150	
d3-NMeFOSAA	40.4	29.1	72			50-150	
d5-NEtFOSAA	40.4	30.0	74			50-150	
M2-6:2 FTS	38.4	43.6	113			25-150	
M2-8:2 FTS	38.7	35.6	92			25-150	
13C3 PFBS	37.6	34.6	92			50-150	

# 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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab File ID: PA200930B02.d Lab Sample ID: MB 200-159386/1-A  
 Matrix: Water Date Extracted: 09/30/2020 13:06  
 Instrument ID: LC812 Date Analyzed: 09/30/2020 18:22  
 Level: (Low/Med) Low

THIS METHOD BLANK APPLIES TO THE FOLLOWING SAMPLES:

CLIENT SAMPLE ID	LAB SAMPLE ID	LAB FILE ID	DATE ANALYZED
	LCS 200-159386/2-A	PA200930B03 .d	09/30/2020 18:30
MW-1B	480-175657-1	PA200930B17 .d	09/30/2020 20:27
MW-3	480-175657-2	PA200930B18 .d	09/30/2020 20:35
MW-3B	480-175657-3	PA200930B19 .d	09/30/2020 20:43
MW-4	480-175657-4	PA200930B20 .d	09/30/2020 20:51
MW-5	480-175657-5	PA200930B21 .d	09/30/2020 21:00
MW-5B	480-175657-6	PA200930B22 .d	09/30/2020 21:08
MW-5B MS	480-175657-6 MS	PA200930B23 .d	09/30/2020 21:16
MW-5B MSD	480-175657-6 MSD	PA200930B24 .d	09/30/2020 21:25
DUPLICATE	480-175657-7	PA200930B25 .d	09/30/2020 21:33
EQUIPMENT BLANK	480-175657-8	PA200930B26 .d	09/30/2020 21:41
MW-1B	480-175657-1	PA201001A38 .d	10/01/2020 23:10
MW-3	480-175657-2	PA201001A39 .d	10/01/2020 23:18



FORM VIII  
LCMS INTERNAL STANDARD AREA AND RETENTION TIME SUMMARY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 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		#	RT #	#	RT #
	AREA #	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 200-159389/5		647706	3.45			
CCVIS 200-159389/6		644288	3.45			
CCVL 200-159470/5		615273	3.46			
CCVIS 200-159470/6		637720	3.46			

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area  
 RT Limit = ± 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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-159389/6 Date Analyzed: 09/30/2020 14:30  
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)  
 Lab File ID (Standard): PA200930A06.d Heated Purge: (Y/N) N  
 Calibration ID: 44168

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		644288	3.45				
UPPER LIMIT		966432	3.65				
LOWER LIMIT		322144	3.25				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-159409/1		671933	3.45				
MB 200-159386/1-A		619328	3.45				
LCS 200-159386/2-A		665926	3.44				
CCV 200-159409/14		657512	3.46				
480-175657-1	MW-1B	661071	3.45				
480-175657-2	MW-3	670800	3.45				
480-175657-3	MW-3B	696104	3.45				
480-175657-4	MW-4	709766	3.45				
480-175657-5	MW-5	723084	3.45				
480-175657-6	MW-5B	656758	3.45				
480-175657-6 MS	MW-5B MS	679208	3.45				
480-175657-6 MSD	MW-5B MSD	665187	3.45				
480-175657-7	DUPLICATE	645841	3.45				
480-175657-8	EQUIPMENT BLANK	669780	3.45				
CCV 200-159409/27		653179	3.45				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area  
 RT Limit = ± 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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Sample No.: CCVIS 200-159470/6 Date Analyzed: 10/01/2020 18:45  
 Instrument ID: LC812 GC Column: C-18 ID: 4.6 (mm)  
 Lab File ID (Standard): PA201001A06.d Heated Purge: (Y/N) N  
 Calibration ID: 44168

		13PFOA					
		AREA #	RT #	#	RT #	#	RT #
12/24 HOUR STD		637720	3.46				
UPPER LIMIT		956580	3.66				
LOWER LIMIT		318860	3.26				
LAB SAMPLE ID	CLIENT SAMPLE ID						
CCV 200-159470/33		622099	3.46				
480-175657-1	MW-1B	727525	3.46				
480-175657-2	MW-3	639578	3.46				
CCV 200-159470/40		706140	3.46				

13PFOA = 13C2 PFOA

Area Limit = 50%-150% of internal standard area  
 RT Limit = ± 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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-1B Lab Sample ID: 480-175657-1  
 Matrix: Water Lab File ID: PA200930B17.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 15:00  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 294.2 (mL) Date Analyzed: 09/30/2020 20:27  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	9.9		4.2	0.96
2706-90-3	Perfluoropentanoic acid (PFPeA)	22		1.7	0.92
307-24-4	Perfluorohexanoic acid (PFHxA)	20		1.7	0.71
375-85-9	Perfluoroheptanoic acid (PFHpA)	14		1.7	0.39
335-67-1	Perfluorooctanoic acid (PFOA)	40		1.7	0.83
375-95-1	Perfluorononanoic acid (PFNA)	5.9		1.7	0.49
335-76-2	Perfluorodecanoic acid (PFDA)	0.74	J	1.7	0.39
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.62
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.39
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.50
375-73-5	Perfluorobutanesulfonic acid (PFBS)	5.7		1.7	0.54
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.73	J	1.7	0.33
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.48
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.2	0.67
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.79
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.2	0.61
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.56

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-1B Lab Sample ID: 480-175657-1  
 Matrix: Water Lab File ID: PA200930B17.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 15:00  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 294.2 (mL) Date Analyzed: 09/30/2020 20:27  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	79		50-150
STL00990	13C4 PFOA	74		50-150
STL00991	13C4 PFOS	55		50-150
STL00995	13C5 PFNA	65		50-150
STL00992	13C4 PFBA	75		25-150
STL00993	13C2 PFHxA	81		50-150
STL00996	13C2 PFDA	53		50-150
STL00997	13C2 PFUnA	47	*5	50-150
STL00998	13C2 PFDoA	52		50-150
STL01056	13C8 FOSA	49		25-150
STL01893	13C5 PFPeA	75		25-150
STL02116	13C2 PFTeDA	61		50-150
STL02118	d3-NMeFOSAA	46	*5	50-150
STL02117	d5-NEtFOSAA	57		50-150
STL02279	M2-6:2 FTS	80		25-150
STL02280	M2-8:2 FTS	59		25-150
STL02337	13C3 PFBS	76		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
 Lims ID: 480-175657-C-1-A  
 Client ID: MW-1B  
 Sample Type: Client  
 Inject. Date: 30-Sep-2020 20:27:02 ALS Bottle#: 17 Worklist Smp#: 17  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-1-A  
 Misc. Info.: 200-0043035-017 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 14:28:12  
 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	1.990	0.0	0.577	713080	0.9410	75.3	6972	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.000	155712	0.2920		31.5		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	510803	0.9404	75.2	1239	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	276138	0.6399		9.2		M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	582362	0.8804	75.7	30986	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.353	0.0	1.006	84122	0.1685	Target=2.07	19.0		M
298.90 > 99.00	2.353	2.353	0.0	1.006	41959		2.00(1.04-3.11)	12.6		M
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.784	568630	1.02	81.3	2636	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	264190	0.5768	Target=12.44	33.3		M
313.00 > 119.00	2.703	2.703	0.0	1.000	21534		12.27(6.22-18.66)	25.9		
D 11 18O2 PFHxS	403.00 > 84.00	3.084	3.073	0.011	0.894	407824	0.8593	72.7	2222	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.000	100031	0.2626	Target=4.60	89.1		M
399.00 > 99.00	3.073	3.073	0.0	0.996	20533		4.87(2.30-6.91)	38.1		M
D 9 13C4 PFHpA	367.00 > 322.00	3.084	3.084	0.0	0.894	500342	0.9835	78.7	3223	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	160631	0.4005	Target=3.34	42.9		M
363.00 > 169.00	3.084	3.084	0.0	1.000	46784		3.43(1.67-5.01)	82.6		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.433	0.009	0.914	5305	0.0215	Target=7.08	10.8		M
449.00 > 99.00	3.441	3.433	0.009	0.914	530		10.01(3.54-10.63)	3.1		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.450	3.433	0.018	1.003	440	0.0108		17.4		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.997	60422	0.9526		80.2	279	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	484756	0.9311		74.5	3181	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		661071	1.25		6308		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	476049	1.19	Target=2.29	125		M
413.00 > 169.00	3.450	3.450	0.0	1.000	235339		2.02(1.14-3.43)	499		M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	253921	0.6541		54.7	854	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	135223	0.5856	Target=7.10	172		M
499.00 > 99.00	3.765	3.765	0.0	1.000	15176		8.91(3.55-10.64)	92.1		M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	354172	0.8072		64.6	2663	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.786	3.786	0.0	1.000	49887	0.1729	Target=5.83	20.8		M
463.00 > 169.00	3.786	3.786	0.0	1.000	8660		5.76(2.91-8.74)	97.2		M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	277765	0.6602		52.8	3327	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.082	4.082	0.0	1.000	4782	0.0218	Target=6.81	7.0		M
513.00 > 169.00	4.082	4.082	0.0	1.000	833		5.74(3.41-10.22)	15.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	52666	0.7050		58.9	519	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	415516	0.6128		49.0	2182	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.139	4.139	0.0	1.000	848	0.002729		2.4		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.224	13862	0.5787		46.3	269	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.224	4.224	0.0	1.000	118	0.0113		3.2		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.309	4.309	0.0	1.144	287	0.001880	Target=3.31	1.8		M
599.00 > 99.00	4.309	4.309	0.0	1.144	108		2.66(1.66-4.97)	1.1		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	186193	0.5862		46.9	4569	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.343	0.012	1.003	1607	0.0109	Target=6.57	2.1		M
563.00 > 169.00	4.343	4.343	0.0	1.000	203		7.92(3.28-9.85)	7.0		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	18349	0.7125		57.0	362	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	216362	0.6445		51.6	2044	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.597	4.573	0.024	1.005	458	0.002713	Target=5.16	1.2		M
613.00 > 169.00	4.573	4.573	0.0	1.000	146		3.14(2.58-7.75)	4.2		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.969	0.010	1.443	183526	0.7675		61.4	2612	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.979	4.969	0.010	1.000	124	0.003687	Target=1.06	5.0		M
713.00 > 219.00	4.960	4.969	-0.009	0.996	123		1.01(0.53-1.59)	7.0		M

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d

Injection Date: 30-Sep-2020 20:27:02

Instrument ID: LC812

Lims ID: 480-175657-C-1-A

Lab Sample ID: 200-175657-1

Client ID: MW-1B

Operator ID: lc812tech

ALS Bottle#: 17

Worklist Smp#: 17

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

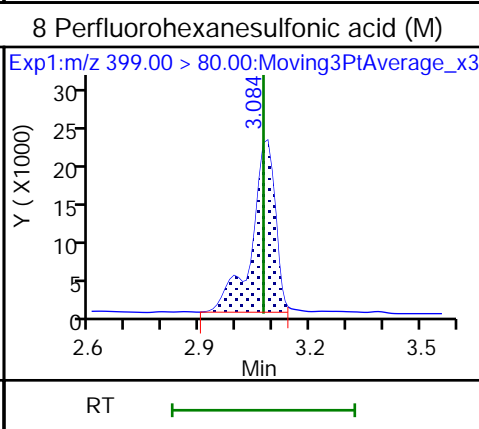
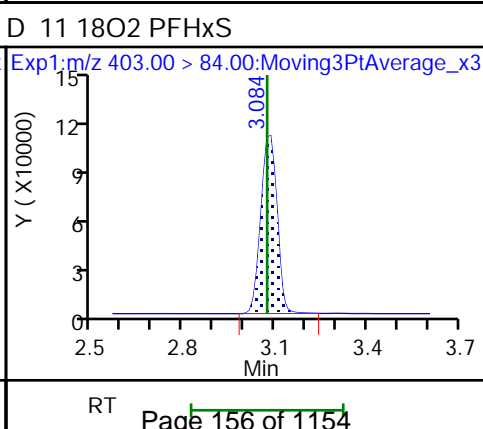
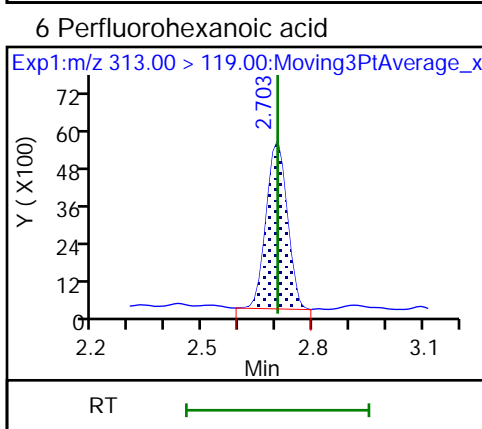
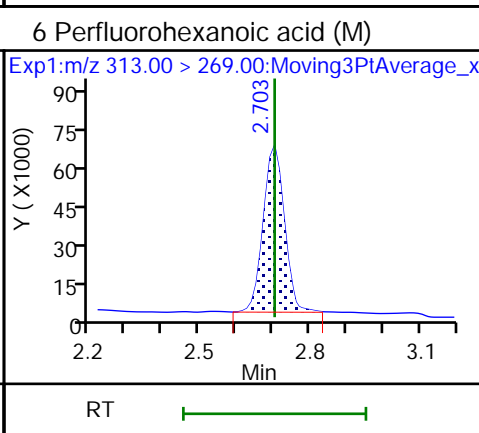
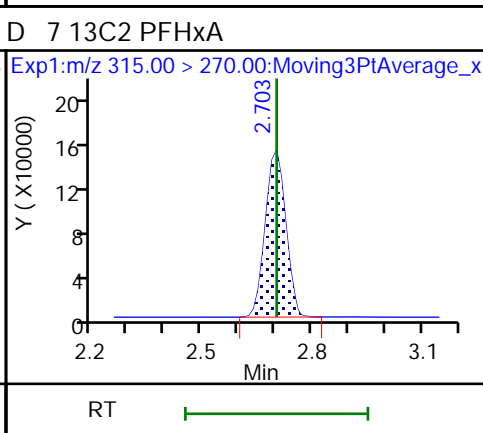
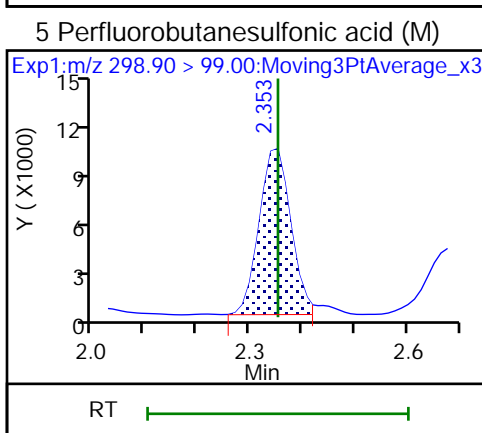
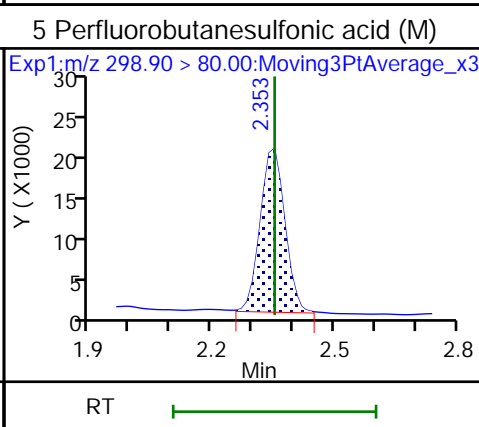
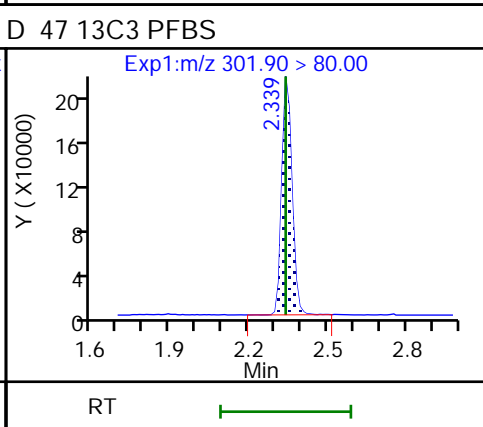
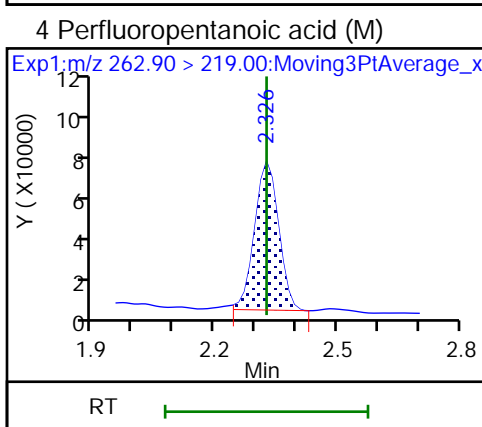
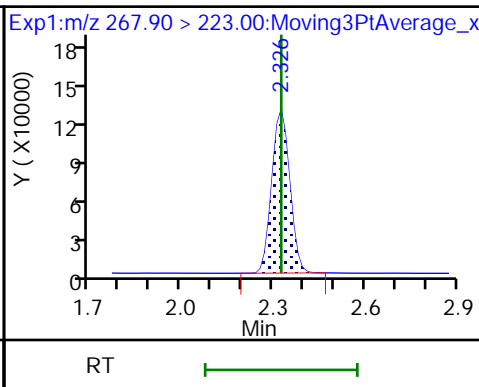
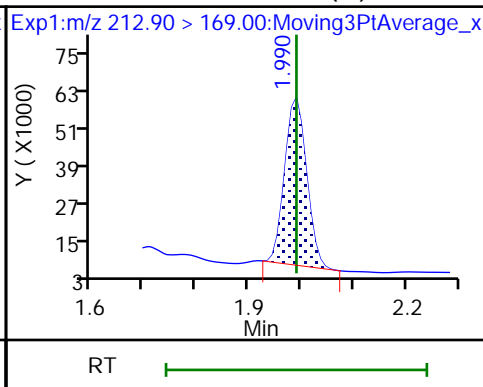
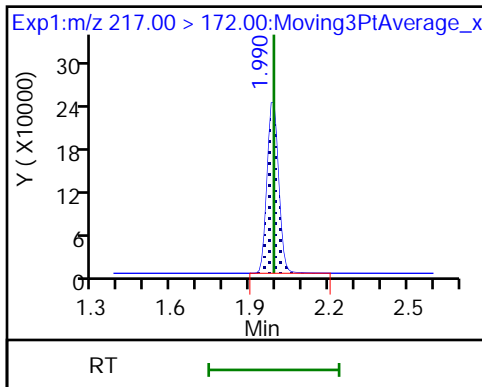
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

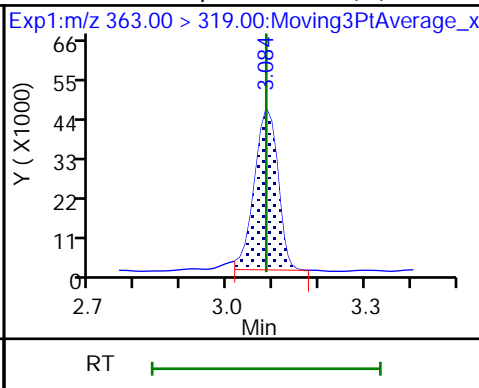
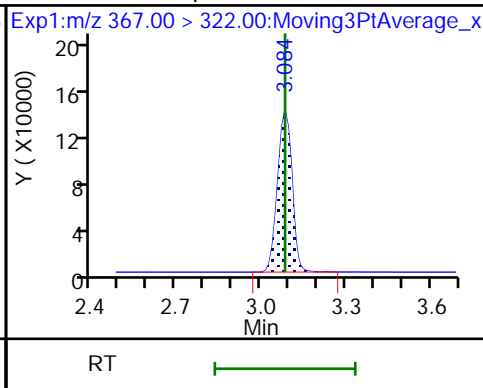
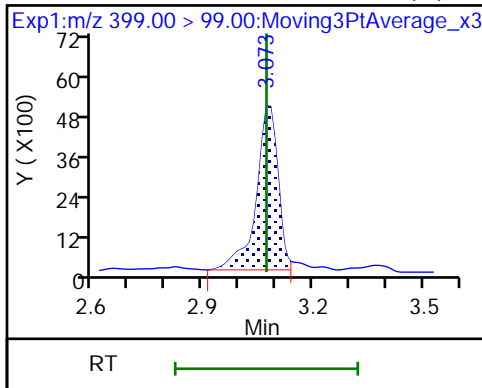
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

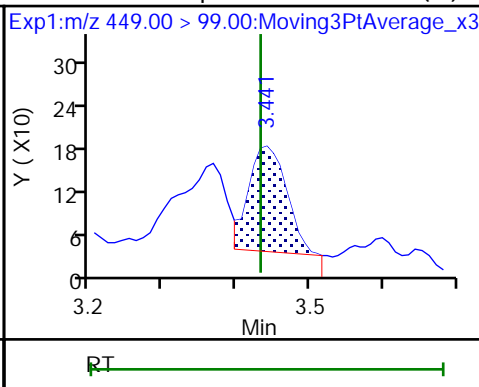
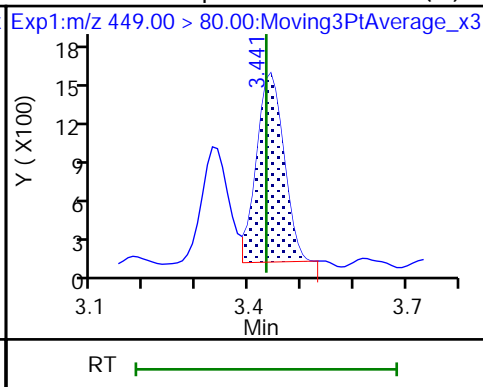
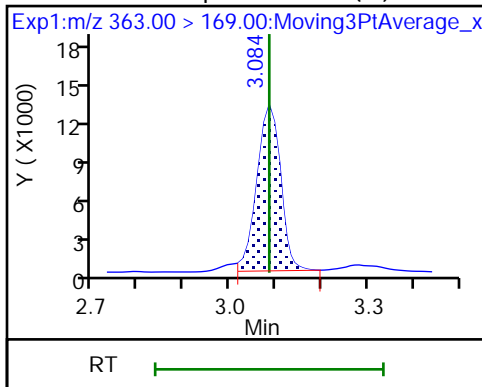
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (M)

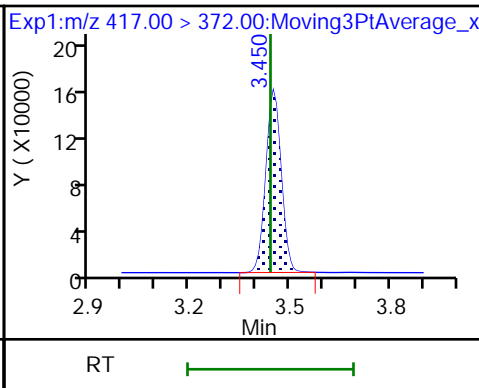
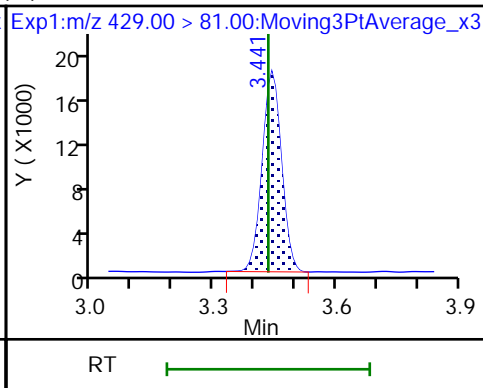
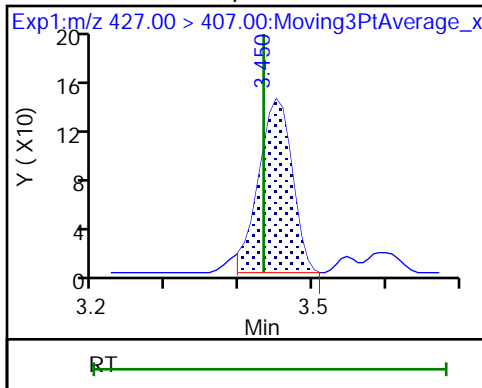
16 Perfluoroheptanesulfonic acid (M)



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

D 12 M2-6:2 FTS

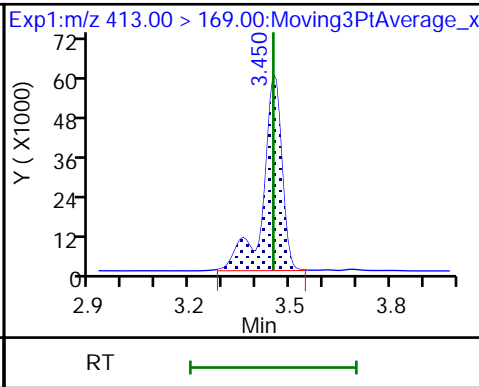
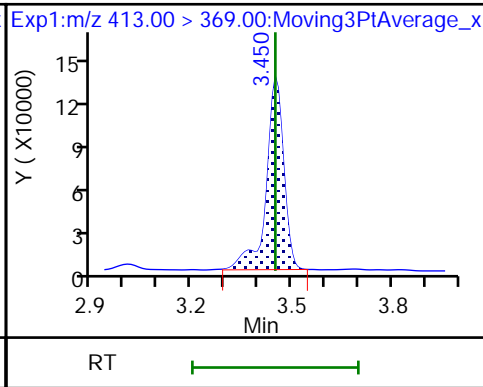
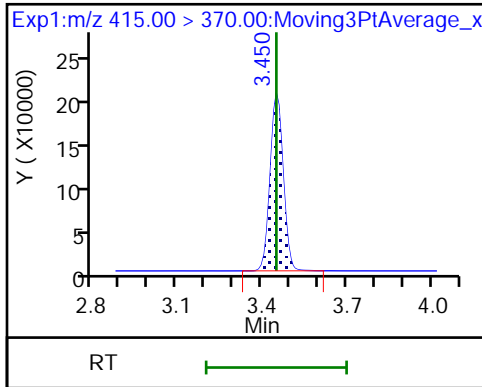
D 14 13C4 PFOA



\* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

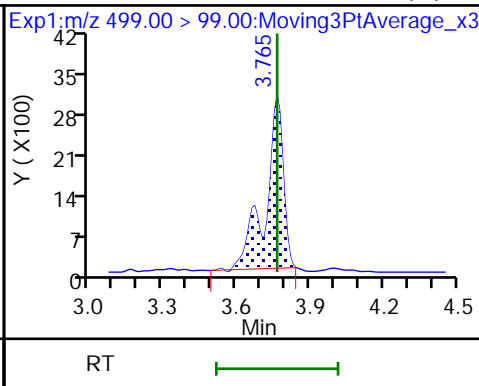
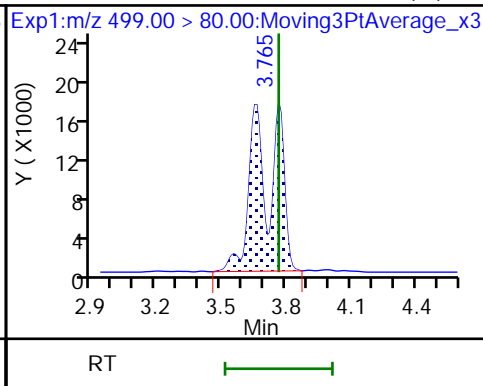
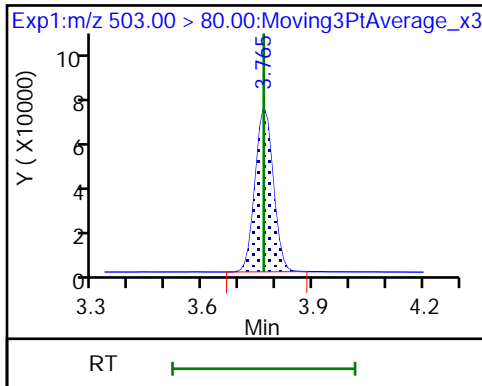
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

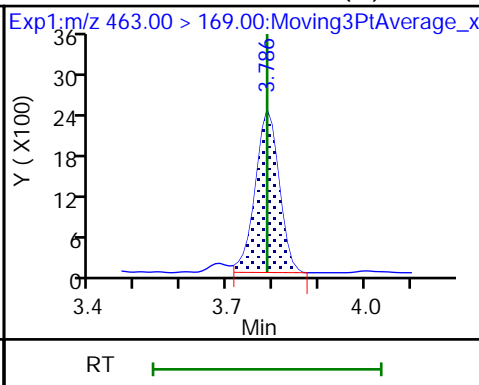
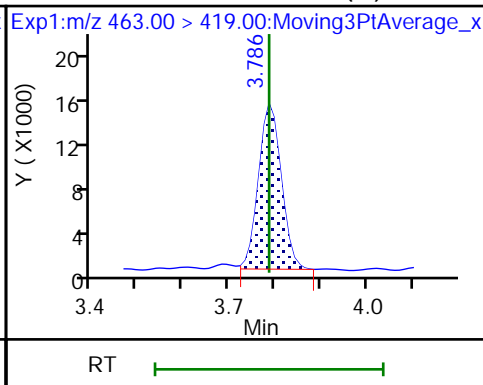
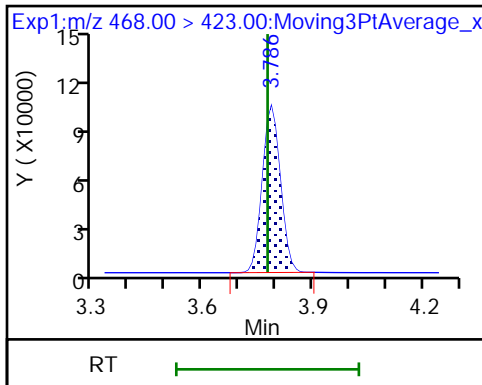
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

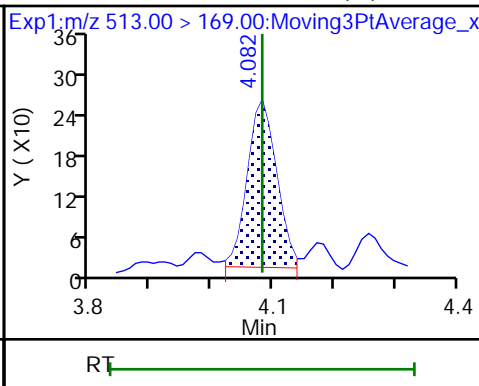
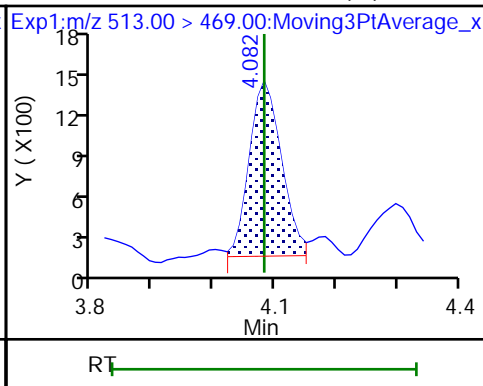
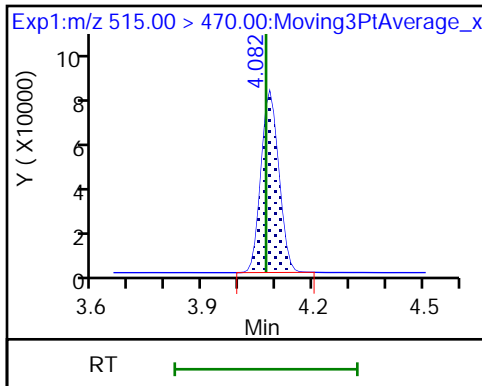
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

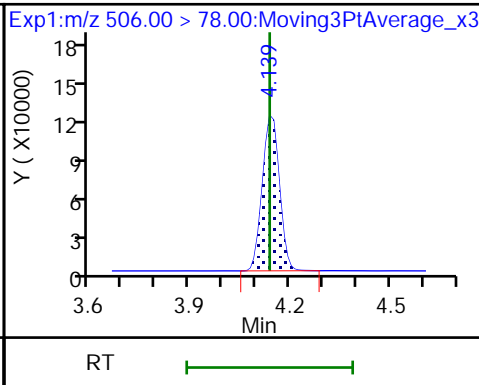
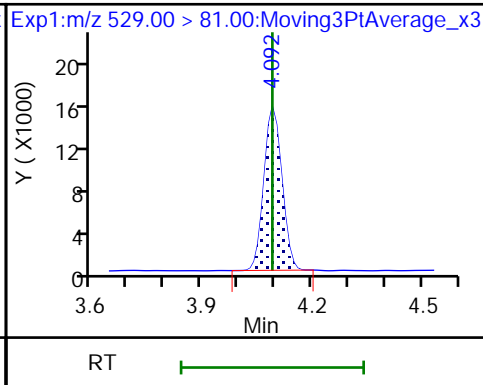
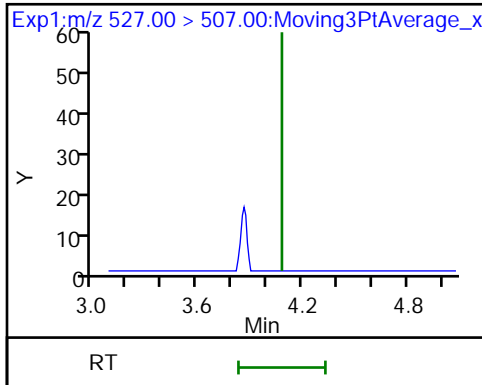
24 Perfluorodecanoic acid (M)

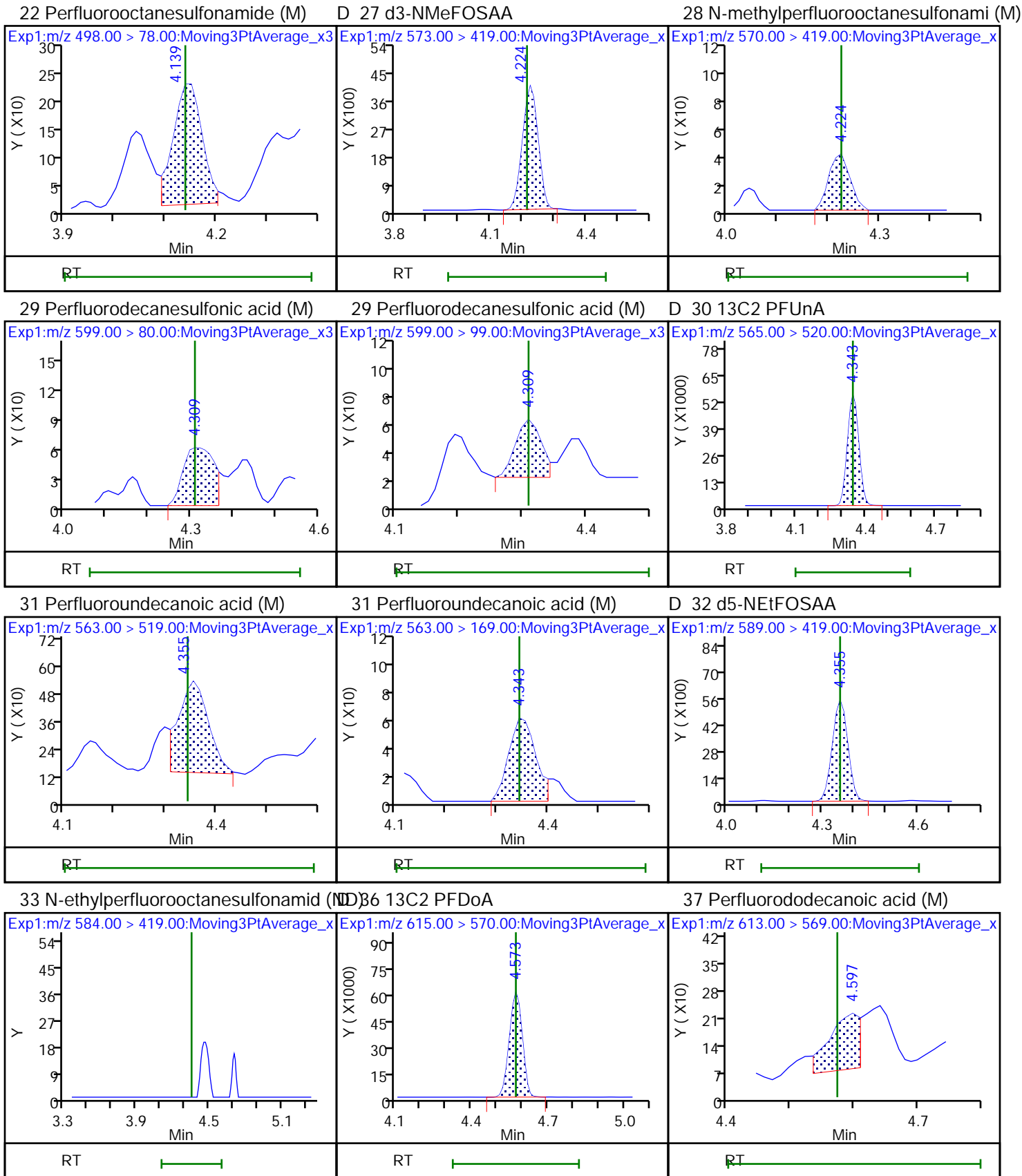


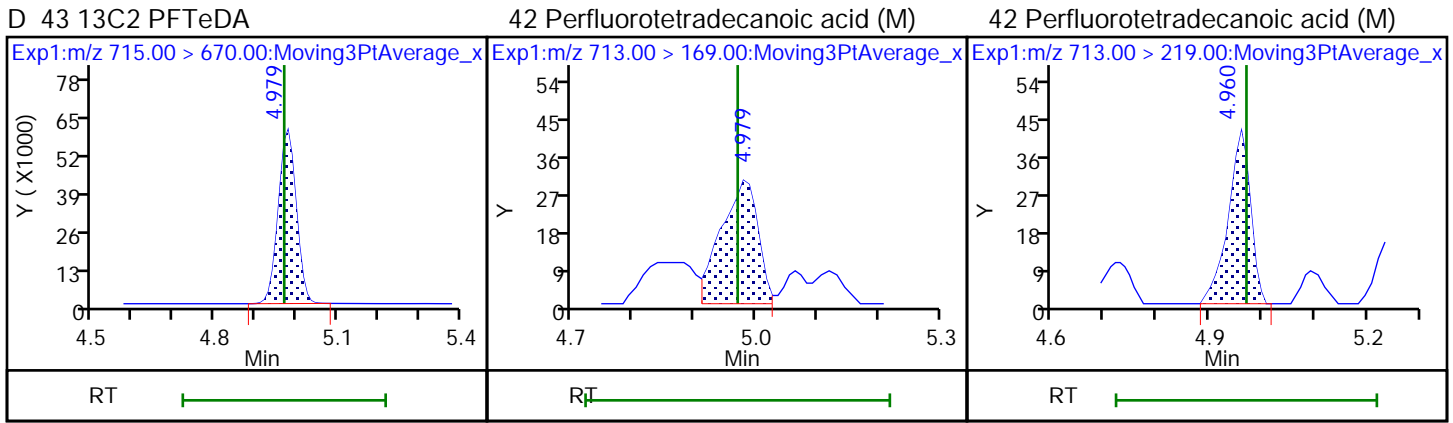
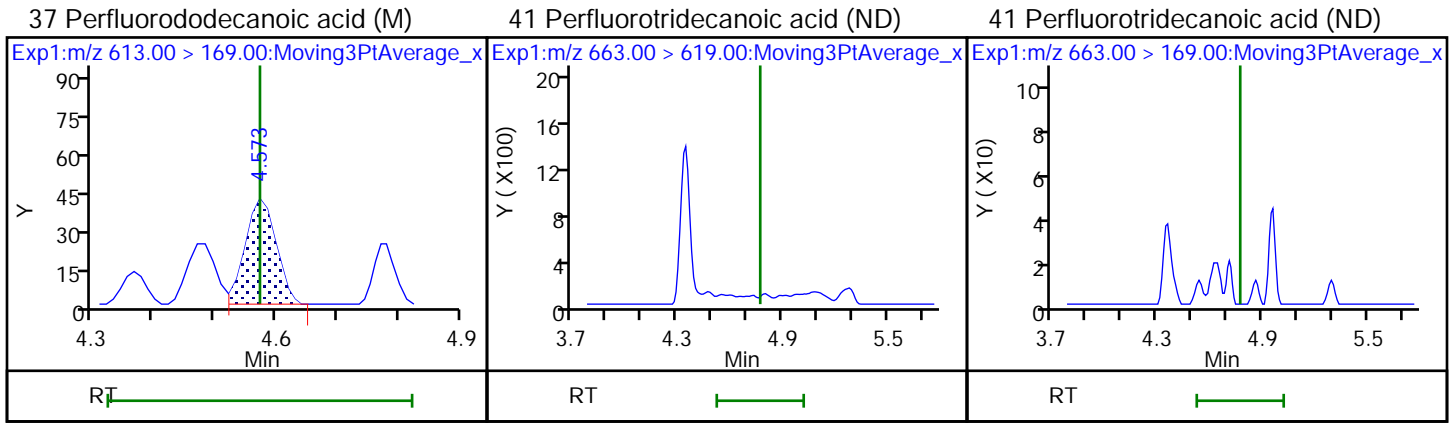
25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

ND6 M2-8:2 FTS

D 21 13C8 FOSA







Euofins TestAmerica, Burlington

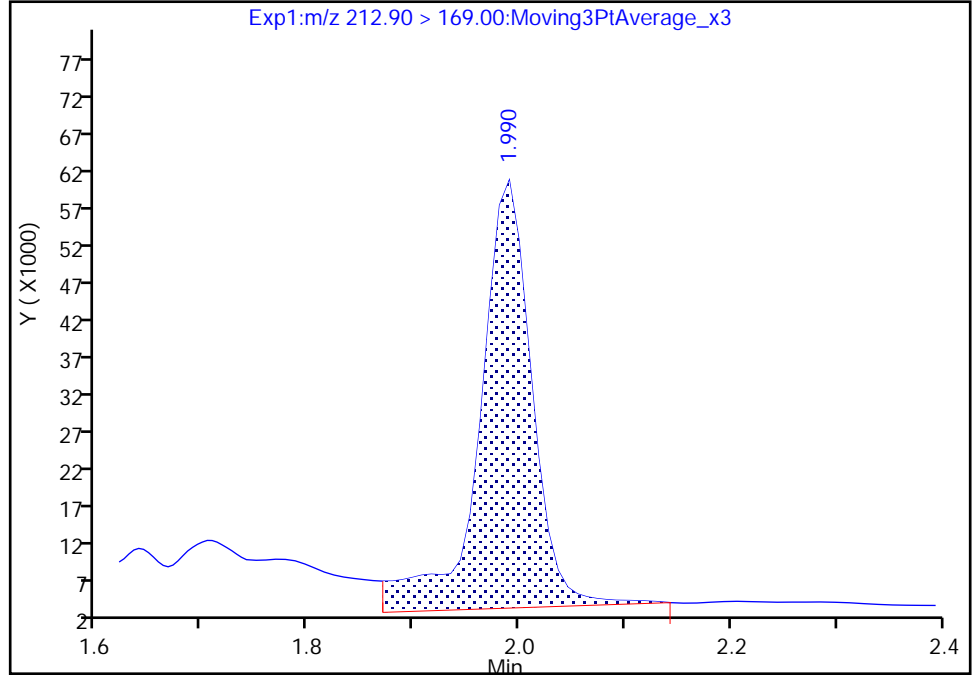
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

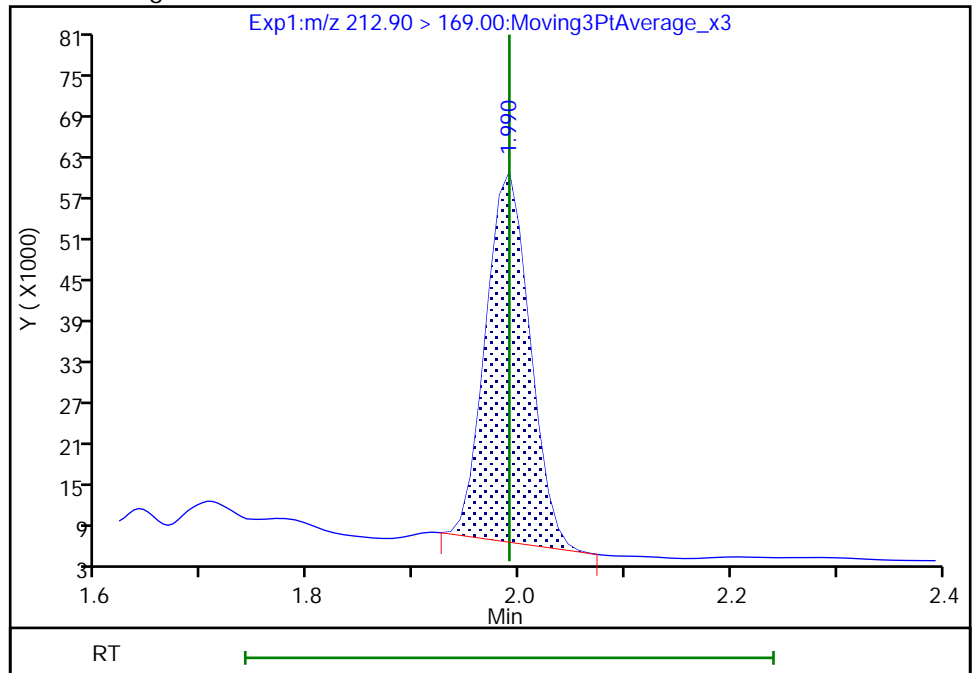
RT: 1.99  
Area: 197058  
Amount: 0.369551  
Amount Units: ng/ml

Processing Integration Results



RT: 1.99  
Area: 155712  
Amount: 0.292013  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:30:10  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

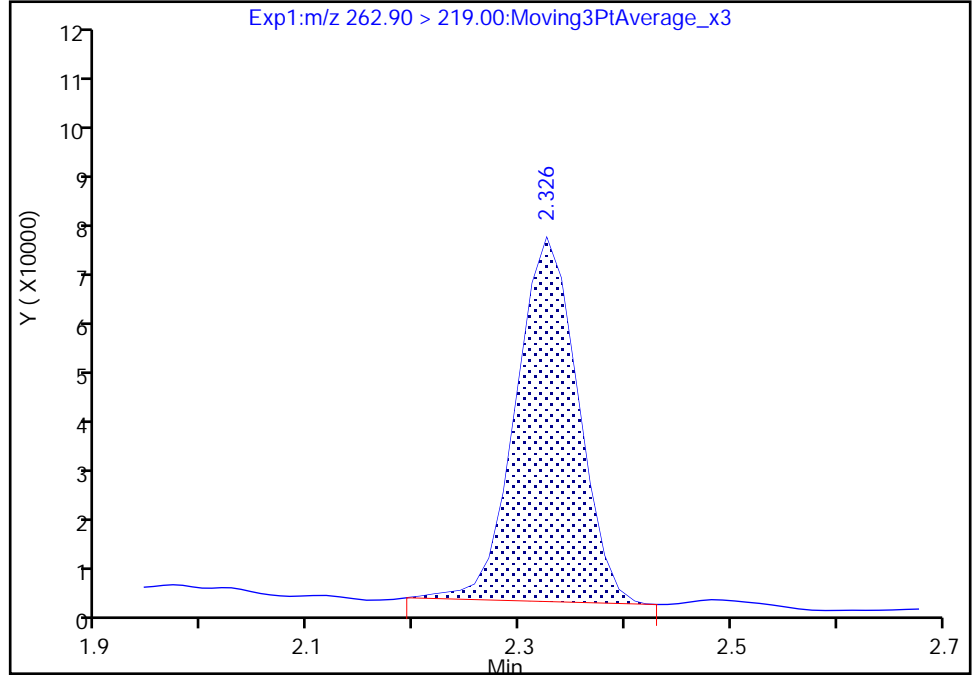
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

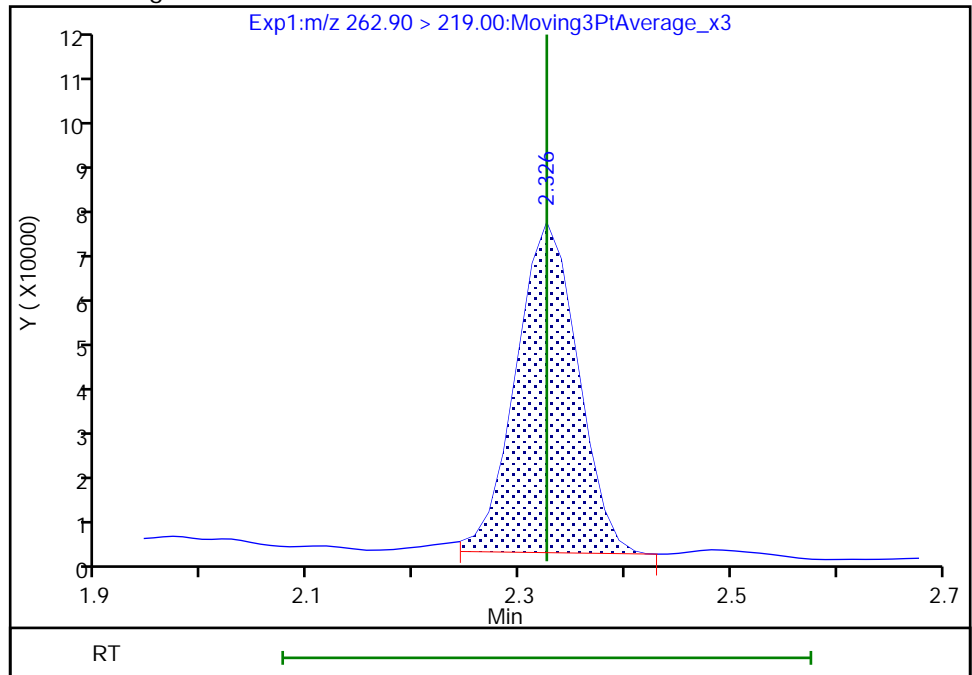
RT: 2.33  
Area: 276096  
Amount: 0.639763  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 276138  
Amount: 0.639861  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:30:22  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

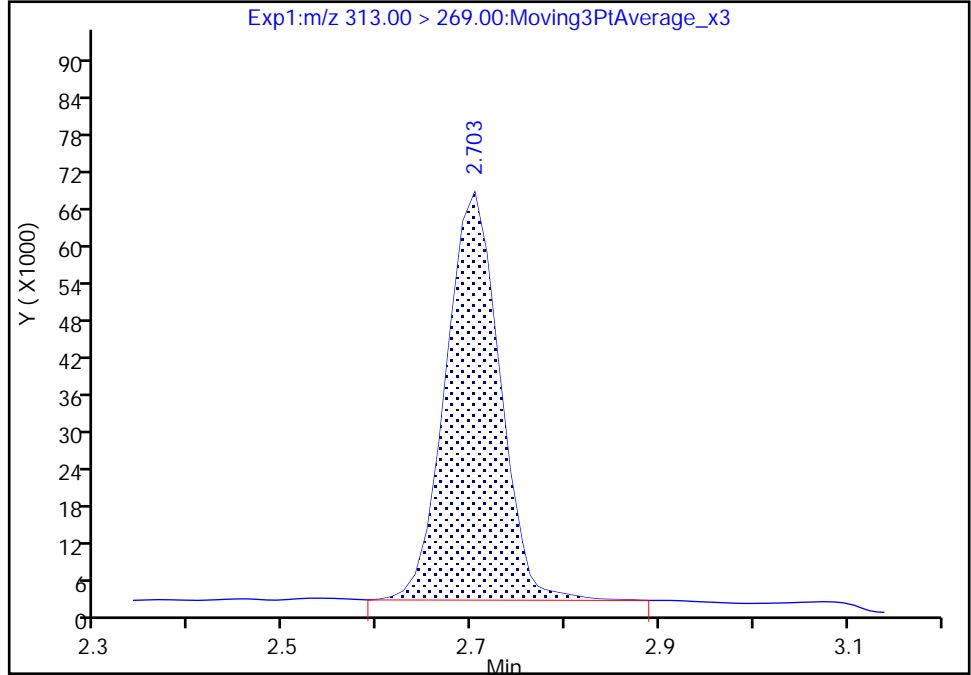
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

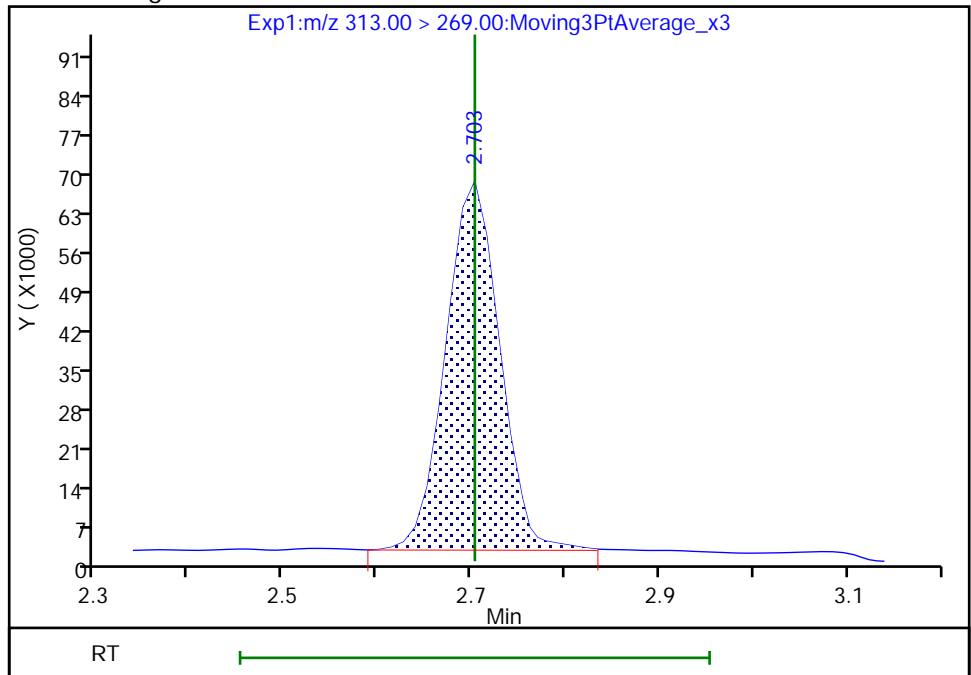
RT: 2.70  
Area: 264538  
Amount: 0.577512  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 264190  
Amount: 0.576753  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:31:09  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

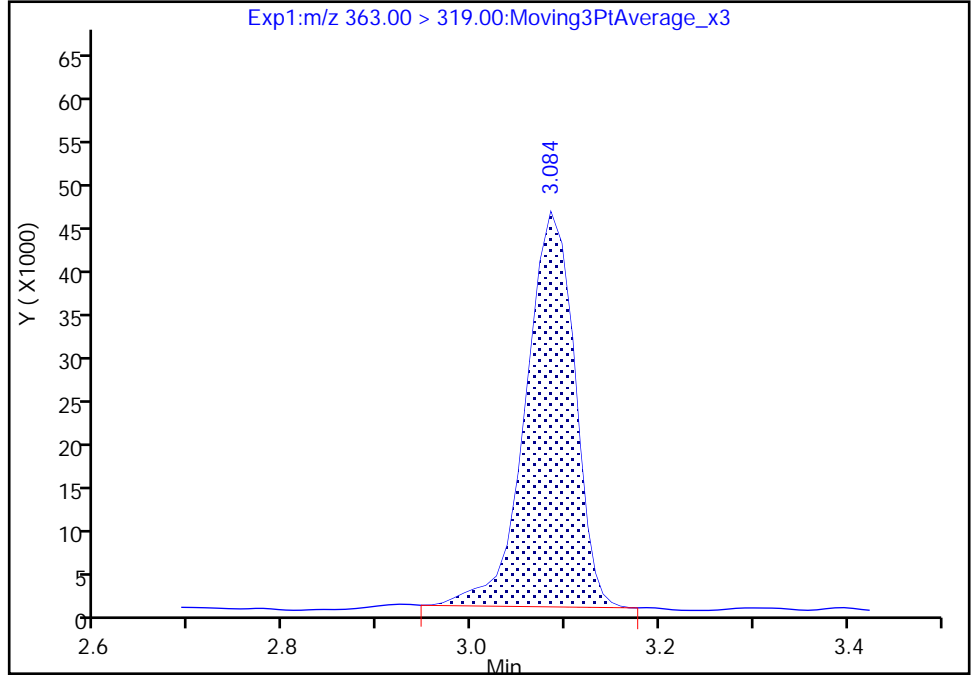
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

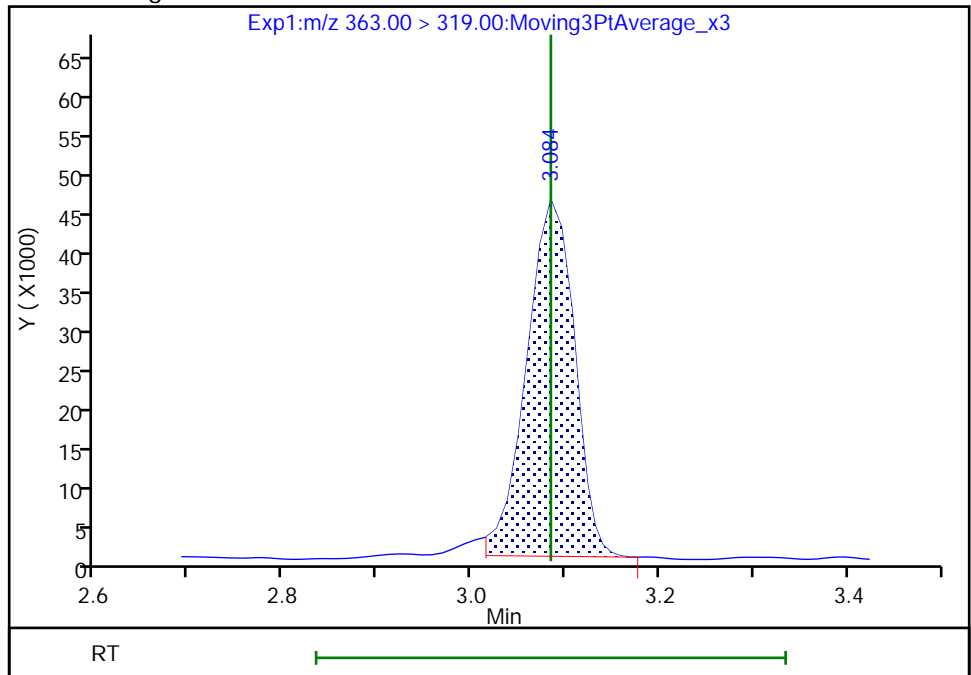
RT: 3.08  
Area: 164638  
Amount: 0.410468  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 160631  
Amount: 0.400478  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:31:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

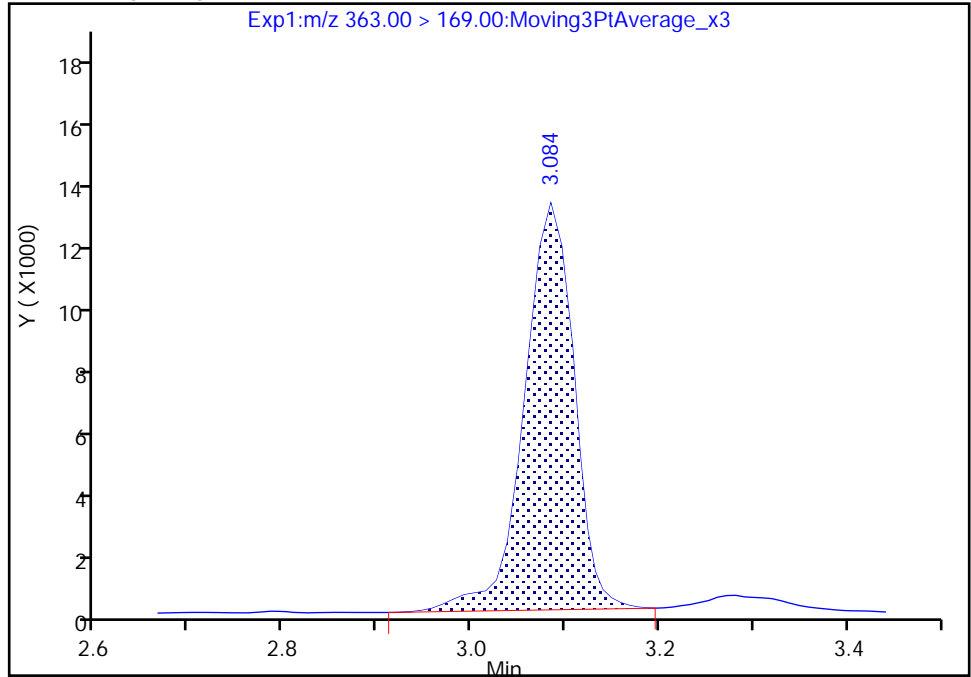
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

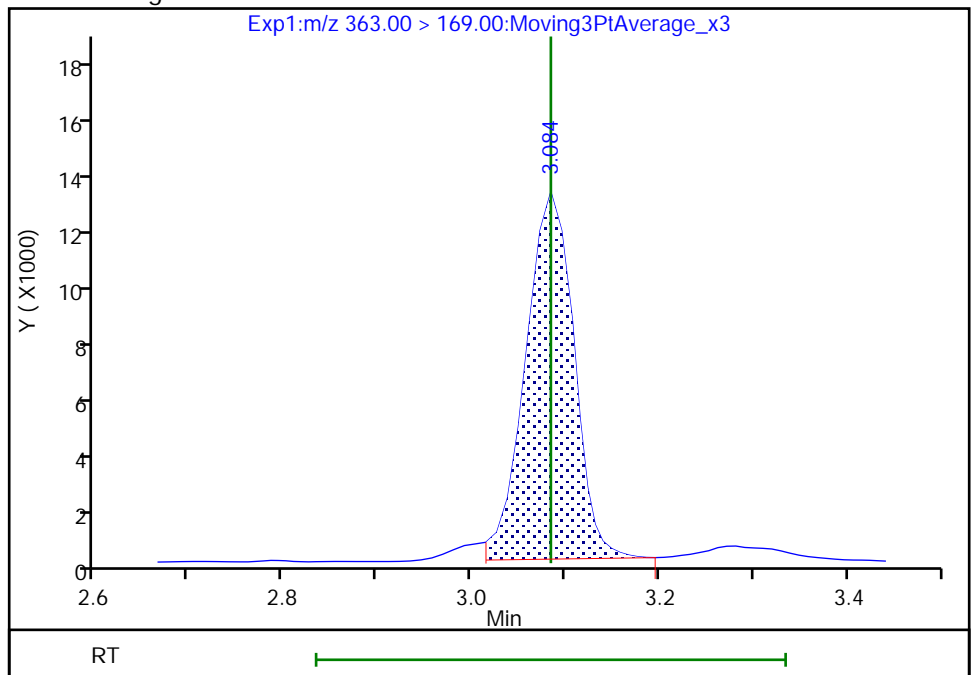
RT: 3.08  
Area: 48316  
Amount: 0.410468  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 46784  
Amount: 0.400478  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:31:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

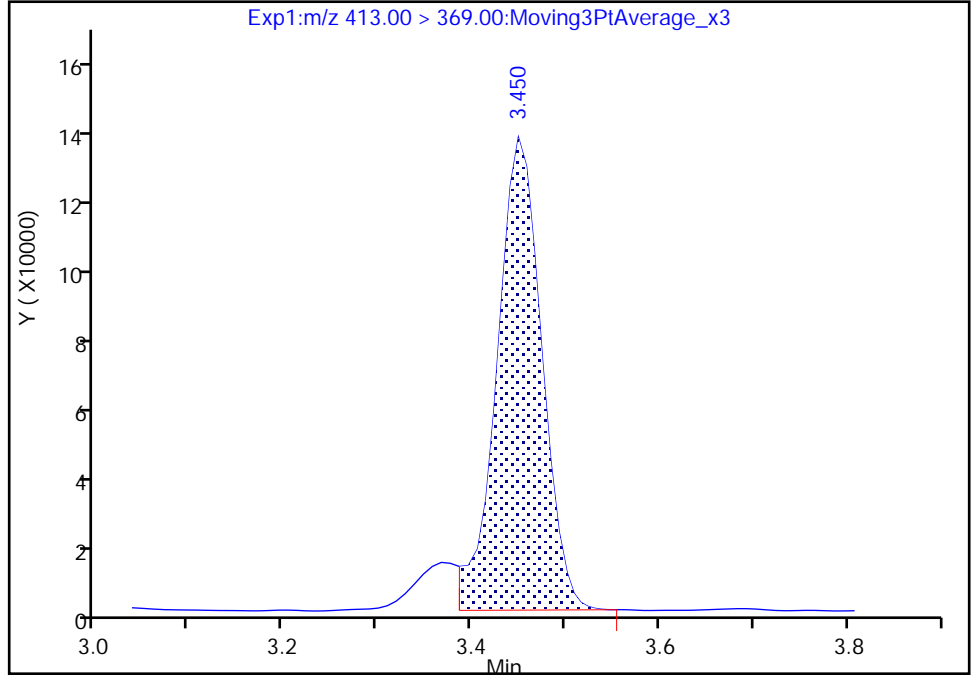
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

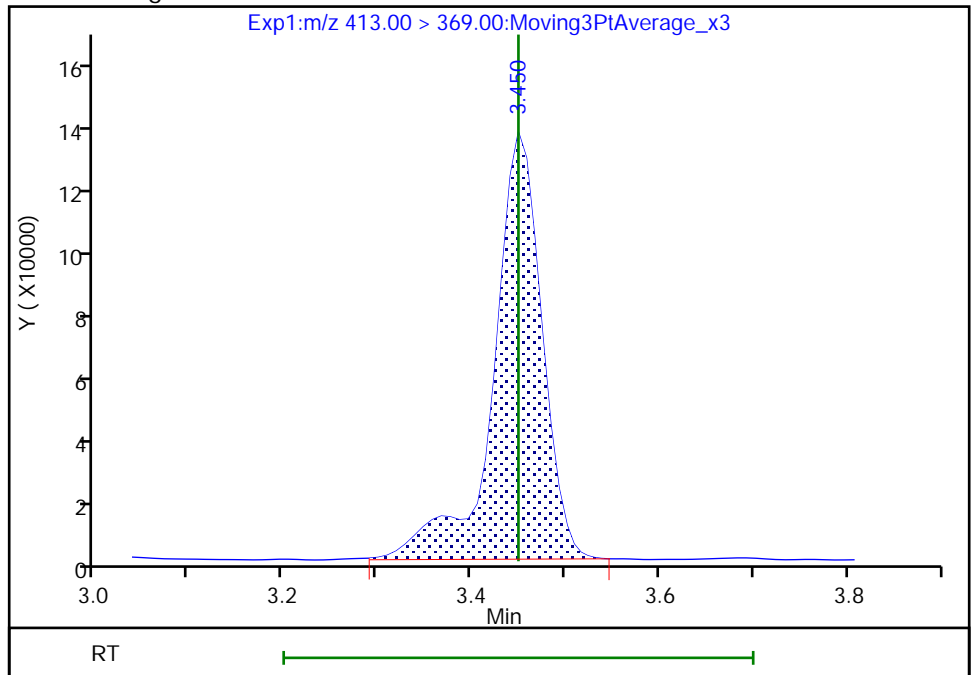
RT: 3.45  
Area: 434662  
Amount: 1.085626  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 476049  
Amount: 1.188995  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:32:44  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

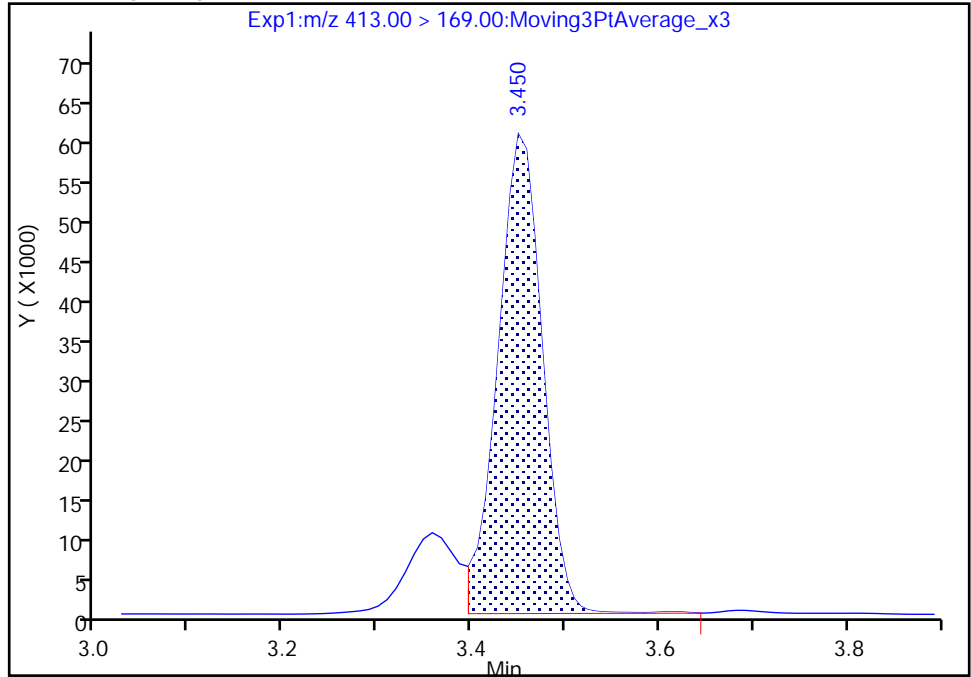
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

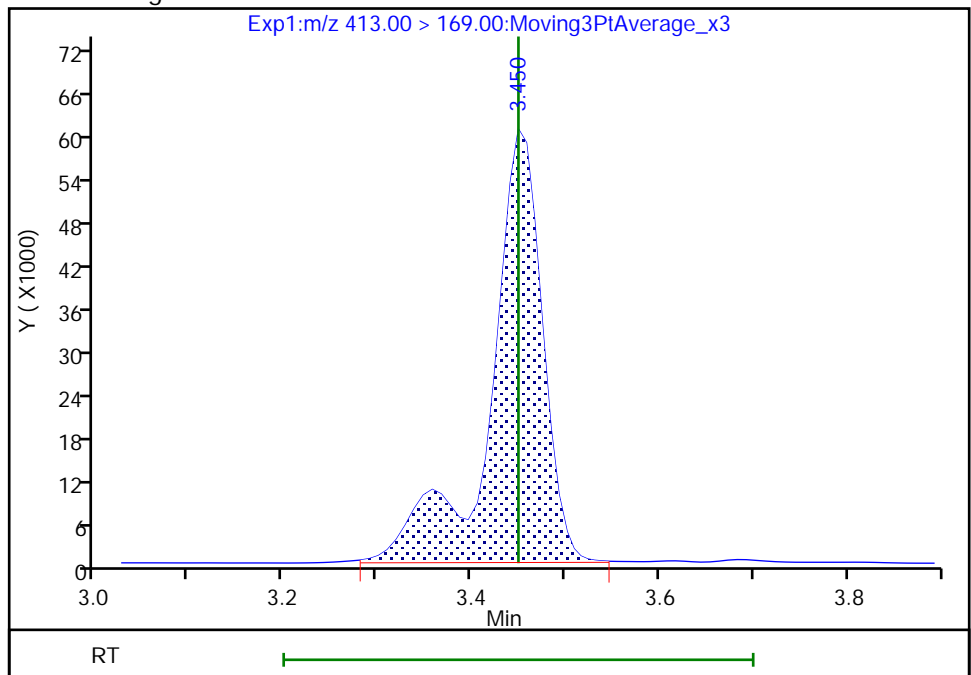
RT: 3.45  
Area: 197977  
Amount: 1.085626  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 235339  
Amount: 1.188995  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:32:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

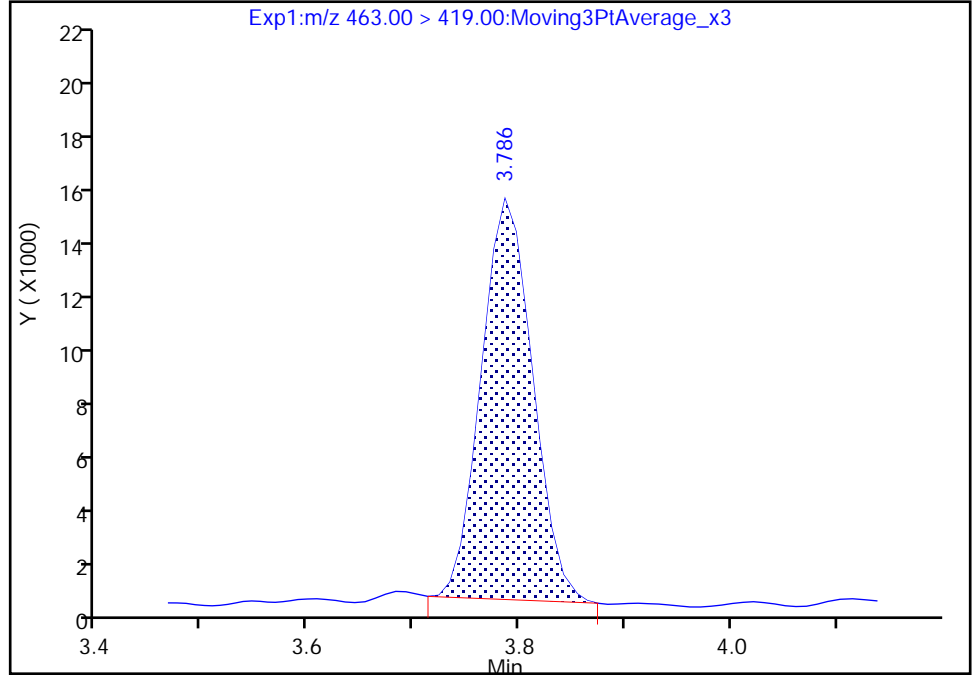
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

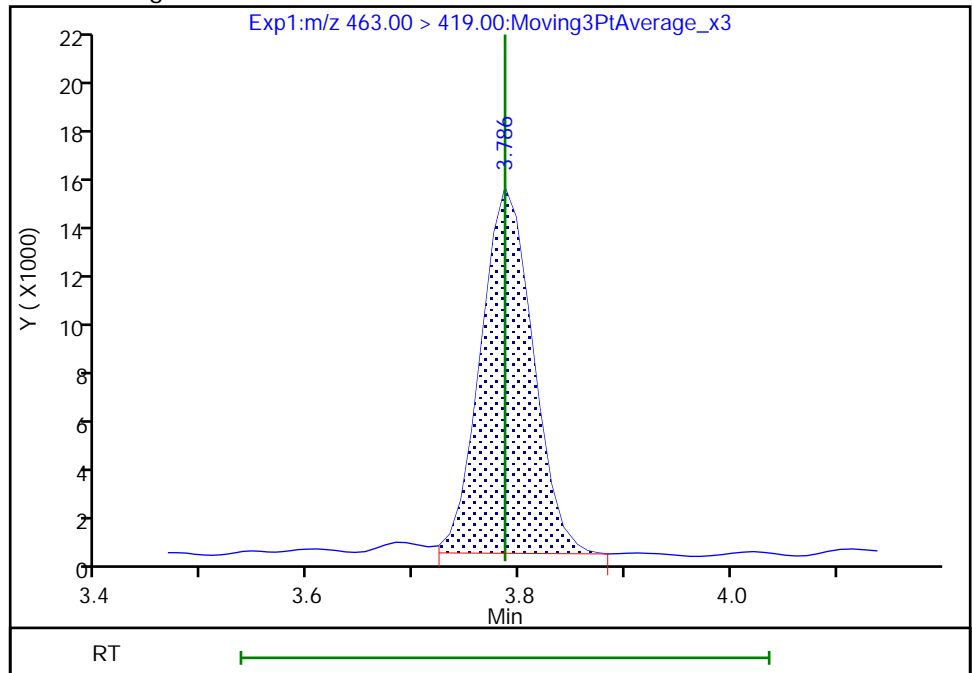
RT: 3.79  
Area: 48702  
Amount: 0.168790  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 49887  
Amount: 0.172897  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:33:52  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

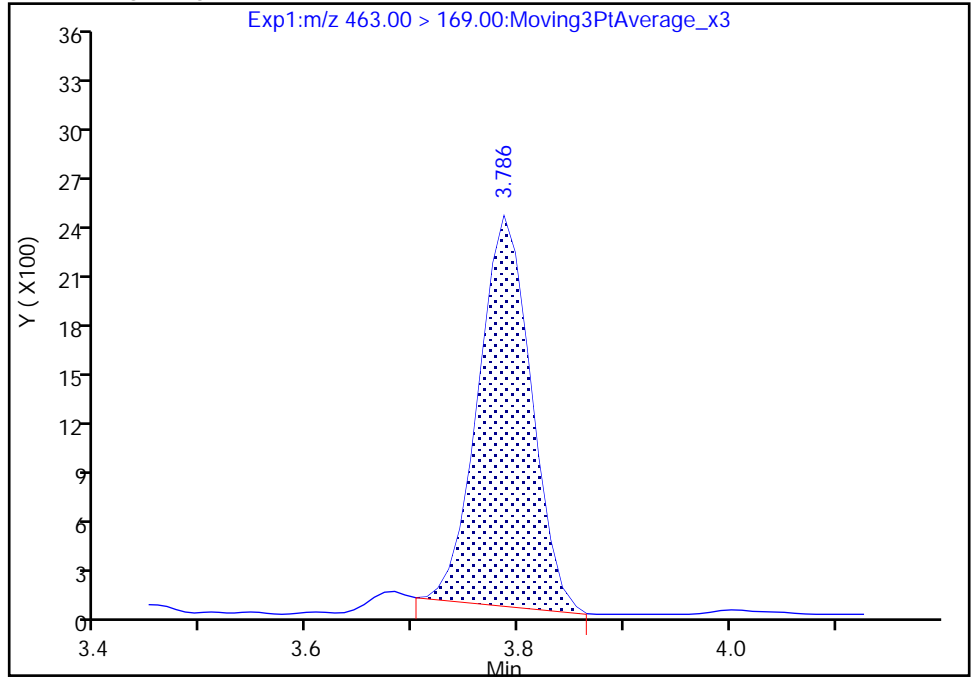
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

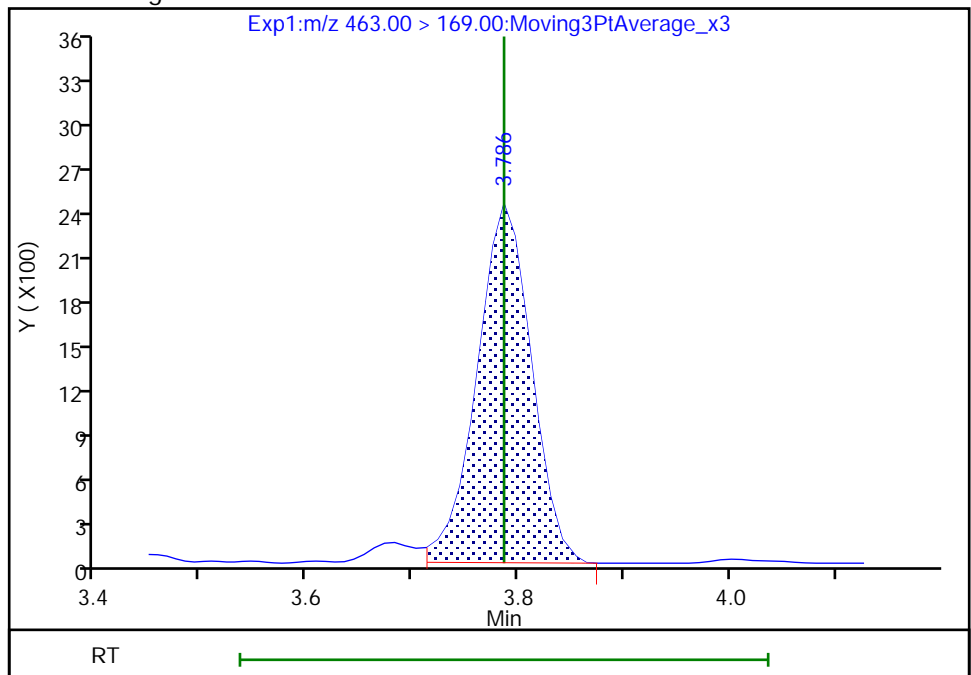
RT: 3.79  
Area: 8264  
Amount: 0.168790  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 8660  
Amount: 0.172897  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:33:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

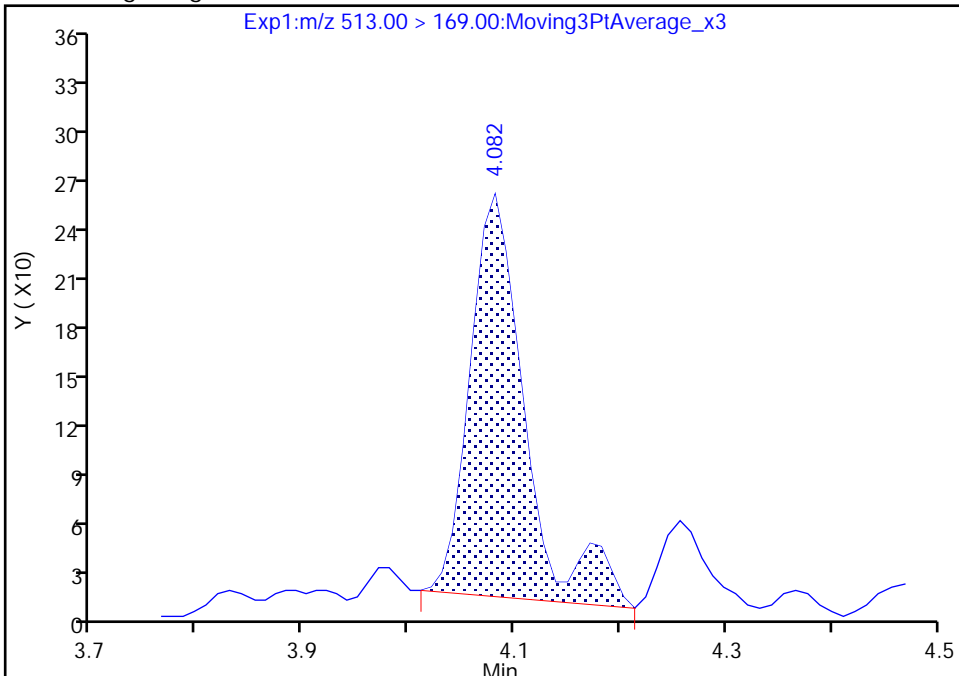
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

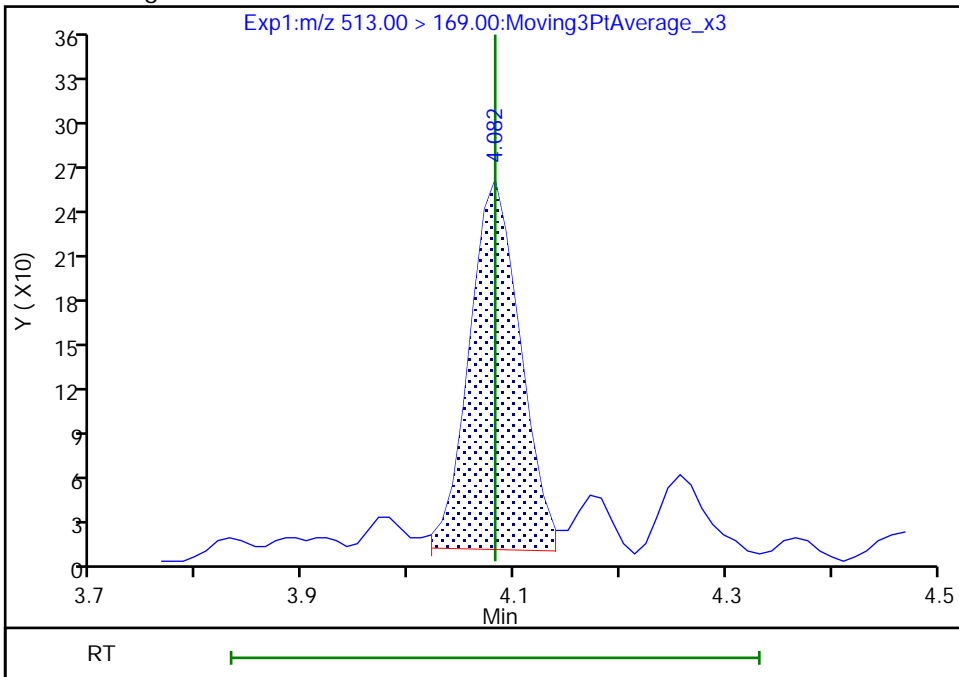
RT: 4.08  
Area: 897  
Amount: 0.019413  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 833  
Amount: 0.021751  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:34:11  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

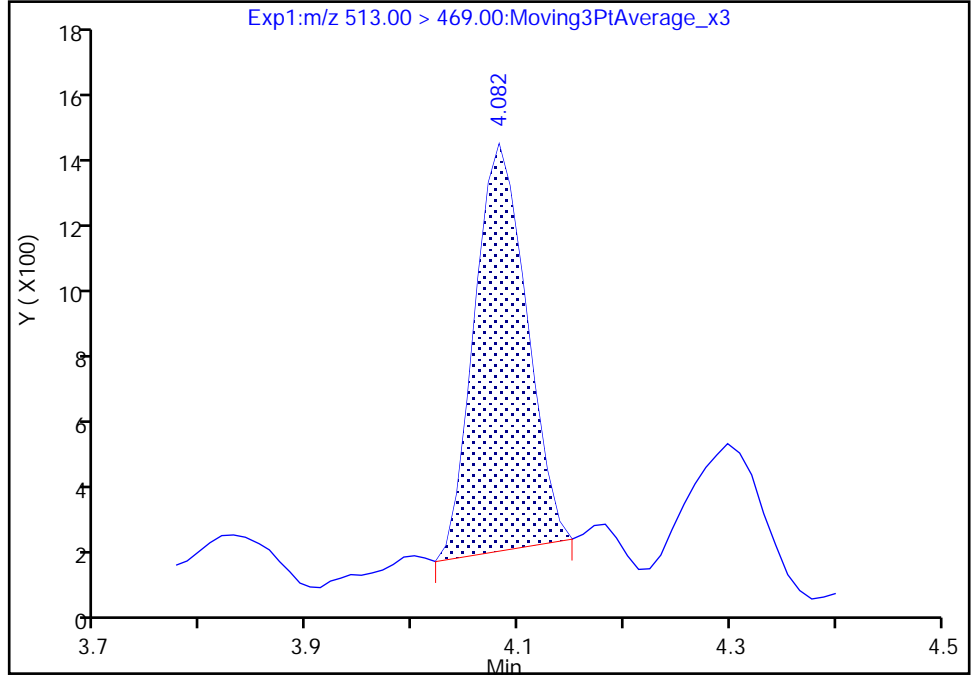
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

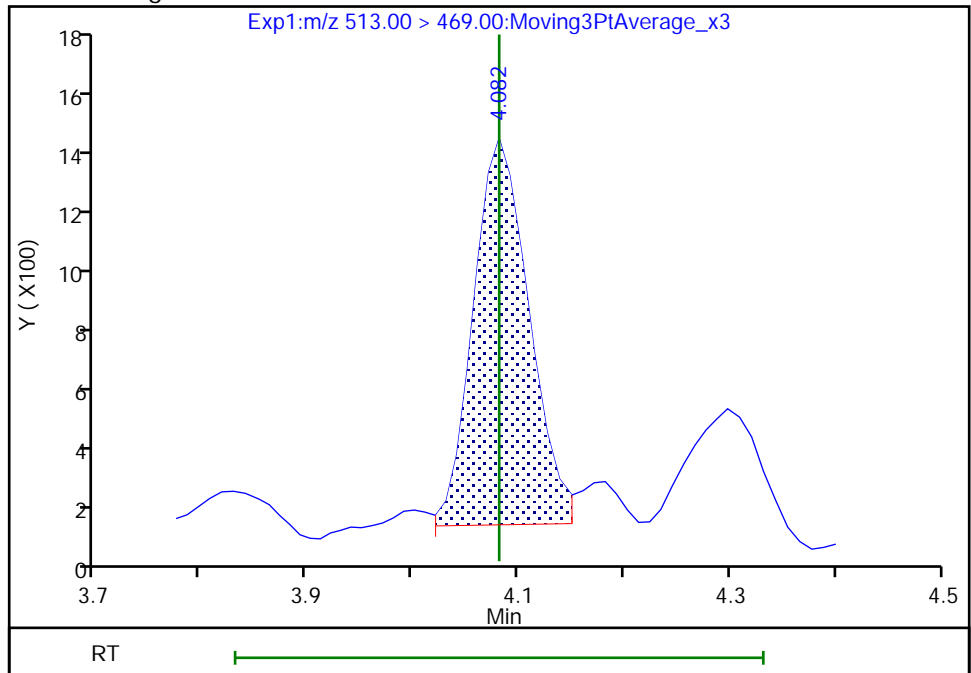
RT: 4.08  
Area: 4268  
Amount: 0.019413  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 4782  
Amount: 0.021751  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:34:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

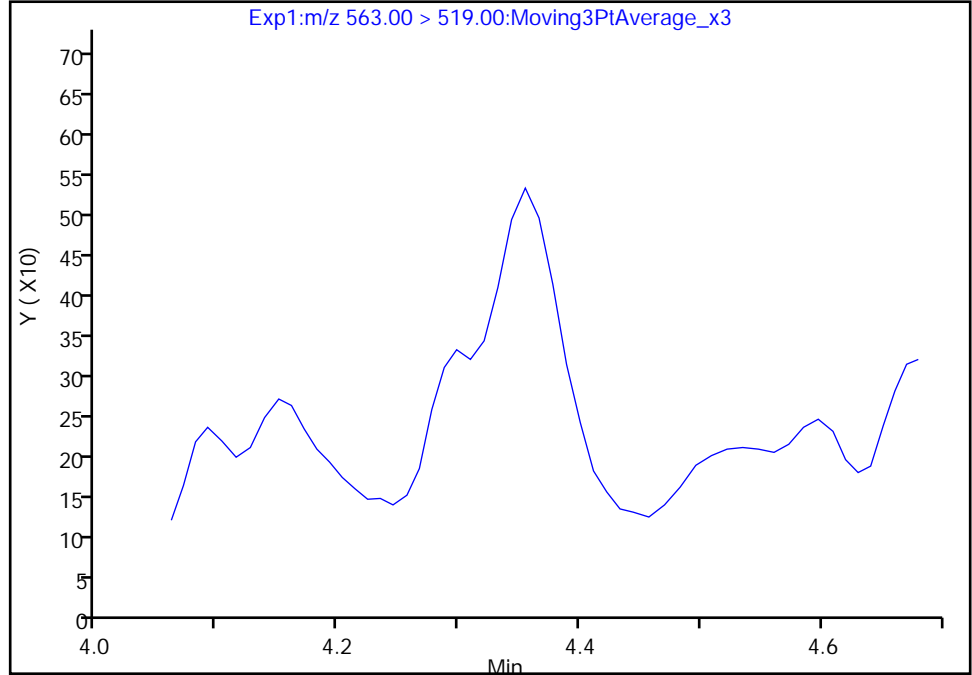
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

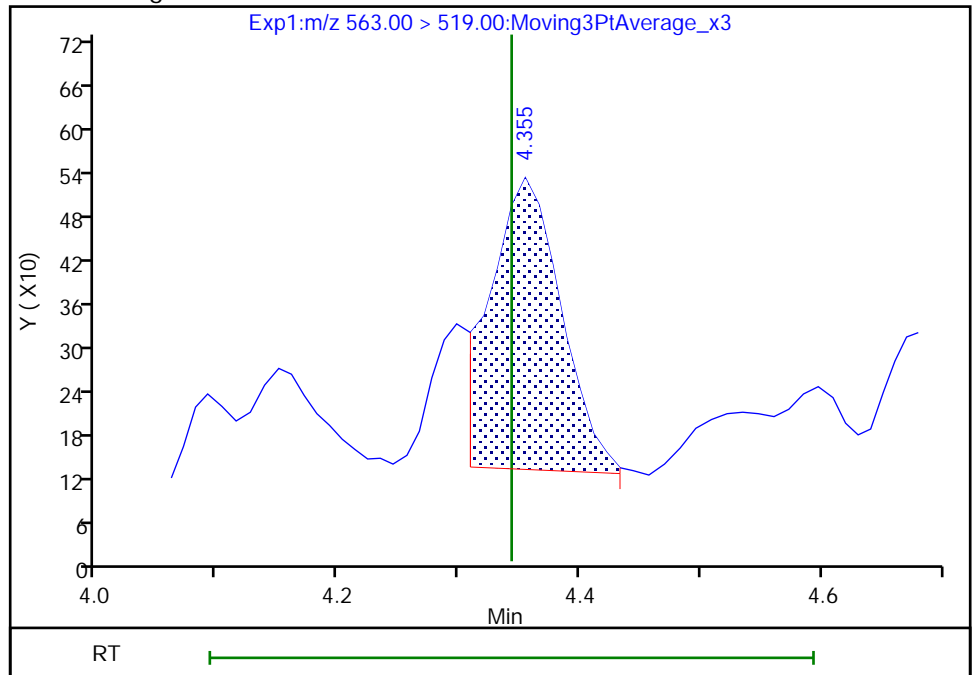
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.35  
Area: 1607  
Amount: 0.010938  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:35:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

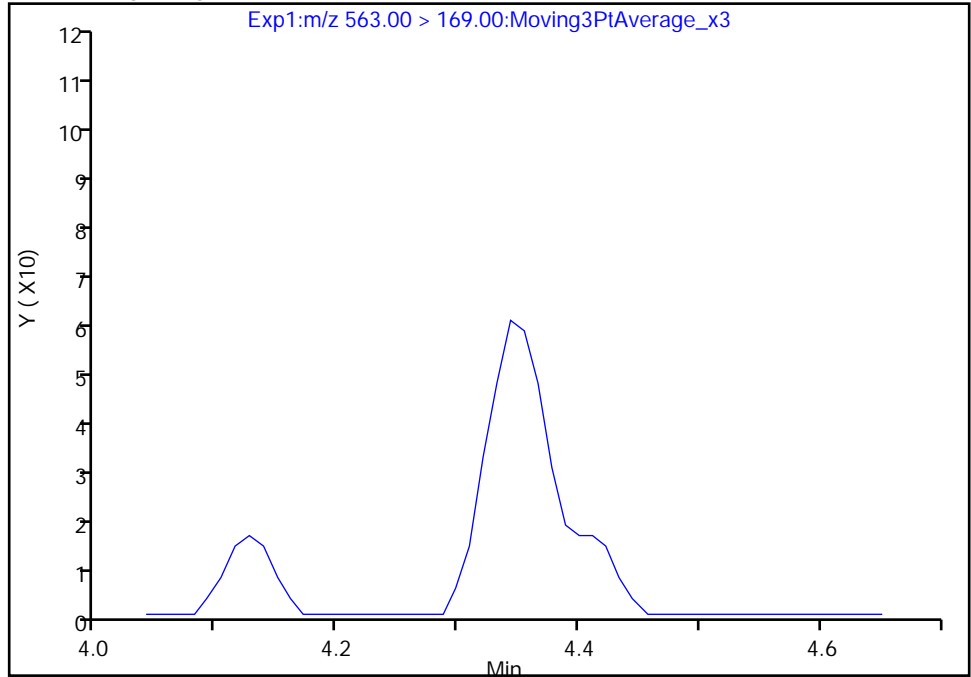
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

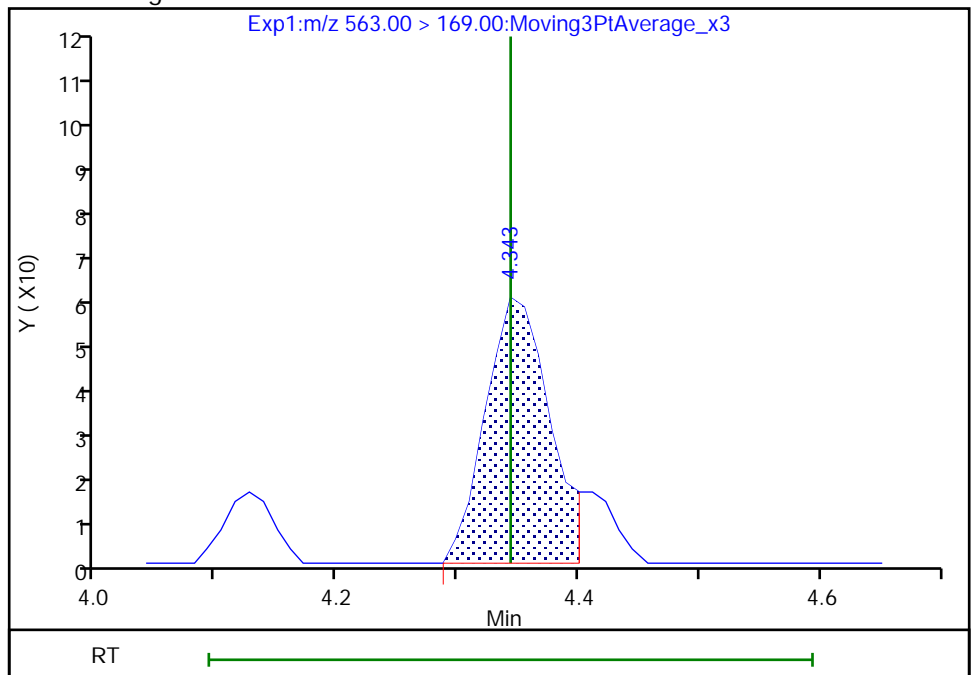
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 203  
Amount: 0.010938  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:35:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

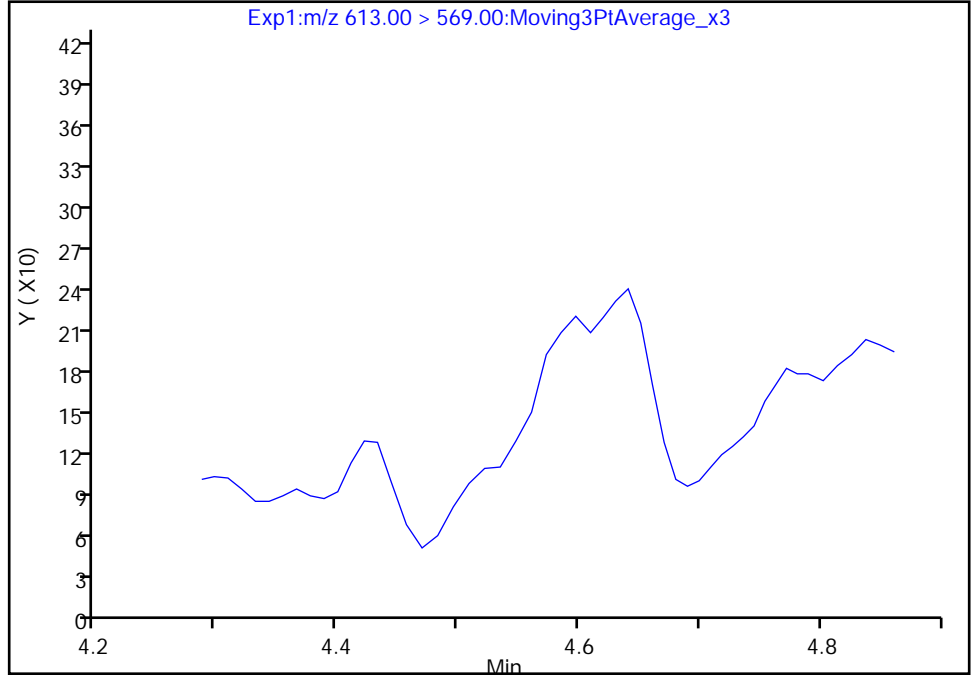
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

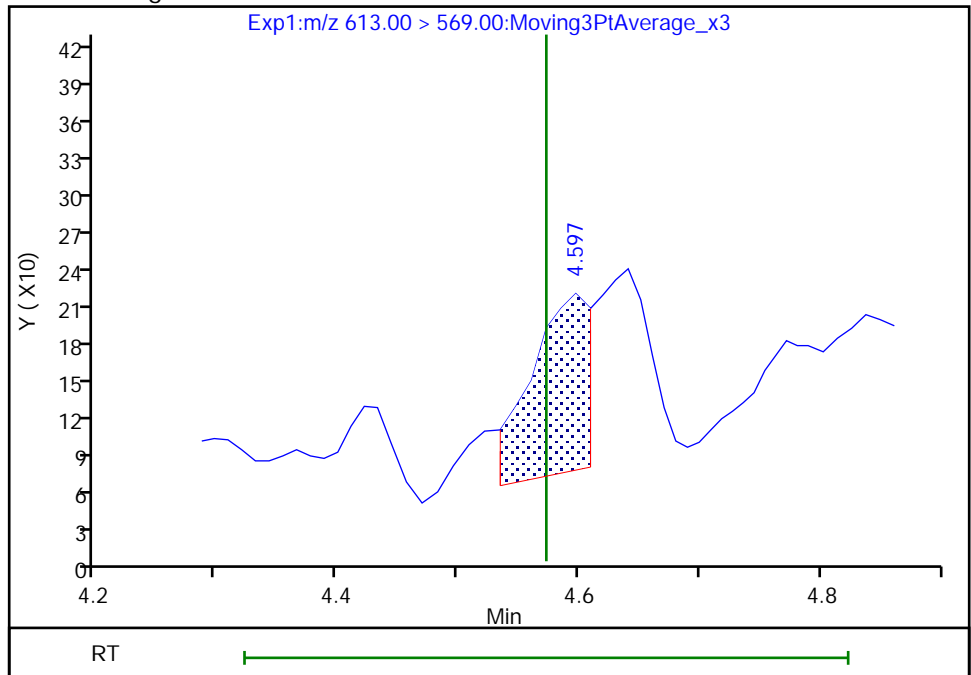
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.60  
Area: 458  
Amount: 0.002713  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:35:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

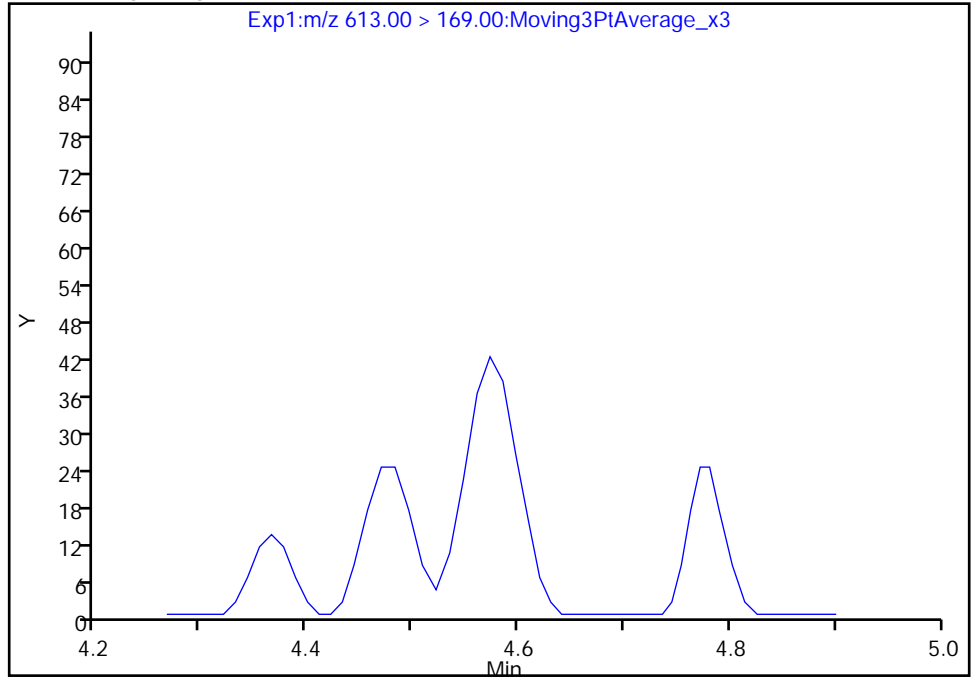
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

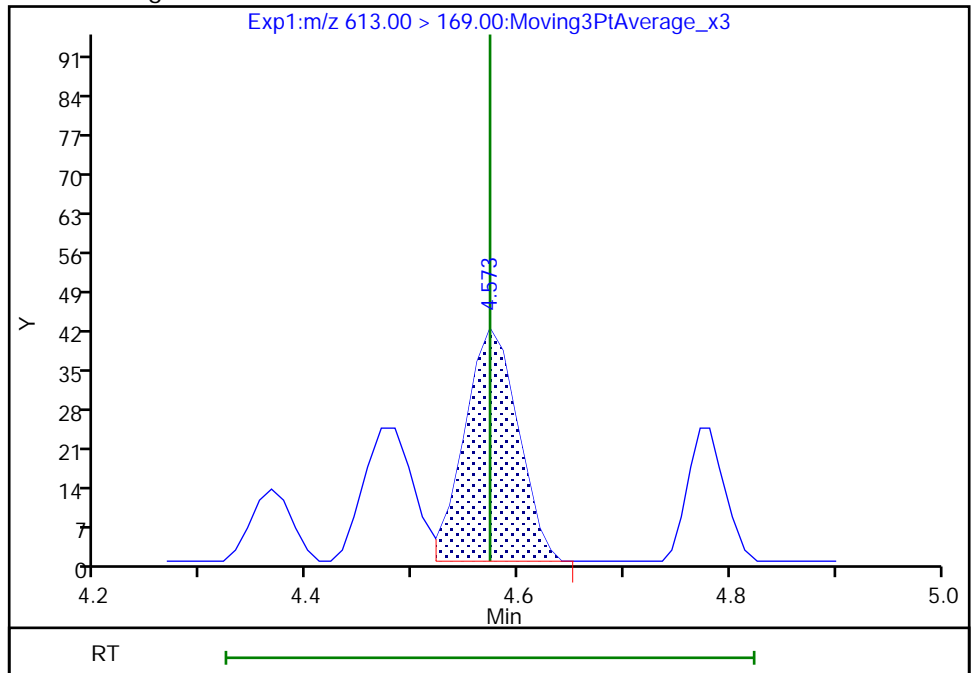
Not Detected  
Expected RT: 4.57

Processing Integration Results



RT: 4.57  
Area: 146  
Amount: 0.002713  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:36:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

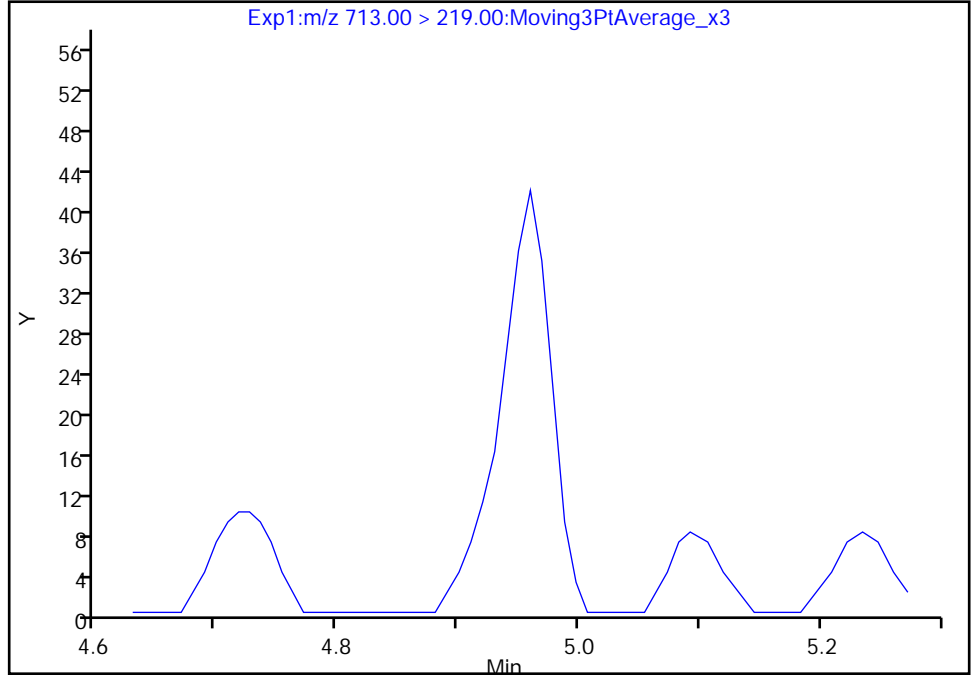
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

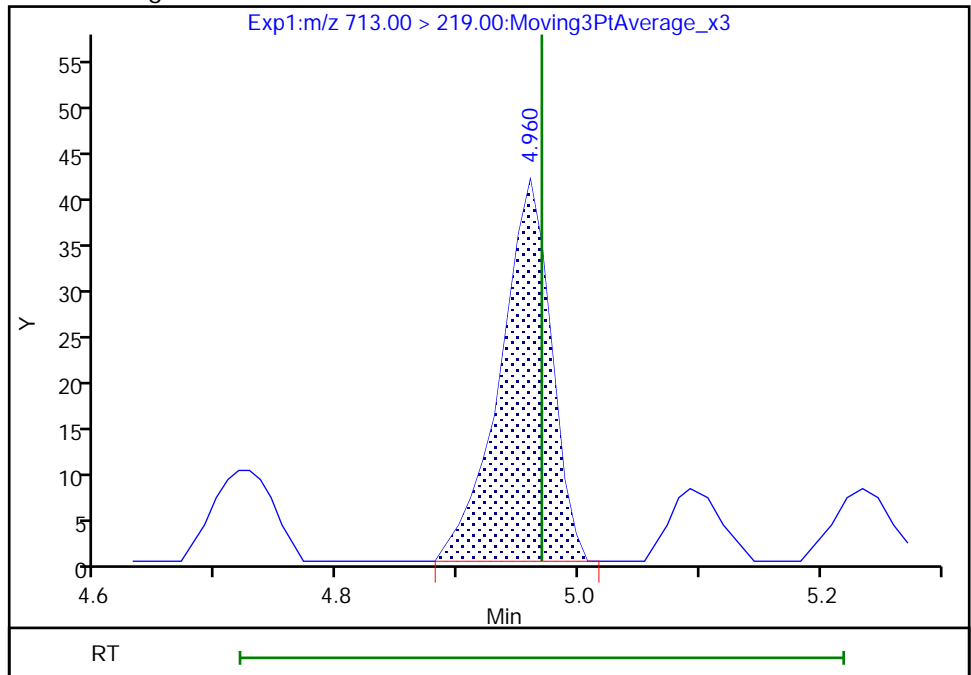
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.96  
Area: 123  
Amount: 0.003687  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:36:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

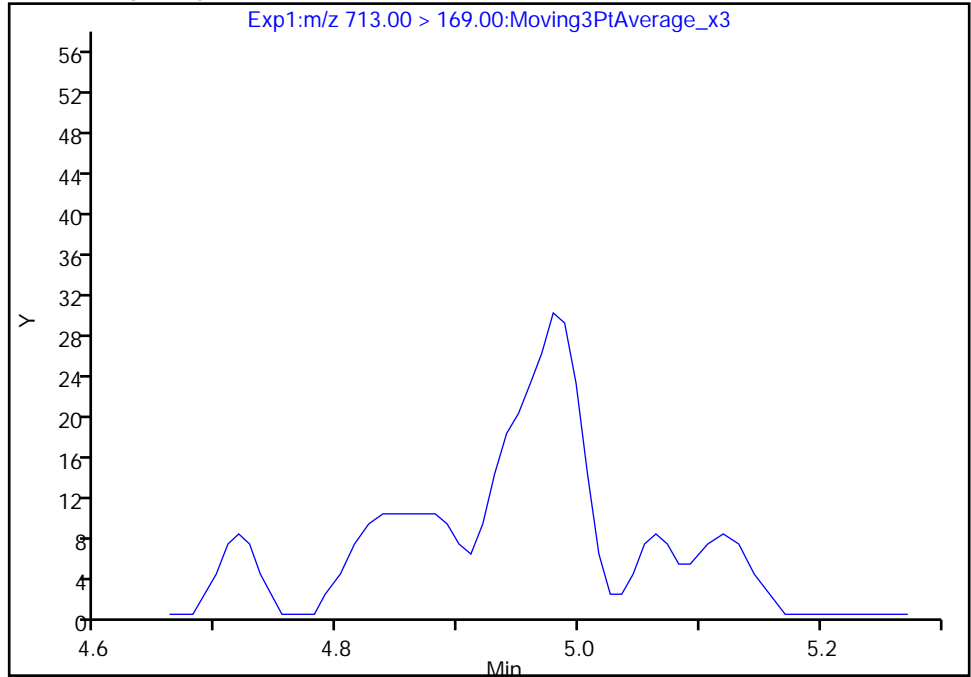
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

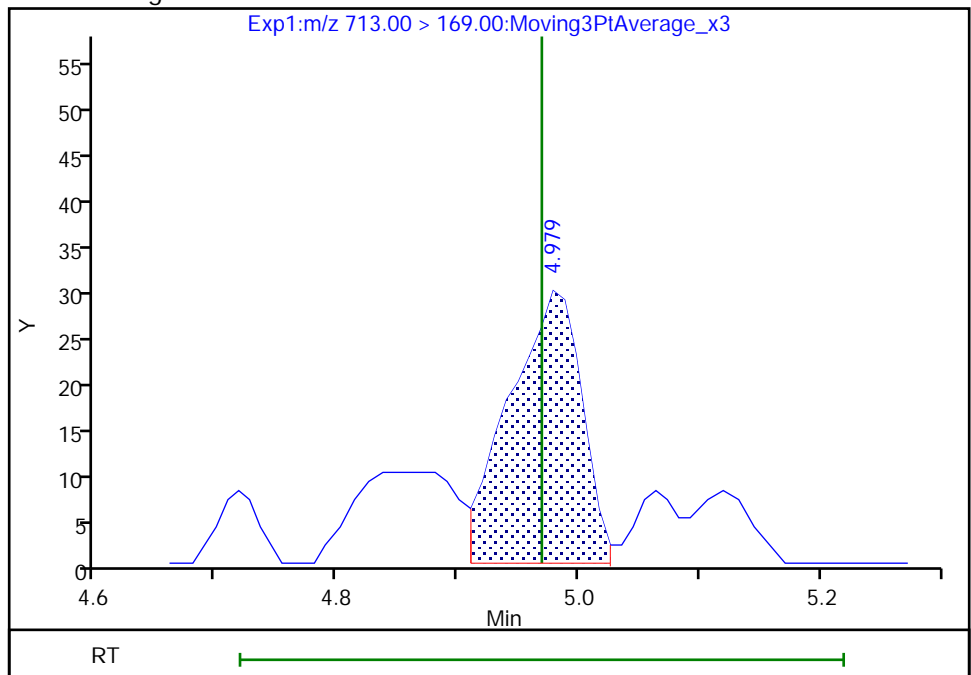
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 124  
Amount: 0.003687  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:36:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

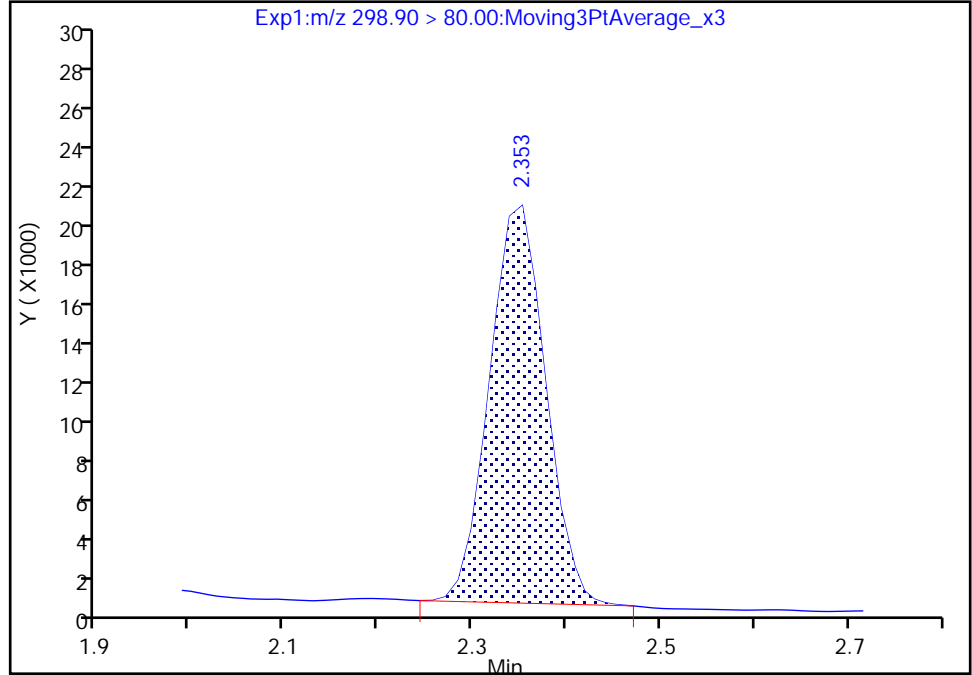
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

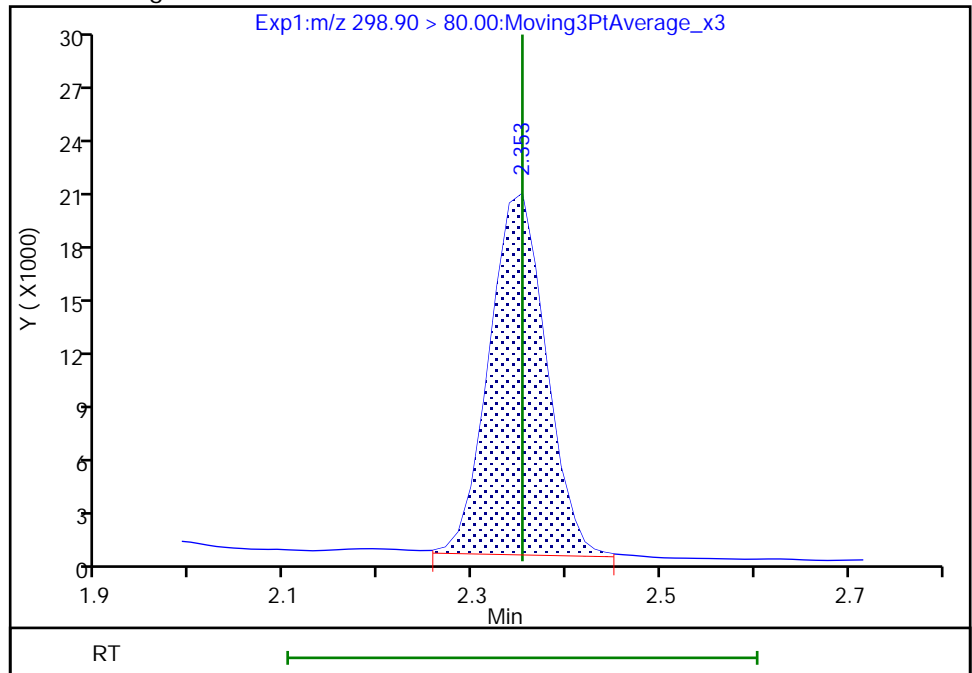
RT: 2.35  
Area: 82855  
Amount: 0.165989  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 84122  
Amount: 0.168527  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:30:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

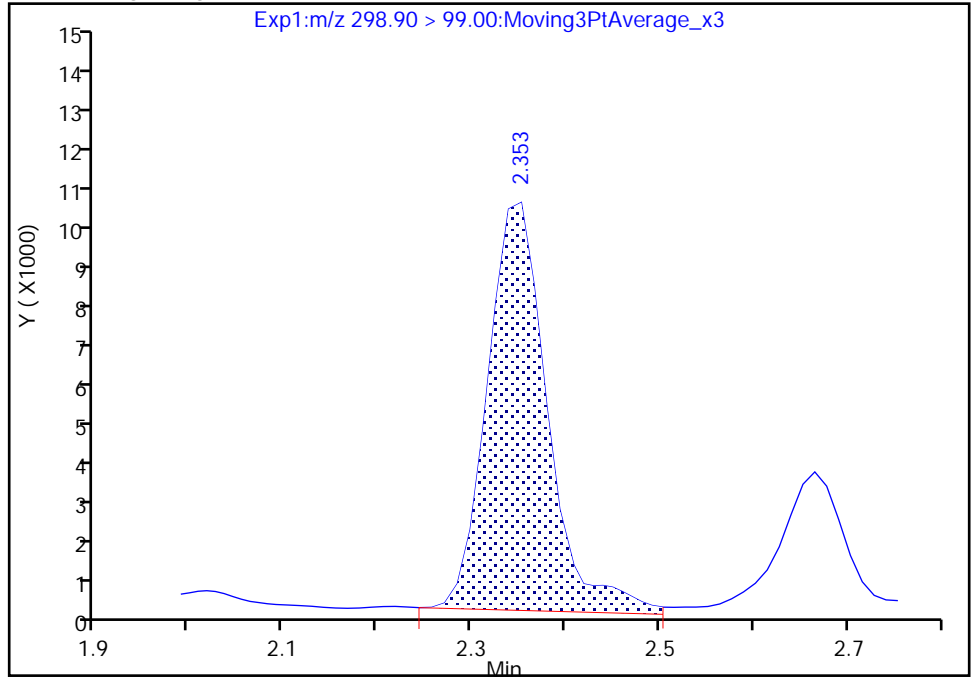
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

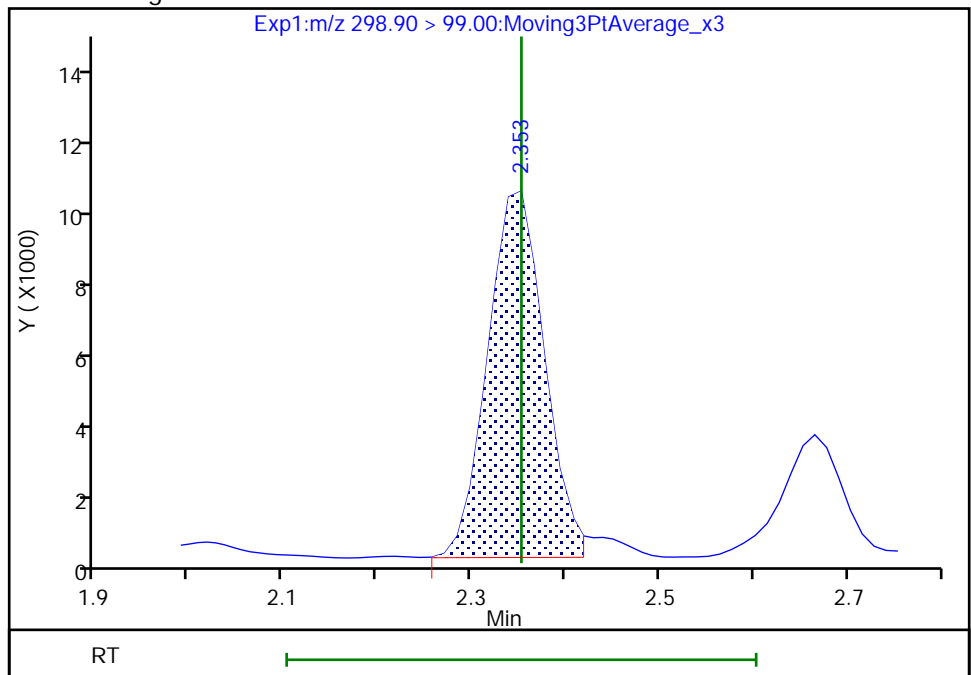
RT: 2.35  
Area: 44941  
Amount: 0.165989  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 41959  
Amount: 0.168527  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:30:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

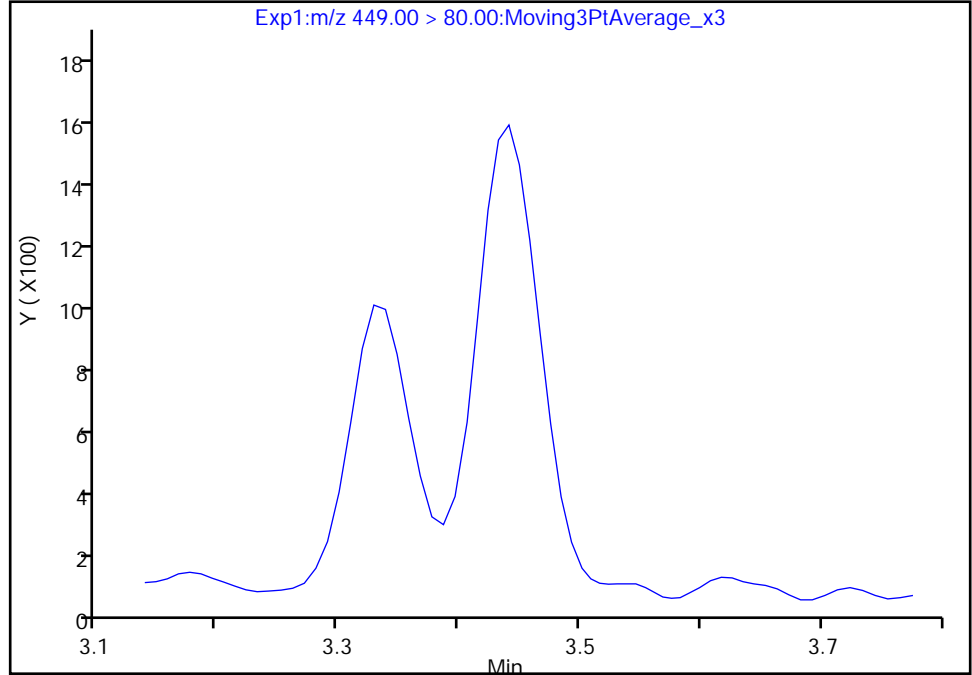
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

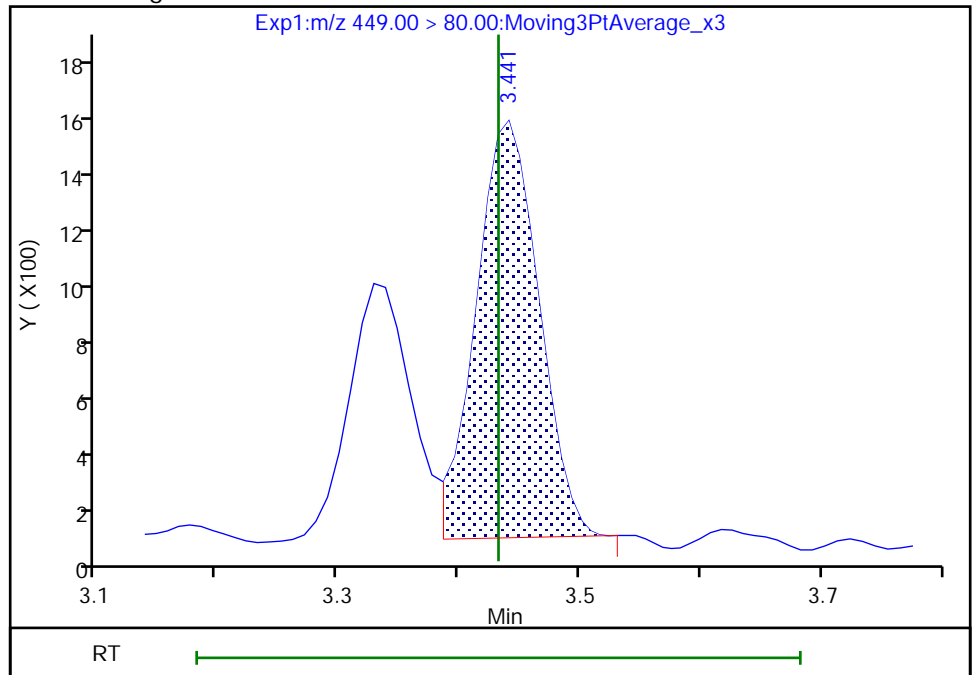
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 5305  
Amount: 0.021549  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:31:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

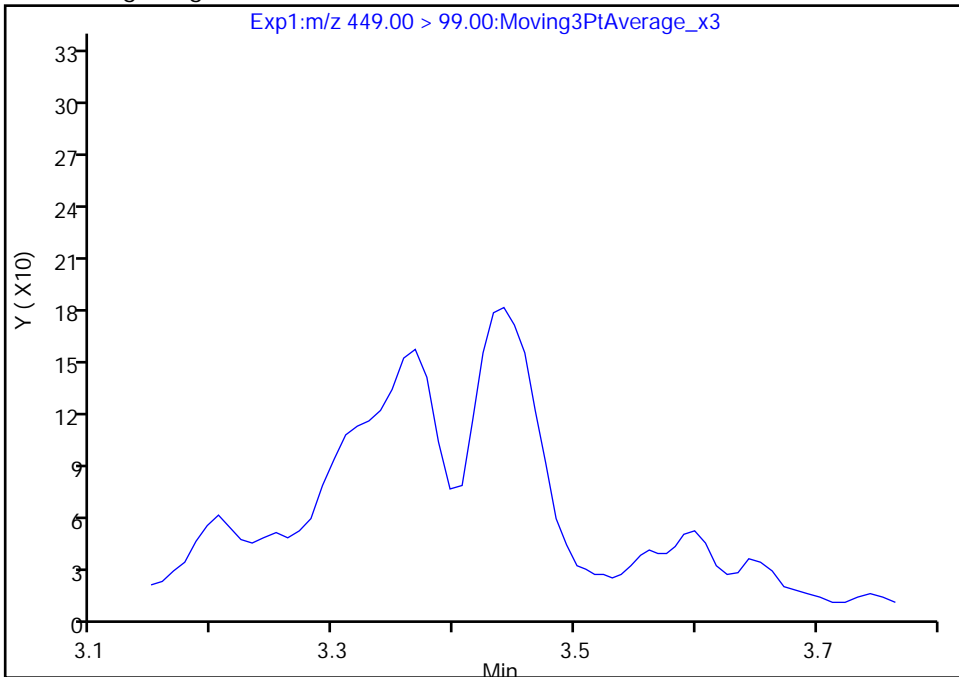
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

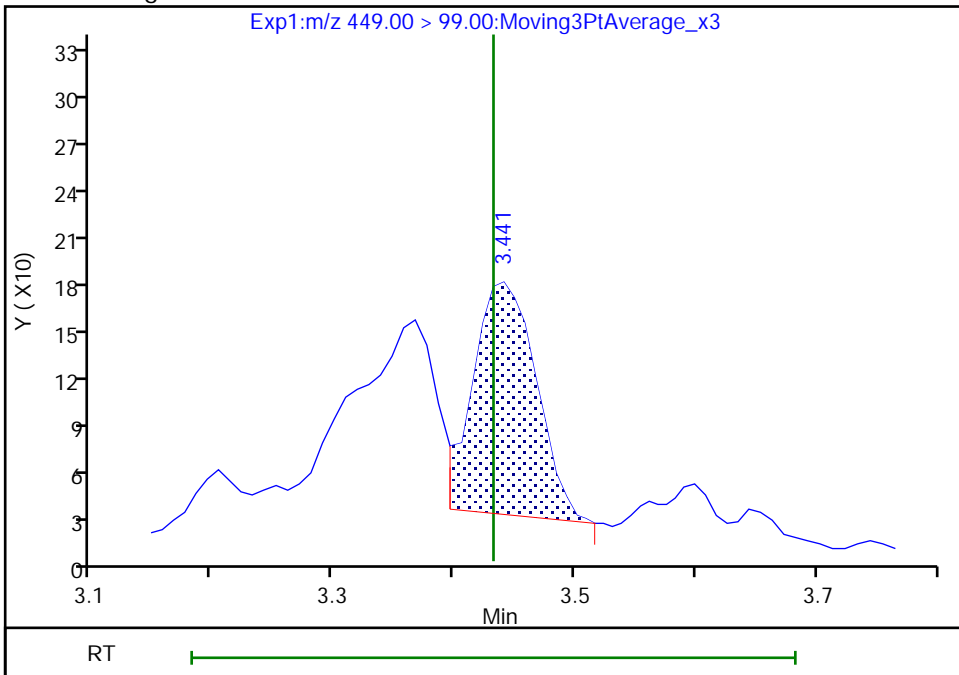
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 530  
Amount: 0.021549  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

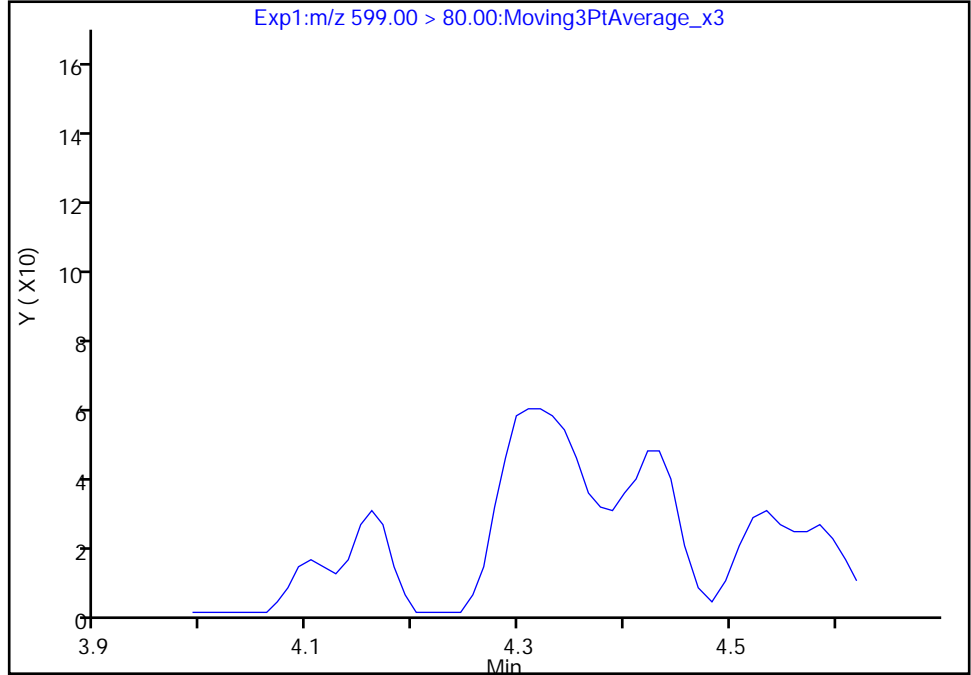
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

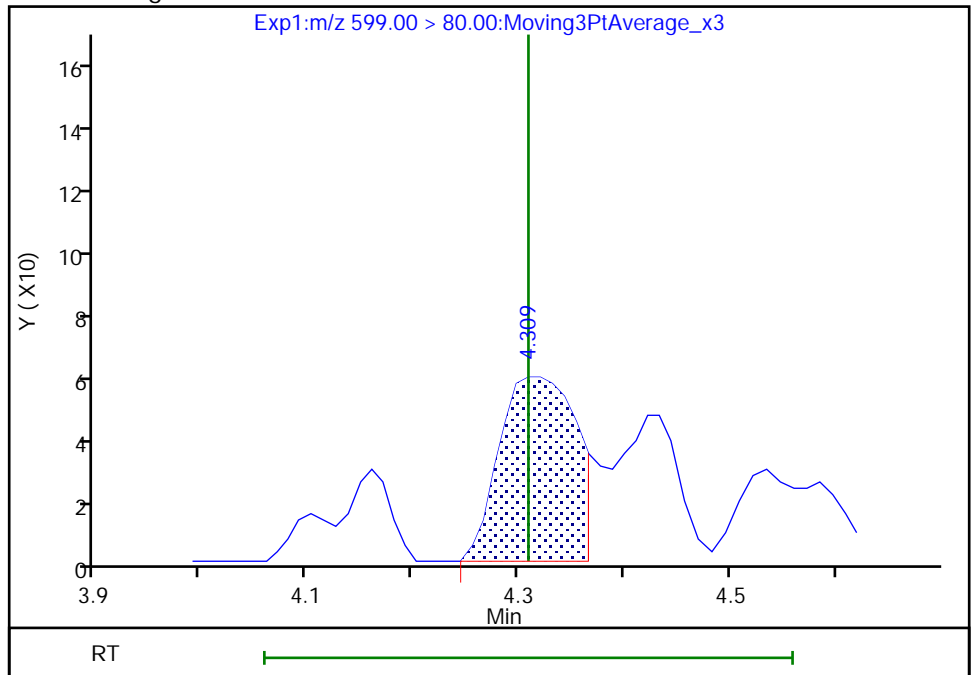
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 287  
Amount: 0.001880  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:35:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

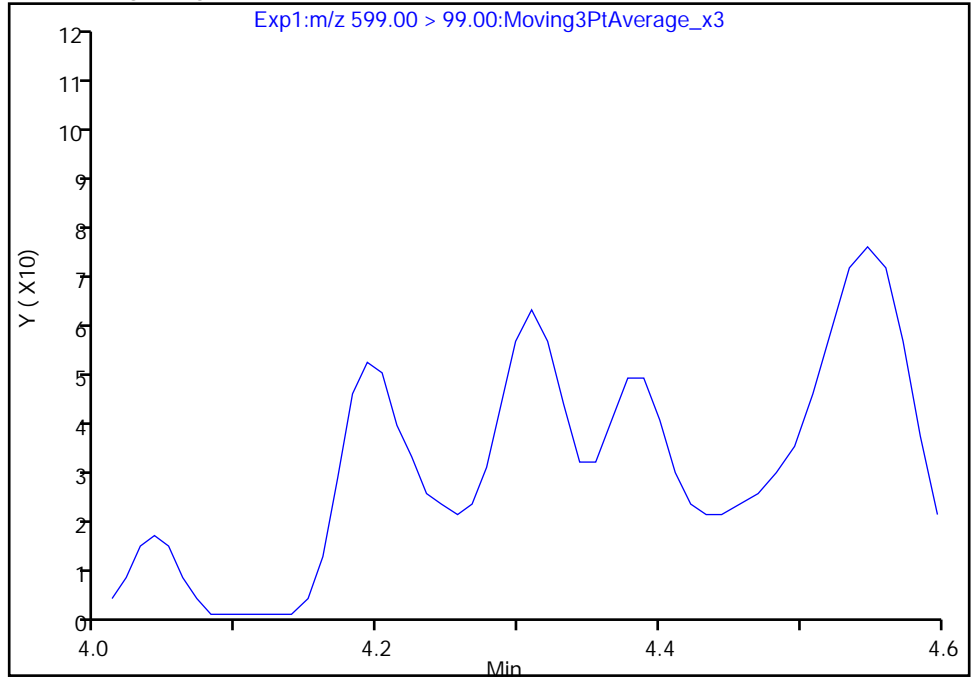
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

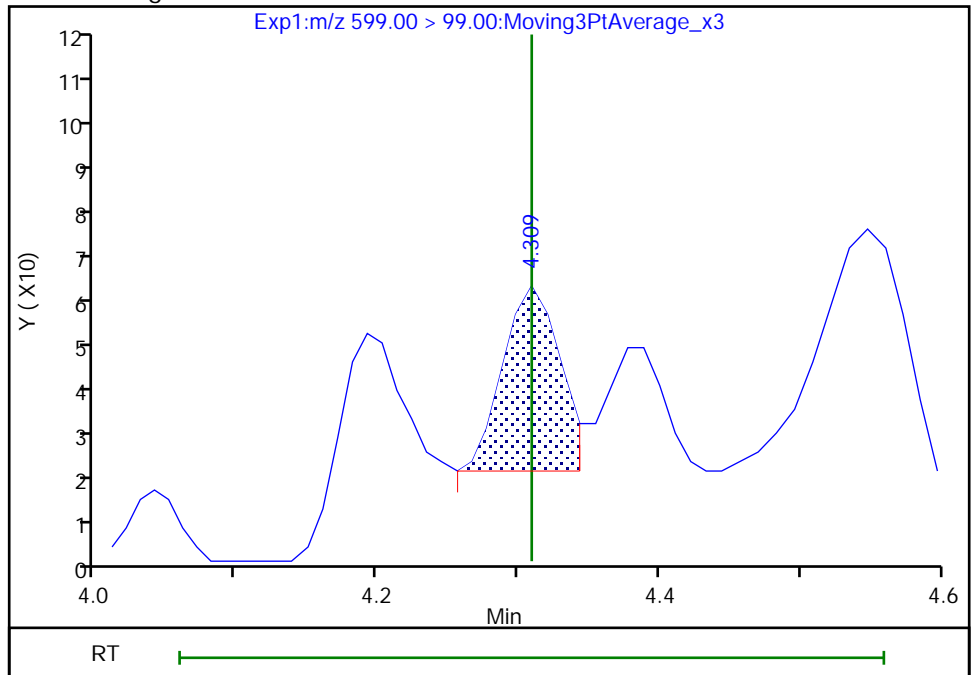
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 108  
Amount: 0.001880  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

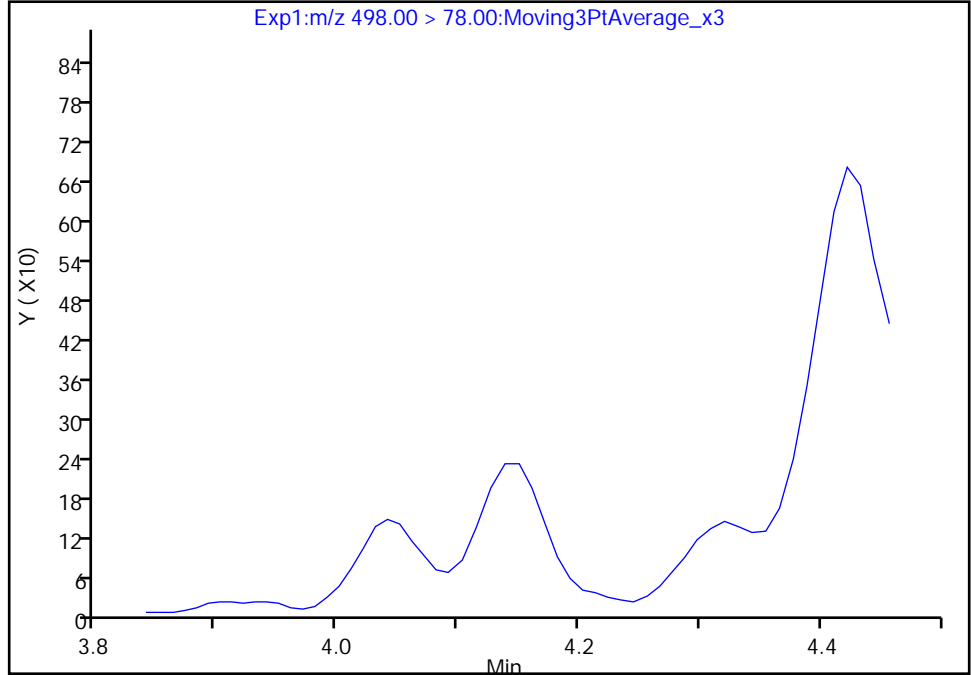
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

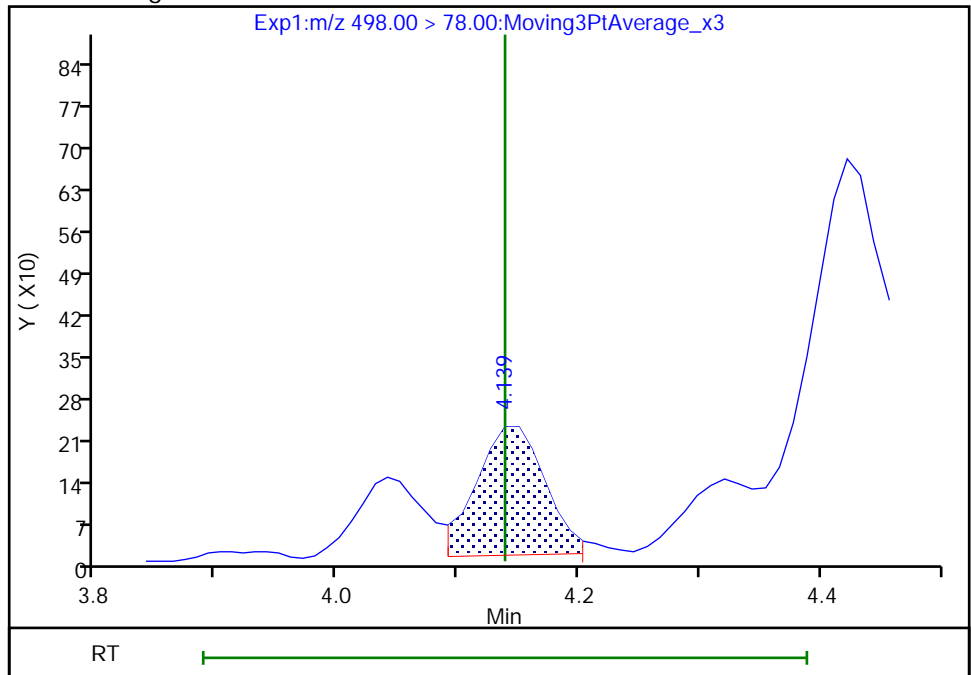
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14  
Area: 848  
Amount: 0.002729  
Amount Units: ng/ml



Reviewer: deannd, 01-Oct-2020 14:16:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

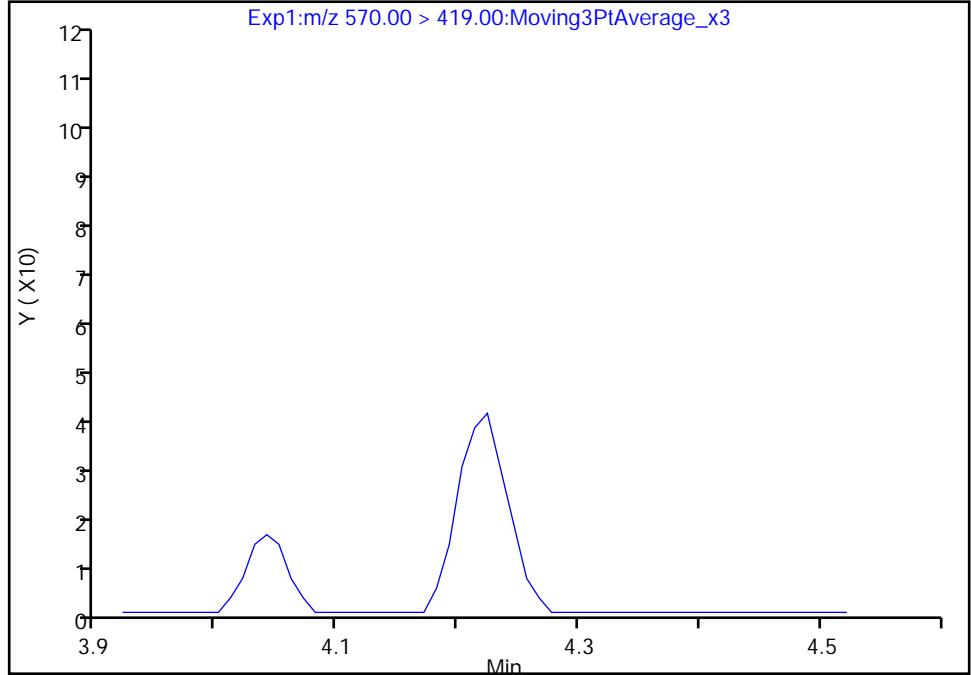
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

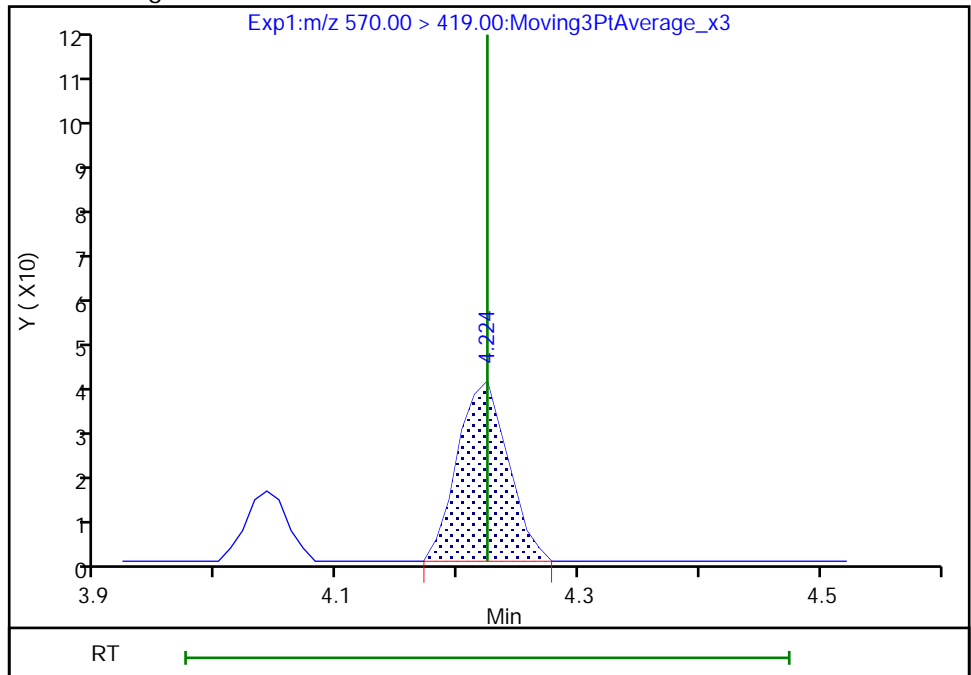
Not Detected  
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22  
Area: 118  
Amount: 0.011275  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:36:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

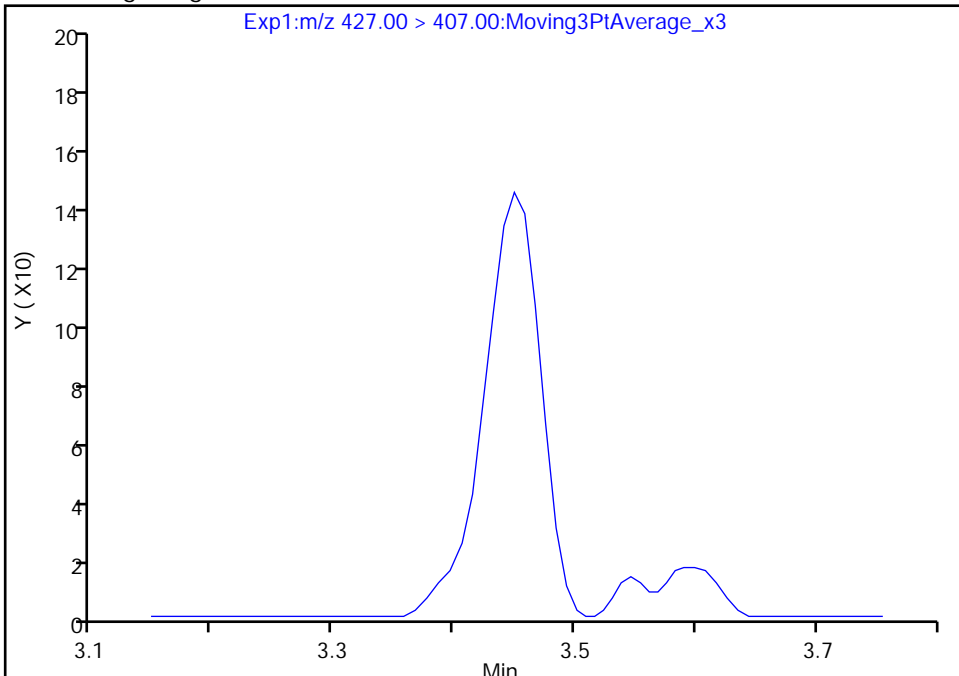
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B17.d  
Injection Date: 30-Sep-2020 20:27:02 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 17 Worklist Smp#: 17  
Injection Vol: 20.0 ul Dil. 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

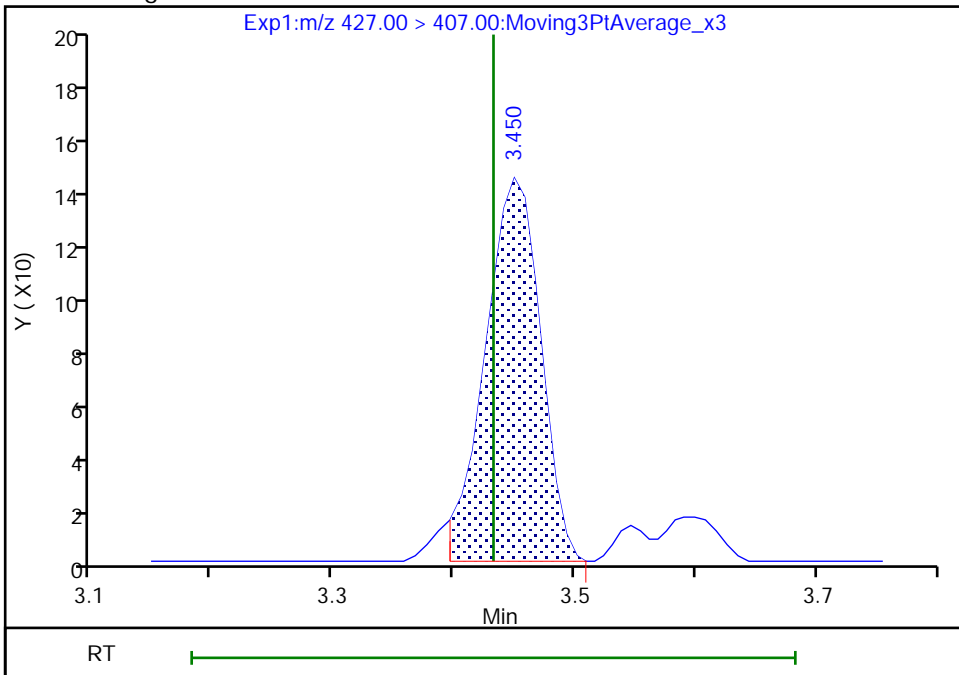
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.45  
Area: 440  
Amount: 0.010835  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:32:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-1B Lab Sample ID: 480-175657-1  
 Matrix: Water Lab File ID: PA201001A38.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 15:00  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 294.2 (mL) Date Analyzed: 10/01/2020 23:10  
 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.: 159470 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	7.8		1.7	0.57
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	13		1.7	0.74

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	75		50-150
STL00991	13C4 PFOS	59		50-150



Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A38.d  
 Lims ID: 480-175657-C-1-A  
 Client ID: MW-1B  
 Sample Type: Client  
 Inject. Date: 01-Oct-2020 23:10:15 ALS Bottle#: 35 Worklist Smp#: 38  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-1-A  
 Misc. Info.: 200-0043055-038 Plate: 1 Rack: 1  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 02-Oct-2020 15:16:34 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: CTX1005

First Level Reviewer: manopan Date: 02-Oct-2020 14:12:20  
 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	1.990	-0.009	0.573	773417	0.9273	74.2	9292	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	2.000	-0.010	1.005	168845	0.2919		40.2		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.673	590313	0.9875	79.0	2041	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	291066	0.5836		12.1		M
D 47 13C3 PFBS	301.90 > 80.00	2.340	2.353	-0.013	0.676	633165	0.8698	74.8	46045	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.353	0.0	1.006	95044	0.1751	Target=2.07	22.0		M
298.90 > 99.00	2.353	2.353	0.0	1.006	48460		1.96(1.04-3.11)	13.9		M
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.782	601029	0.9764	78.1	2920	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	296017	0.6114	Target=12.44	49.6		M
313.00 > 119.00	2.703	2.703	0.0	1.000	23602		12.54(6.22-18.66)	34.1		M
D 11 18O2 PFHxS	403.00 > 84.00	3.084	3.085	0.0	0.892	464293	0.8890	75.2	2831	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.085	0.0	1.000	99421	0.2293	Target=4.60	109		M
399.00 > 99.00	3.084	3.085	0.0	1.000	22728		4.37(2.30-6.91)	45.4		
D 9 13C4 PFHpA	367.00 > 322.00	3.084	3.085	0.0	0.892	537118	0.9593	76.7	3706	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.085	0.0	1.000	164217	0.3814	Target=3.34	49.9		M
363.00 > 169.00	3.084	3.085	0.0	1.000	47344		3.47(1.67-5.01)	77.9		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.441	0.0	0.911	4870	0.0166	Target=7.08	11.8		
449.00 > 99.00	3.433	3.441	-0.008	0.909	1013		4.81(3.54-10.63)	6.8		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.450	3.450	0.0	1.000	179	0.004092		7.3		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.450	0.0	0.997	65095	0.9325		78.5	412	
D 14 13C4 PFOA										
417.00 > 372.00	3.458	3.459	-0.001	1.000	525779	0.9176		73.4	2688	
* 62 13C2 PFOA										
415.00 > 370.00	3.458	3.459	-0.001		727525	1.25			3780	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.458	3.459	-0.001	1.000	527165	1.21	Target=2.29	139		M
413.00 > 169.00	3.458	3.459	-0.001	1.000	252925		2.08(1.14-3.43)	481		M
D 18 13C4 PFOS										
503.00 > 80.00	3.776	3.766	0.010	1.092	303234	0.7098		59.4	1330	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.663	3.776	-0.113	0.970	105175	0.3814	Target=7.10	207		M
499.00 > 99.00	3.776	3.776	0.0	1.000	15885		6.62(3.55-10.64)	28.0		M
D 19 13C5 PFNA										
468.00 > 423.00	3.797	3.786	0.011	1.098	419172	0.8681		69.4	4125	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.797	3.797	0.0	1.000	53415	0.1564	Target=5.83	26.2		M
463.00 > 169.00	3.797	3.797	0.0	1.000	8580		6.23(2.91-8.74)	72.6		M
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.183	291076	0.6286		50.3	3828	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.092	4.092	0.0	1.000	4719	0.0205	Target=6.81	9.4		M
513.00 > 169.00	4.092	4.092	0.0	1.000	563		8.38(3.41-10.22)	6.4		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.103	4.092	0.011	1.186	53288	0.6482		54.1	424	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.151	0.0	1.200	431335	0.5781		46.2	2887	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.151	4.151	0.0	1.000	651	0.002018		2.1		M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.235	4.235	0.0	1.224	14914	0.5657		45.3	395	M
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.235	4.235	0.0	1.000	80	0.007105		1.2		M
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.321	4.321	0.0	1.144	192	0.001053	Target=3.31	1.9		RM
599.00 > 99.00	4.309	4.321	-0.012	1.141	398		0.48(1.66-4.97)	3.1		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.259	220798	0.6316		50.5	2981	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.355	0.0	1.000	1115	0.006400	Target=6.57	2.0		M
563.00 > 169.00	4.355	4.355	0.0	1.000	193		5.78(3.28-9.85)	4.6		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.262	18426	0.6502		52.0	415	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.161	4.366	-0.205	0.953	117	0.008670		1.9		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.585	4.585	0.0	1.326	253413	0.6859		54.9	3464	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.610	4.585	0.025	1.005	779	0.003940	Target=5.16	1.5		RM
613.00 > 169.00	4.561	4.585	-0.024	0.995	35		22.26(2.58-7.75)	1.2		M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.814	4.790	0.024	1.050	277	0.001650	Target=3.30	0.6		M
663.00 > 169.00	4.781	4.790	-0.009	1.043	90		3.08(1.65-4.95)	4.0		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.988	0.0	1.442	182787	0.6946		55.6	2717	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.969	4.988	-0.019	0.996	72	0.002150	Target=1.06	2.6		RM
713.00 > 219.00	4.988	4.988	0.0	1.000	153		0.47(0.53-1.59)	10.4		M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20201001-43055.b\PA201001A38.d

Injection Date: 01-Oct-2020 23:10:15

Instrument ID: LC812

Lims ID: 480-175657-C-1-A

Lab Sample ID: 200-175657-1

Client ID: MW-1B

Operator ID: lc812tech

ALS Bottle#: 35

Worklist Smp#: 38

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

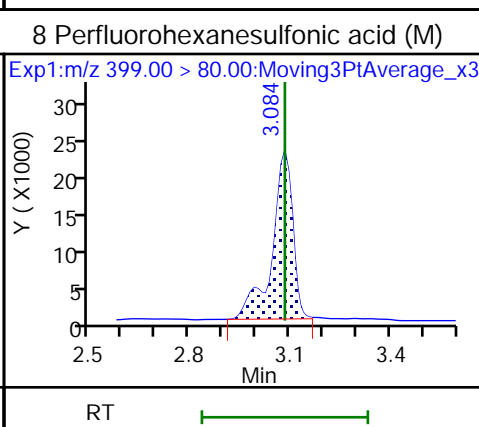
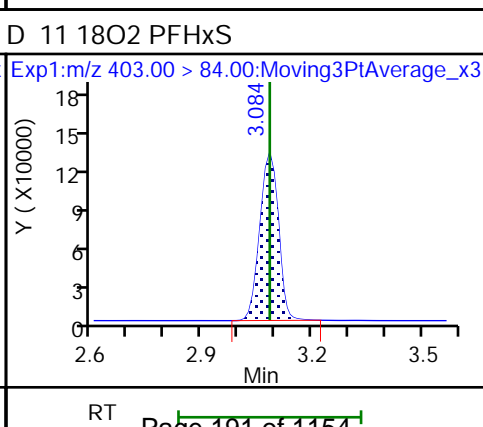
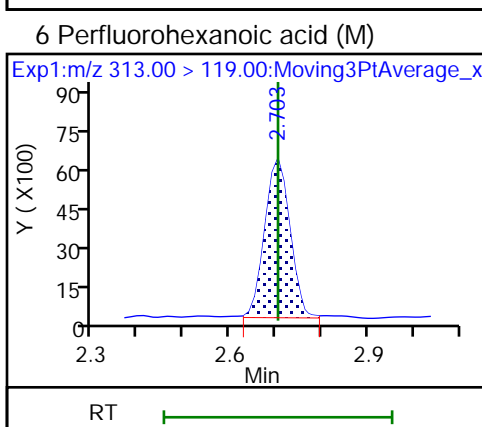
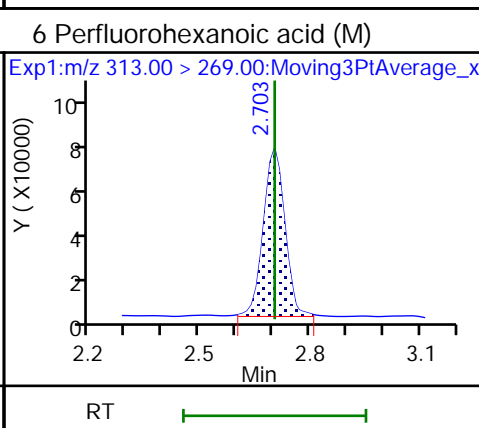
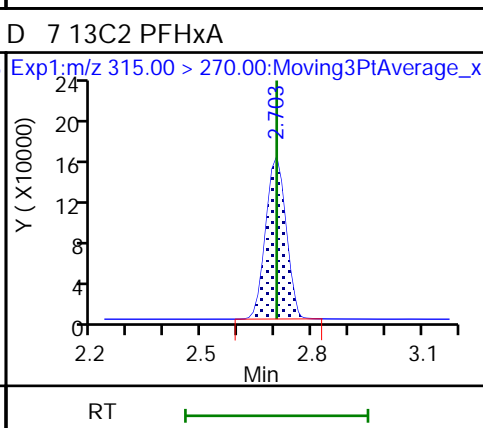
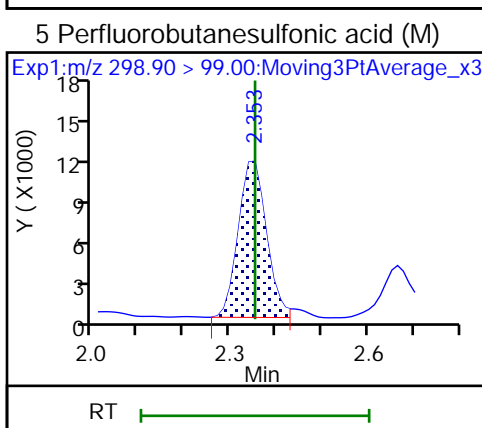
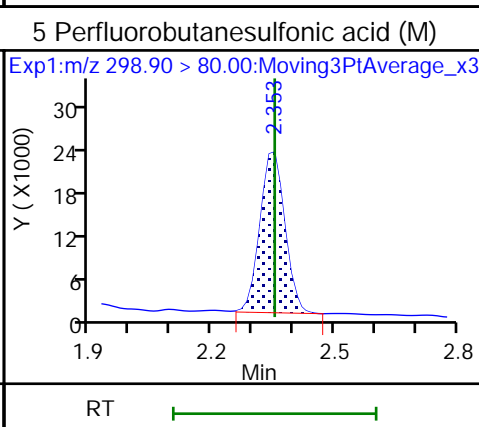
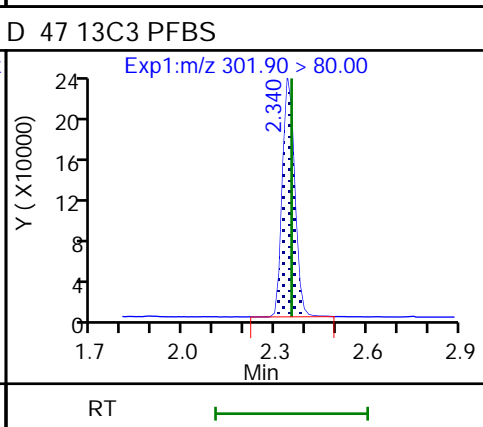
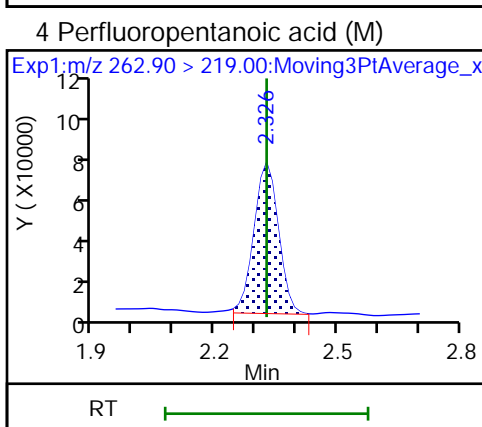
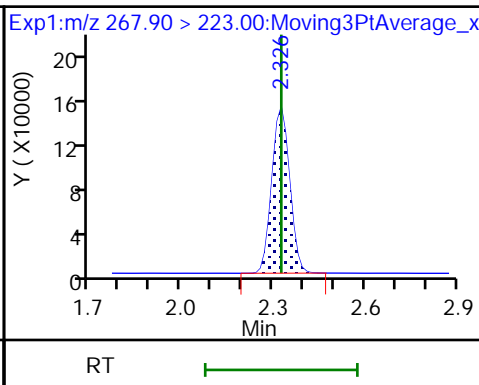
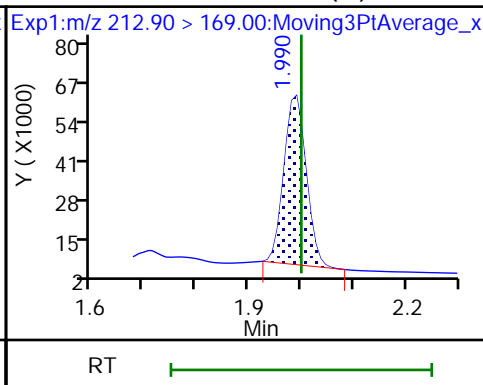
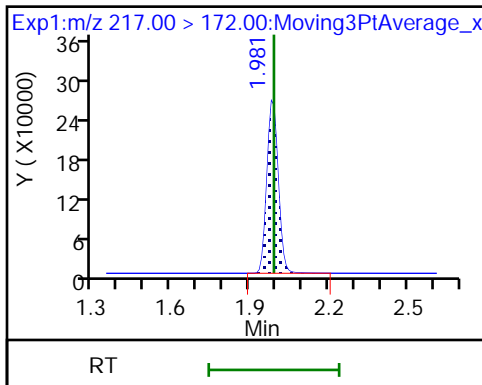
Method: PFC\_LC812

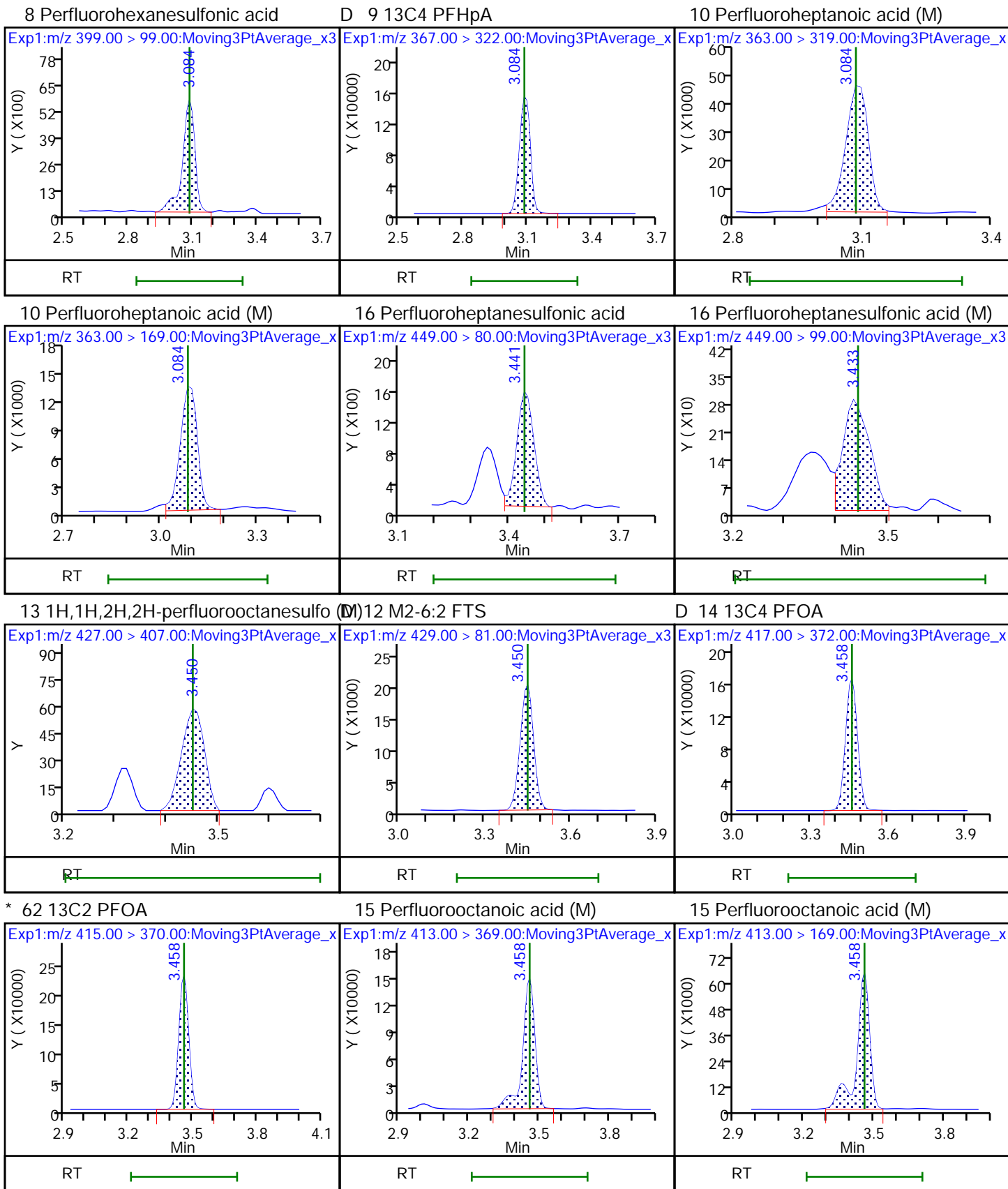
Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

D 3 13C5 PFPeA

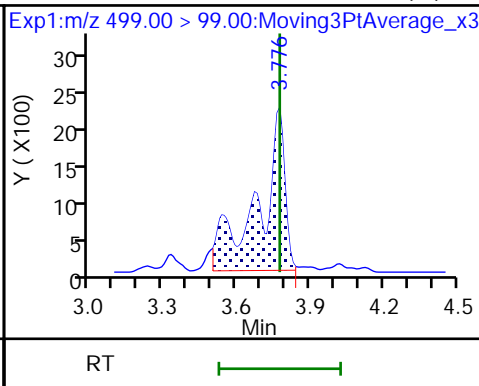
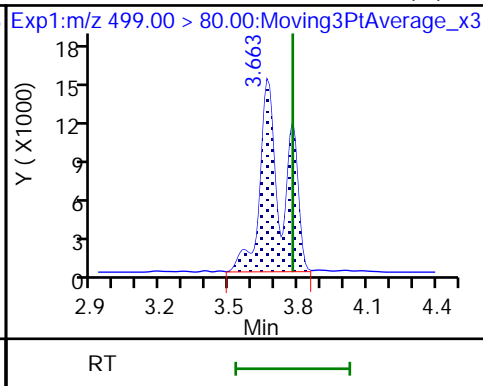
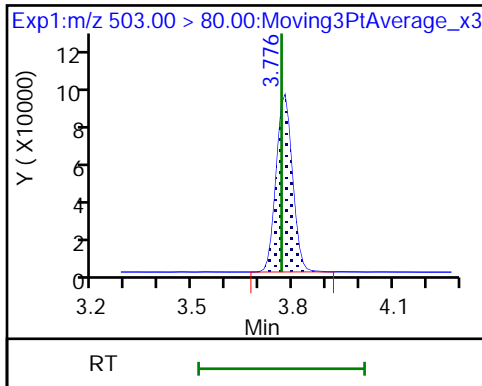




D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

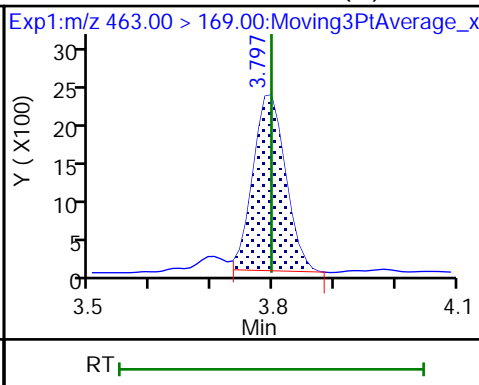
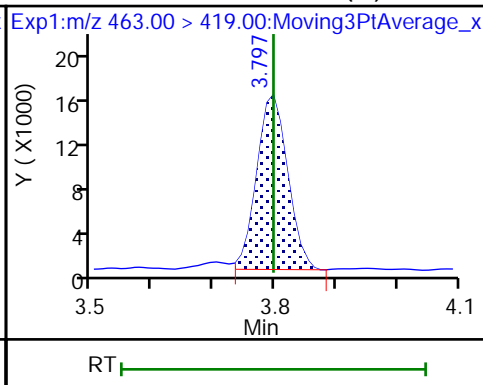
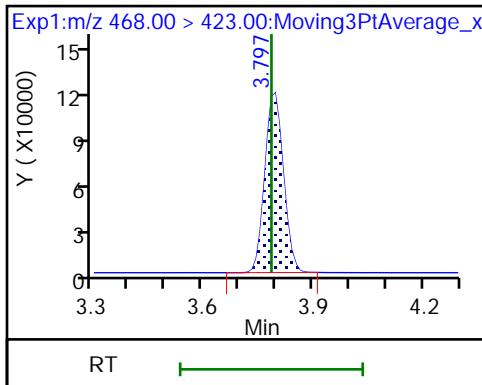
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

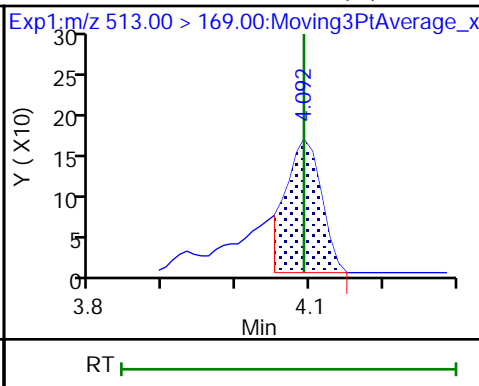
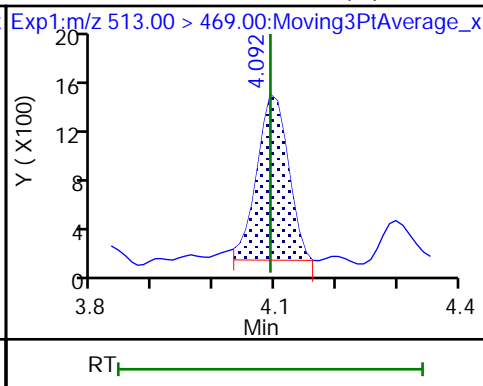
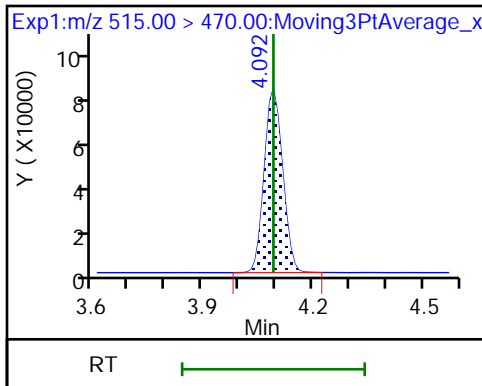
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

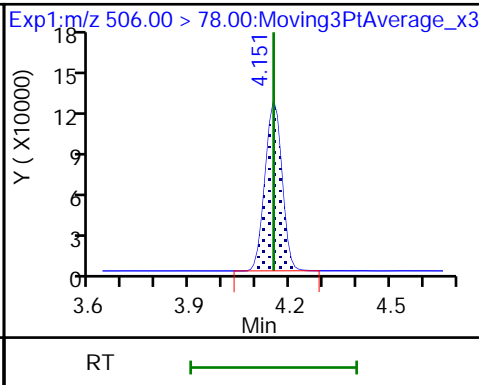
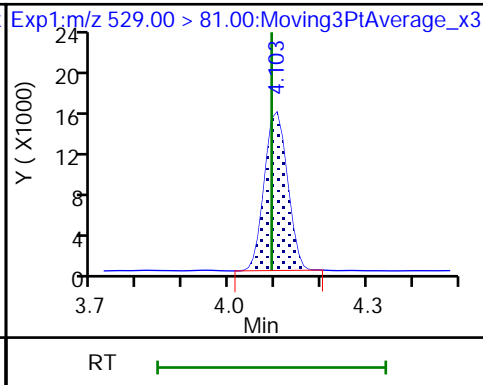
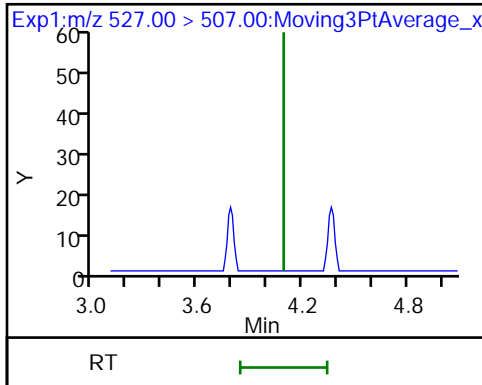
24 Perfluorodecanoic acid (M)

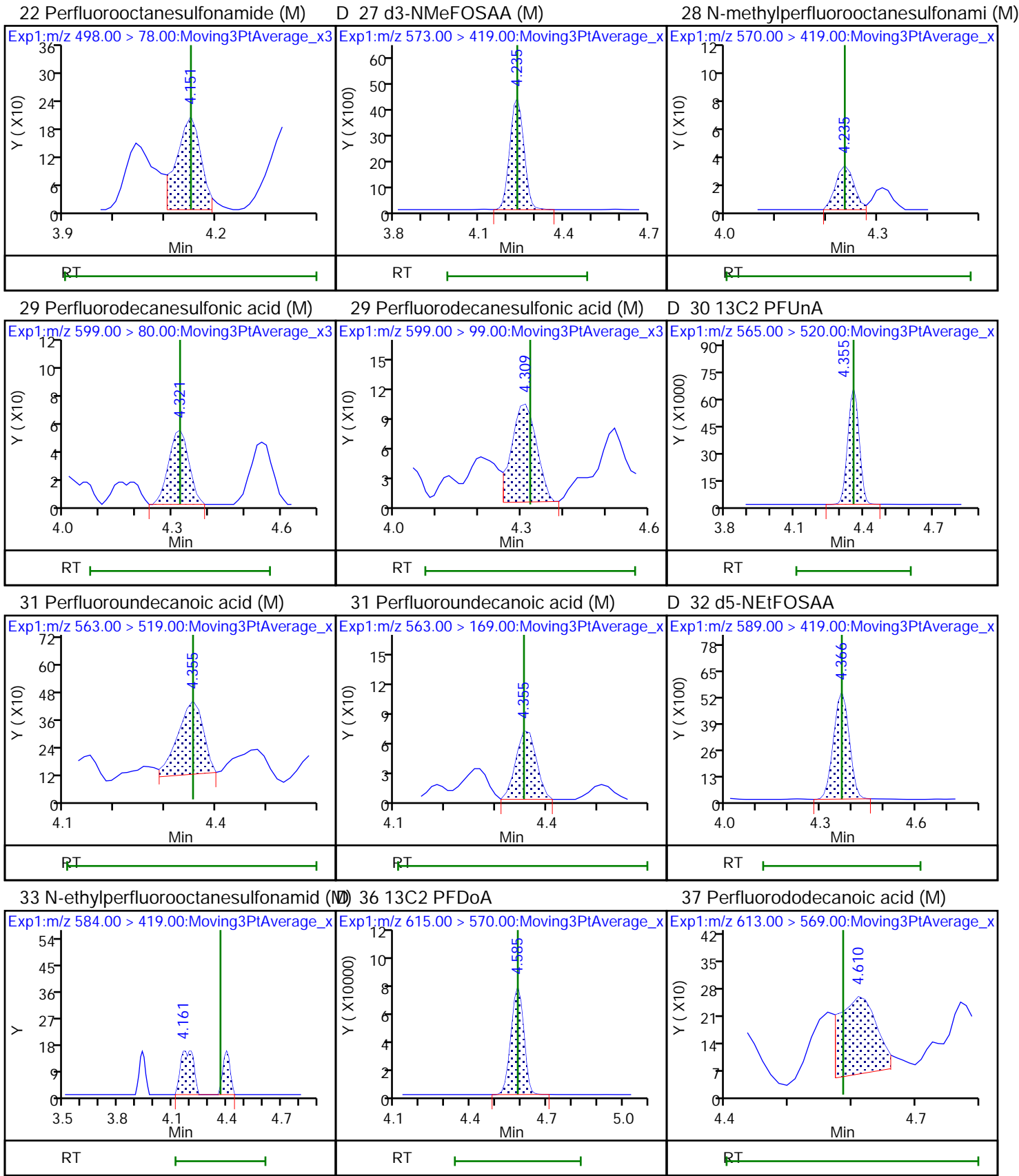


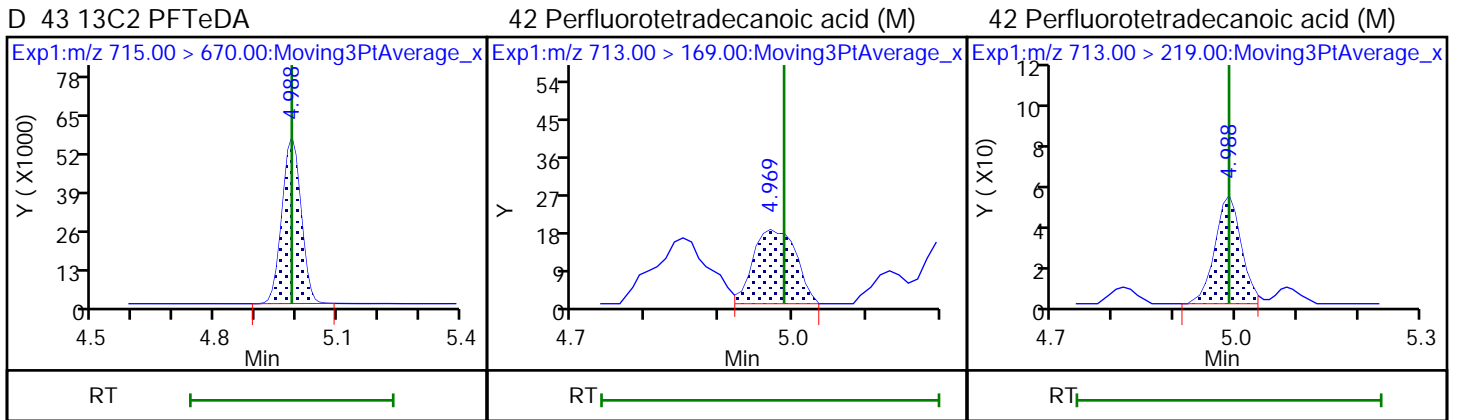
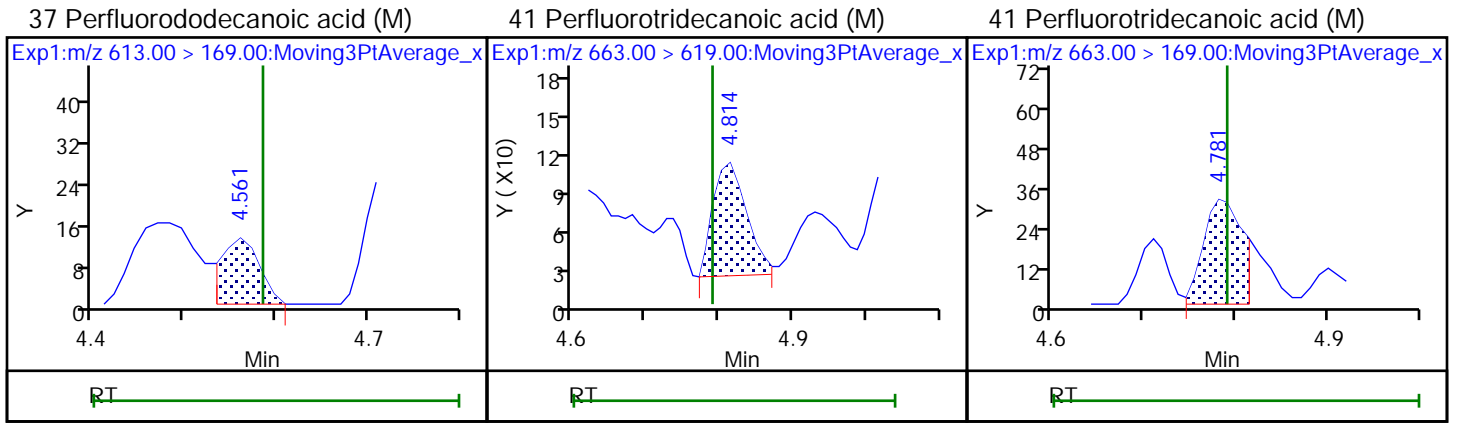
25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

25 M2-8:2 FTS

D 21 13C8 FOSA









Eurofins TestAmerica, Burlington

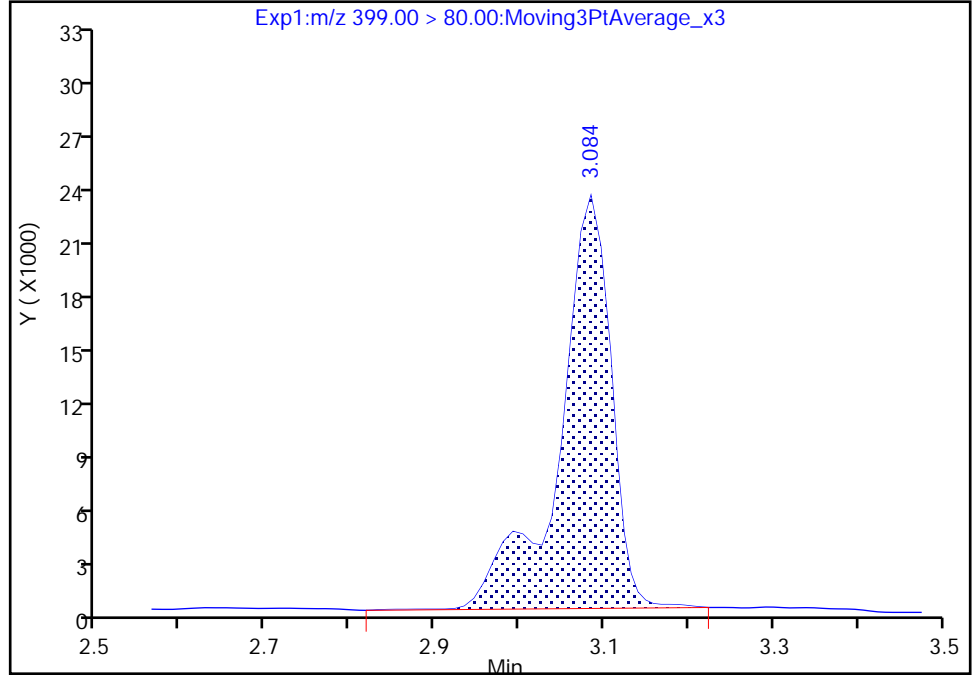
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A38.d  
Injection Date: 01-Oct-2020 23:10:15 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 38  
Injection Vol: 20.0 ul Dil. 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

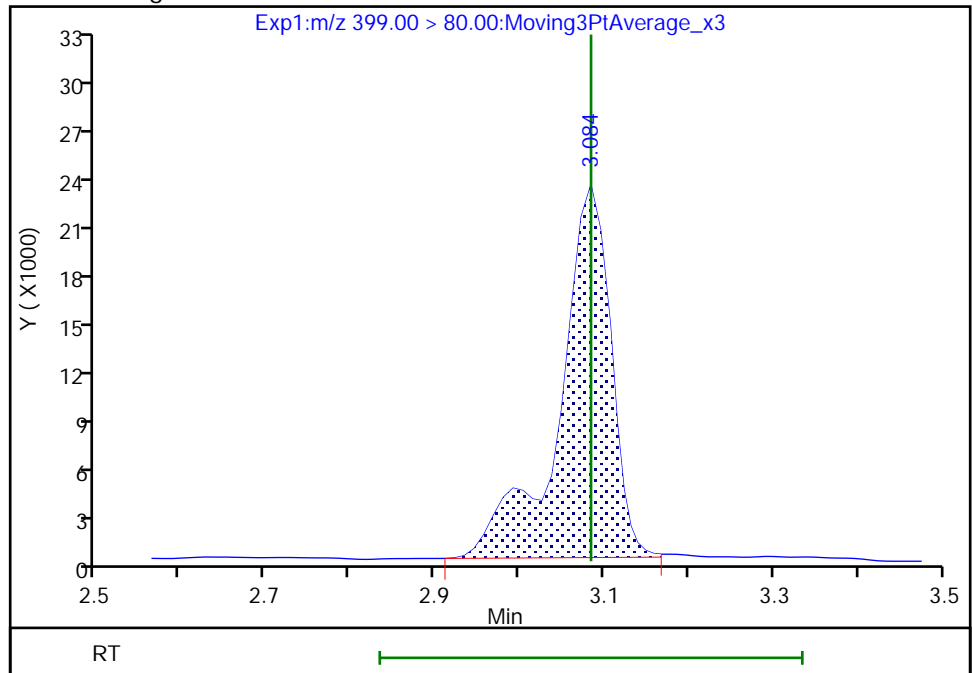
RT: 3.08  
Area: 100161  
Amount: 0.230982  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 99421  
Amount: 0.229275  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 14:06:10  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

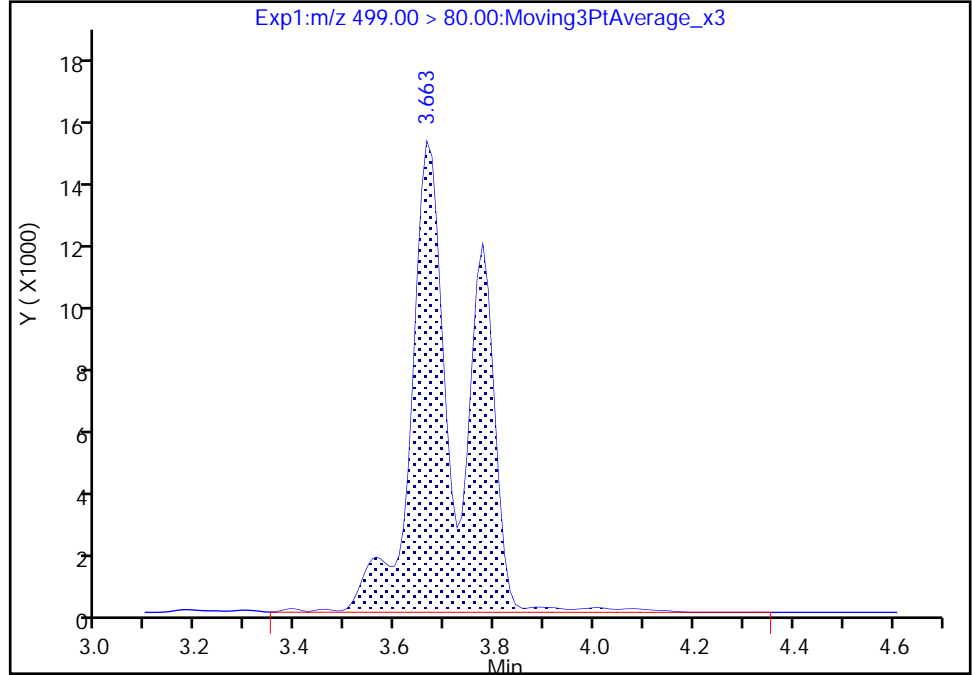
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A38.d  
Injection Date: 01-Oct-2020 23:10:15 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 38  
Injection Vol: 20.0 ul Dil. 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

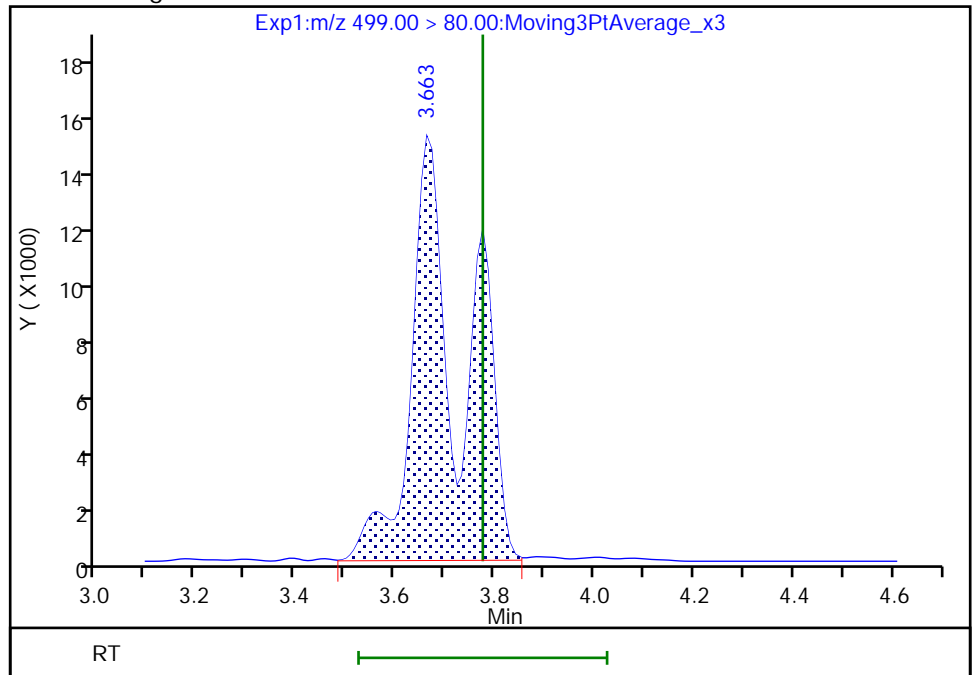
RT: 3.66  
Area: 107933  
Amount: 0.391416  
Amount Units: ng/ml

Processing Integration Results



RT: 3.66  
Area: 105175  
Amount: 0.381414  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 14:08:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

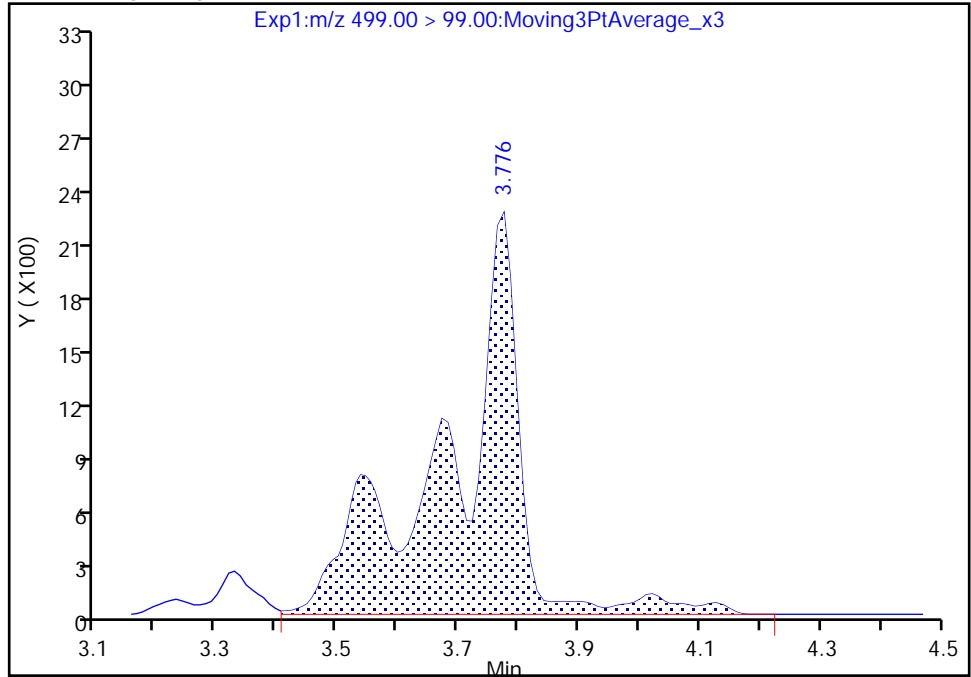
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A38.d  
Injection Date: 01-Oct-2020 23:10:15 Instrument ID: LC812  
Lims ID: 480-175657-C-1-A Lab Sample ID: 200-175657-1  
Client ID: MW-1B  
Operator ID: lc812tech ALS Bottle#: 35 Worklist Smp#: 38  
Injection Vol: 20.0 ul Dil. 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

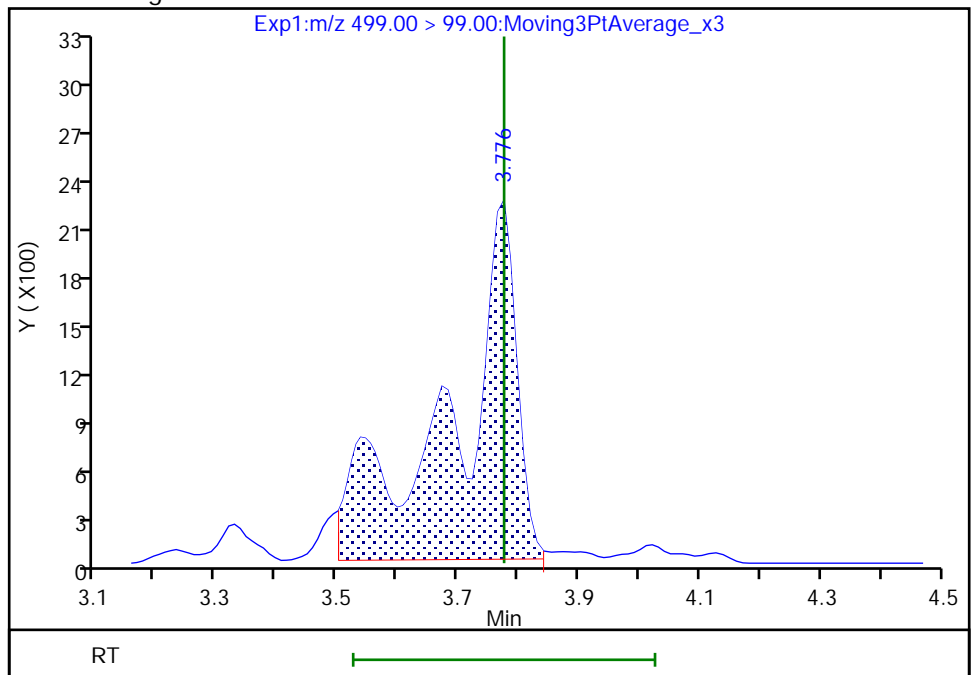
RT: 3.78  
Area: 18199  
Amount: 0.391416  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 15885  
Amount: 0.381414  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 14:08:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3 Lab Sample ID: 480-175657-2  
 Matrix: Water Lab File ID: PA200930B18.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 13:05  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 302.5 (mL) Date Analyzed: 09/30/2020 20:35  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	12		4.1	0.93
2706-90-3	Perfluoropentanoic acid (PFPeA)	29		1.7	0.89
307-24-4	Perfluorohexanoic acid (PFHxA)	20		1.7	0.69
375-85-9	Perfluoroheptanoic acid (PFHpA)	11		1.7	0.38
335-67-1	Perfluorooctanoic acid (PFOA)	16		1.7	0.81
375-95-1	Perfluorononanoic acid (PFNA)	5.1		1.7	0.48
335-76-2	Perfluorodecanoic acid (PFDA)	2.5		1.7	0.38
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.60
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.38
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.36
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.49
375-73-5	Perfluorobutanesulfonic acid (PFBS)	10		1.7	0.52
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.82	J	1.7	0.32
335-77-3	Perfluorodecanesulfonic acid (PFDS)	0.62	J	1.7	0.40
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.77
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.60
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.55

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3 Lab Sample ID: 480-175657-2  
 Matrix: Water Lab File ID: PA200930B18.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 13:05  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 302.5 (mL) Date Analyzed: 09/30/2020 20:35  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL01892	13C4 PFHpA	86		50-150
STL00990	13C4 PFOA	87		50-150
STL00991	13C4 PFOS	56		50-150
STL00995	13C5 PFNA	66		50-150
STL00992	13C4 PFBA	66		25-150
STL00993	13C2 PFHxA	85		50-150
STL00996	13C2 PFDA	51		50-150
STL00997	13C2 PFUnA	48	*5	50-150
STL00998	13C2 PFDoA	50		50-150
STL01056	13C8 FOSA	45		25-150
STL01893	13C5 PFPeA	82		25-150
STL02116	13C2 PFTeDA	57		50-150
STL02118	d3-NMeFOSAA	46	*5	50-150
STL02117	d5-NEtFOSAA	48	*5	50-150
STL02279	M2-6:2 FTS	89		25-150
STL02280	M2-8:2 FTS	56		25-150
STL02337	13C3 PFBS	88		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
 Lims ID: 480-175657-C-2-A  
 Client ID: MW-3  
 Sample Type: Client  
 Inject. Date: 30-Sep-2020 20:35:19 ALS Bottle#: 18 Worklist Smp#: 18  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-2-A  
 Misc. Info.: 200-0043035-018 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 14:45:03  
 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	1.990	-0.009	0.574	632934	0.8231	65.8	9596	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.981	1.990	-0.009	1.000	172907	0.3653		47.3		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	564288	1.02	81.9	1789	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	414400	0.8692		19.1		M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	687848	1.02	88.2	38783	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.339	2.353	-0.014	1.000	186182	0.3158	Target=2.07	16.7		M
298.90 > 99.00	2.339	2.353	-0.014	1.000	88812		2.10(1.04-3.11)	49.1		
D 7 13C2 PFHxA	315.00 > 270.00	2.691	2.703	-0.012	0.780	605748	1.07	85.4	3675	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.691	2.703	-0.012	1.000	293650	0.6018	Target=12.44	27.5		M
313.00 > 119.00	2.691	2.703	-0.012	1.000	24494		11.99(6.22-18.66)	30.7		M
D 11 18O2 PFHxS	403.00 > 84.00	3.073	3.073	0.0	0.891	486354	1.01	85.4	2795	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	62549	0.1377	Target=4.60	20.0		M
399.00 > 99.00	3.073	3.073	0.0	1.000	12066		5.18(2.30-6.91)	22.4		M
D 9 13C4 PFHpA	367.00 > 322.00	3.084	3.084	0.0	0.894	552944	1.07	85.7	2237	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	147812	0.3335	Target=3.34	26.8		M
363.00 > 169.00	3.084	3.084	0.0	1.000	42345		3.49(1.67-5.01)	81.4		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.432	3.433	0.0	0.912	6336	0.0248	Target=7.08	6.2		M
449.00 > 99.00	3.441	3.433	0.009	0.914	708		8.95(3.54-10.63)	5.9		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.009	1.003	78	0.001712		3.4		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.433	0.0	0.995	67781	1.05		88.7	78.2	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	575321	1.09		87.1	4471	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		670800	1.25			3790	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	236880	0.4985	Target=2.29	58.8		M
413.00 > 169.00	3.450	3.450	0.0	1.000	101956		2.32(1.14-3.43)	234		M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	263059	0.6678		55.9	385	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	391460	1.64	Target=7.10	344		M
499.00 > 99.00	3.765	3.765	0.0	1.000	49512		7.91(3.55-10.64)	286		M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	367609	0.8257		66.1	3105	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.786	3.786	0.0	1.000	45914	0.1533	Target=5.83	16.3		M
463.00 > 169.00	3.786	3.786	0.0	1.000	6906		6.65(2.91-8.74)	100		M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	274292	0.6425		51.4	4047	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.082	4.082	0.0	1.000	16633	0.0766	Target=6.81	19.3		M
513.00 > 169.00	4.072	4.082	-0.010	0.998	2091		7.95(3.41-10.22)	34.1		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	50703	0.6689		55.9	281	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	387108	0.5627		45.0	2814	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.127	4.139	-0.012	0.997	172	0.000594		0.7		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.214	0.0	1.221	14073	0.5790		46.3	455	
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.309	4.309	0.0	1.144	2958	0.0187	Target=3.31	6.7		M
599.00 > 99.00	4.298	4.309	-0.011	1.141	995		2.97(1.66-4.97)	5.2		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	192942	0.5986		47.9	2546	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.343	4.343	0.0	1.000	767	0.005038	Target=6.57	1.3		M
563.00 > 169.00	4.343	4.343	0.0	1.000	153		5.01(3.28-9.85)	2.5		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	15722	0.6017		48.1	271	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	214607	0.6300		50.4	2990	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.573	4.573	0.0	1.000	227	0.001356	Target=5.16		0.6	M
613.00 > 169.00	4.585	4.573	0.012	1.003	37		6.14(2.58-7.75)		1.6	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.754	4.772	-0.018	1.040	152	0.001069	Target=3.30		0.4	M
663.00 > 169.00	4.772	4.772	0.0	1.044	45		3.38(1.65-4.95)		1.9	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.969	4.969	0.0	1.440	173438	0.7148		57.2	3940	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.960	4.969	-0.009	0.998	68	0.002140	Target=1.06		4.8	M
713.00 > 219.00	4.969	4.969	0.0	1.000	70		0.97(0.53-1.59)		4.4	M

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d

Injection Date: 30-Sep-2020 20:35:19

Instrument ID: LC812

Lims ID: 480-175657-C-2-A

Lab Sample ID: 200-175657-2

Client ID: MW-3

Operator ID: lc812tech

ALS Bottle#: 18

Worklist Smp#: 18

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

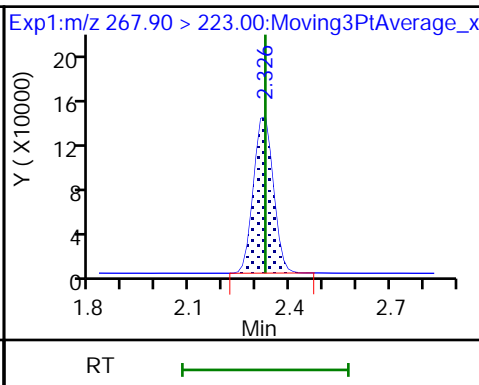
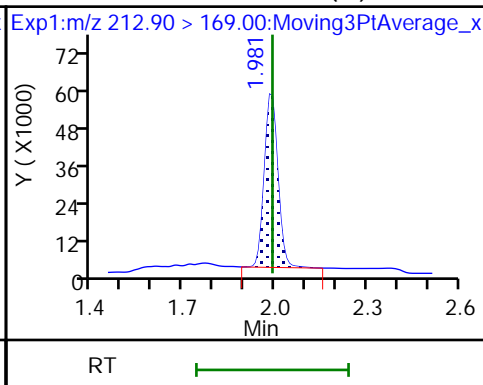
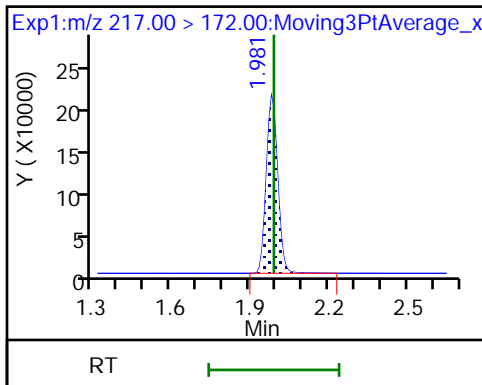
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

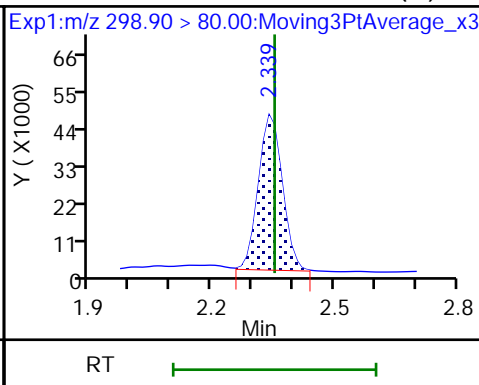
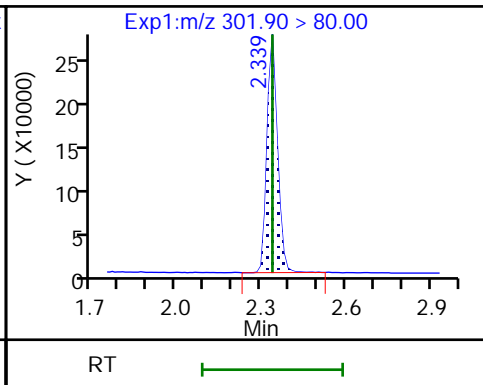
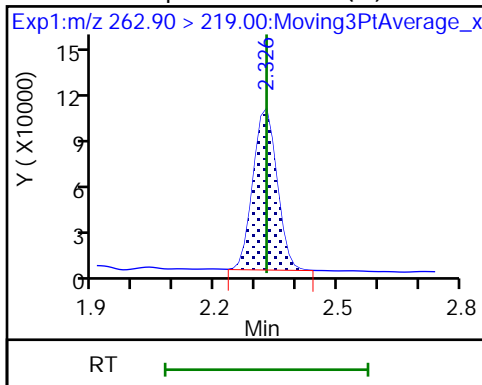
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

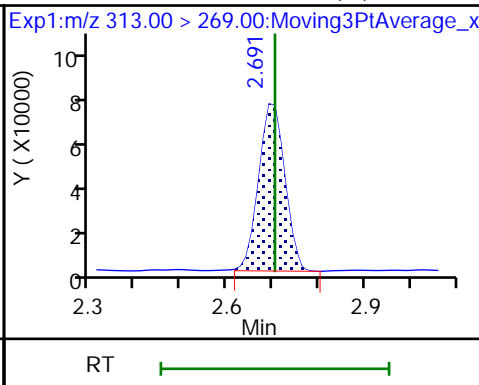
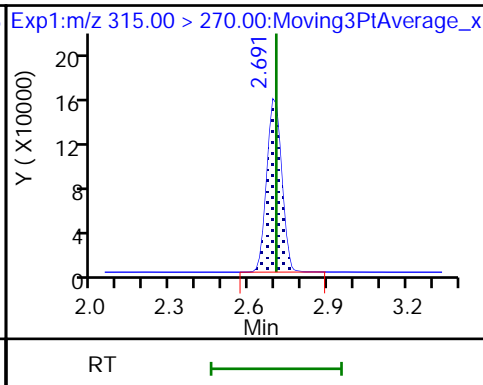
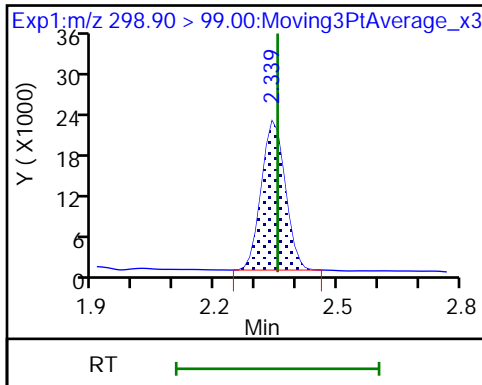
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 7 13C2 PFHxA

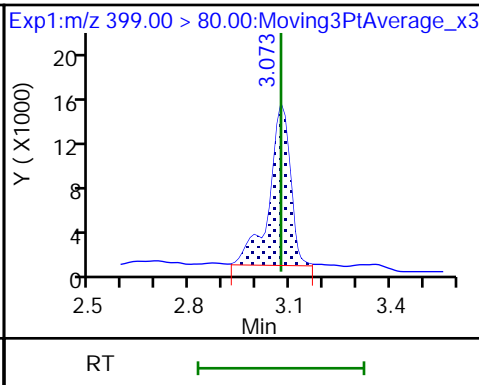
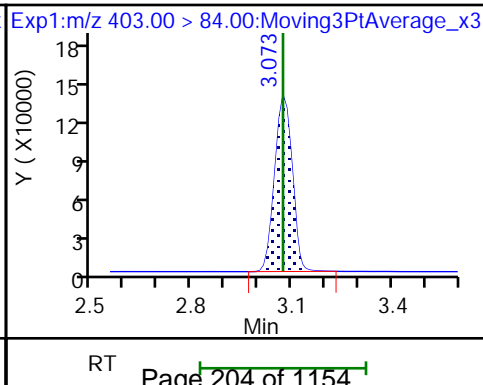
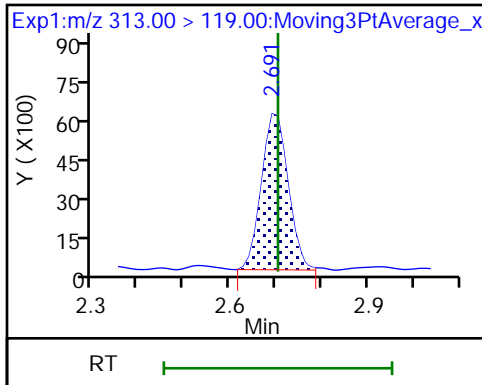
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

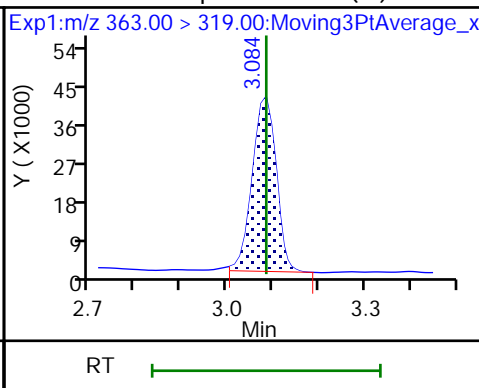
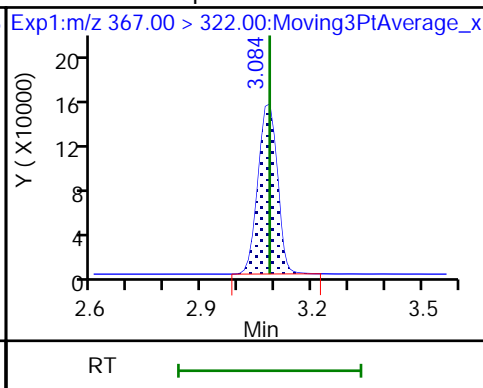
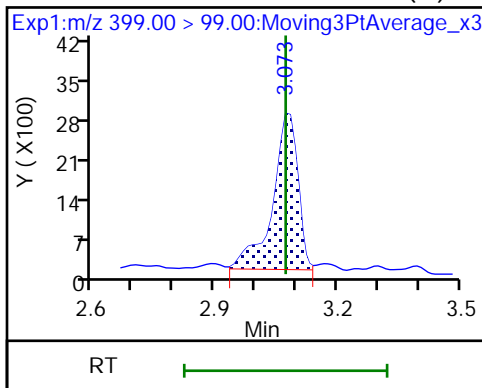
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

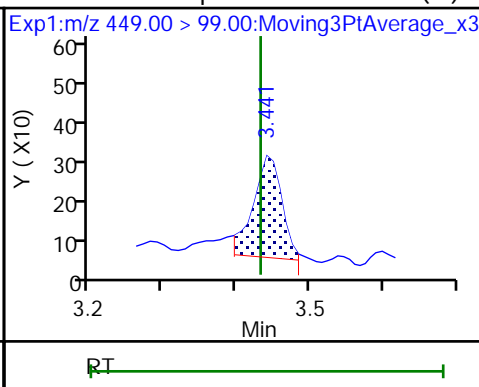
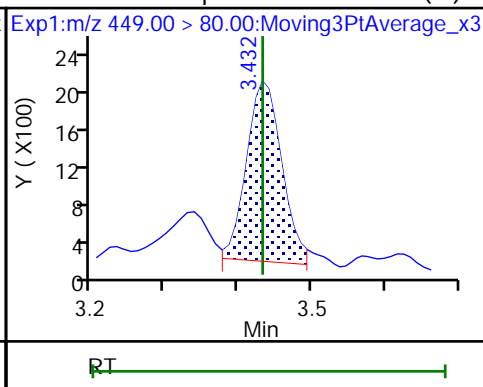
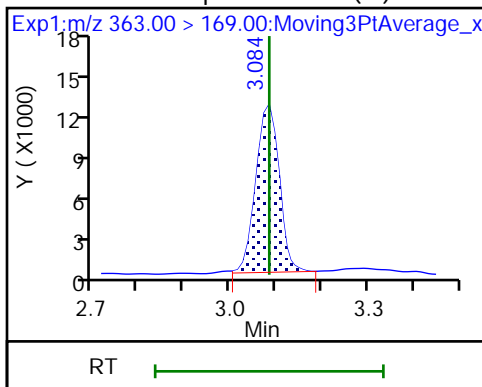
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (M)

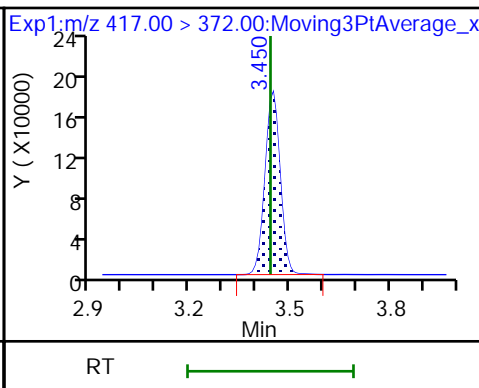
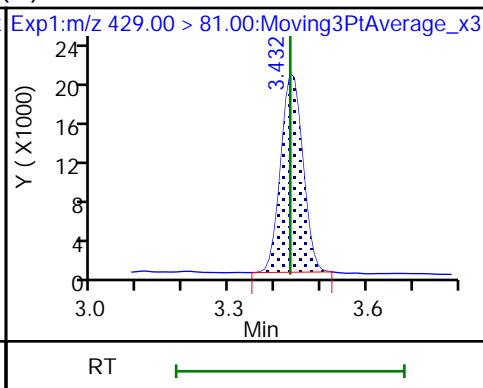
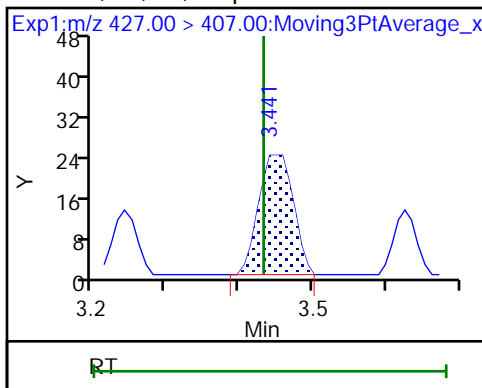
16 Perfluoroheptanesulfonic acid (M)



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

12 M2-6:2 FTS

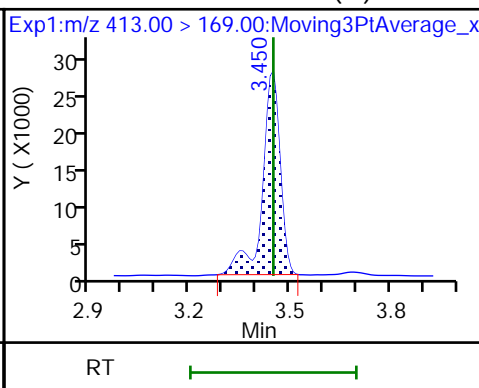
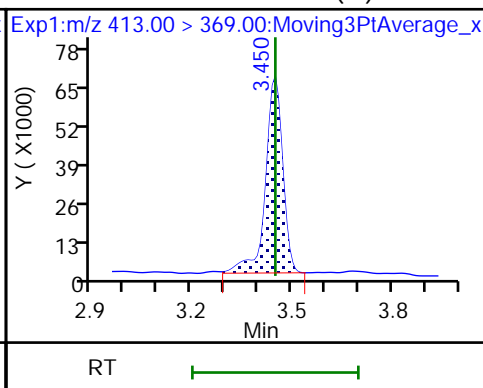
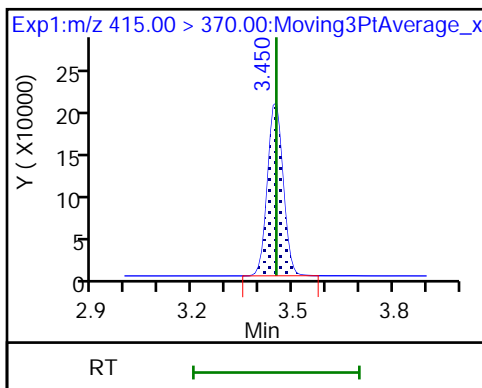
D 14 13C4 PFOA



\* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

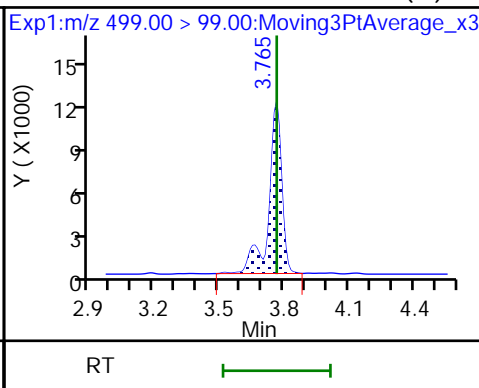
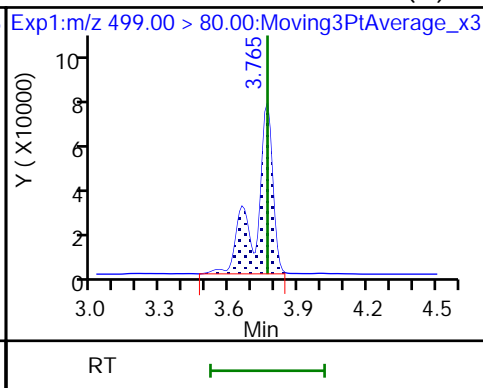
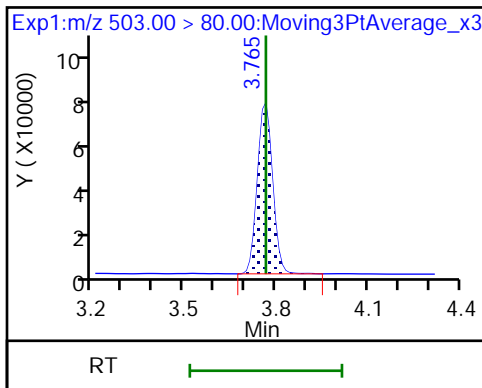
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

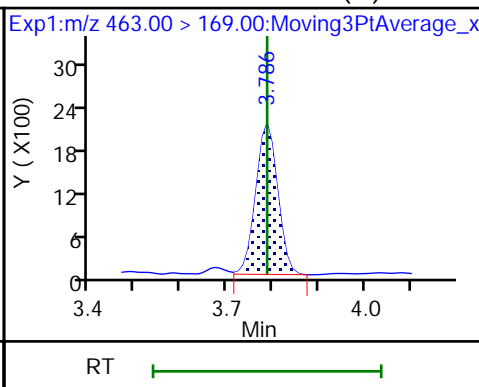
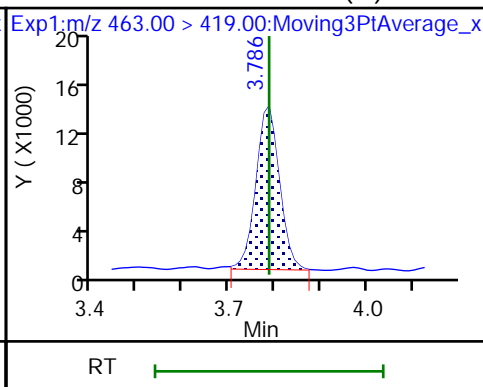
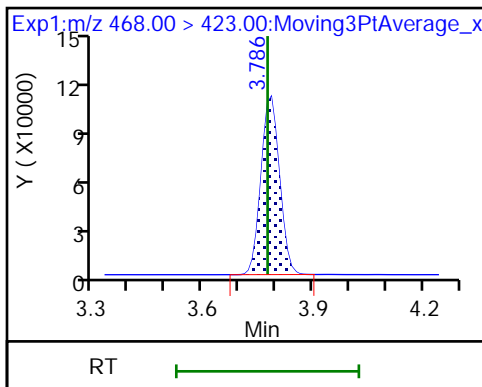
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

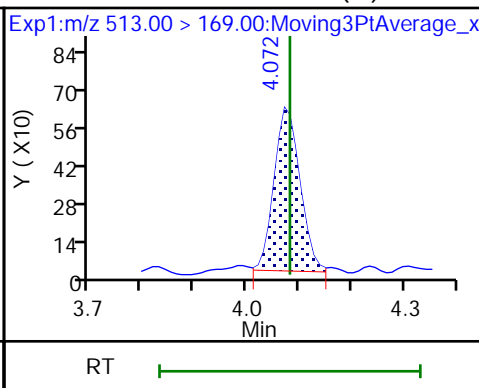
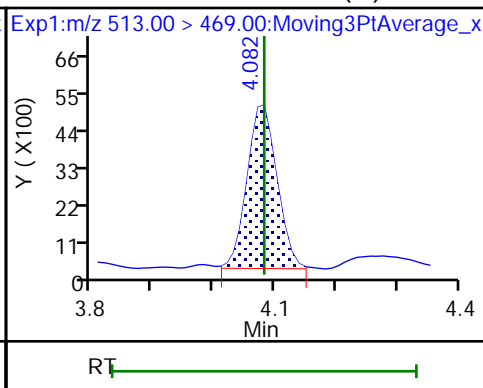
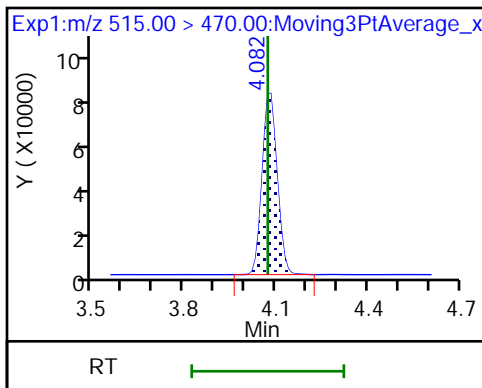
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

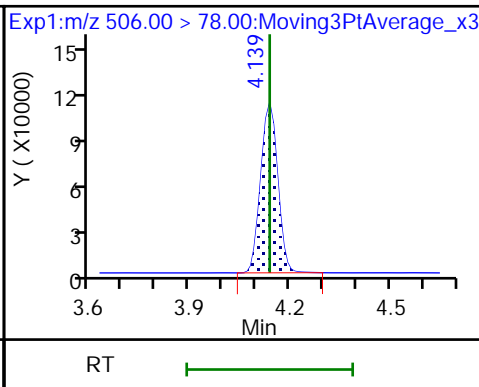
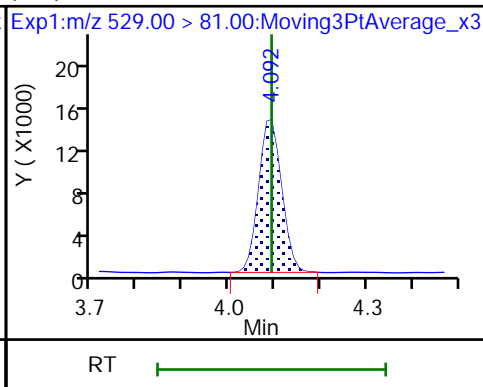
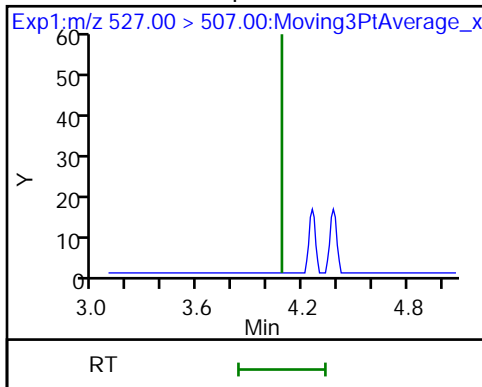
24 Perfluorodecanoic acid (M)



25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

25 M2-8:2 FTS

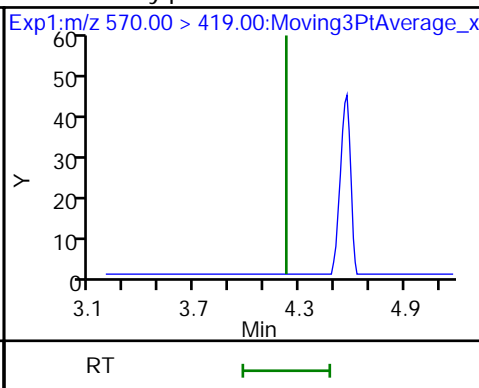
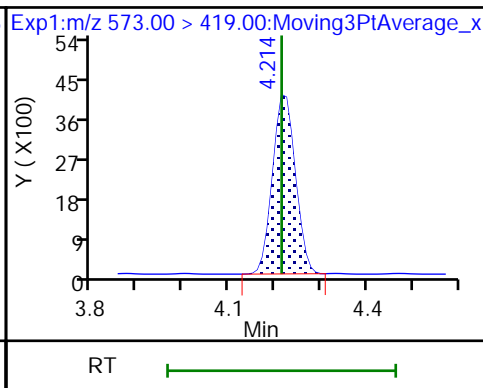
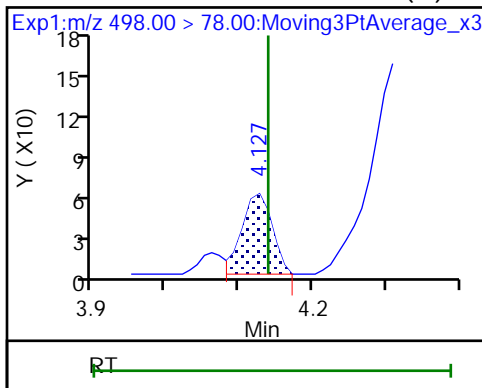
D 21 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

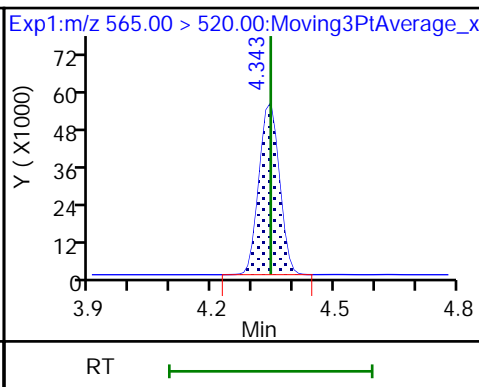
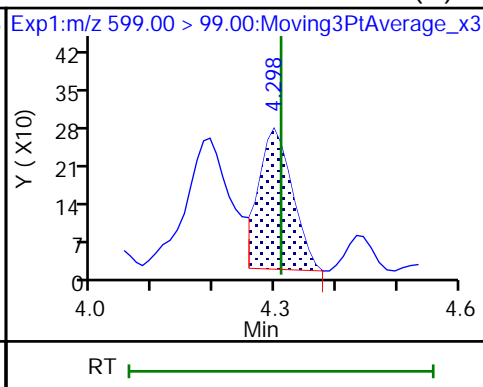
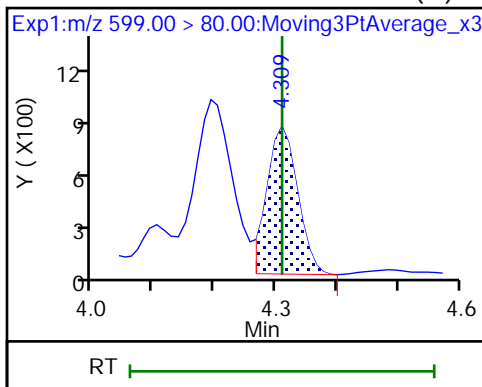
28 N-methylperfluorooctanesulfonami (ND)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

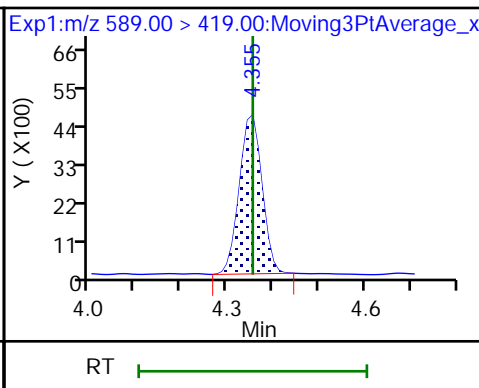
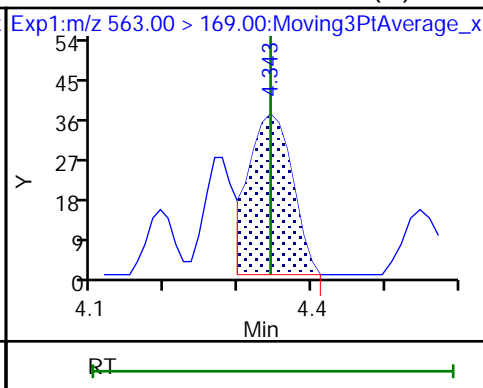
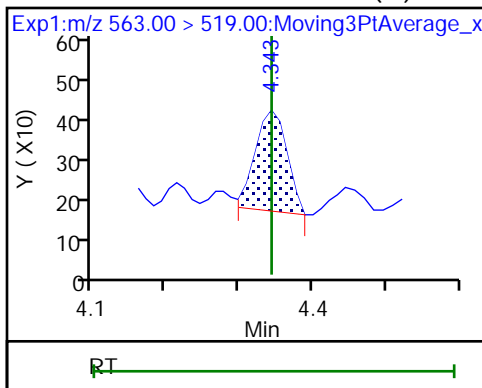
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

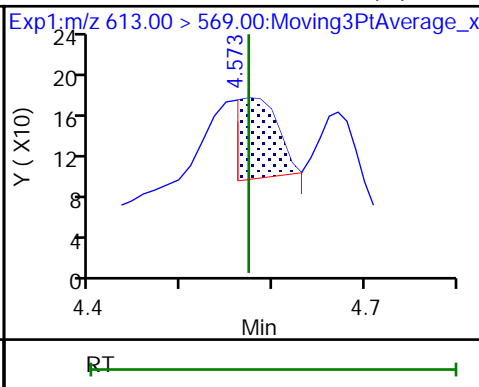
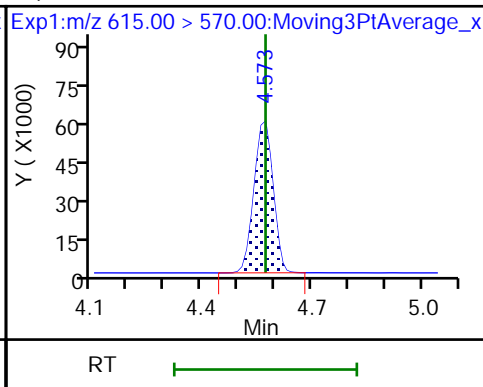
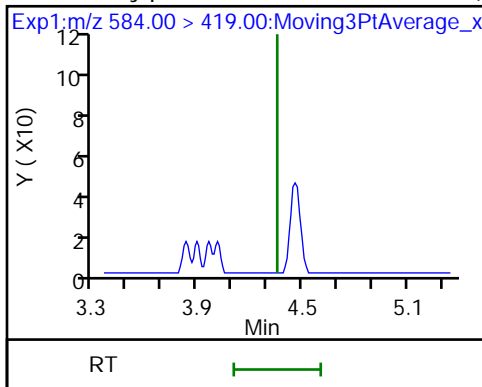
D 32 d5-NEtFOSAA

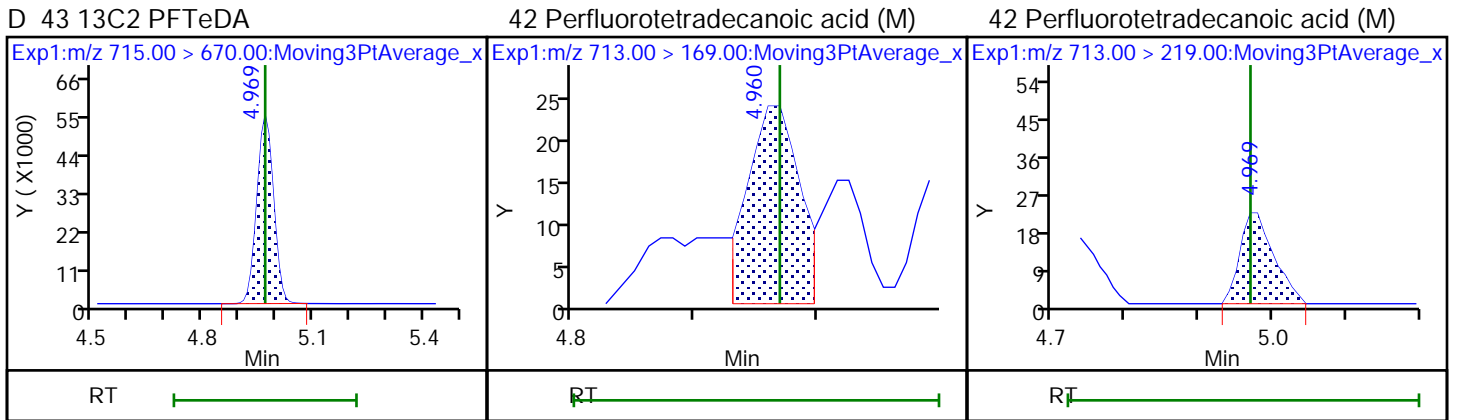
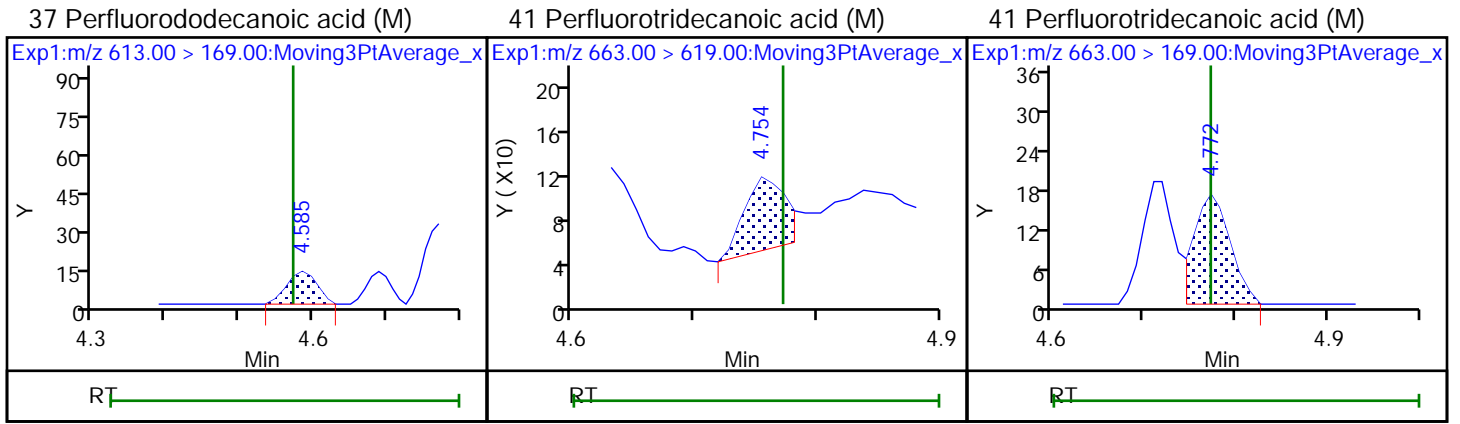


33 N-ethylperfluorooctanesulfonamid (ND)

D 36 13C2 PFDoA

37 Perfluorododecanoic acid (M)





Euofins TestAmerica, Burlington

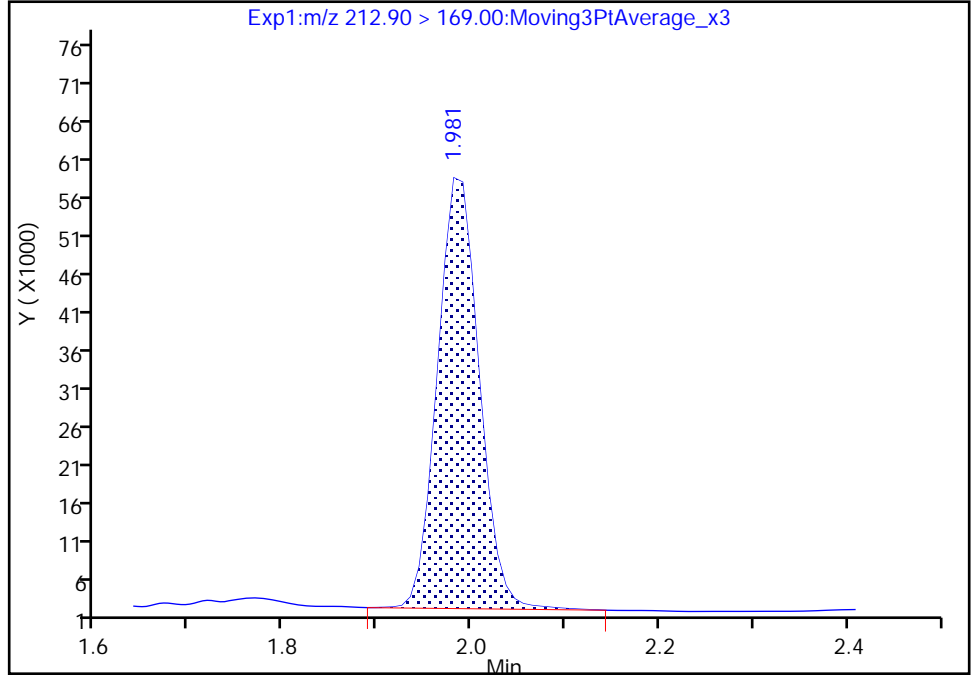
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

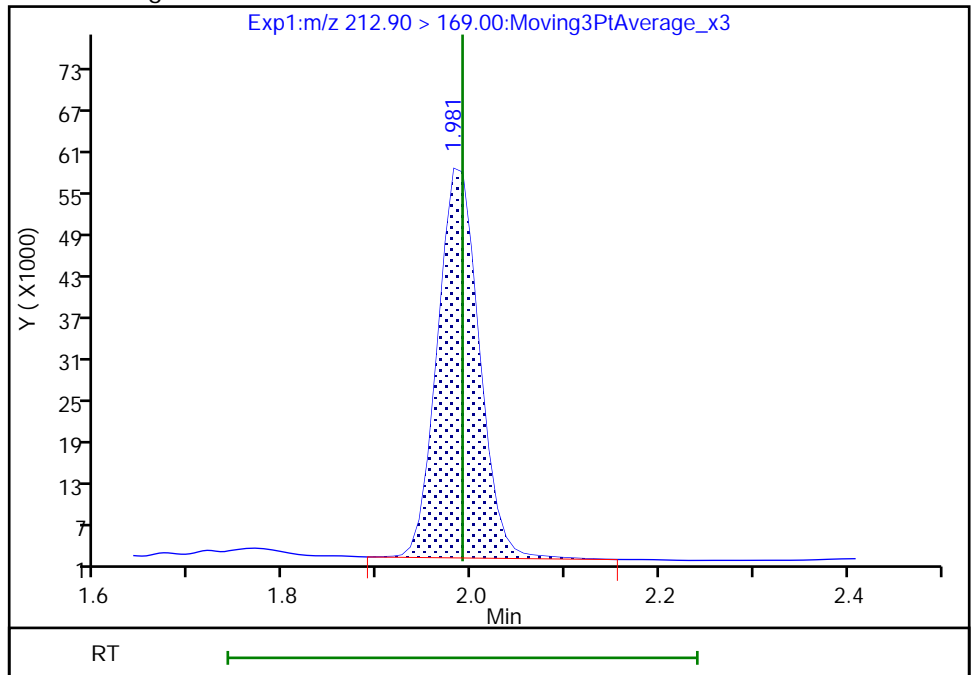
RT: 1.98  
Area: 172679  
Amount: 0.364838  
Amount Units: ng/ml

Processing Integration Results



RT: 1.98  
Area: 172907  
Amount: 0.365319  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:37:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

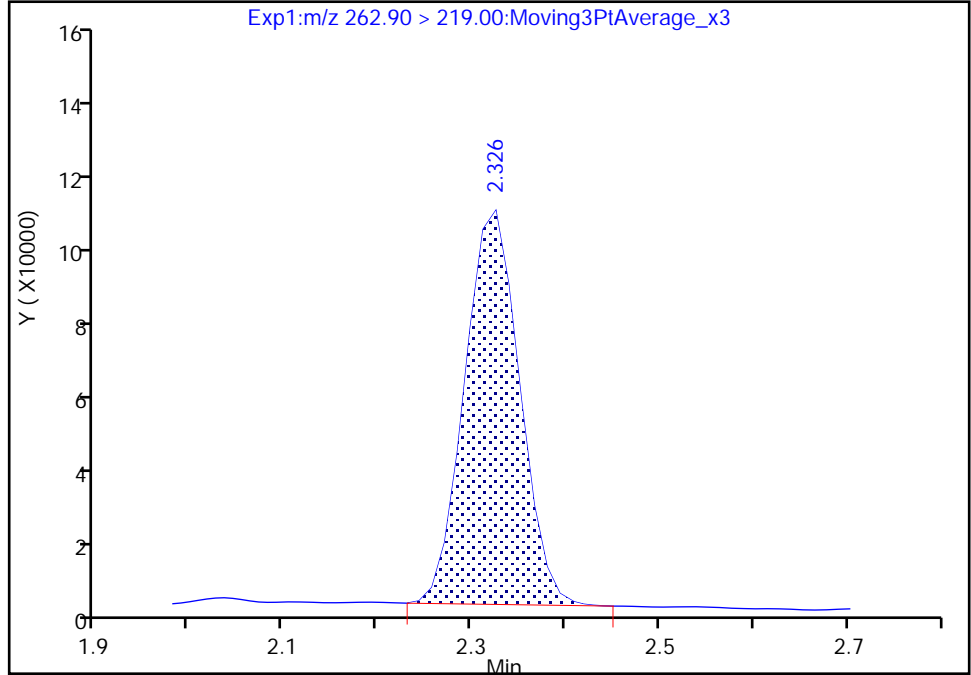
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

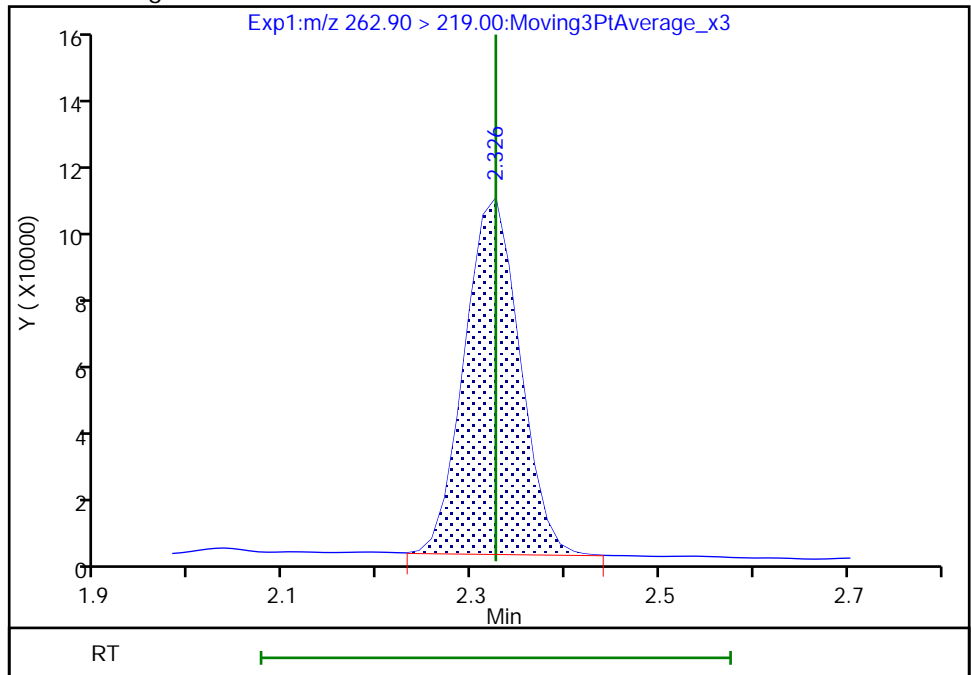
RT: 2.33  
Area: 412926  
Amount: 0.866132  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 414400  
Amount: 0.869224  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:37:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

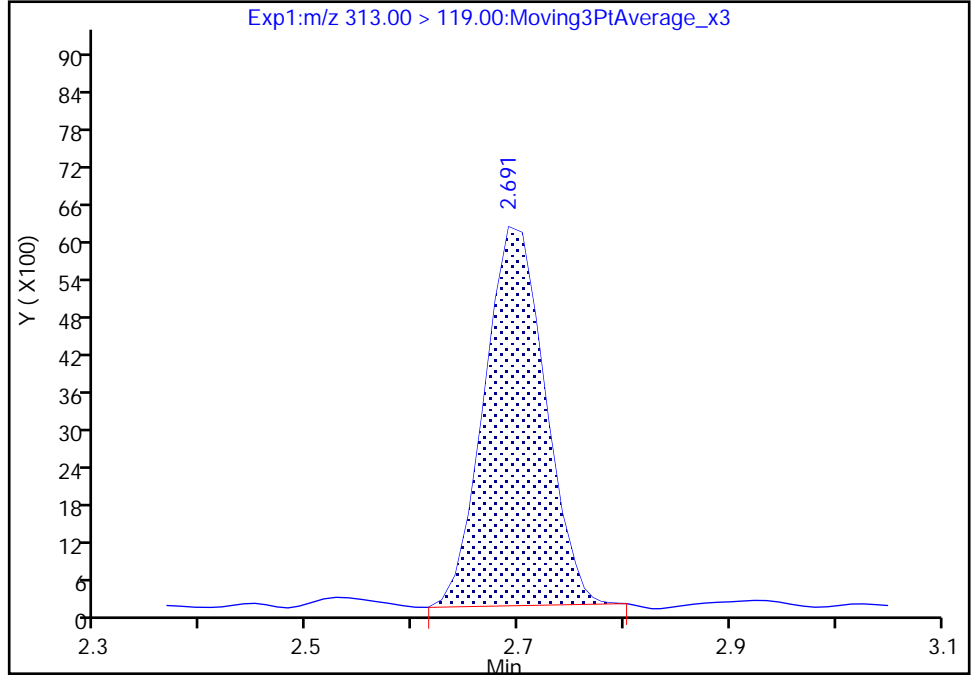
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

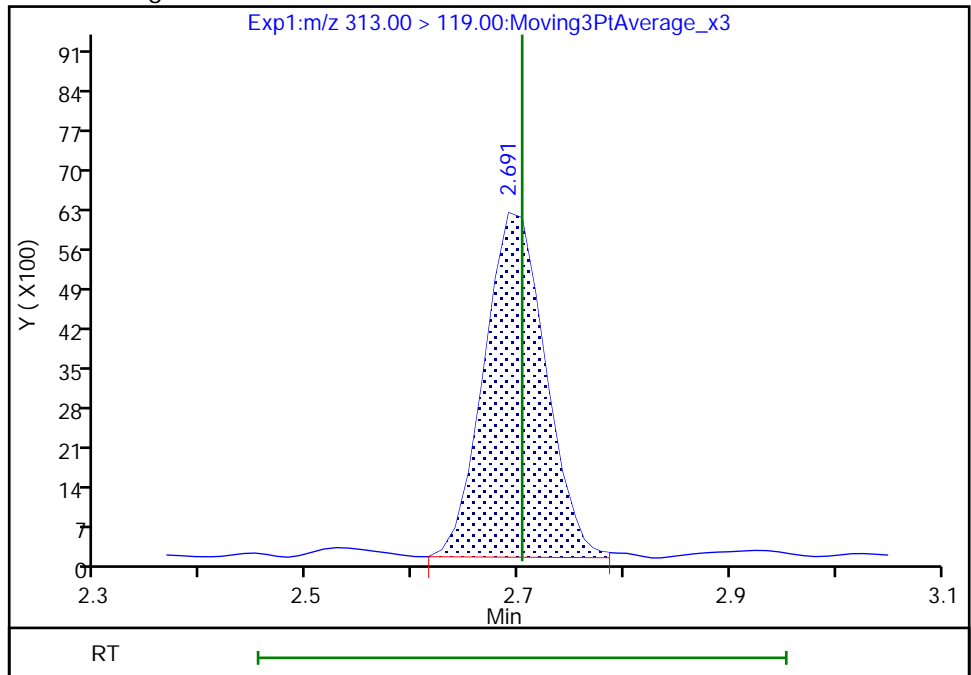
RT: 2.69  
Area: 24127  
Amount: 0.603422  
Amount Units: ng/ml

Processing Integration Results



RT: 2.69  
Area: 24494  
Amount: 0.601784  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:38:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

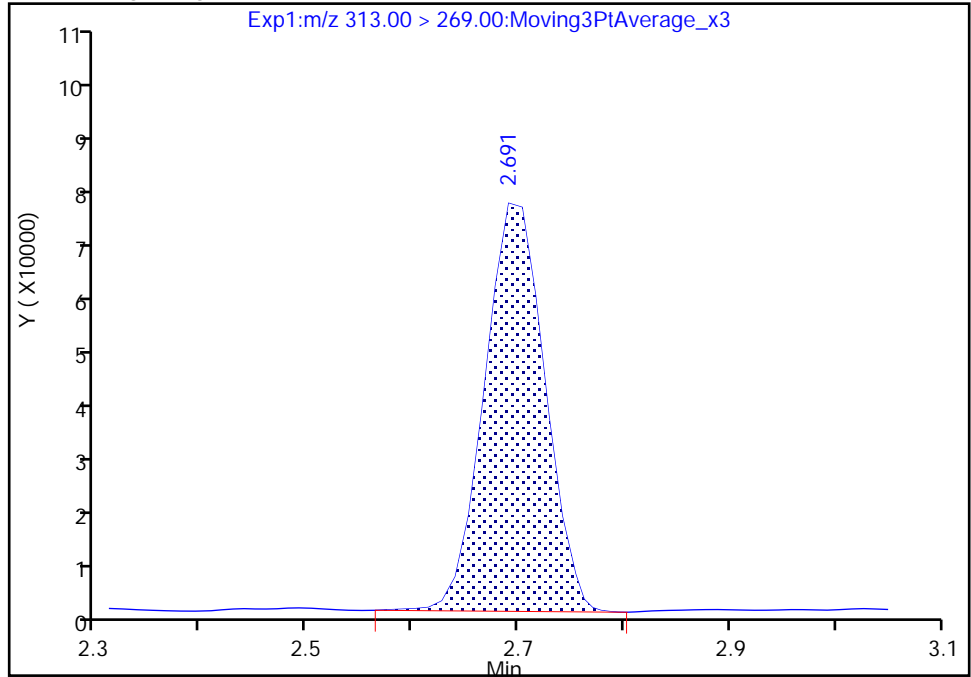
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

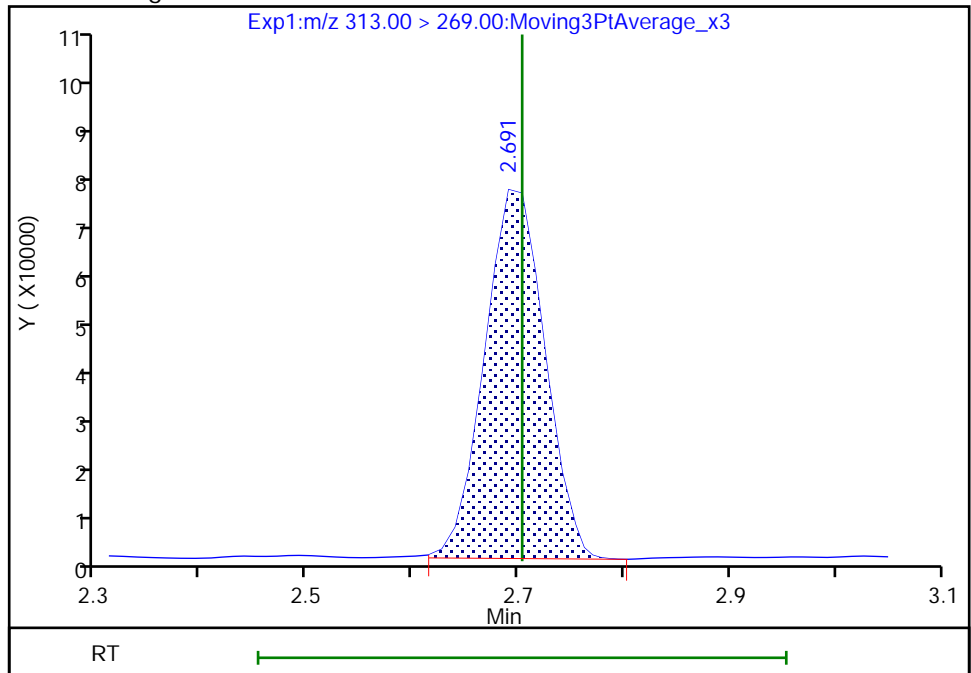
RT: 2.69  
Area: 294449  
Amount: 0.603422  
Amount Units: ng/ml

Processing Integration Results



RT: 2.69  
Area: 293650  
Amount: 0.601784  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:38:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

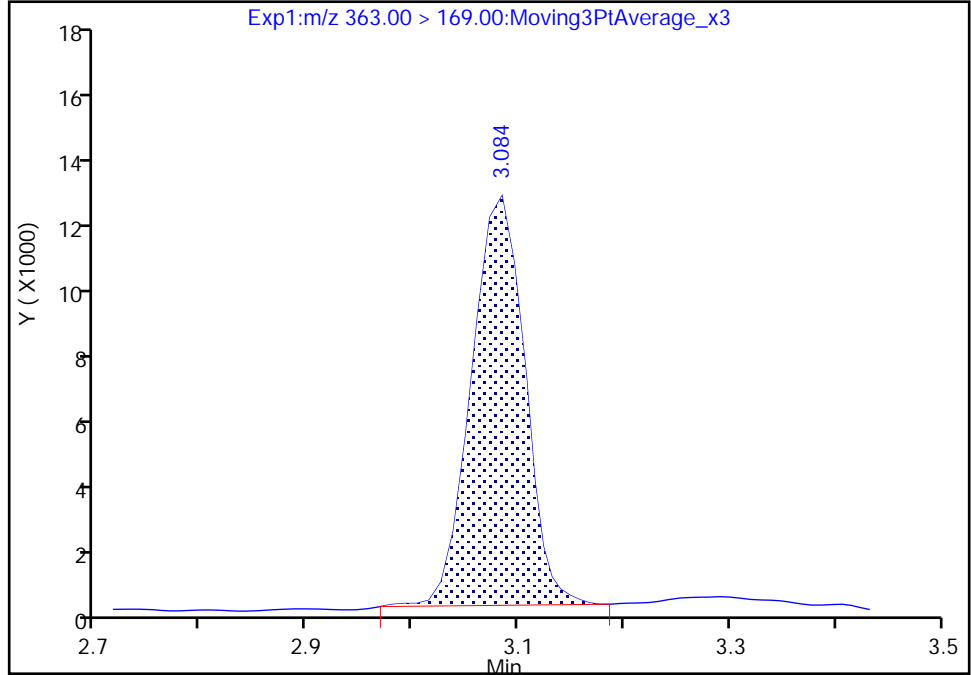
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

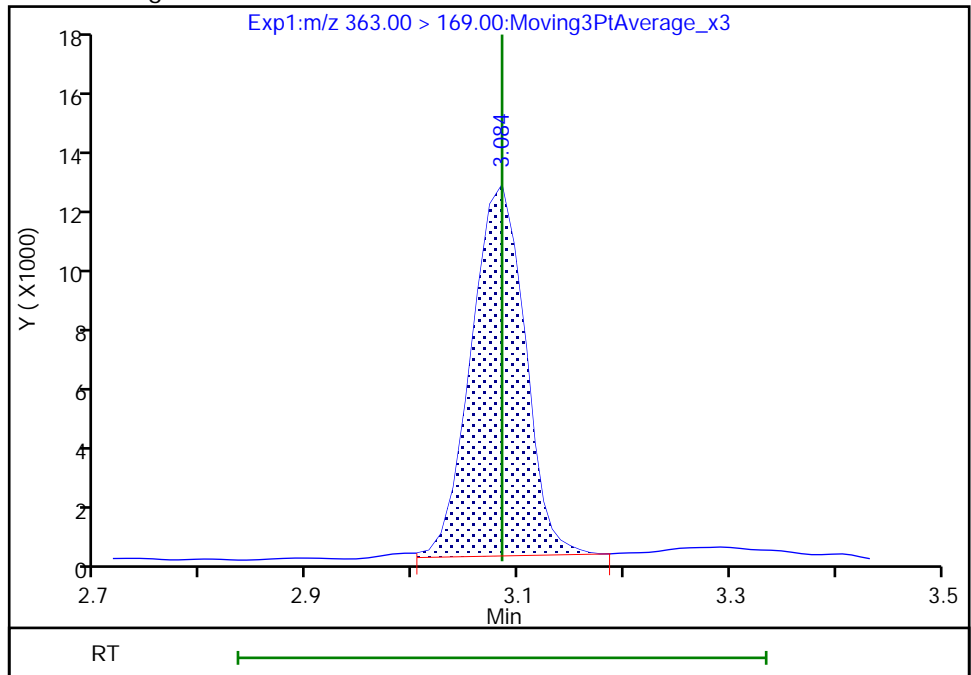
RT: 3.08  
Area: 42133  
Amount: 0.333501  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 42345  
Amount: 0.333461  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:39:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

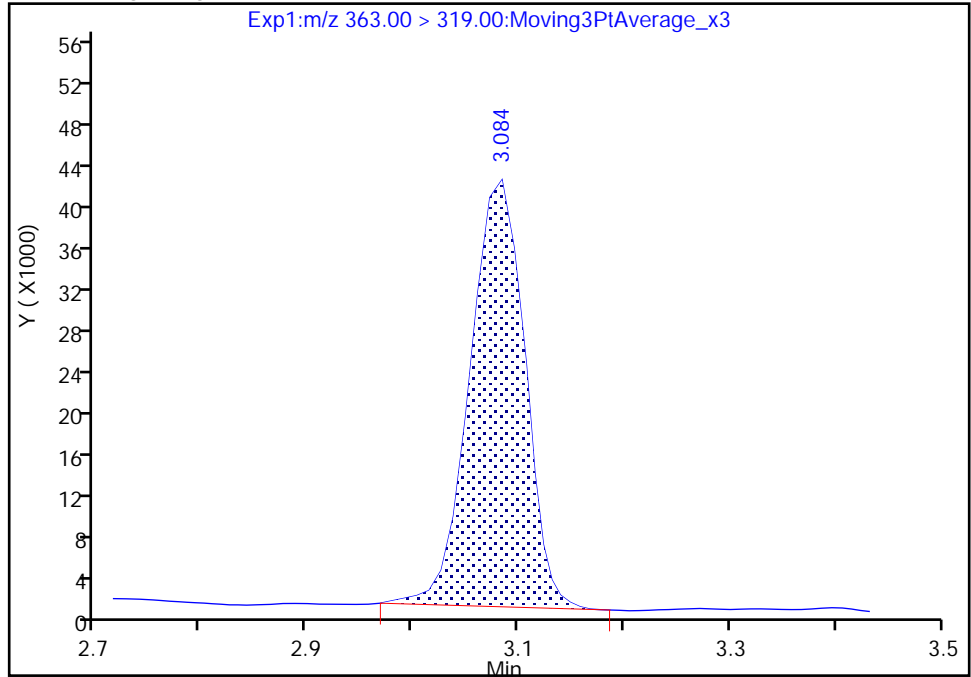
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

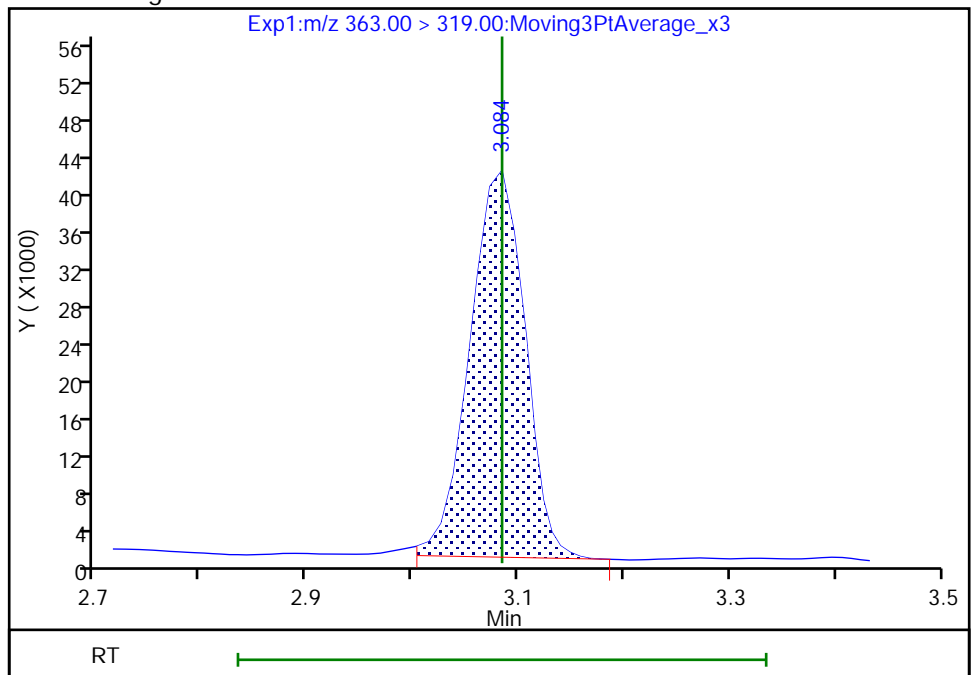
RT: 3.08  
Area: 147830  
Amount: 0.333501  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 147812  
Amount: 0.333461  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:39:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

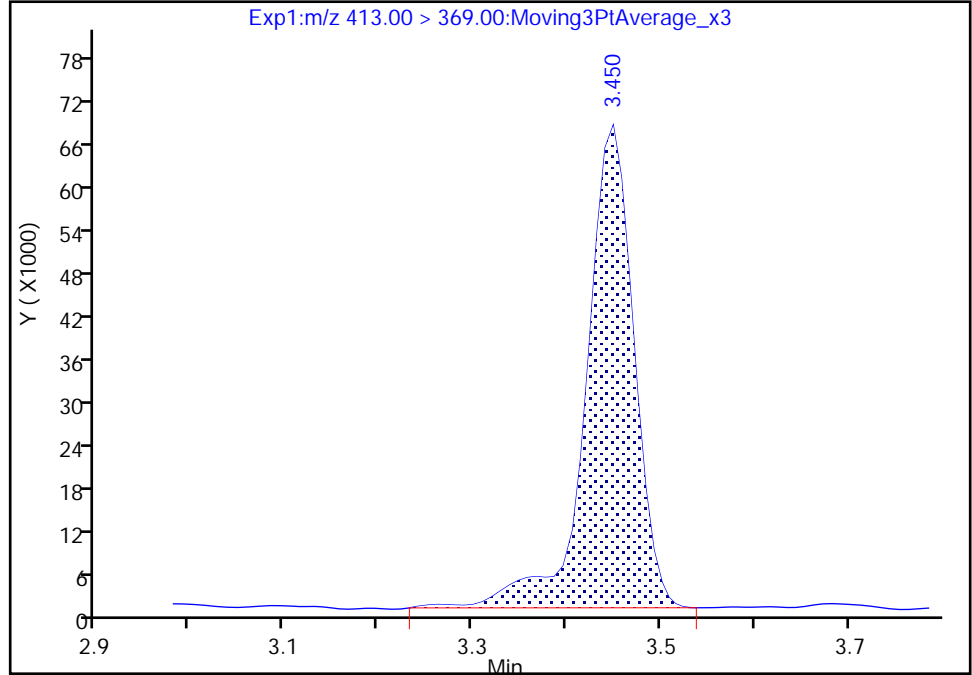
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

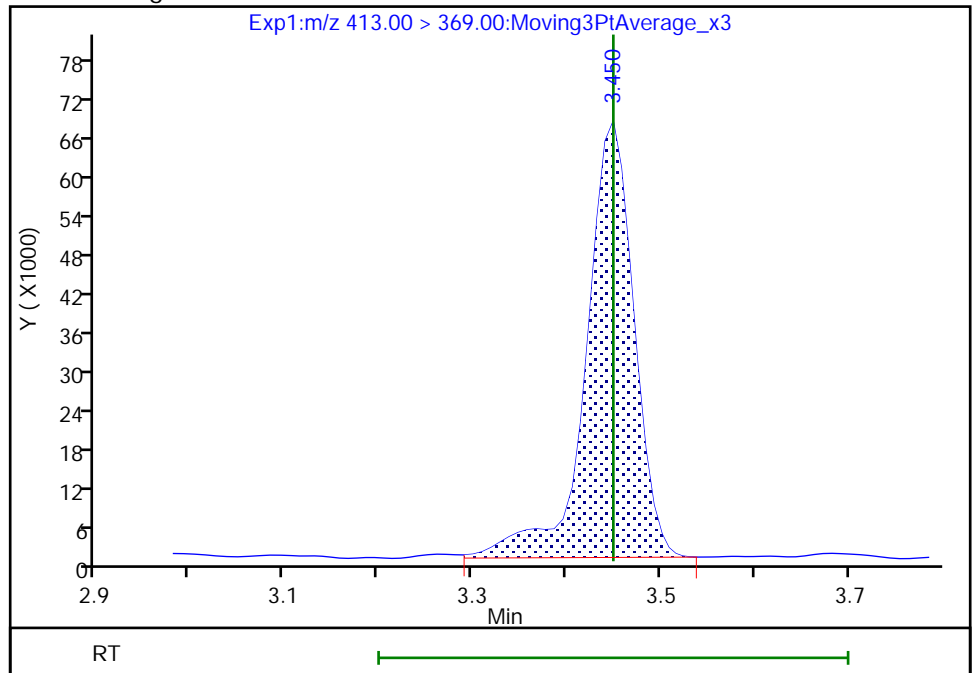
RT: 3.45  
Area: 237045  
Amount: 0.498853  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 236880  
Amount: 0.498505  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:40:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

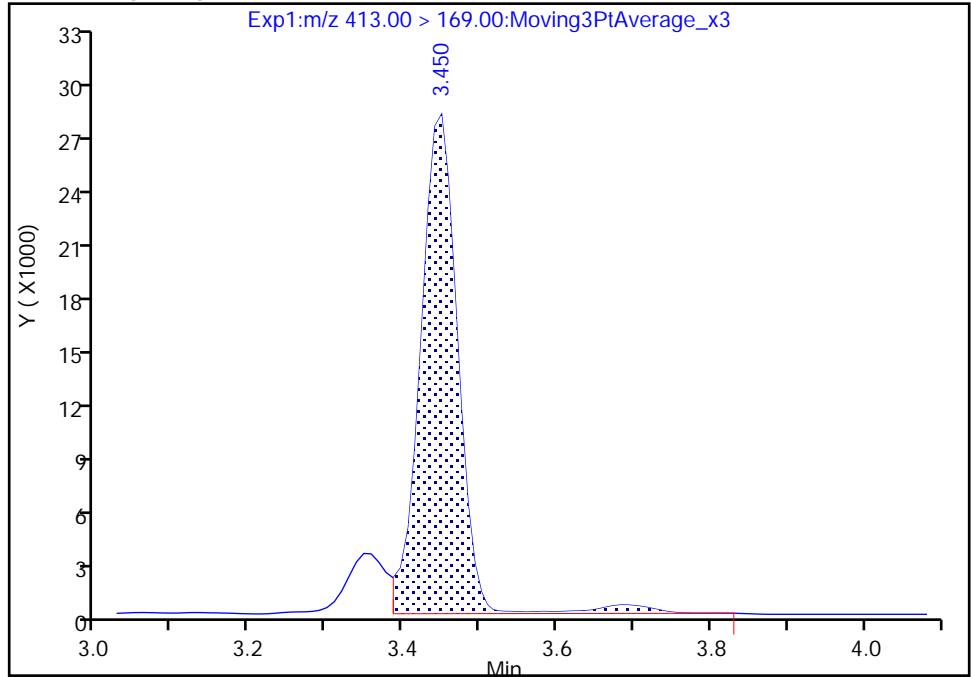
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

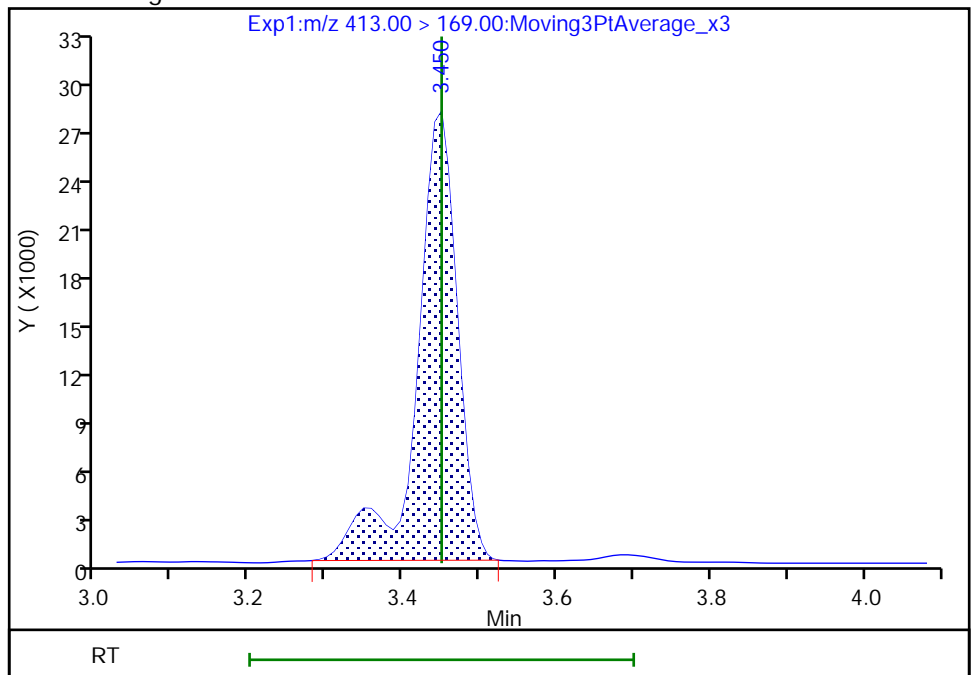
RT: 3.45  
Area: 95085  
Amount: 0.498853  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 101956  
Amount: 0.498505  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

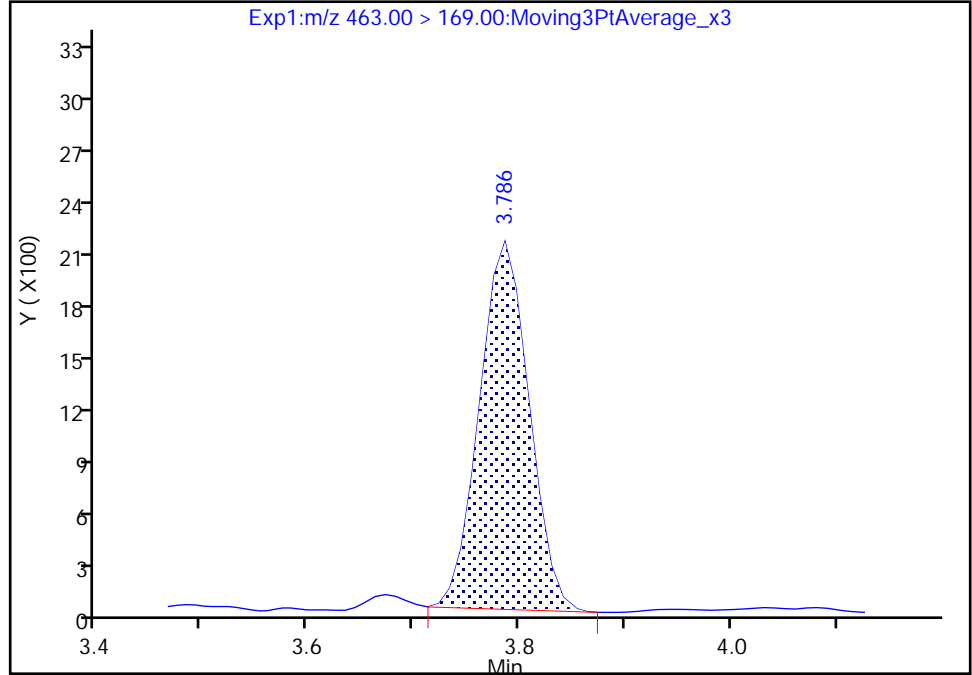
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

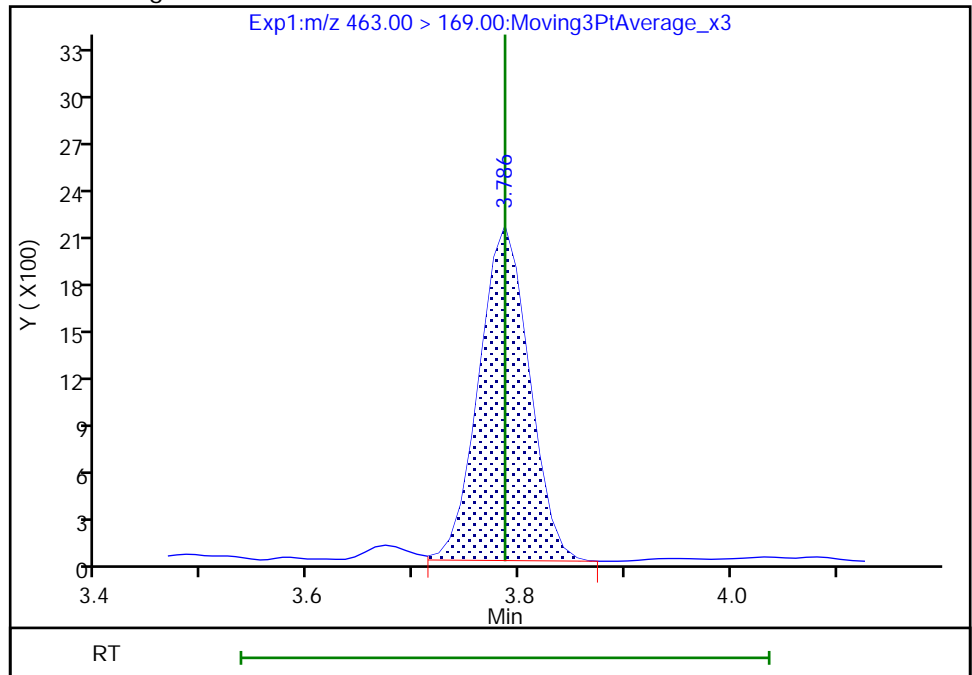
RT: 3.79  
Area: 6795  
Amount: 0.151284  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 6906  
Amount: 0.153311  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:41:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

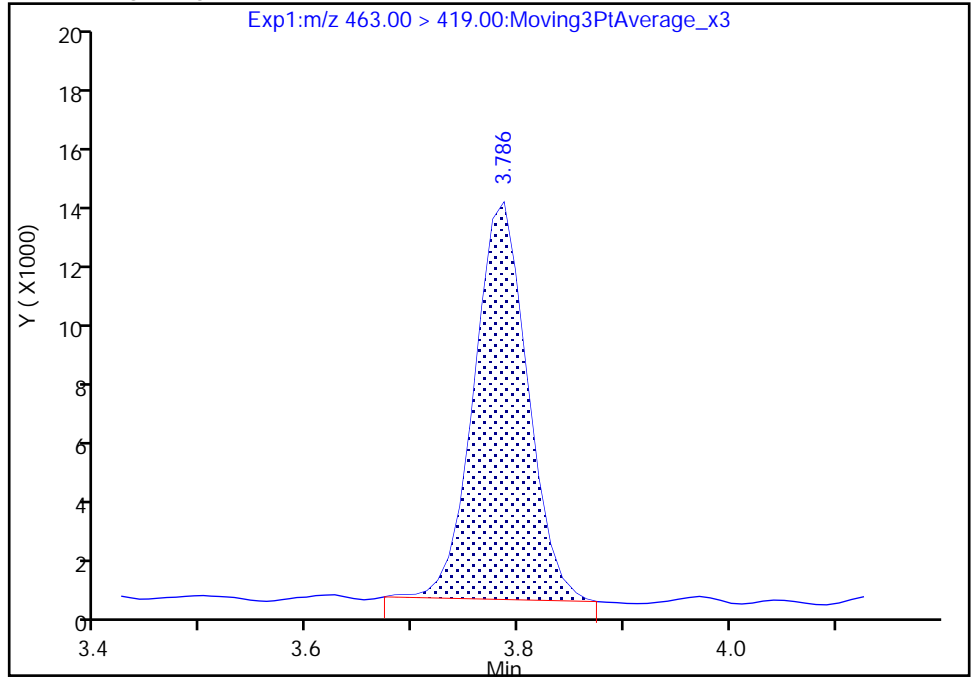
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

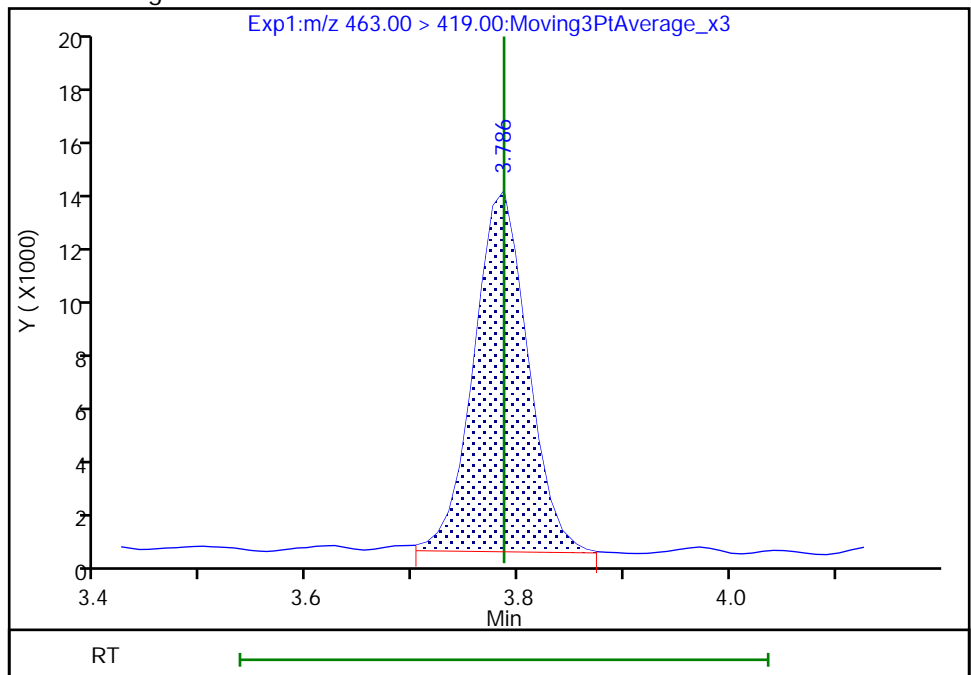
RT: 3.79  
Area: 45307  
Amount: 0.151284  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 45914  
Amount: 0.153311  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:41:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

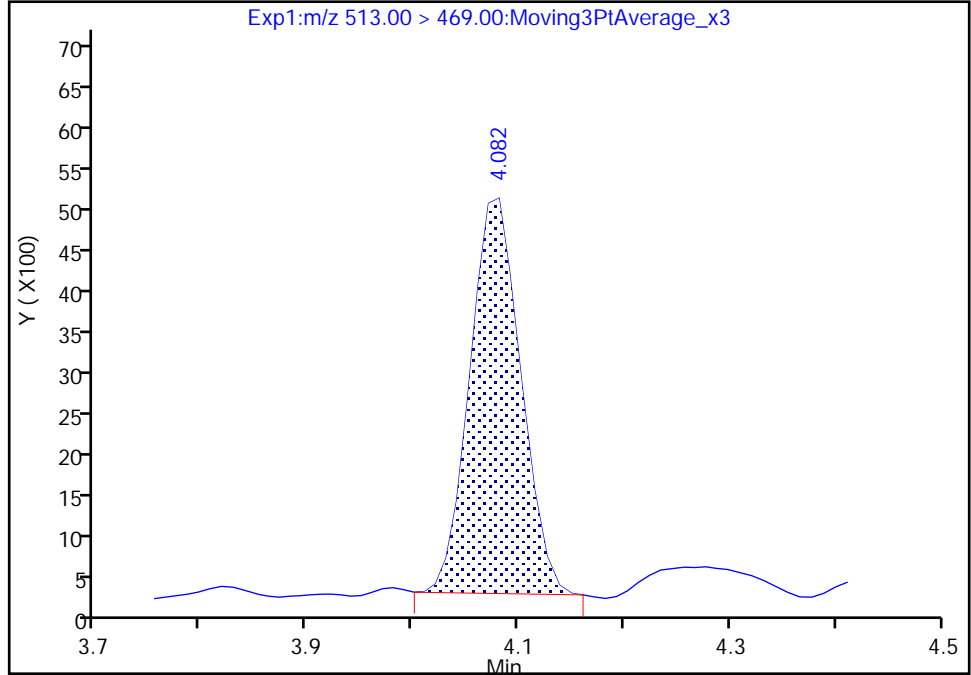
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

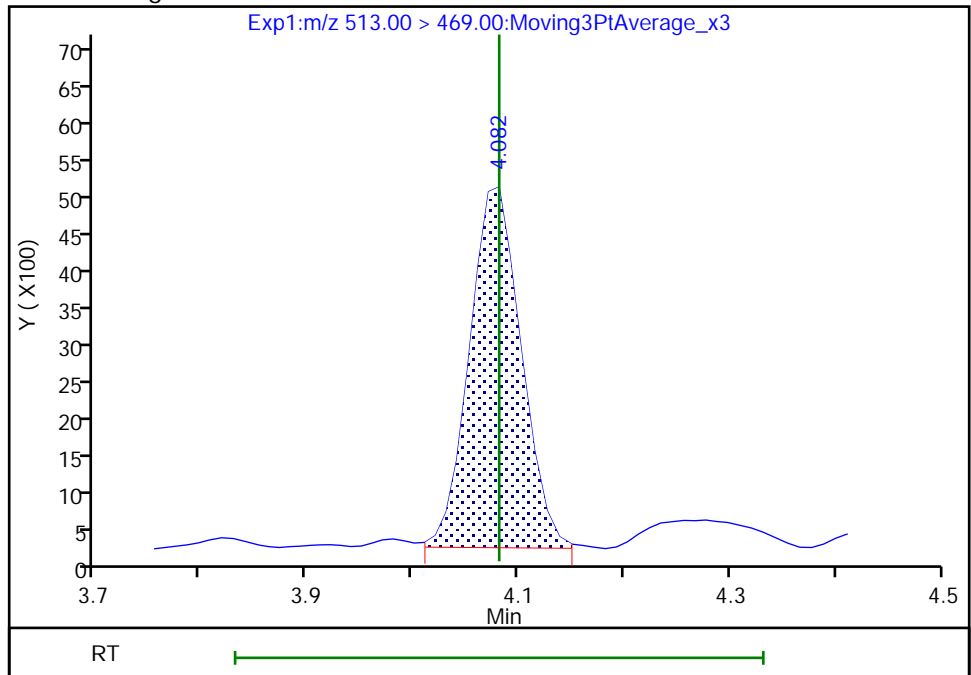
RT: 4.08  
Area: 16245  
Amount: 0.074825  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 16633  
Amount: 0.076612  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:42:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

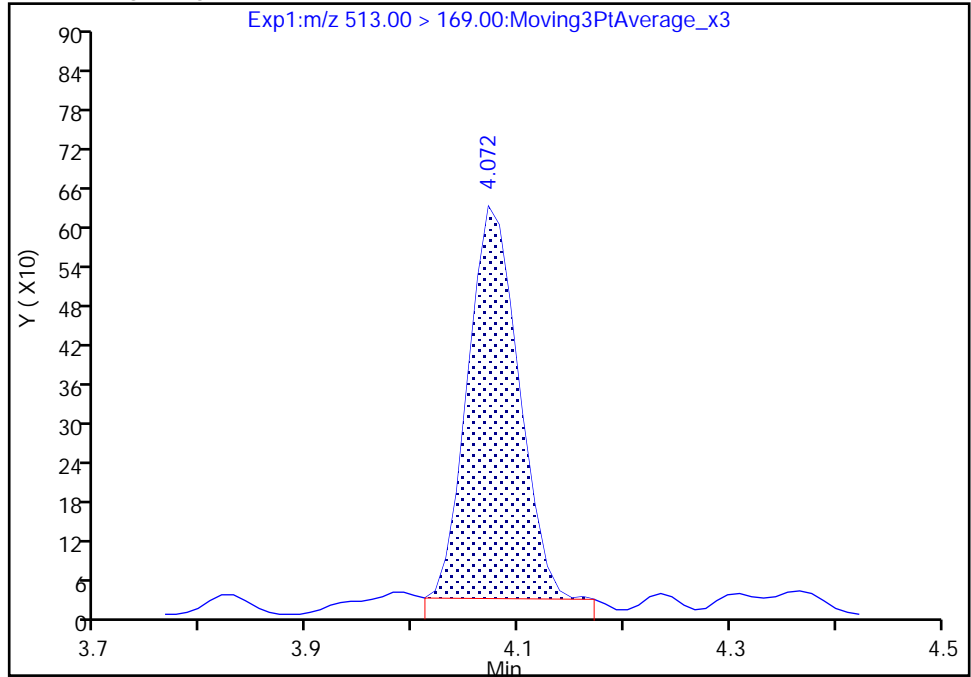
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

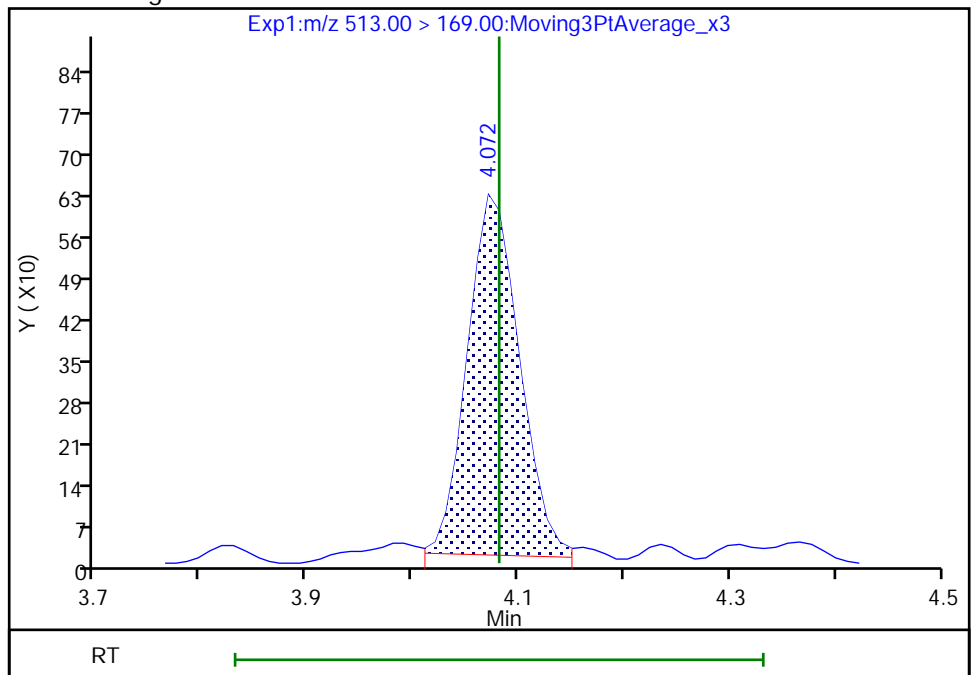
RT: 4.07  
Area: 2006  
Amount: 0.074825  
Amount Units: ng/ml

Processing Integration Results



RT: 4.07  
Area: 2091  
Amount: 0.076612  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:42:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

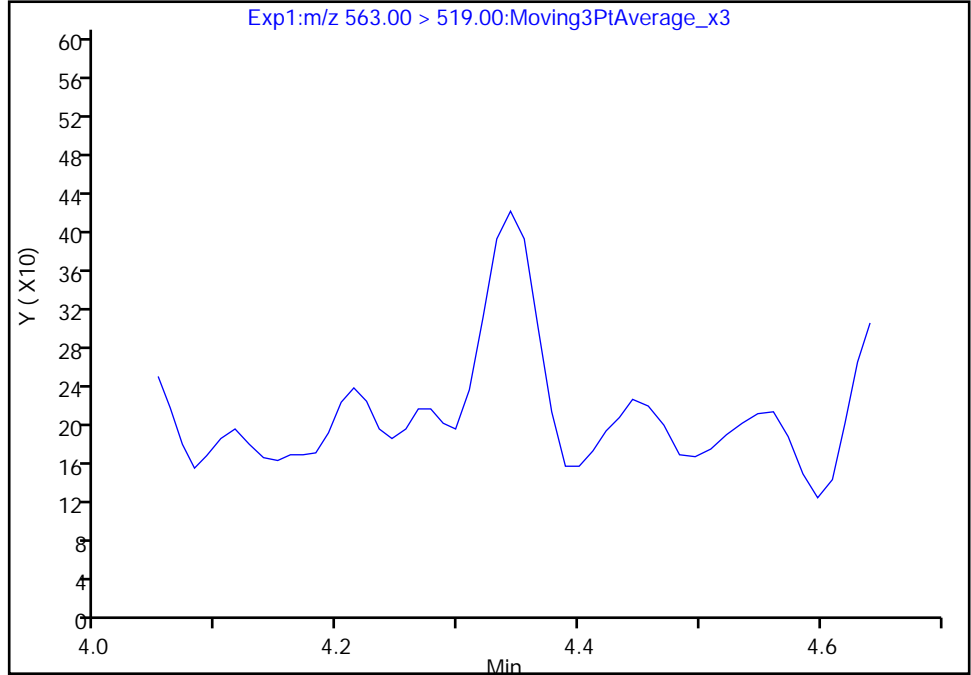
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

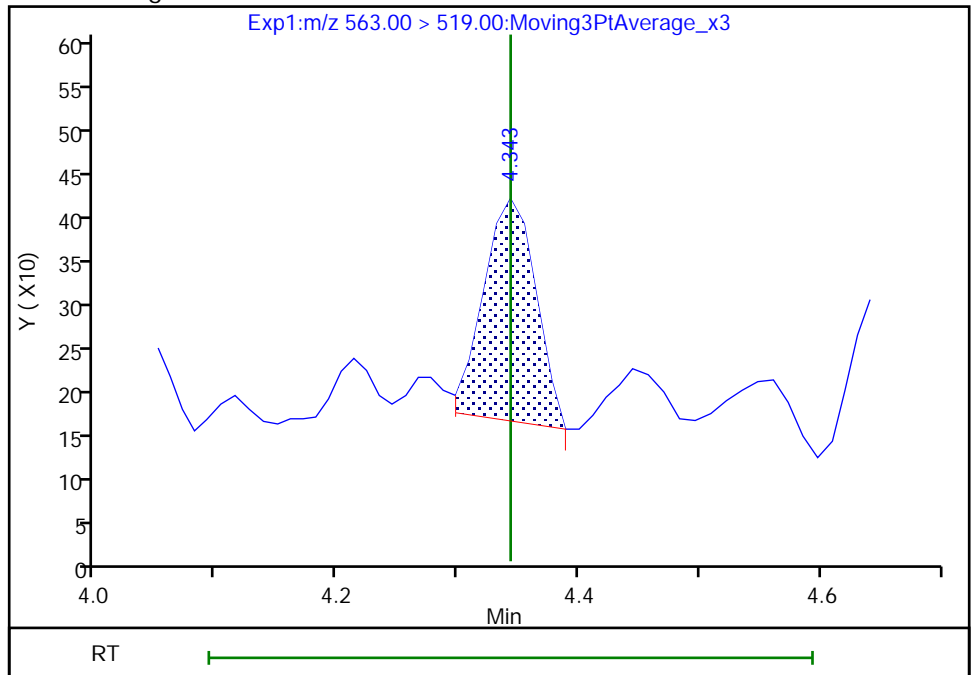
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 767  
Amount: 0.005038  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

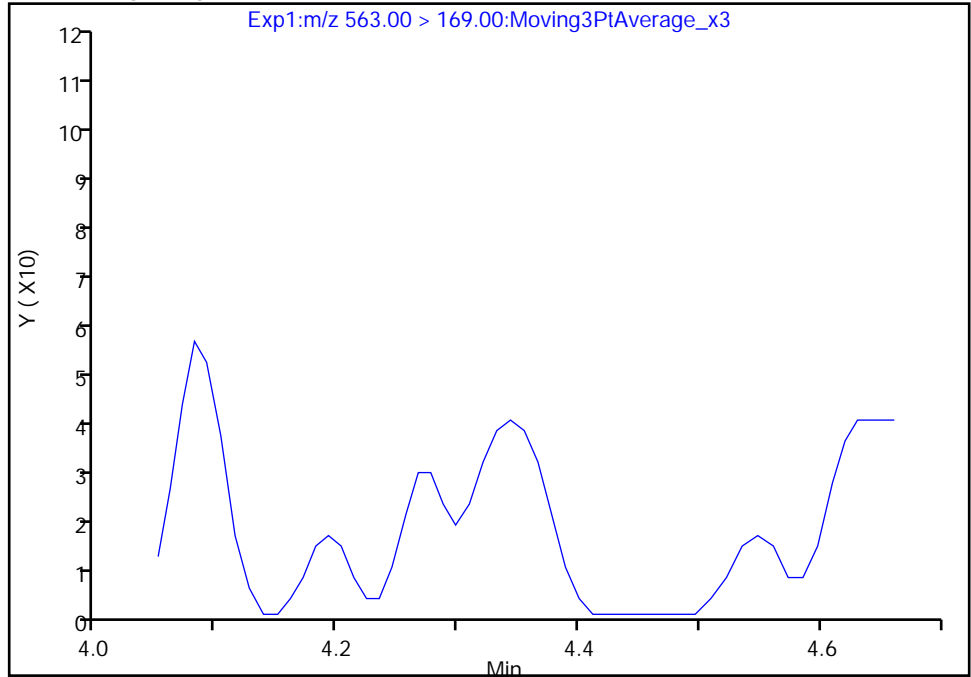
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

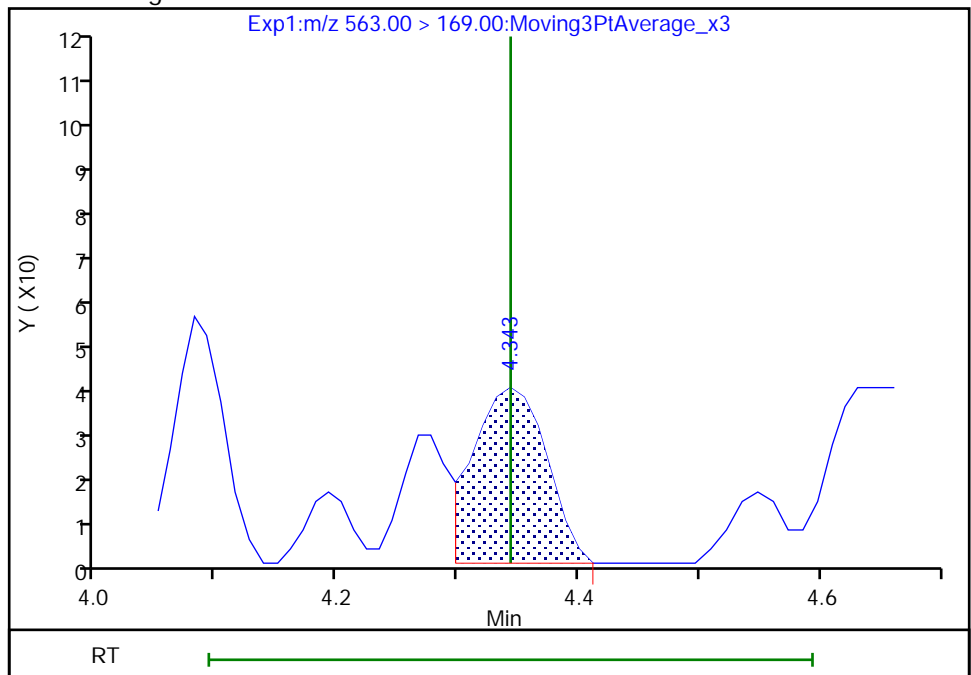
Not Detected  
Expected RT: 4.34

Processing Integration Results



RT: 4.34  
Area: 153  
Amount: 0.005038  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:43:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

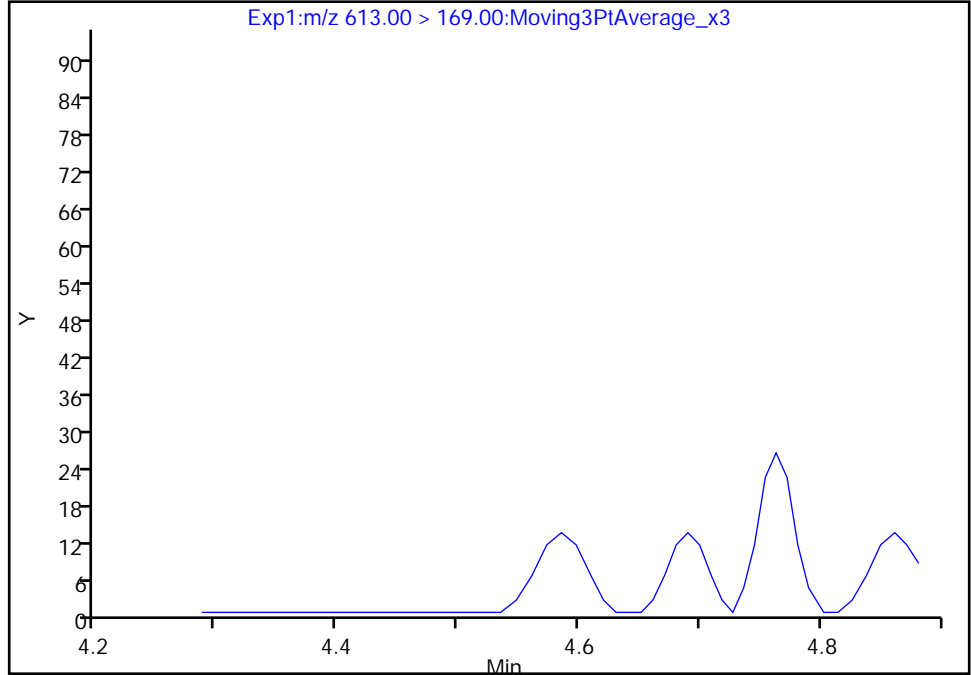
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

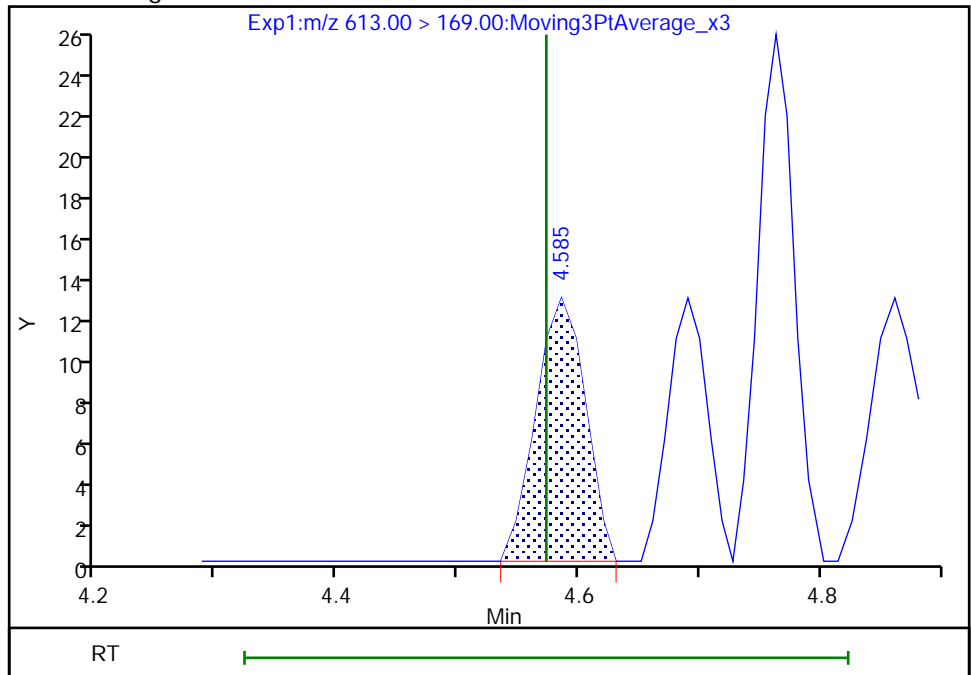
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.59  
Area: 37  
Amount: 0.001356  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:43:42  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

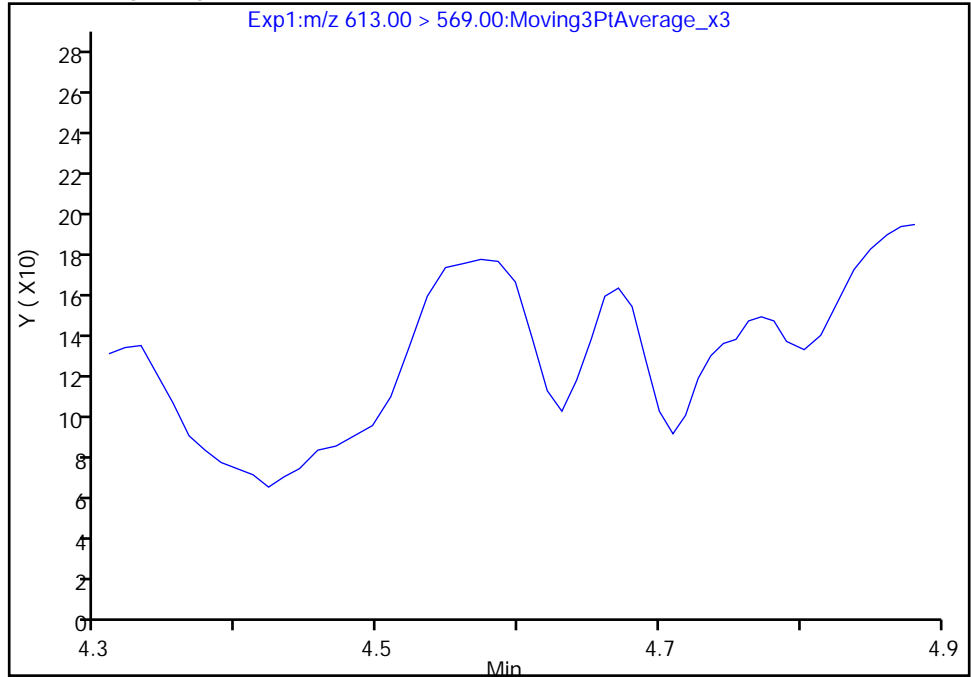
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

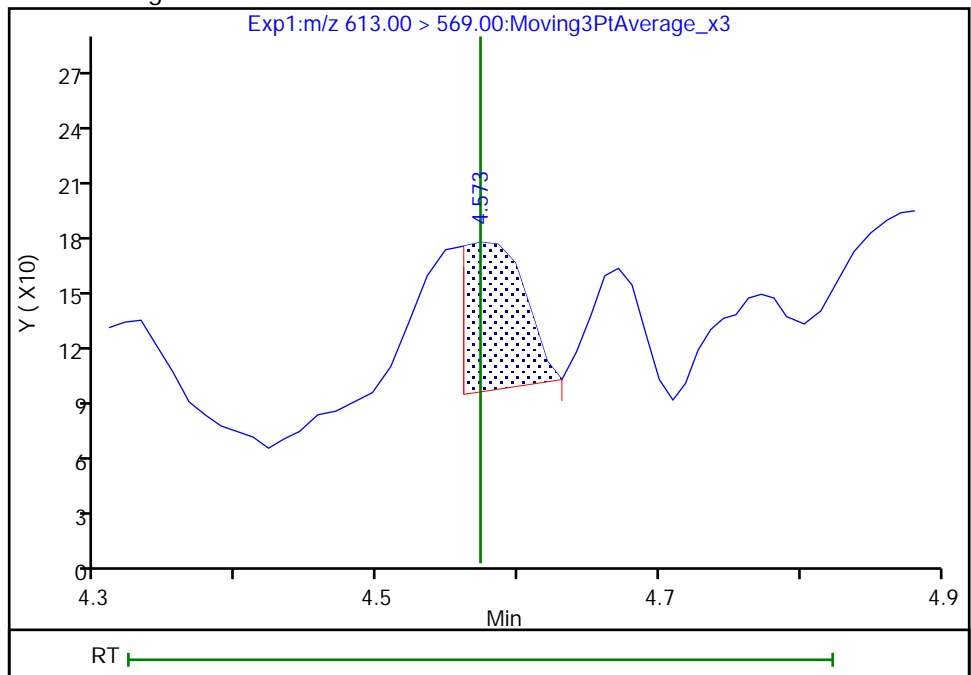
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57  
Area: 227  
Amount: 0.001356  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

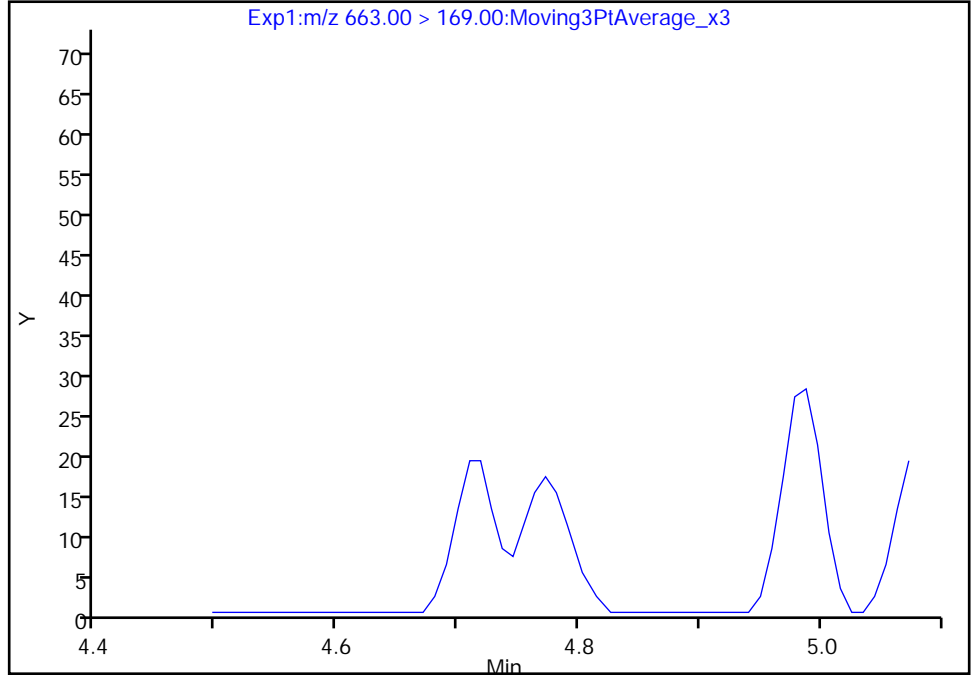
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

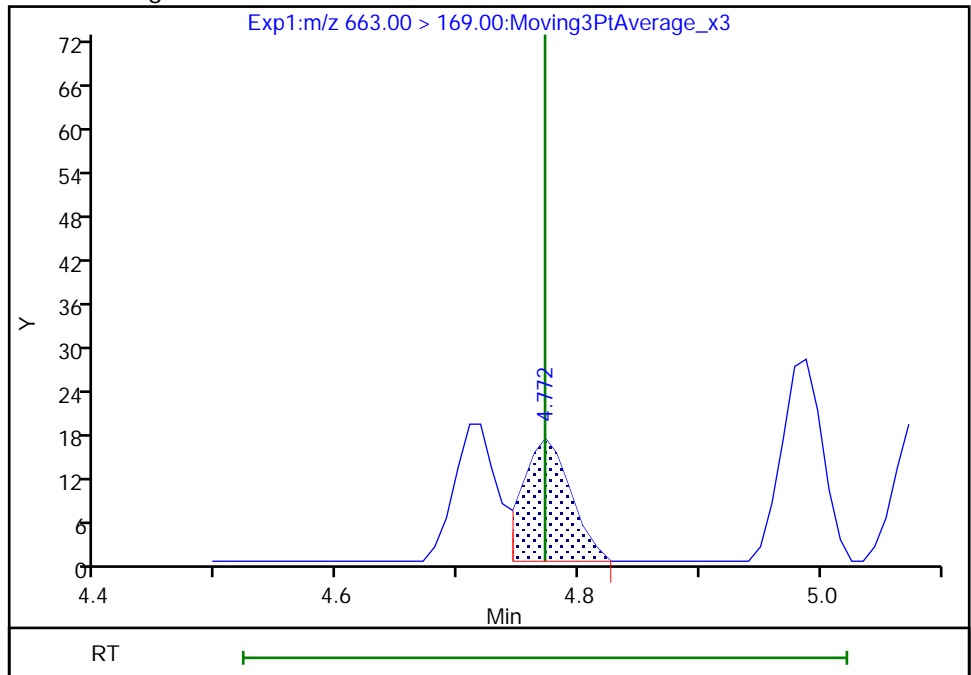
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.77  
Area: 45  
Amount: 0.001069  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:44:07  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

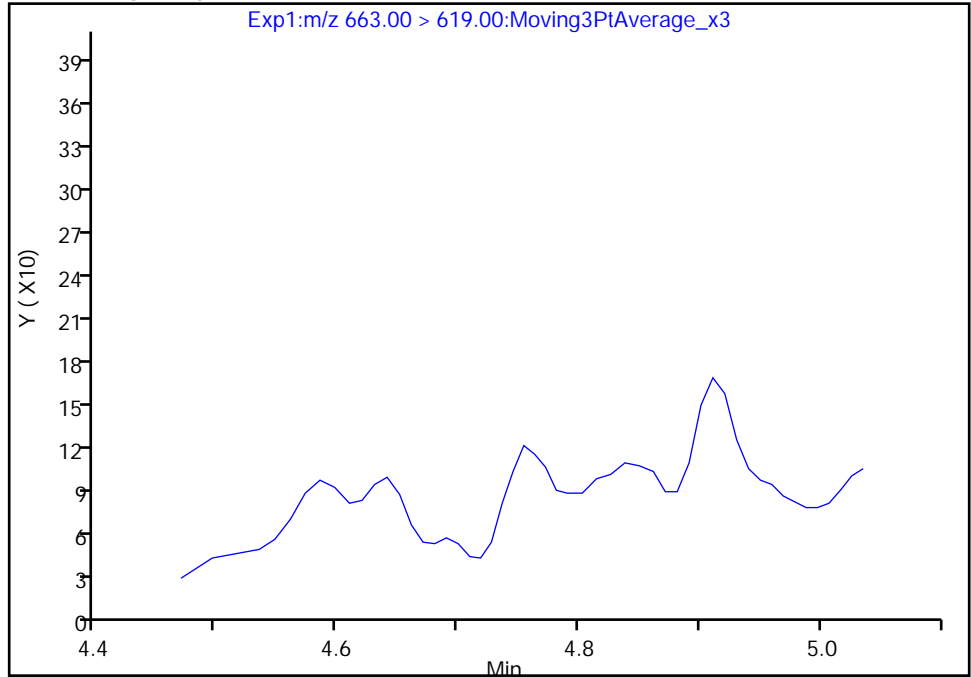
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

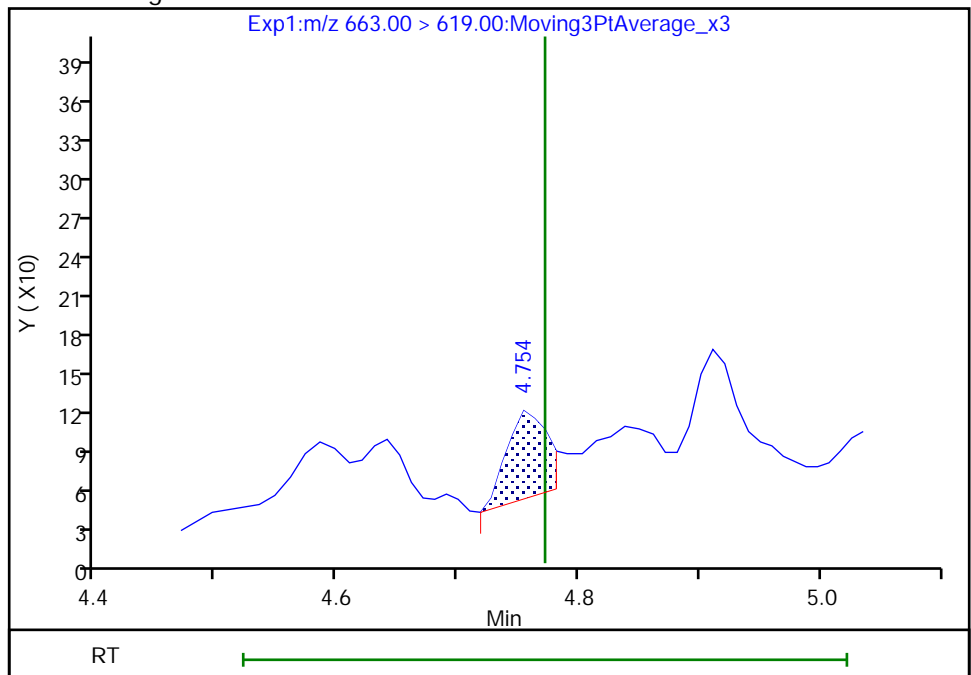
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.75  
Area: 152  
Amount: 0.001069  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:44:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

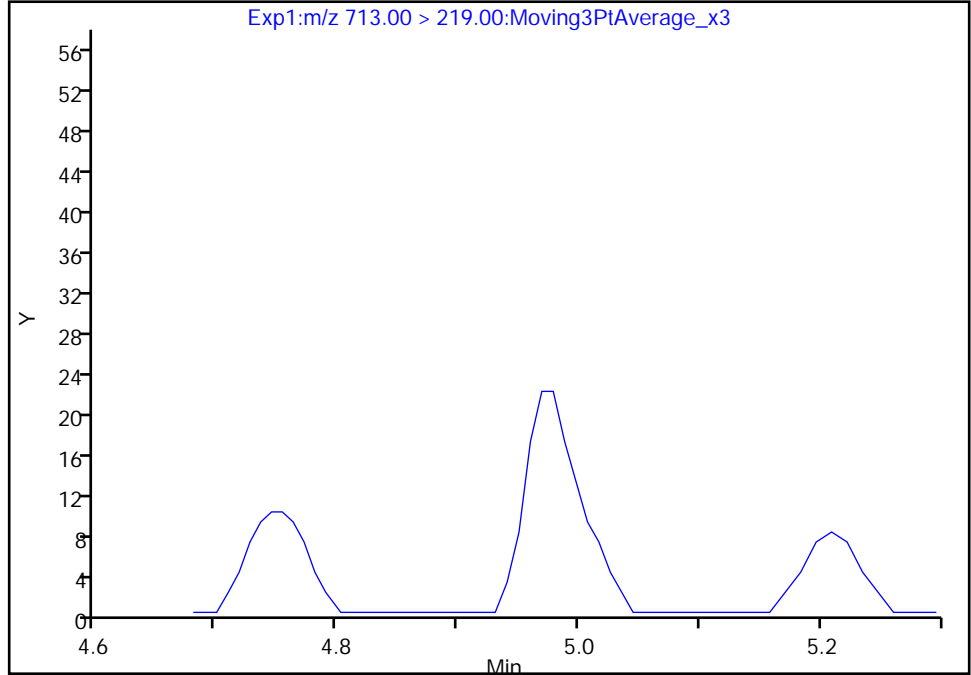
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

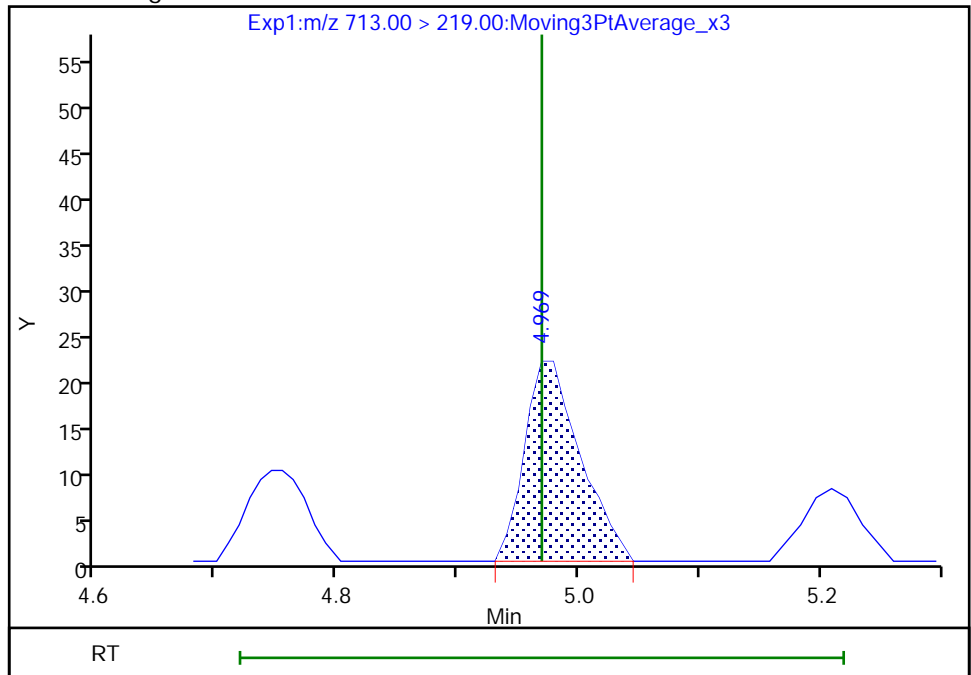
Signal: 2

Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results



RT: 4.97  
Area: 70  
Amount: 0.002140  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

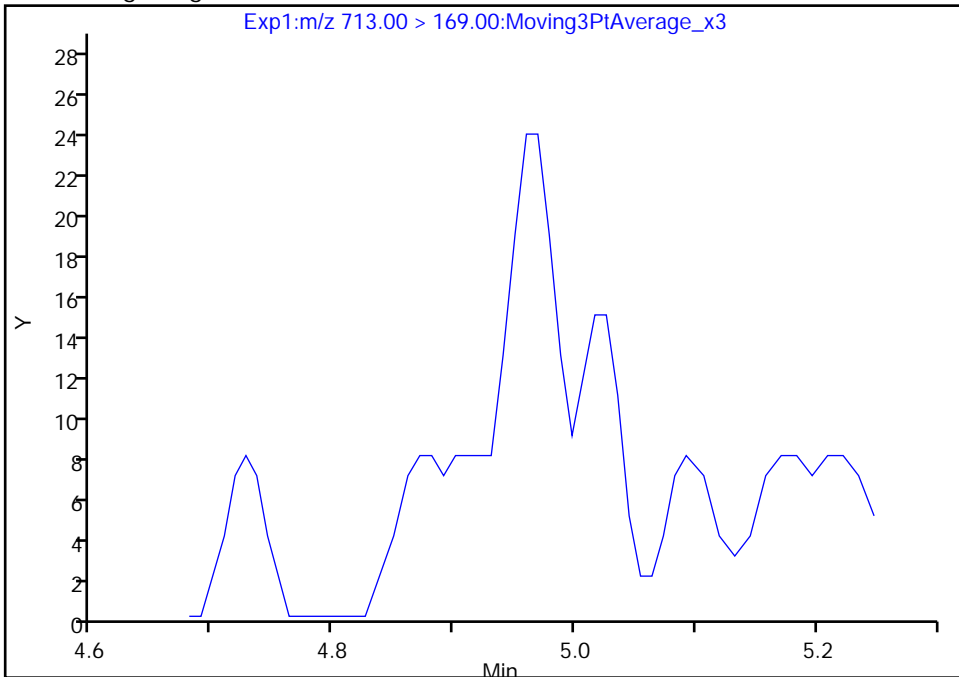
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

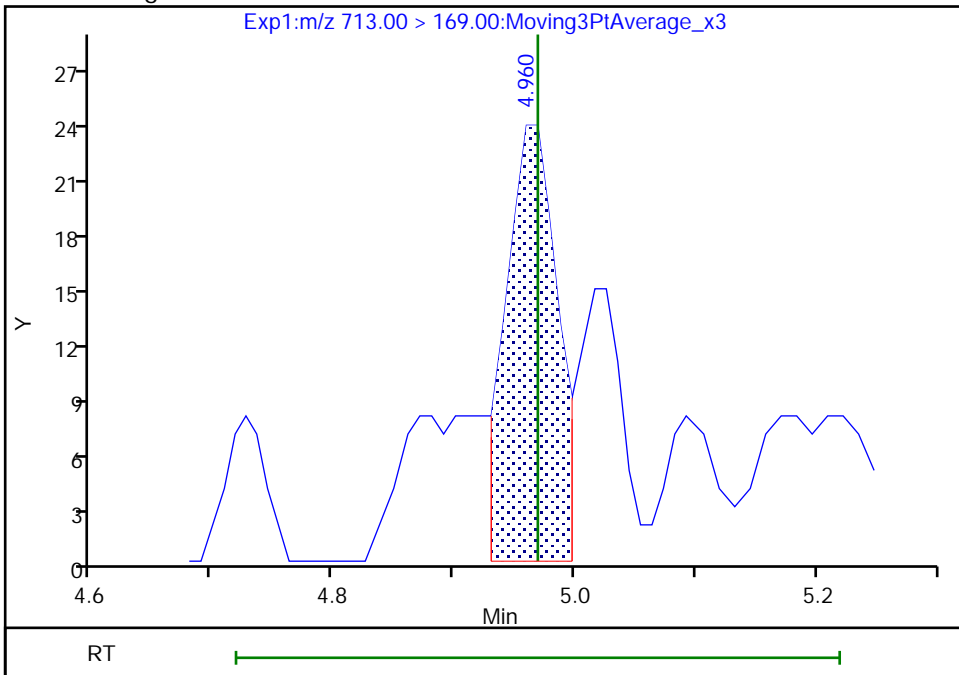
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.96  
Area: 68  
Amount: 0.002140  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

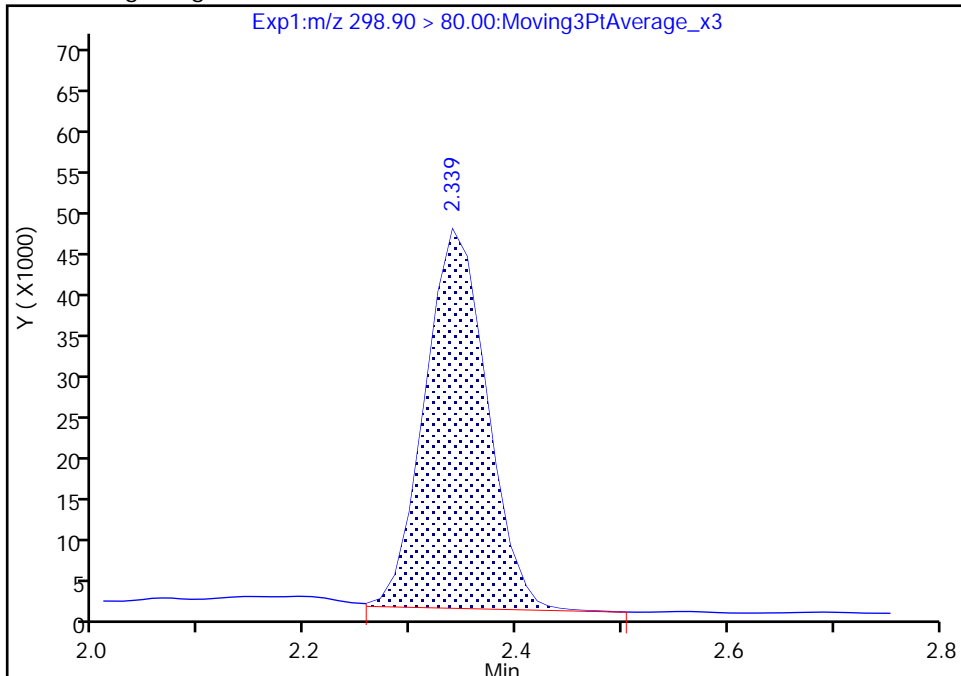
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

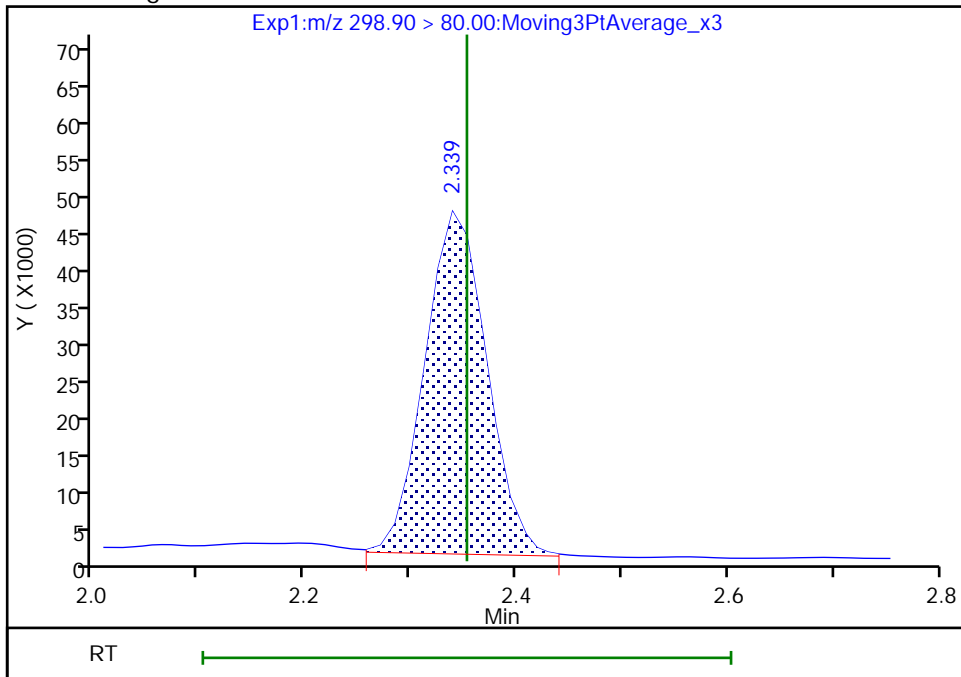
RT: 2.34  
Area: 186492  
Amount: 0.316316  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 186182  
Amount: 0.315790  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:38:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

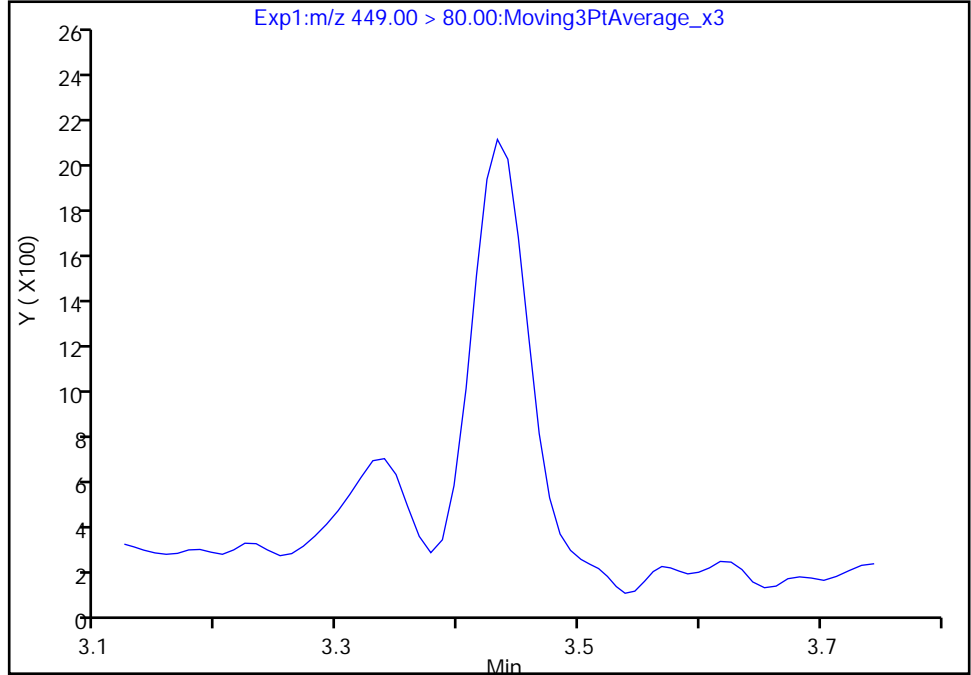
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

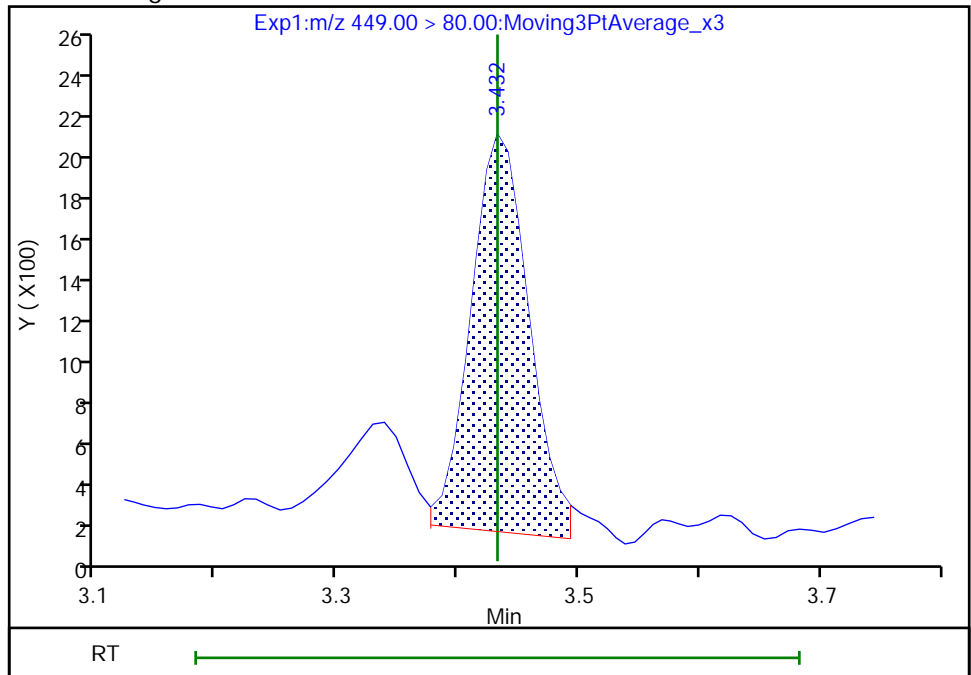
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43  
Area: 6336  
Amount: 0.024843  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:39:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

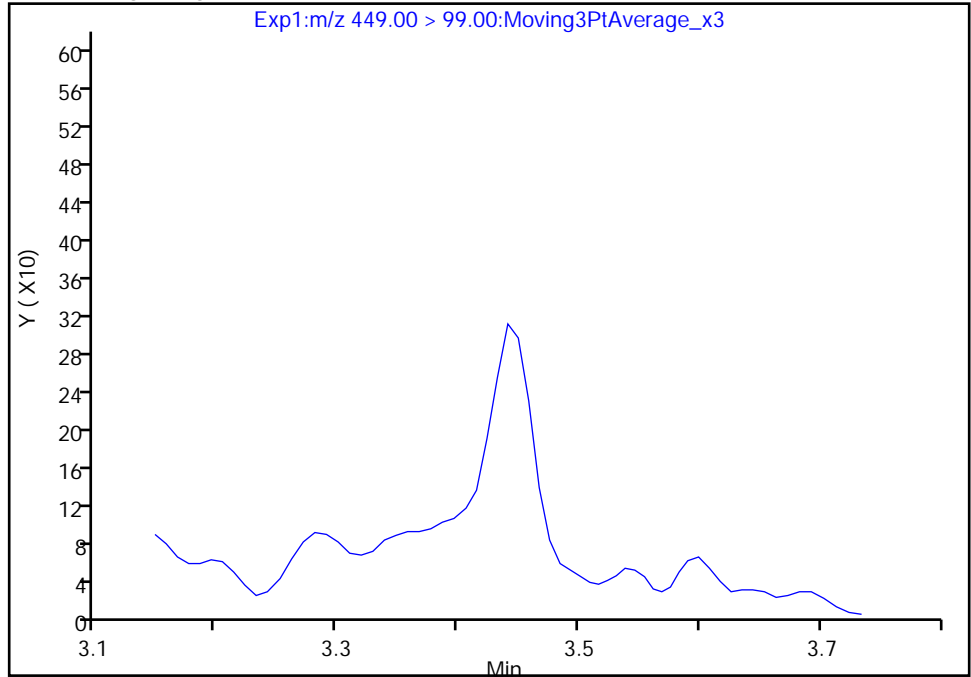
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

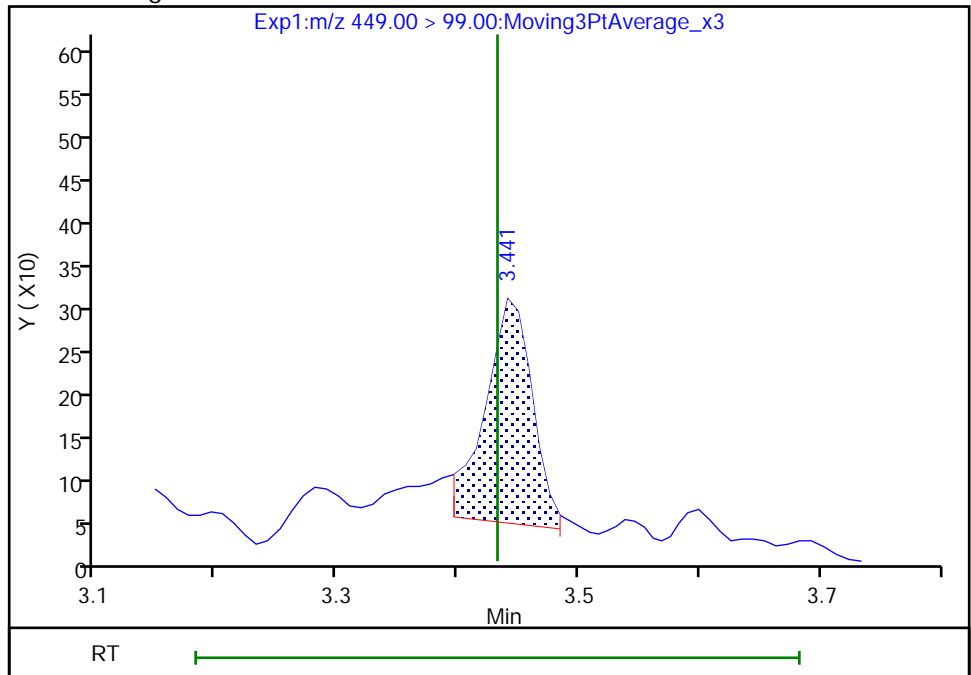
Not Detected  
Expected RT: 3.43

Processing Integration Results



RT: 3.44  
Area: 708  
Amount: 0.024843  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

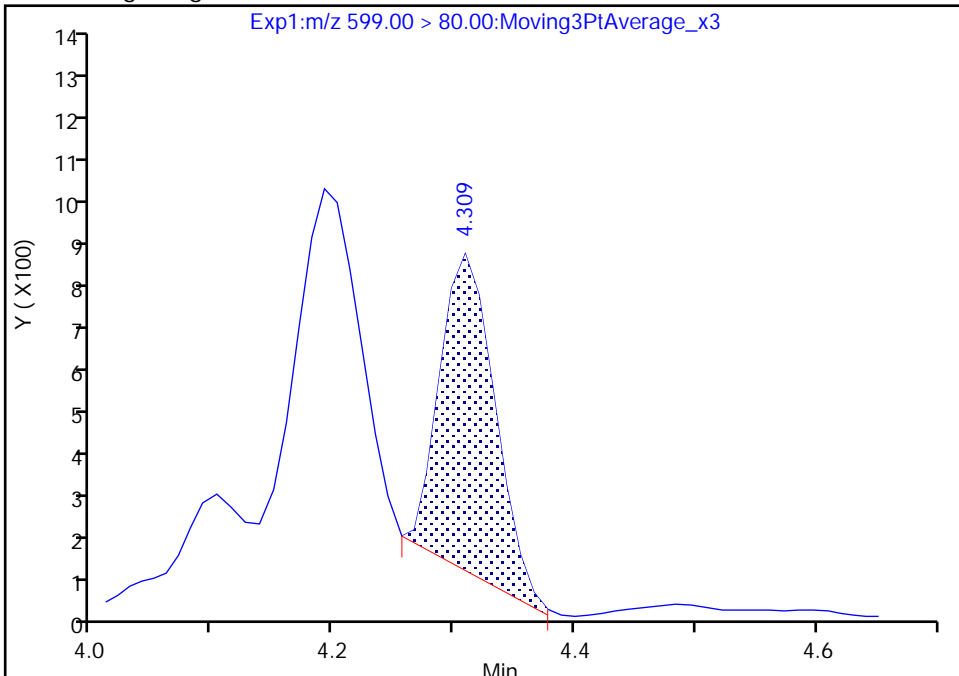
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

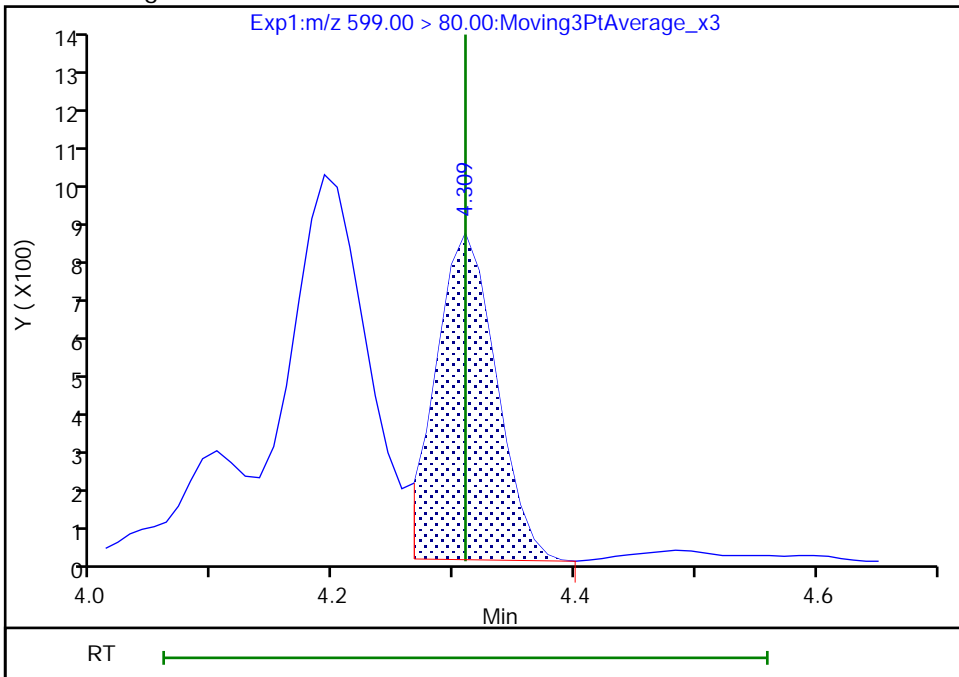
RT: 4.31  
Area: 2394  
Amount: 0.015135  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 2958  
Amount: 0.018700  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:42:57  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

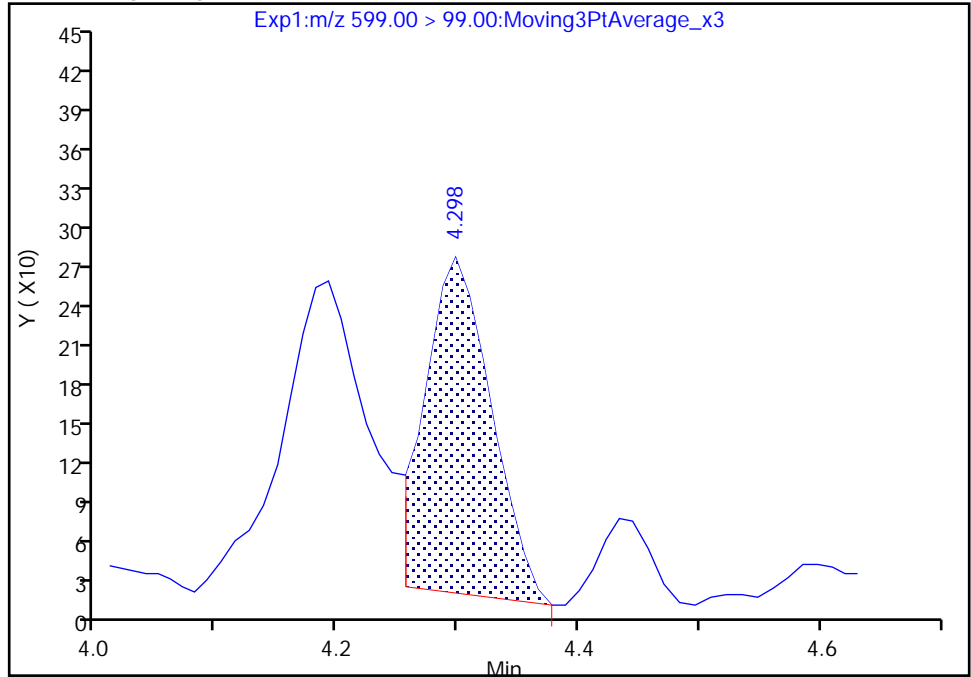
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

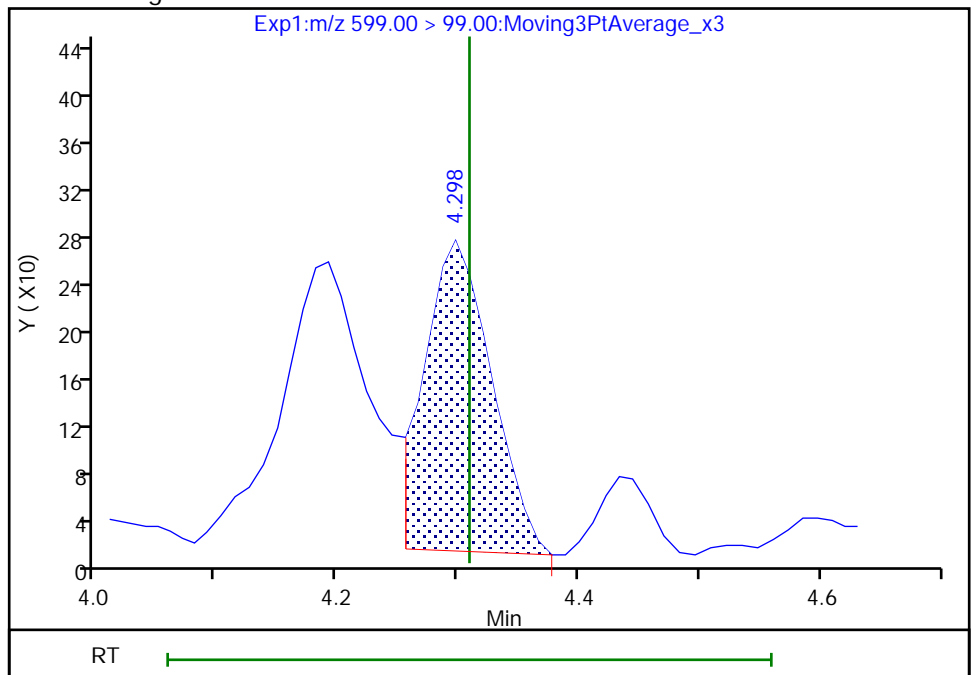
RT: 4.30  
Area: 962  
Amount: 0.015135  
Amount Units: ng/ml

Processing Integration Results



RT: 4.30  
Area: 995  
Amount: 0.018700  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:43:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

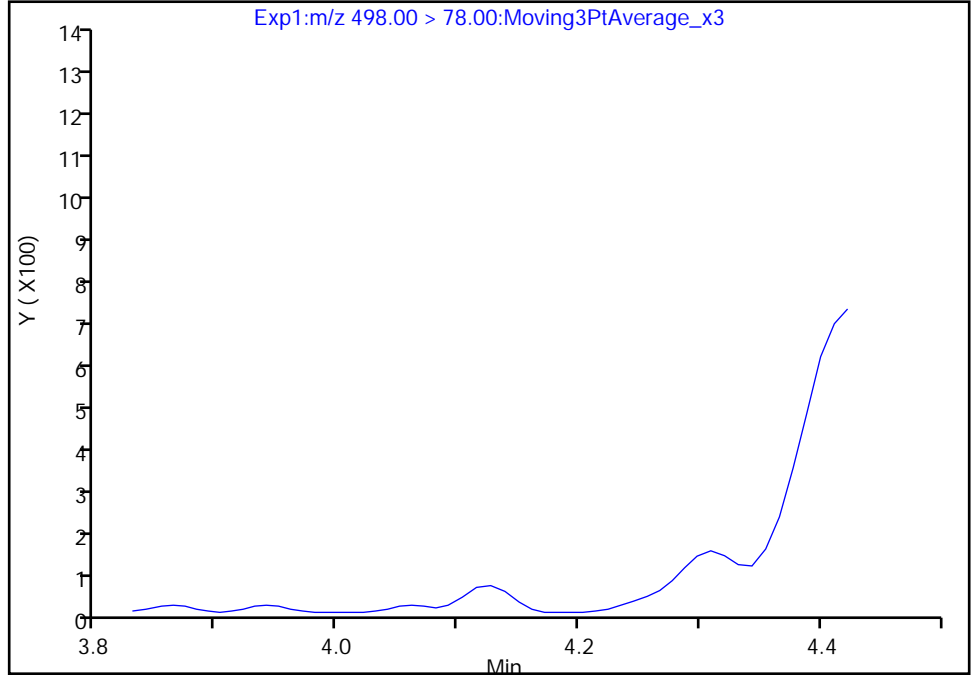
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

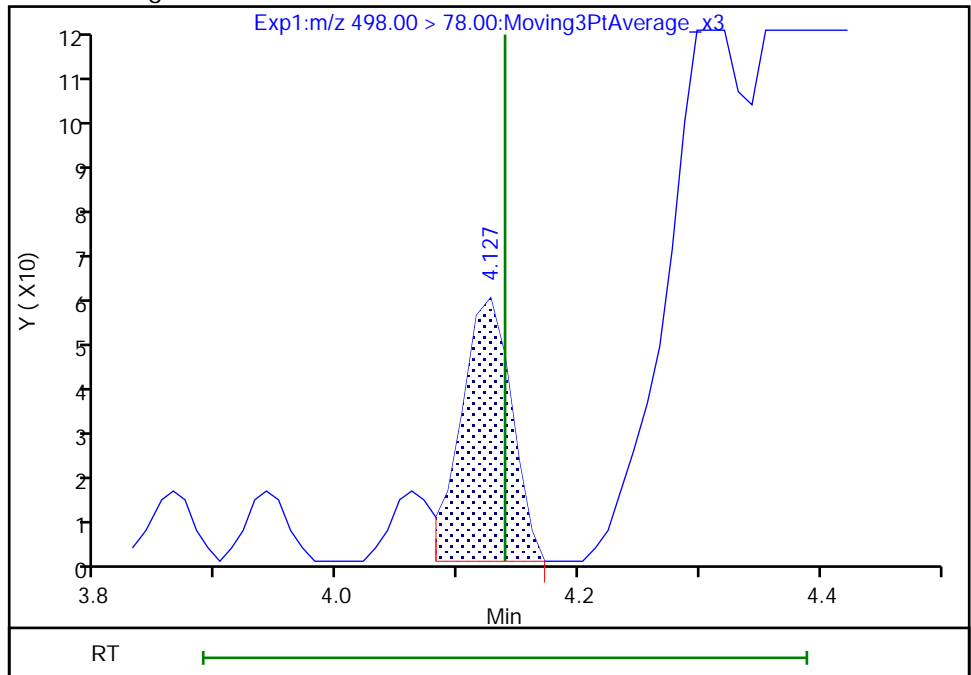
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.13  
Area: 172  
Amount: 0.000594  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:42:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

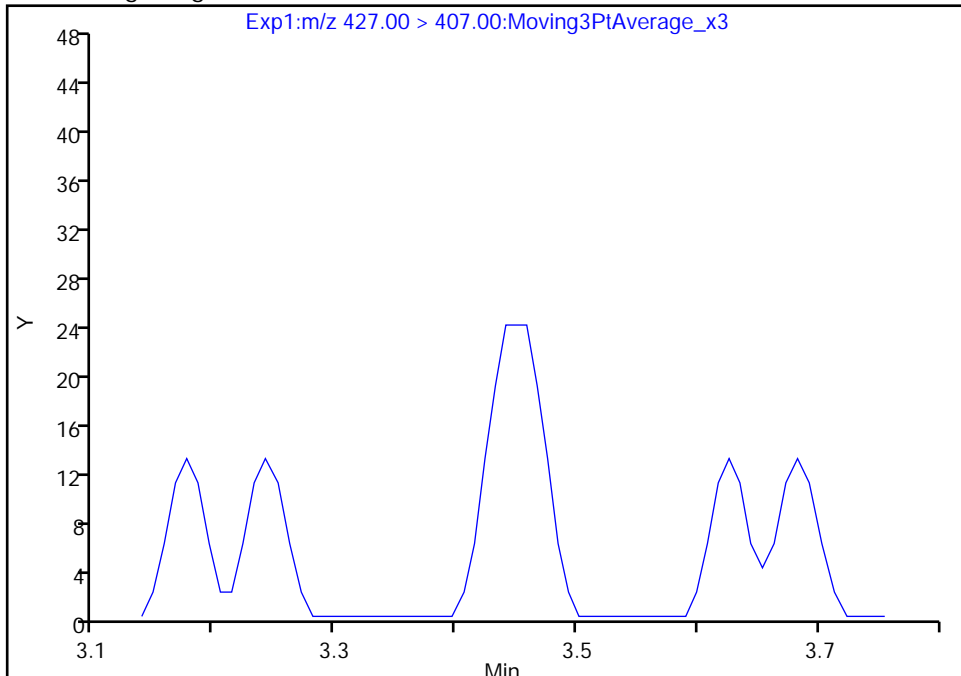
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B18.d  
Injection Date: 30-Sep-2020 20:35:19 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 18 Worklist Smp#: 18  
Injection Vol: 20.0 ul Dil. 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

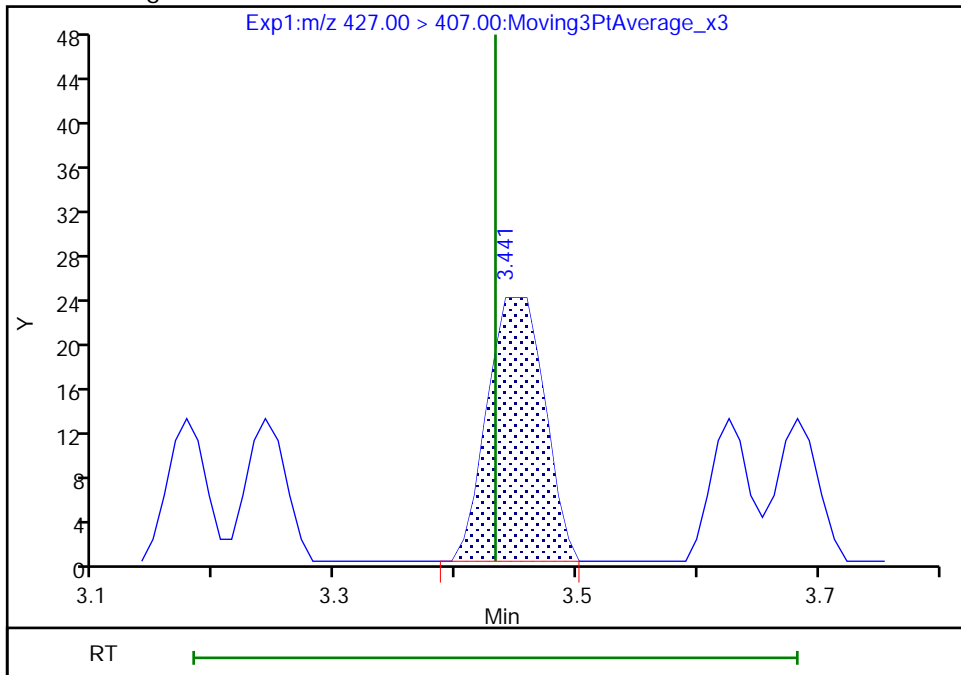
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 78  
Amount: 0.001712  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:39:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3 Lab Sample ID: 480-175657-2  
 Matrix: Water Lab File ID: PA201001A39.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 13:05  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 302.5 (mL) Date Analyzed: 10/01/2020 23:18  
 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.: 159470 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.9		1.7	0.55
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	54		1.7	0.72

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	87		50-150
STL00991	13C4 PFOS	58		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A39.d  
 Lims ID: 480-175657-C-2-A  
 Client ID: MW-3  
 Sample Type: Client  
 Inject. Date: 01-Oct-2020 23:18:29 ALS Bottle#: 36 Worklist Smp#: 39  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-2-A  
 Misc. Info.: 200-0043055-039 Plate: 1 Rack: 1  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 02-Oct-2020 15:16:34 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: CTX1005

First Level Reviewer: manopan Date: 02-Oct-2020 14:03:23  
 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	1.990	0.0	0.575	613666	0.8370	67.0	8021	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	2.000	-0.010	1.000	167979	0.3661		51.3		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.672	538990	1.03	82.1	2027	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	412257	0.9053		21.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.353	-0.014	0.676	619399	0.9679	83.3	26283	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.353	0.0	1.006	176237	0.3320	Target=2.07	16.6		M
298.90 > 99.00	2.353	2.353	0.0	1.006	87703		2.01(1.04-3.11)	49.3		M
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.782	600963	1.11	88.8	2888	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	280726	0.5799	Target=12.44	29.3		M
313.00 > 119.00	2.703	2.703	0.0	1.000	23982		11.71(6.22-18.66)	35.0		M
D 11 18O2 PFHxS	403.00 > 84.00	3.084	3.085	0.0	0.892	472761	1.03	87.1	2733	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.085	0.0	1.000	52247	0.1183	Target=4.60	16.9		M
399.00 > 99.00	3.084	3.085	0.0	1.000	11853		4.41(2.30-6.91)	21.3		M
D 9 13C4 PFHpA	367.00 > 322.00	3.084	3.085	0.0	0.892	523092	1.06	85.0	2242	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.085	0.0	1.000	130805	0.3119	Target=3.34	23.8		M
363.00 > 169.00	3.084	3.085	0.0	1.000	41406		3.16(1.67-5.01)	93.5		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.441	0.0	0.912	5530	0.0219	Target=7.08	5.5		M
449.00 > 99.00	3.441	3.441	0.0	0.912	532		10.39(3.54-10.63)	4.1		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.458	3.450	0.008	1.003	177	0.004095		8.1		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.450	0.0	0.997	64316	1.05		88.3	73.0	
D 14 13C4 PFOA										
417.00 > 372.00	3.458	3.459	-0.001	1.000	507337	1.01		80.6	3207	
* 62 13C2 PFOA										
415.00 > 370.00	3.458	3.459	-0.001		639578	1.25		2972		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.458	3.459	-0.001	1.000	233456	0.5571	Target=2.29	66.0		M
413.00 > 169.00	3.458	3.459	-0.001	1.000	101840		2.29(1.14-3.43)	219		M
D 18 13C4 PFOS										
503.00 > 80.00	3.775	3.766	0.009	1.092	260732	0.6942		58.1	385	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.775	3.776	-0.001	1.000	384002	1.62	Target=7.10	364		M
499.00 > 99.00	3.764	3.776	-0.012	0.997	48776		7.87(3.55-10.64)	201		M
D 19 13C5 PFNA										
468.00 > 423.00	3.796	3.786	0.010	1.098	349615	0.8236		65.9	4568	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.796	3.797	-0.001	1.000	38052	0.1336	Target=5.83	15.2		M
463.00 > 169.00	3.796	3.797	-0.001	1.000	6180		6.16(2.91-8.74)	87.0		M
D 23 13C2 PFDA										
515.00 > 470.00	4.091	4.092	-0.001	1.183	268092	0.6586		52.7	4138	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.091	4.092	-0.001	1.000	15276	0.0720	Target=6.81	20.3		M
513.00 > 169.00	4.081	4.092	-0.011	0.998	1669		9.15(3.41-10.22)	25.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.103	4.092	0.011	1.186	41952	0.5804		48.5	226	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.151	-0.001	1.200	391653	0.5971		47.8	2146	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.151	-0.001	1.000	209	0.000714		0.9		M
D 27 d3-NMeFOSAA										M
573.00 > 419.00	4.235	4.235	0.0	1.225	13193	0.5693		45.5	198	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.321	4.321	0.0	1.145	2101	0.0134	Target=3.31	5.2		M
599.00 > 99.00	4.310	4.321	-0.011	1.142	1089		1.93(1.66-4.97)	5.7		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.259	176106	0.5731		45.8	2652	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.355	4.355	0.0	1.000	605	0.004354	Target=6.57	0.8		RM
563.00 > 169.00	4.355	4.355	0.0	1.000	286		2.12(3.28-9.85)	6.9		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.263	15331	0.6154		49.2	391	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 36 13C2 PFDaA										
615.00 > 570.00	4.585	4.585	0.0	1.326	201081	0.6191		49.5	2490	
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.802	4.790	0.012	1.047	158	0.001186	Target=3.30		0.4	RM
663.00 > 169.00	4.802	4.790	0.012	1.047	145		1.09(1.65-4.95)		5.3	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.988	0.0	1.442	164070	0.7092		56.7	2720	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	5.007	4.988	0.019	1.004	38	0.001264	Target=1.06		3.0	M
713.00 > 219.00	4.997	4.988	0.009	1.002	69		0.55(0.53-1.59)		4.8	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\20201001-43055.b\PA201001A39.d

Injection Date: 01-Oct-2020 23:18:29

Instrument ID: LC812

Lims ID: 480-175657-C-2-A

Lab Sample ID: 200-175657-2

Client ID: MW-3

Operator ID: lc812tech

ALS Bottle#: 36

Worklist Smp#: 39

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

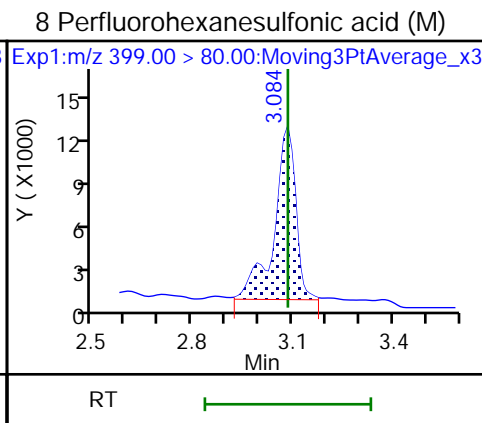
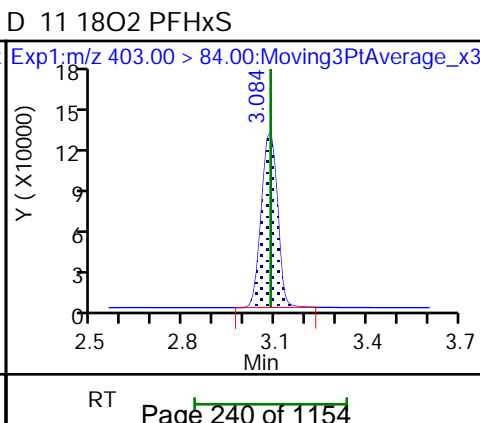
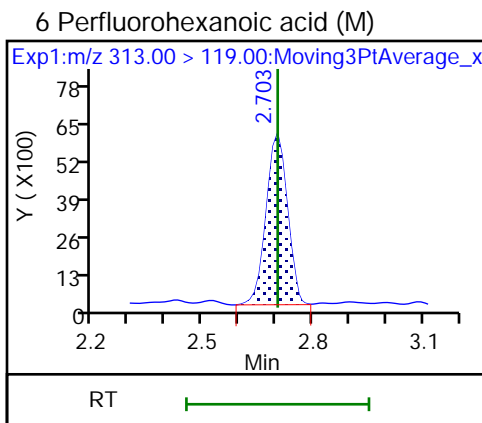
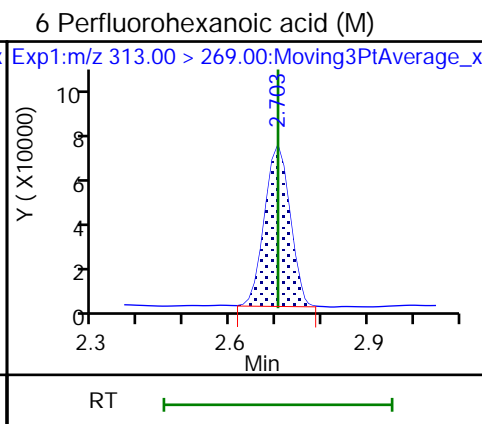
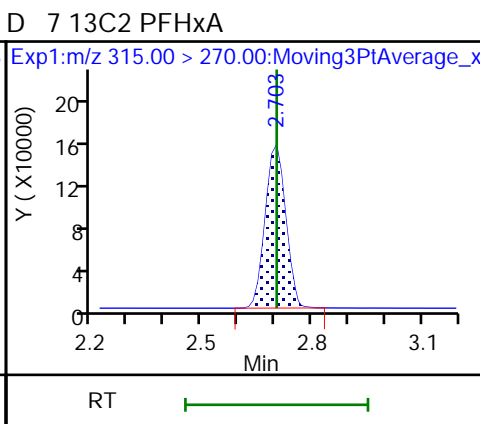
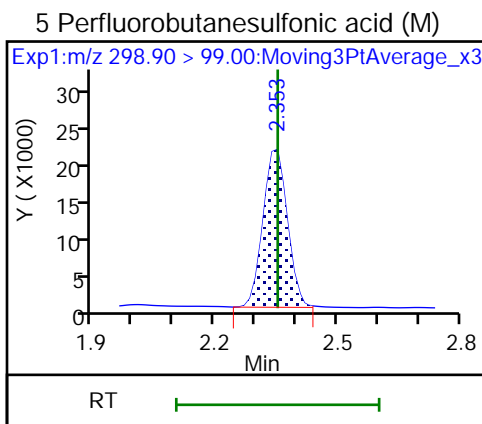
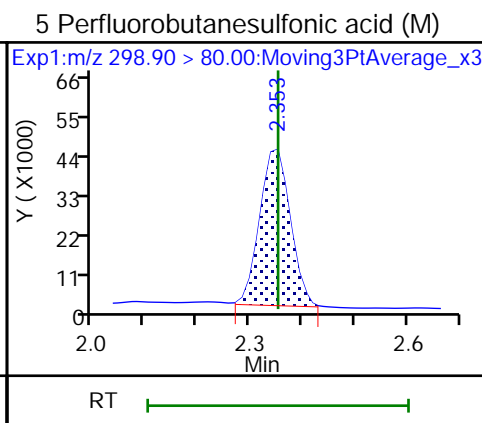
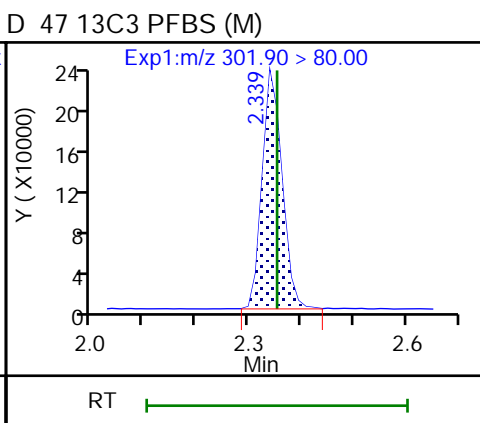
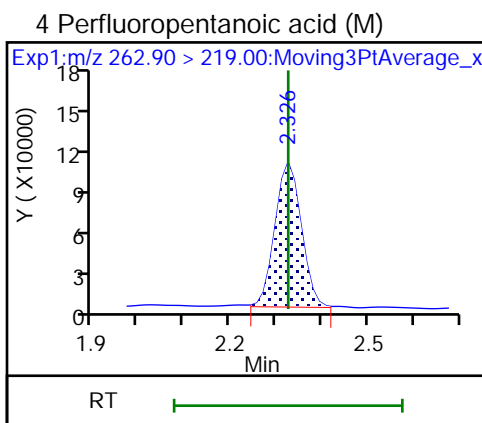
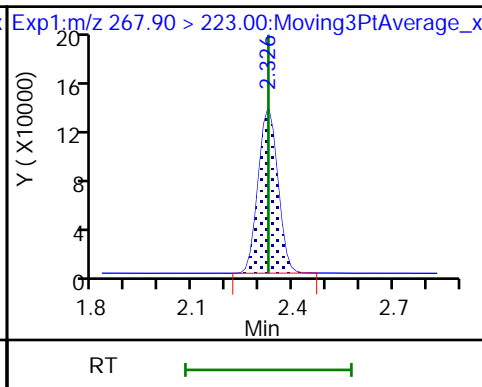
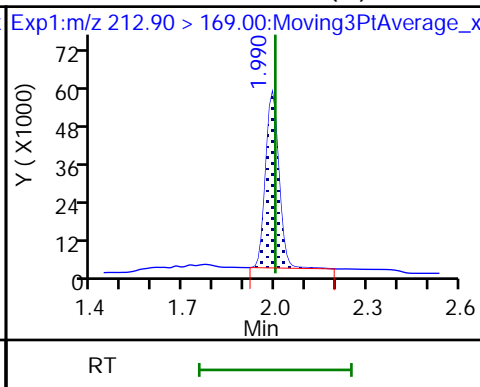
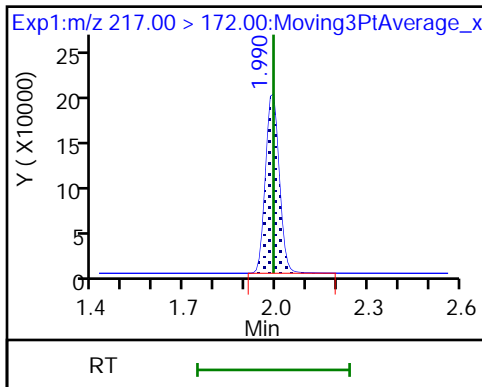
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

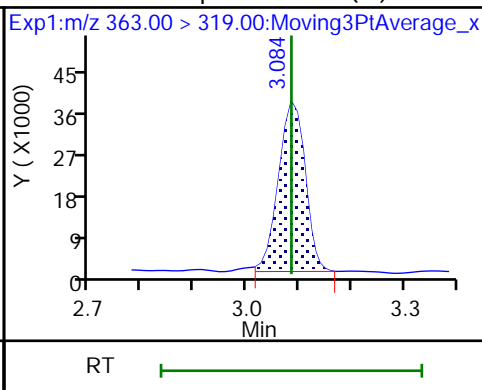
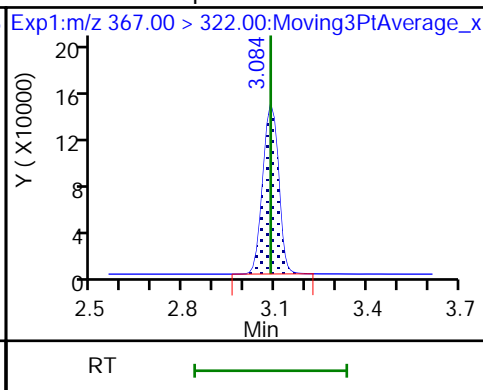
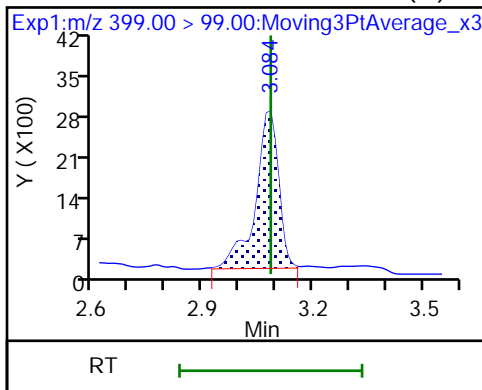
D 3 13C5 PFPeA



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

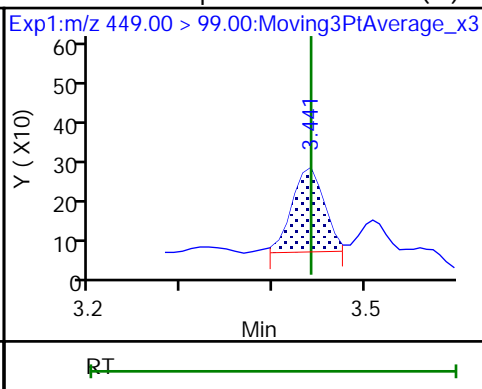
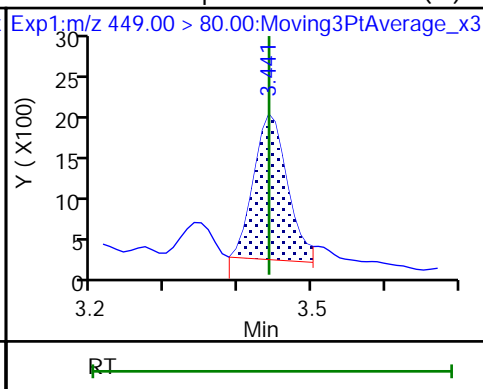
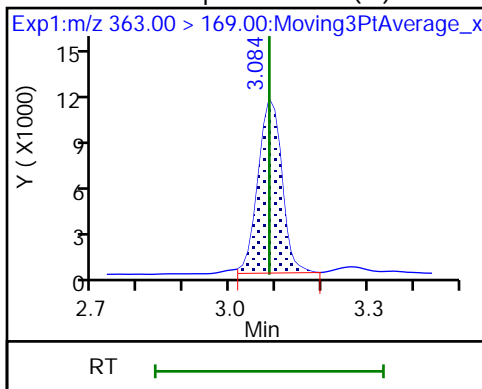
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (M)

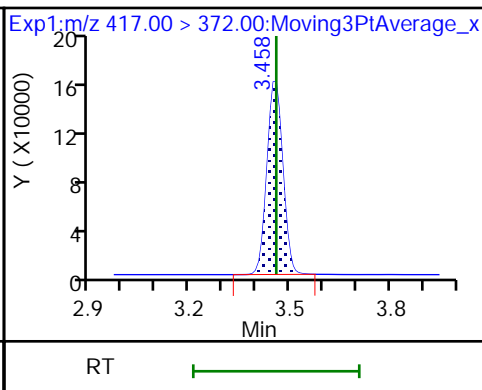
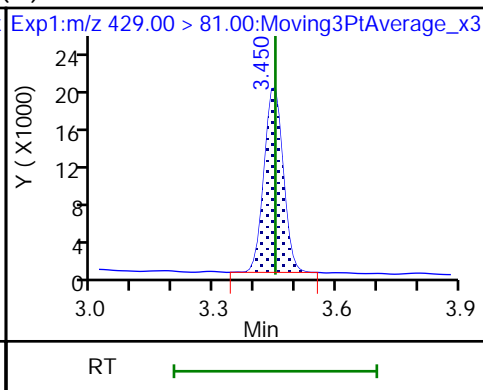
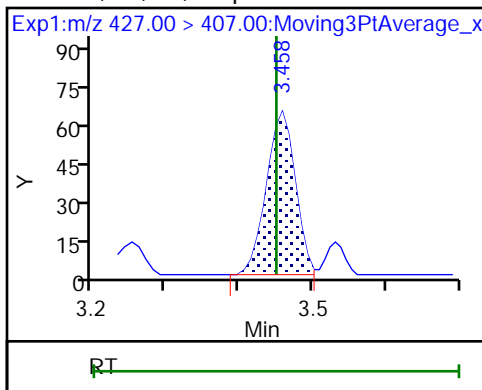
16 Perfluoroheptanesulfonic acid (M)



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

12 M2-6:2 FTS

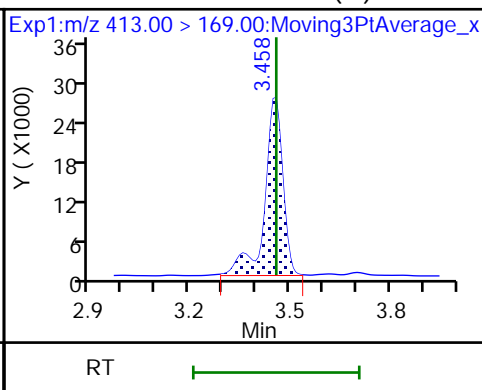
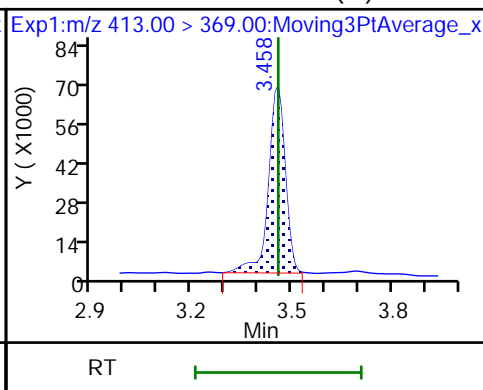
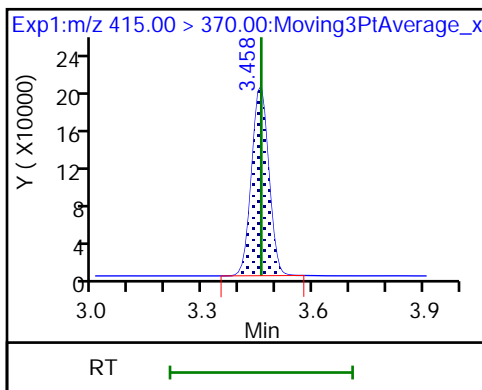
D 14 13C4 PFOA



\* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

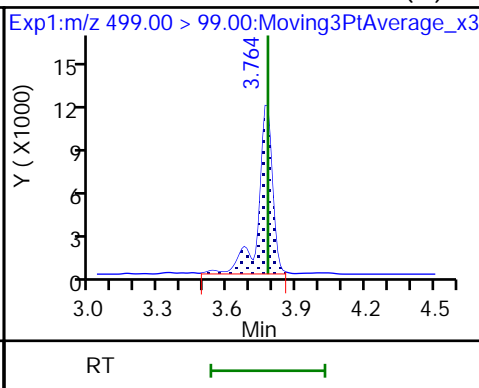
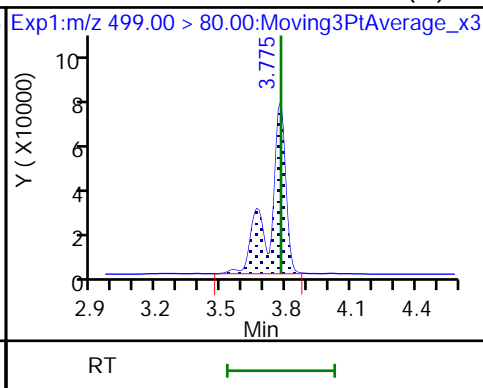
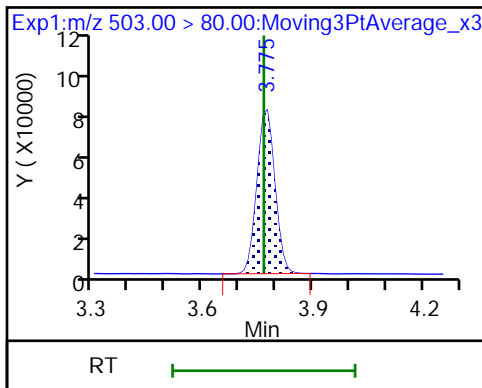
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

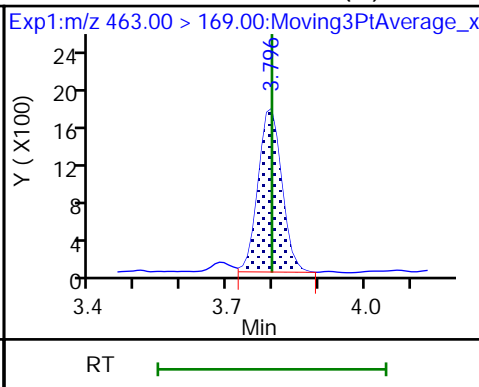
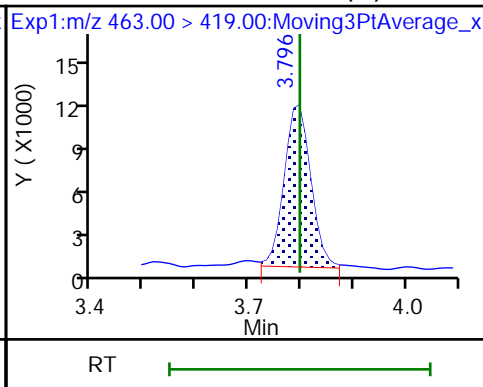
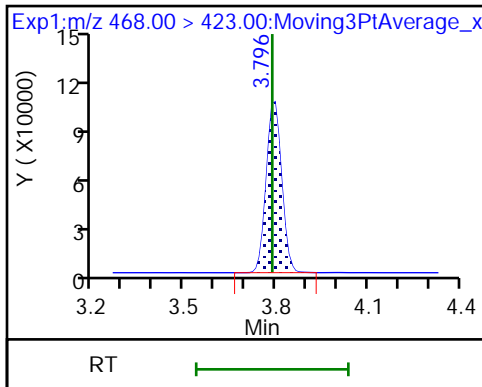
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

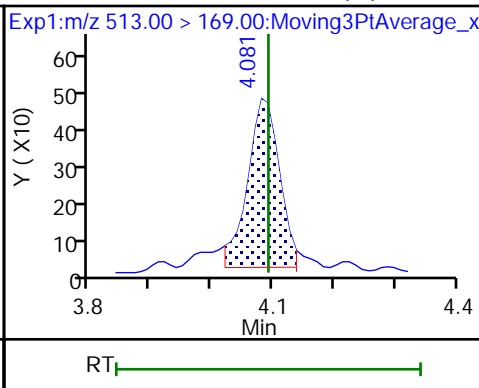
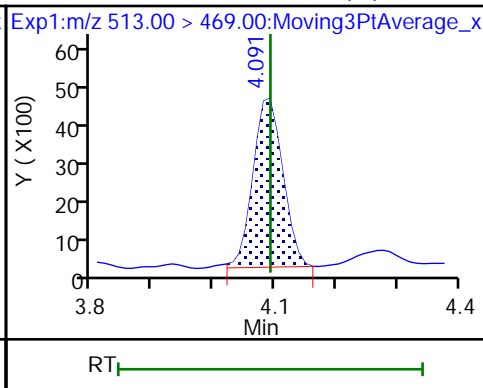
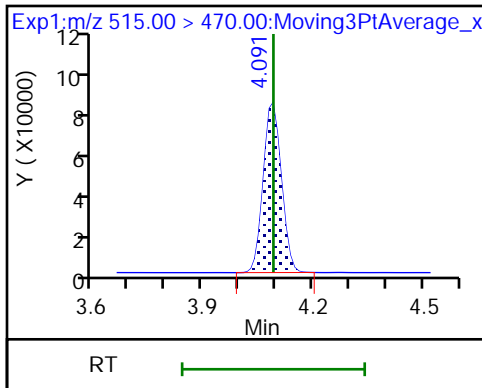
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

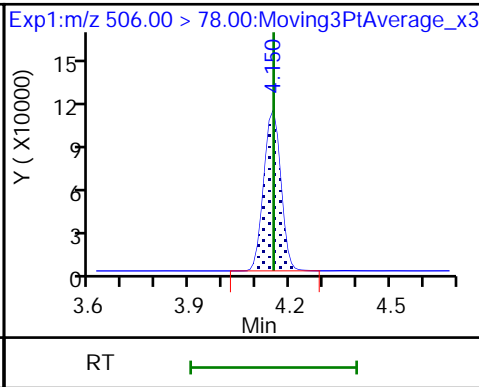
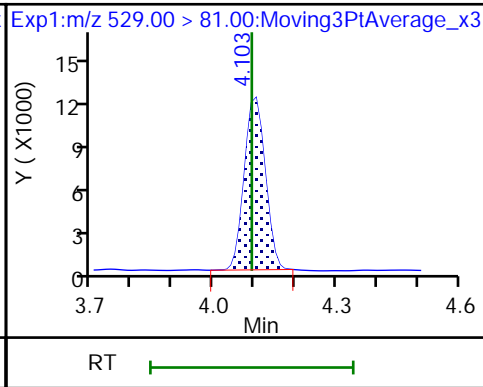
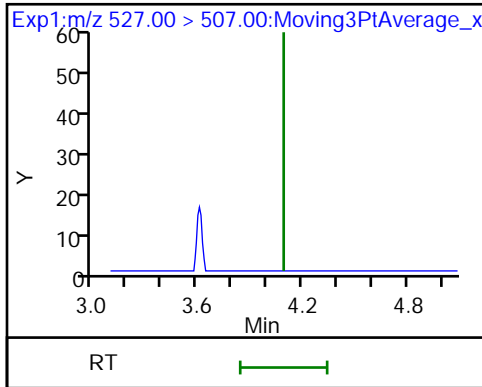
24 Perfluorodecanoic acid (M)



25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

ND6 M2-8:2 FTS

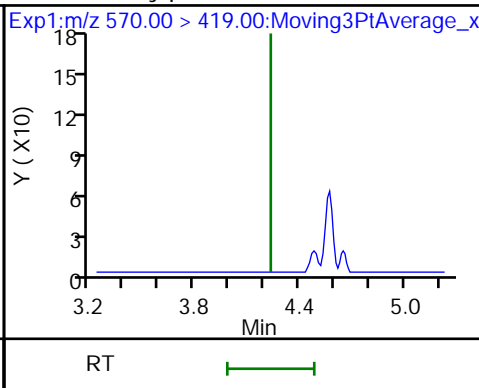
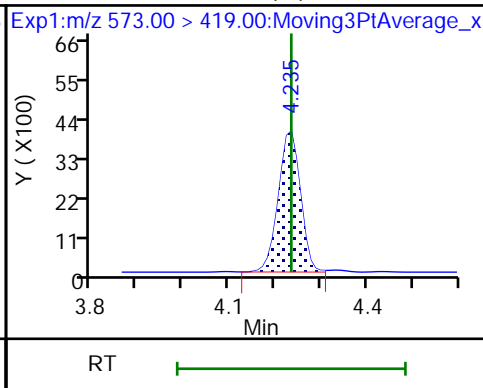
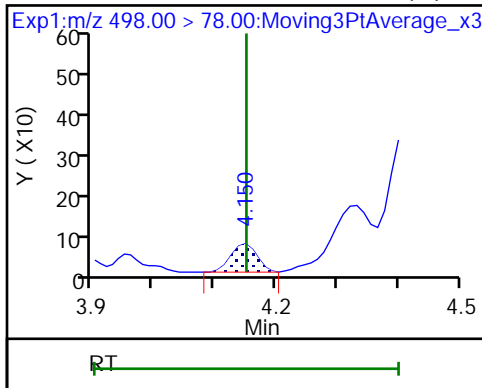
D 21 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA (M)

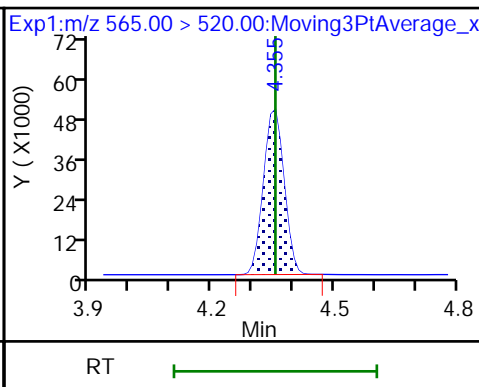
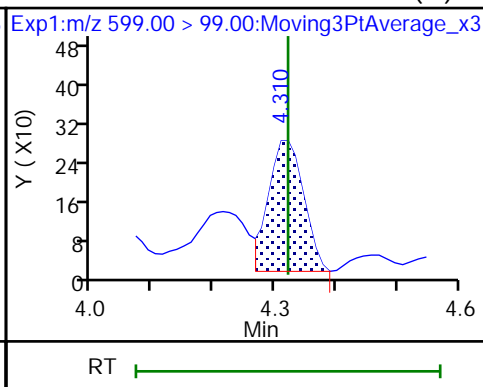
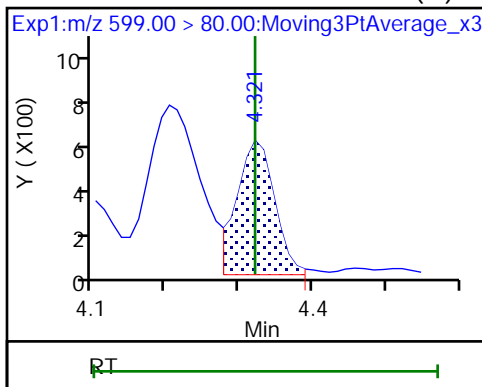
28 N-methylperfluorooctanesulfonami (ND)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

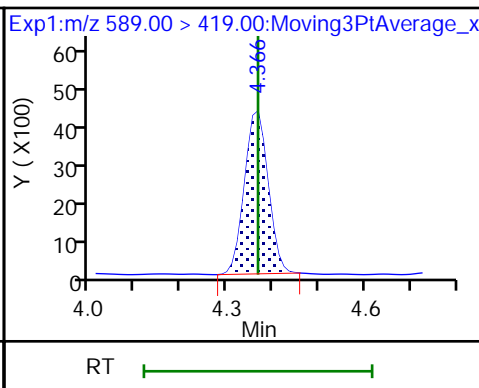
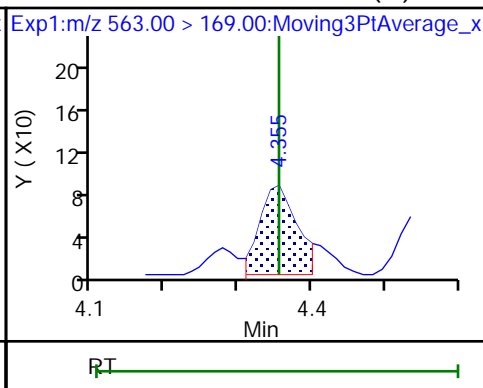
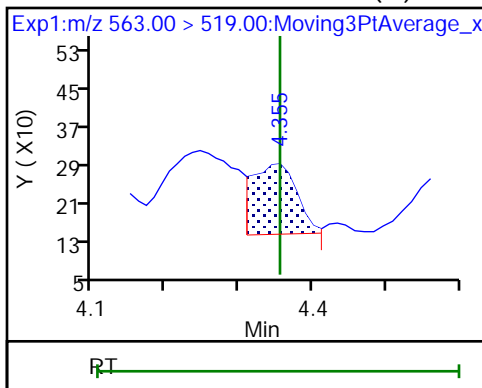
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (M)

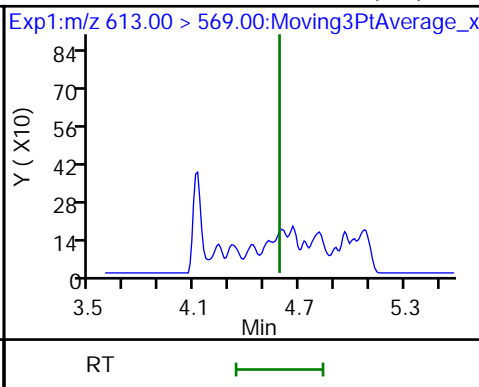
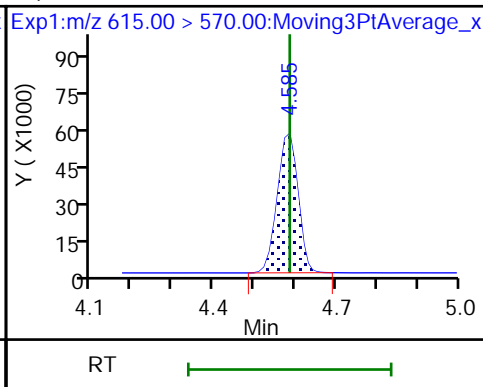
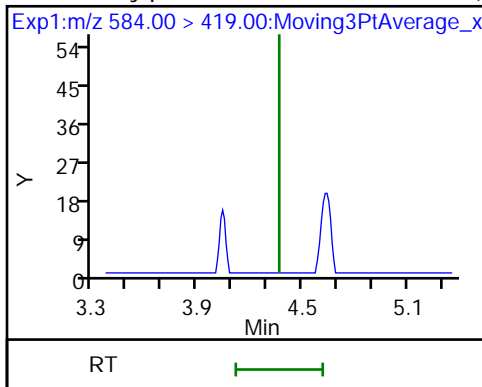
31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA



33 N-ethylperfluorooctanesulfonamid (ND) 36 13C2 PFDoA

37 Perfluorododecanoic acid (ND)

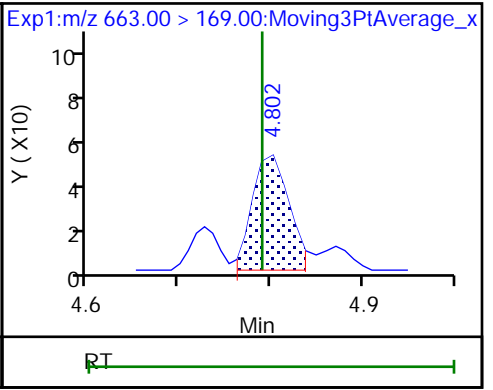
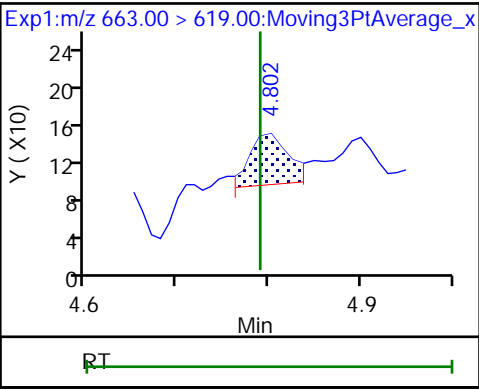
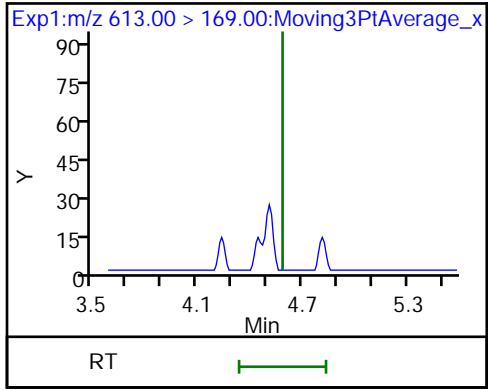




37 Perfluorododecanoic acid (ND)

41 Perfluorotridecanoic acid (M)

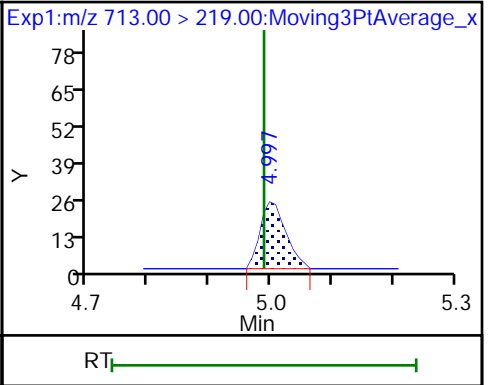
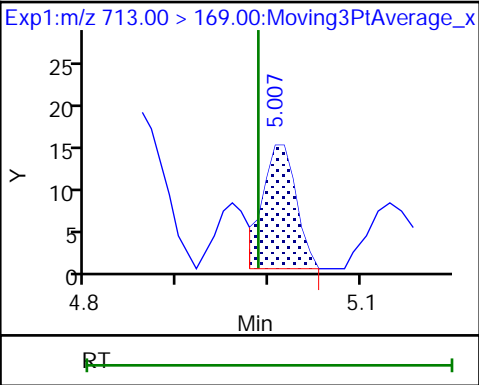
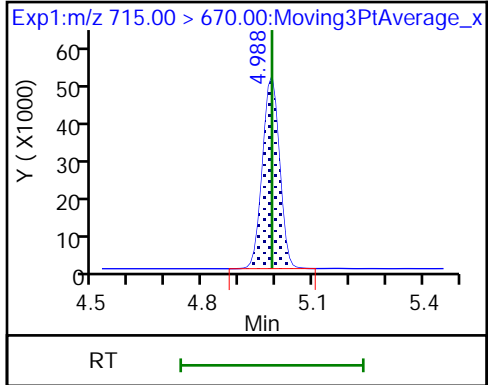
41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

42 Perfluorotetradecanoic acid (M)



Eurofins TestAmerica, Burlington

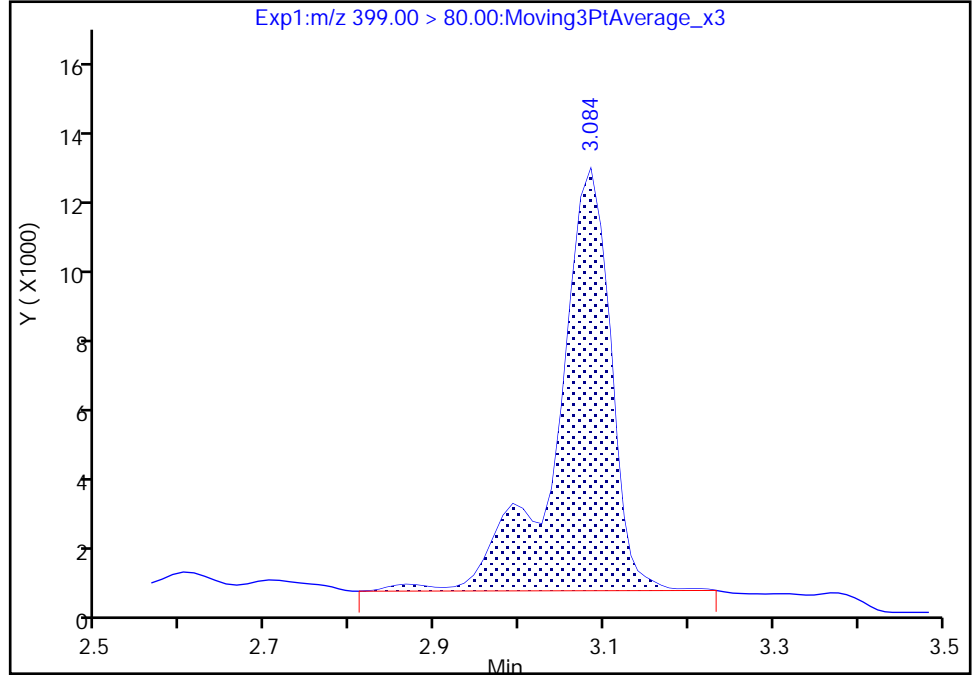
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A39.d  
Injection Date: 01-Oct-2020 23:18:29 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 39  
Injection Vol: 20.0 ul Dil. 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

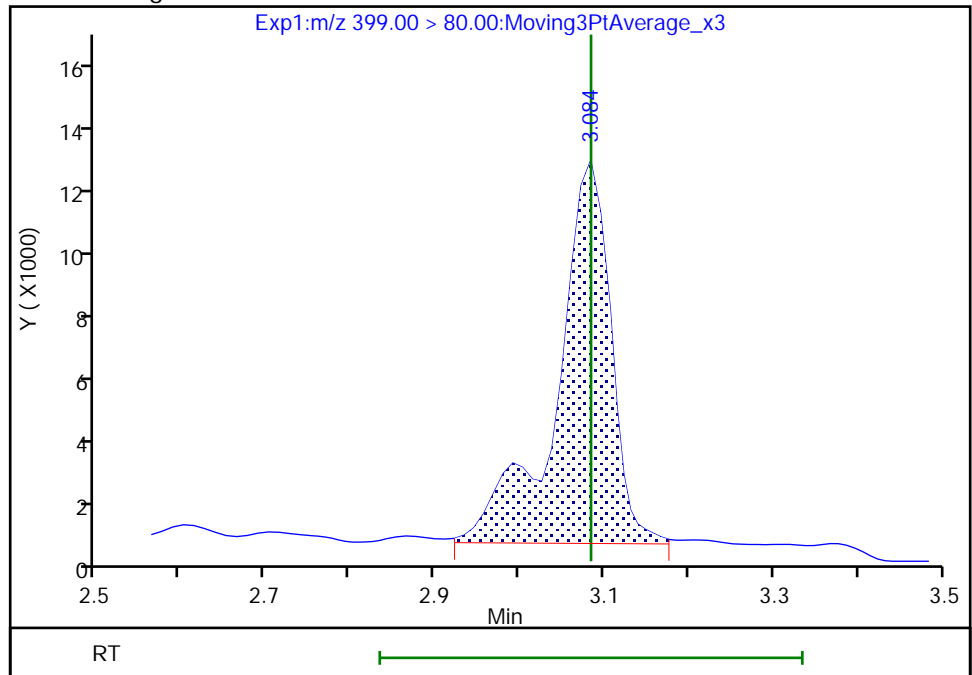
RT: 3.08  
Area: 52359  
Amount: 0.118583  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 52247  
Amount: 0.118329  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:57:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

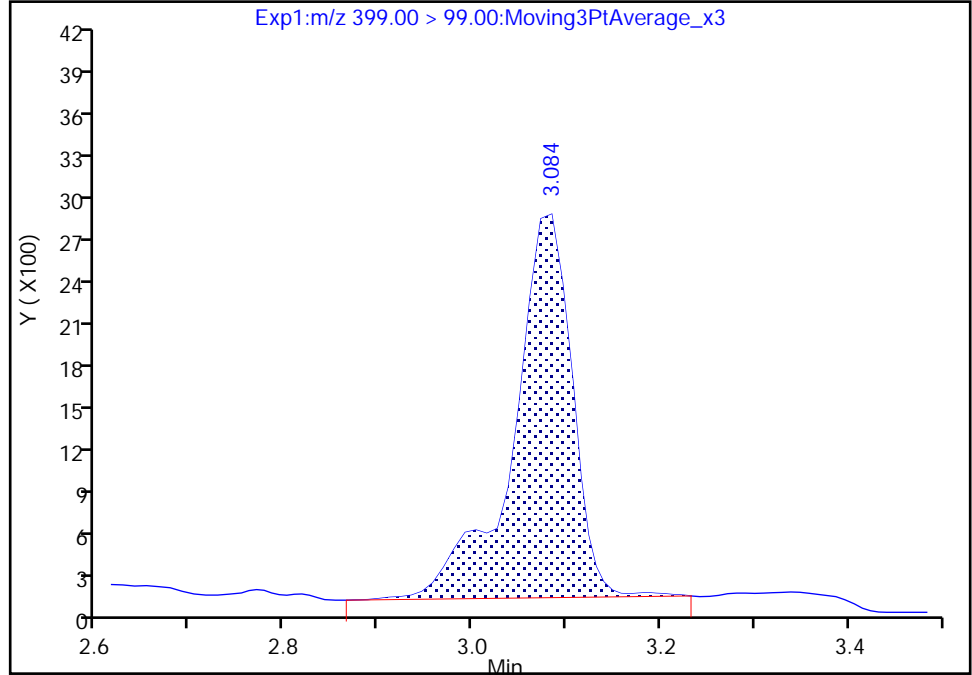
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A39.d  
Injection Date: 01-Oct-2020 23:18:29 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 39  
Injection Vol: 20.0 ul Dil. 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

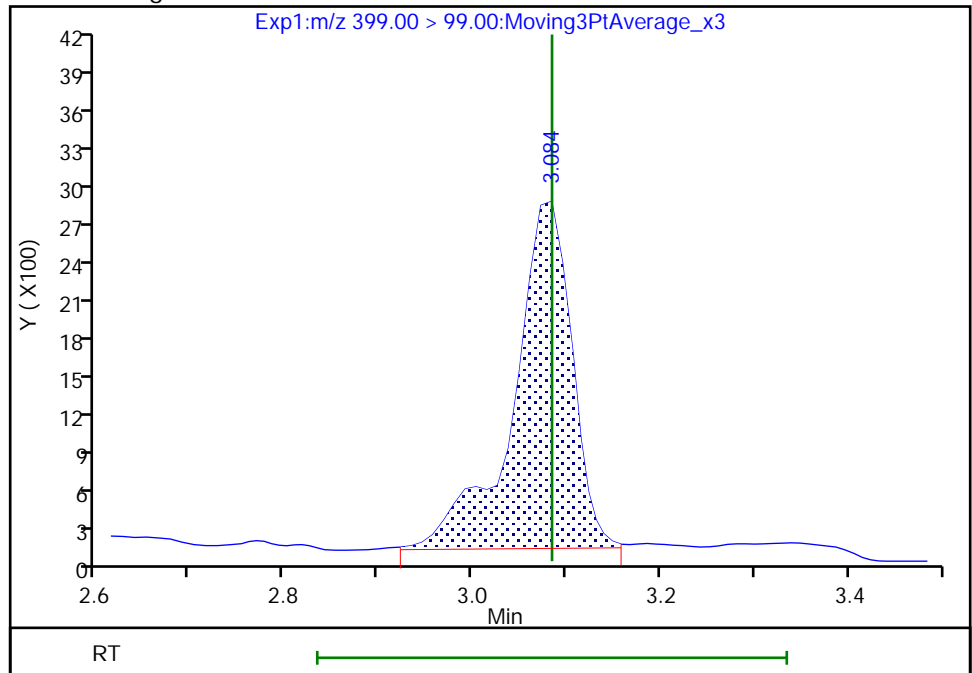
RT: 3.08  
Area: 11916  
Amount: 0.118583  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 11853  
Amount: 0.118329  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:57:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

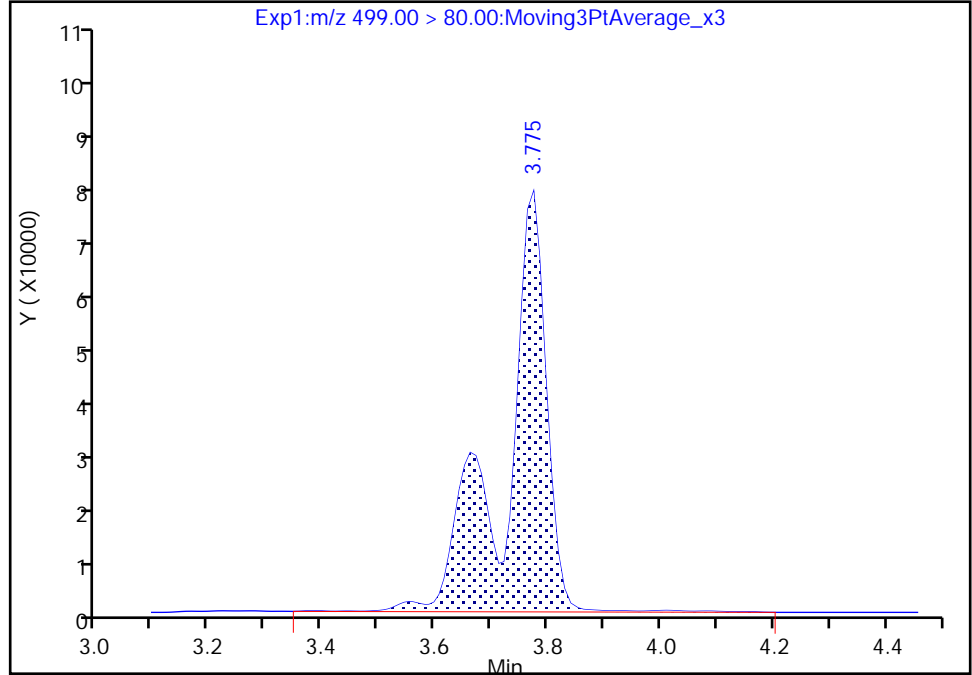
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A39.d  
Injection Date: 01-Oct-2020 23:18:29 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 39  
Injection Vol: 20.0 ul Dil. 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

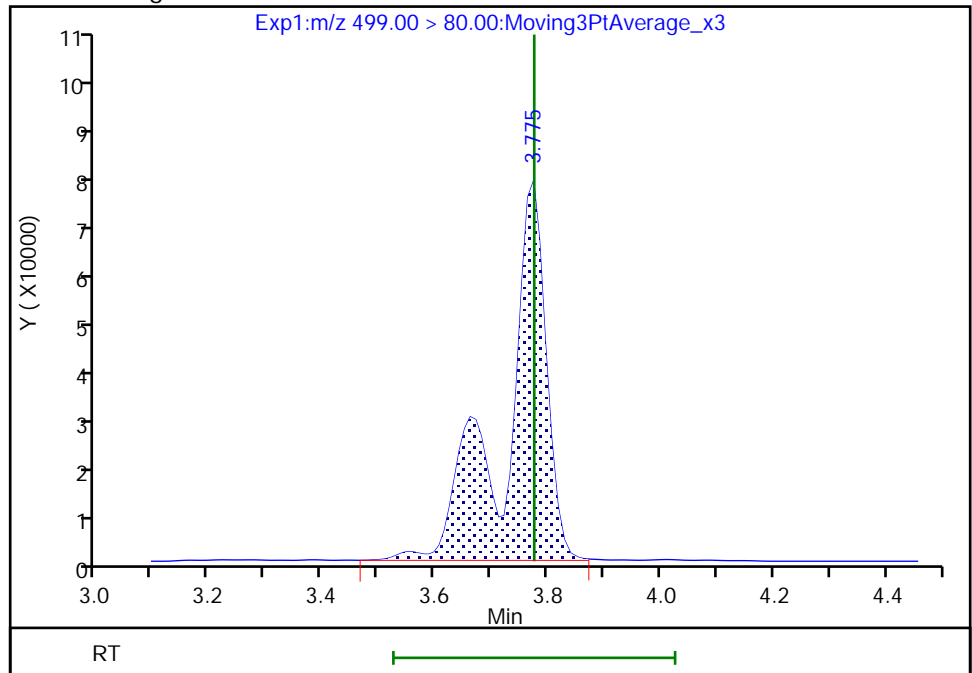
RT: 3.77  
Area: 389387  
Amount: 1.642287  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 384002  
Amount: 1.619575  
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 02-Oct-2020 15:14:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

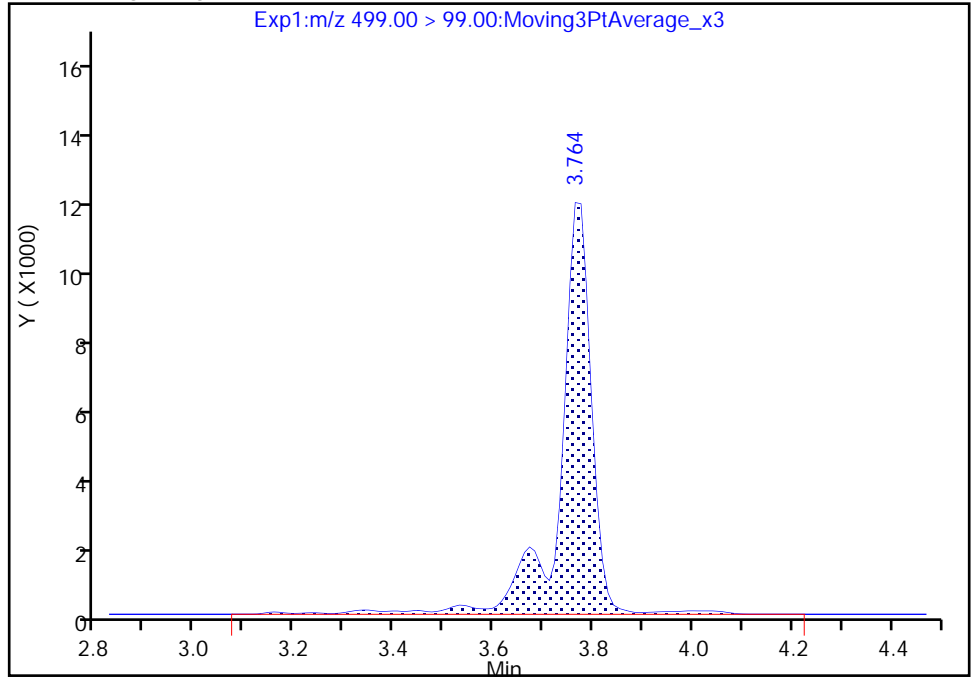
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A39.d  
Injection Date: 01-Oct-2020 23:18:29 Instrument ID: LC812  
Lims ID: 480-175657-C-2-A Lab Sample ID: 200-175657-2  
Client ID: MW-3  
Operator ID: lc812tech ALS Bottle#: 36 Worklist Smp#: 39  
Injection Vol: 20.0 ul Dil. 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

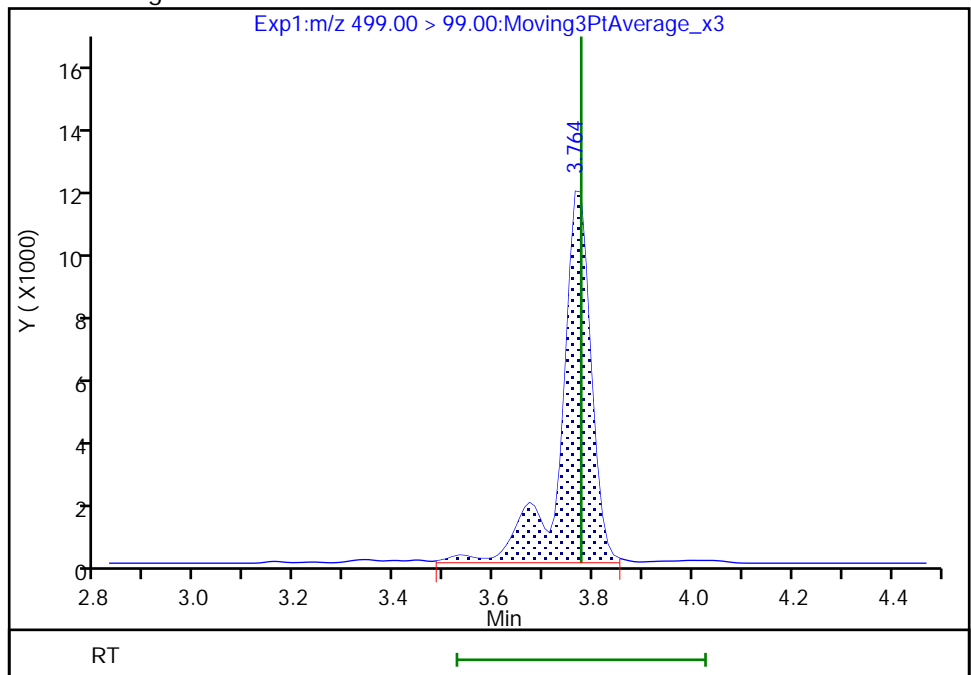
RT: 3.76  
Area: 51223  
Amount: 1.642287  
Amount Units: ng/ml

Processing Integration Results



RT: 3.76  
Area: 48776  
Amount: 1.619575  
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 02-Oct-2020 15:14:50

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3B Lab Sample ID: 480-175657-3  
 Matrix: Water Lab File ID: PA200930B19.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 12:30  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 308.6(mL) Date Analyzed: 09/30/2020 20:43  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	6.4		4.1	0.92
2706-90-3	Perfluoropentanoic acid (PFPeA)	12		1.6	0.87
307-24-4	Perfluorohexanoic acid (PFHxA)	11		1.6	0.67
375-85-9	Perfluoroheptanoic acid (PFHpA)	9.1		1.6	0.37
335-67-1	Perfluorooctanoic acid (PFOA)	32		1.6	0.79
375-95-1	Perfluorononanoic acid (PFNA)	2.2		1.6	0.47
335-76-2	Perfluorodecanoic acid (PFDA)	0.44	J	1.6	0.37
2058-94-8	Perfluoroundecanoic acid (PFUnA)	0.68	J	1.6	0.59
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.37
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	4.7		1.6	0.51
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	8.4		1.6	0.54
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.71	J	1.6	0.32
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	14		1.6	0.70
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.46
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.64
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.75
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	2.2	J	4.1	0.58
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.53

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-3B Lab Sample ID: 480-175657-3  
 Matrix: Water Lab File ID: PA200930B19.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 12:30  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 308.6(mL) Date Analyzed: 09/30/2020 20:43  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	57		50-150
STL01892	13C4 PFHpA	62		50-150
STL00990	13C4 PFOA	58		50-150
STL00991	13C4 PFOS	50		50-150
STL00995	13C5 PFNA	50		50-150
STL00992	13C4 PFBA	49		25-150
STL00993	13C2 PFHxA	59		50-150
STL00996	13C2 PFDA	51		50-150
STL00997	13C2 PFUnA	96		50-150
STL00998	13C2 PFDoA	85		50-150
STL01056	13C8 FOSA	26		25-150
STL01893	13C5 PFPeA	60		25-150
STL02116	13C2 PFTeDA	55		50-150
STL02118	d3-NMeFOSAA	44	*5	50-150
STL02117	d5-NEtFOSAA	126		50-150
STL02279	M2-6:2 FTS	62		25-150
STL02280	M2-8:2 FTS	59		25-150
STL02337	13C3 PFBS	55		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
 Lims ID: 480-175657-C-3-A  
 Client ID: MW-3B  
 Sample Type: Client  
 Inject. Date: 30-Sep-2020 20:43:37 ALS Bottle#: 19 Worklist Smp#: 19  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-3-A  
 Misc. Info.: 200-0043035-019 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 14:52:20  
 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	1.990	-0.009	0.574	485764	0.6087	48.7	5284	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.991	1.990	0.001	1.005	71529	0.1969		17.1		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	427514	0.7475	59.8	1489	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	136354	0.3775		5.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.340	2.339	0.001	0.678	446147	0.6406	55.1	17858	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.340	2.353	-0.013	1.000	55690	0.1456	Target=2.07	4.2		M
298.90 > 99.00	2.340	2.353	-0.013	1.000	18573		3.00(1.04-3.11)	1.4		M
D 7 13C2 PFHxA	315.00 > 270.00	2.704	2.703	0.001	0.784	436904	0.7418	59.3	2828	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.704	2.703	0.001	1.000	114356	0.3249	Target=12.44	15.0		M
313.00 > 119.00	2.704	2.703	0.001	1.000	7294		15.68(6.22-18.66)	9.5		M
D 11 18O2 PFHxS	403.00 > 84.00	3.073	3.073	0.0	0.891	339044	0.6785	57.4	2038	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	82040	0.2591	Target=4.60	17.9		M
399.00 > 99.00	3.073	3.073	0.0	1.000	17022		4.82(2.30-6.91)	25.0		M
D 9 13C4 PFHpA	367.00 > 322.00	3.085	3.084	0.001	0.894	418016	0.7803	62.4	2218	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.085	3.084	0.001	1.000	93956	0.2804	Target=3.34	24.9		M
363.00 > 169.00	3.085	3.084	0.001	1.000	24799		3.79(1.67-5.01)	39.1		



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.433	3.433	0.001	0.912	5202	0.0218	Target=7.08	3.6		M
449.00 > 99.00	3.433	3.433	0.001	0.912	952		5.46(3.54-10.63)	4.6		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.009	1.003	2220	0.0676		88.4		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.433	3.433	0.001	0.995	48858	0.7315		61.6	62.8	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	395959	0.7222		57.8	3459	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		696104	1.25			4685	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	321657	0.9835	Target=2.29	96.5		M
413.00 > 169.00	3.450	3.450	0.0	1.000	156305		2.06(1.14-3.43)	244		M
D 18 13C4 PFOS										
503.00 > 80.00	3.766	3.765	0.001	1.091	246175	0.6022		50.4	271	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.654	3.765	-0.111	0.970	99332	0.4437	Target=7.10	49.0		M
499.00 > 99.00	3.766	3.765	0.001	1.000	9401		10.57(3.55-10.64)	33.5		M
D 19 13C5 PFNA										
468.00 > 423.00	3.787	3.776	0.010	1.098	289077	0.6257		50.1	2390	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.787	3.786	0.0	1.000	15630	0.0664	Target=5.83	5.5		M
463.00 > 169.00	3.776	3.786	-0.010	0.997	2795		5.59(2.91-8.74)	28.5		M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	281410	0.6352		50.8	2623	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.082	4.082	0.0	1.000	2991	0.0134	Target=6.81	2.2		M
513.00 > 169.00	4.082	4.082	0.0	1.000	314		9.53(3.41-10.22)	3.9		M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.062	4.082	-0.020	0.993	38	0.002068		1.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	55598	0.7068		59.0	138	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	228761	0.3204		25.6	2330	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.139	4.139	0.0	1.000	1566	0.009153		5.1		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.214	0.0	1.221	13888	0.5506		44.0	214	
29 Perfluorodecanesulfonic acid										RM
599.00 > 80.00	4.288	4.309	-0.021	1.139	1104	0.007458	Target=3.31	2.2		RM
599.00 > 99.00	4.288	4.309	-0.021	1.139	1081		1.02(1.66-4.97)	4.7		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.344	4.343	0.001	1.259	402566	1.20		96.3	7669	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.344	4.343	0.001	1.000	6650	0.0209	Target=6.57	11.1		M
563.00 > 169.00	4.344	4.343	0.001	1.000	1187		5.60(3.28-9.85)	26.3		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	42545	1.57		126	798	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.203	4.355	-0.152	0.965	79	0.002535			1.5	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	375450	1.06		85.0	6278	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.573	4.573	0.0	1.000	2856	0.009750	Target=5.16		3.4	M
613.00 > 169.00	4.585	4.573	0.012	1.003	407		7.02(2.58-7.75)		7.5	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.780	4.772	0.008	1.045	1136	0.004567	Target=3.30		1.6	M
663.00 > 169.00	4.780	4.772	0.008	1.045	449		2.53(1.65-4.95)		14.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.969	0.009	1.443	171616	0.6816		54.5	3033	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.969	4.969	0.0	0.998	70	0.002226	Target=1.06		4.5	RM
713.00 > 219.00	4.959	4.969	-0.010	0.996	154		0.45(0.53-1.59)		8.3	M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d

Injection Date: 30-Sep-2020 20:43:37

Instrument ID: LC812

Lims ID: 480-175657-C-3-A

Lab Sample ID: 200-175657-3

Client ID: MW-3B

Operator ID: lc812tech

ALS Bottle#: 19

Worklist Smp#: 19

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

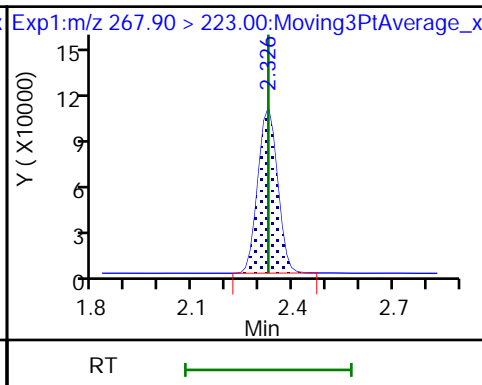
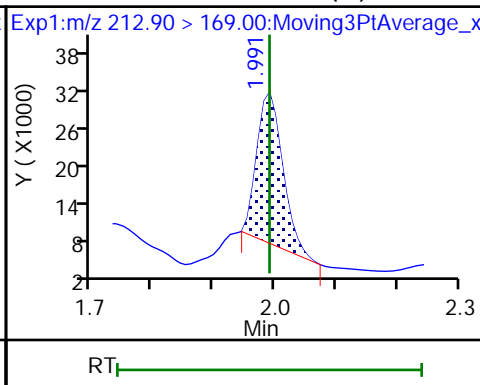
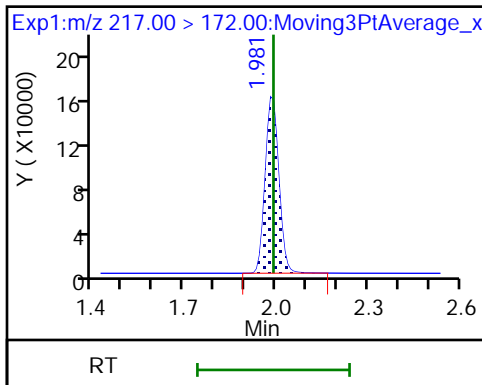
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

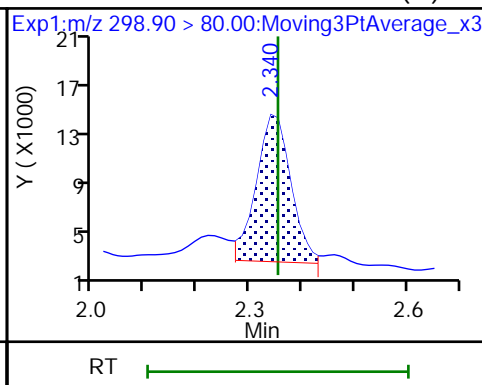
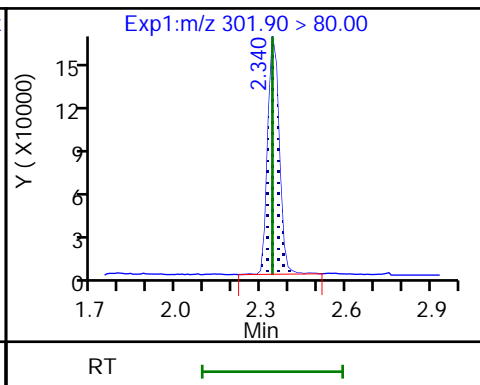
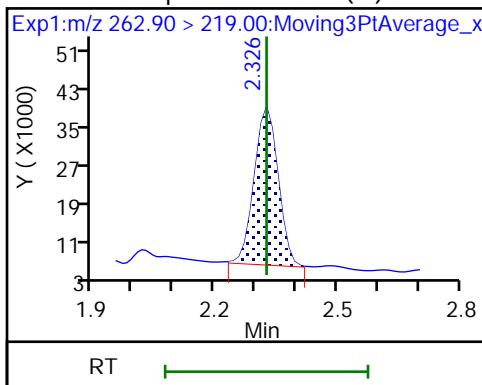
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

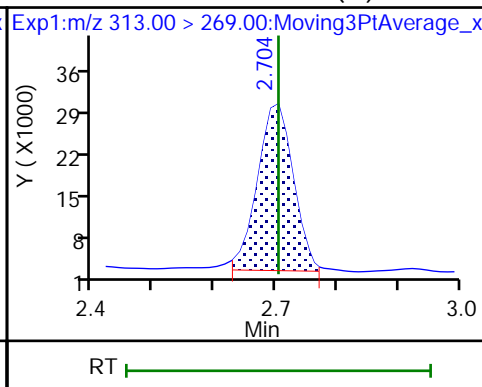
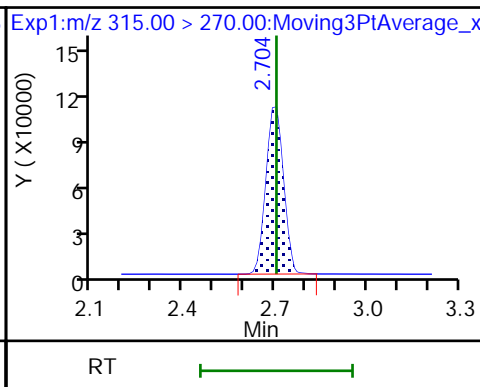
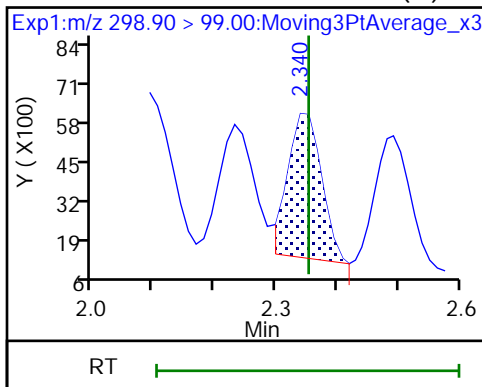
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

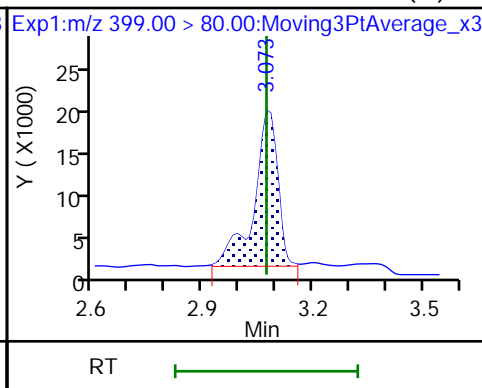
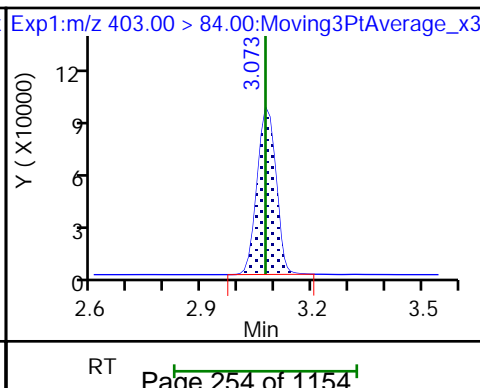
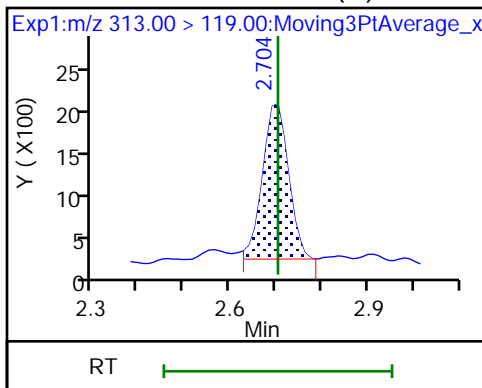
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

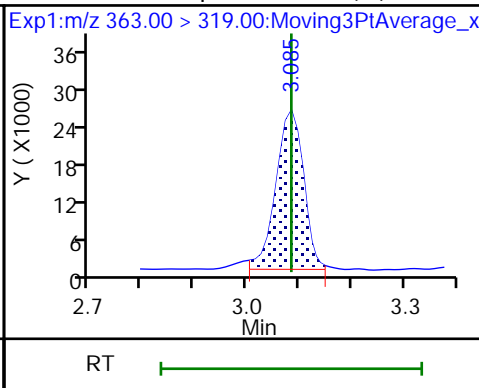
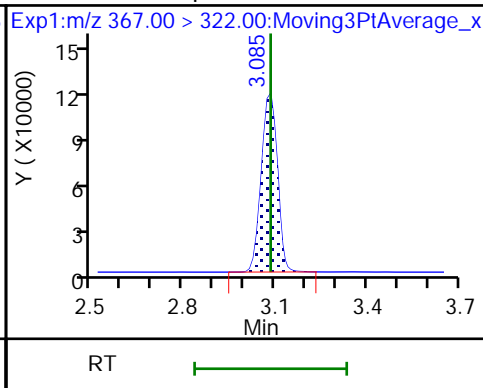
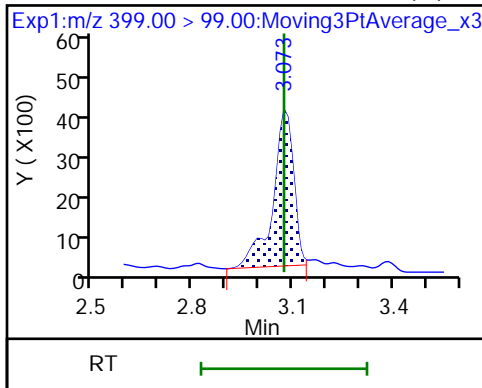
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

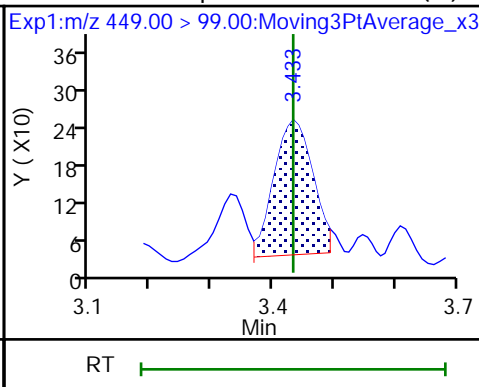
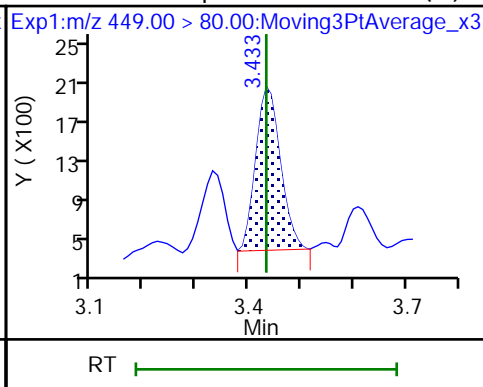
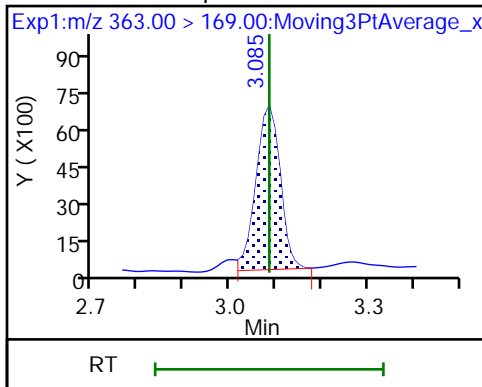
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid

16 Perfluoroheptanesulfonic acid (M)

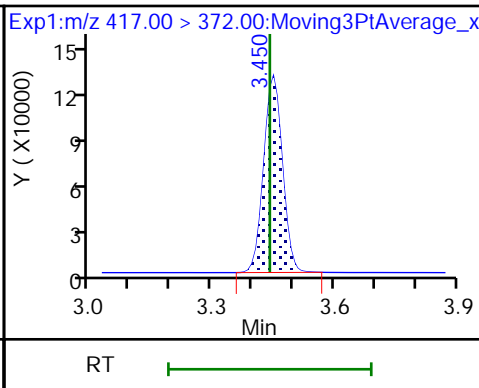
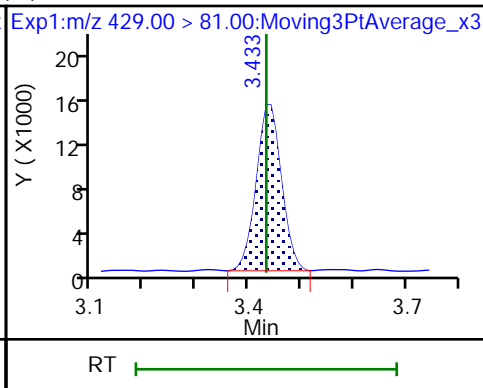
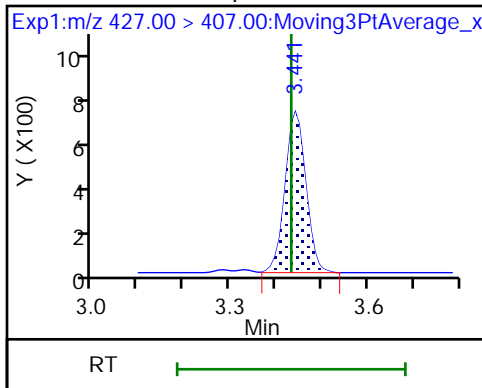
16 Perfluoroheptanesulfonic acid (M)



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

D 12 M2-6:2 FTS

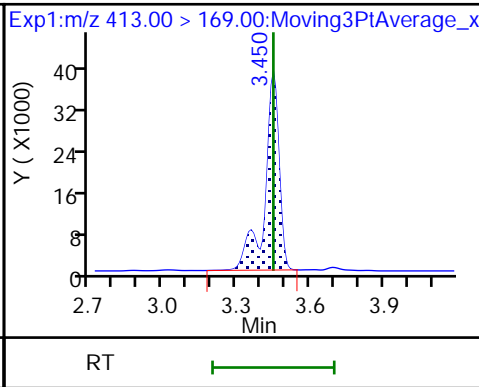
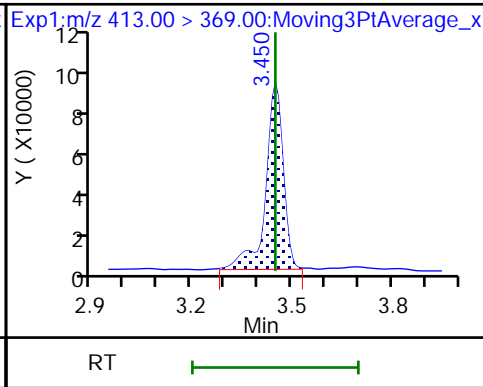
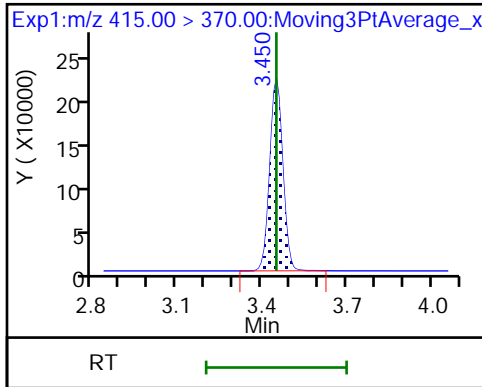
D 14 13C4 PFOA



\* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

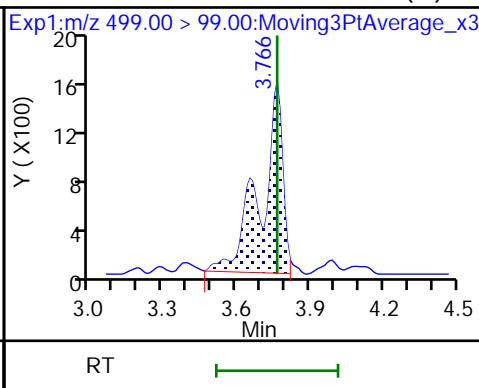
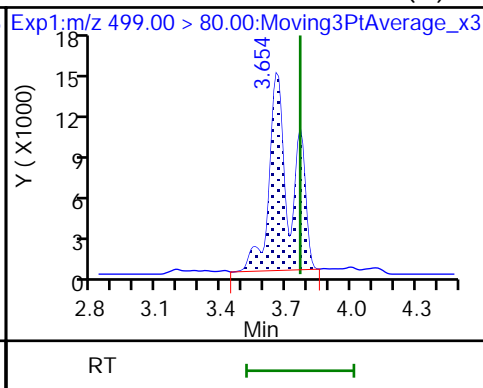
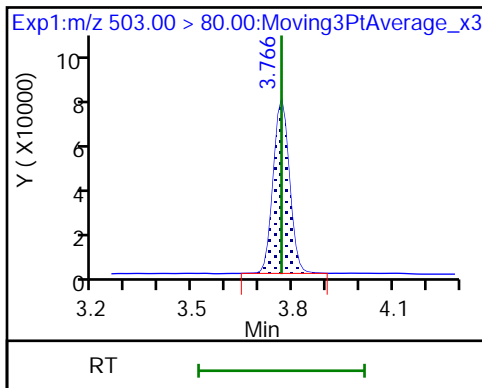
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

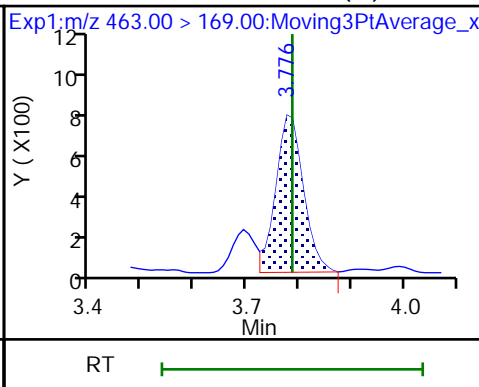
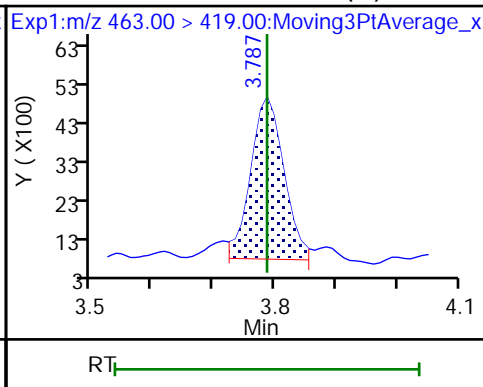
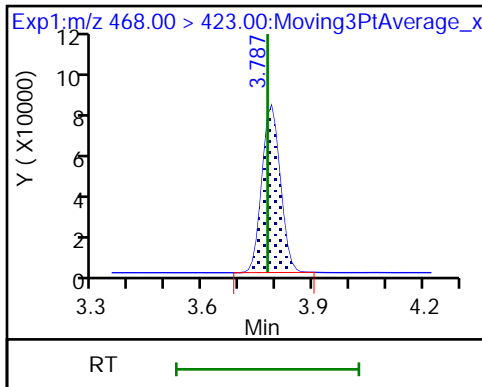
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

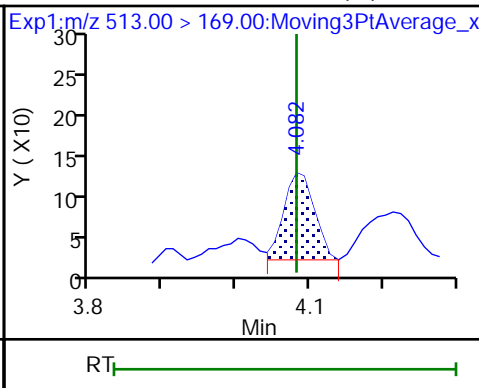
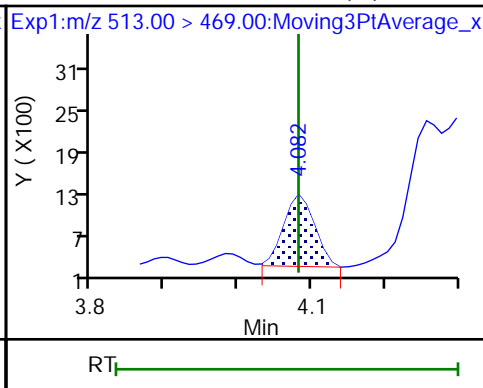
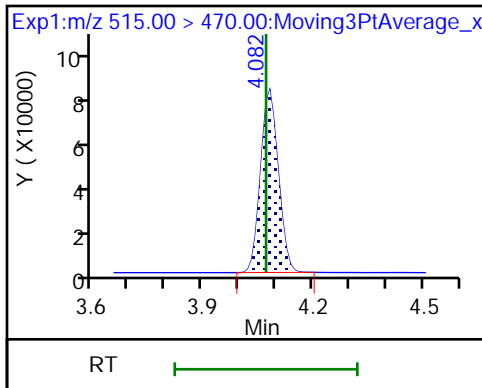
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

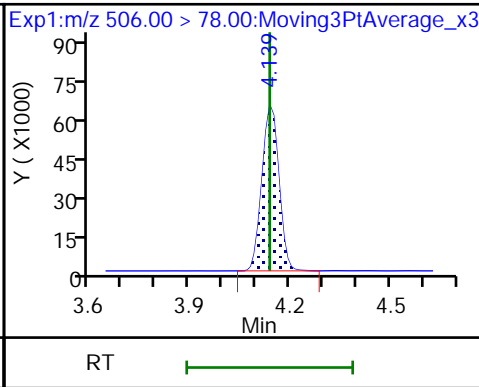
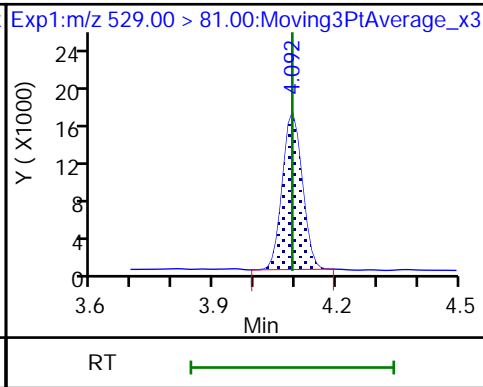
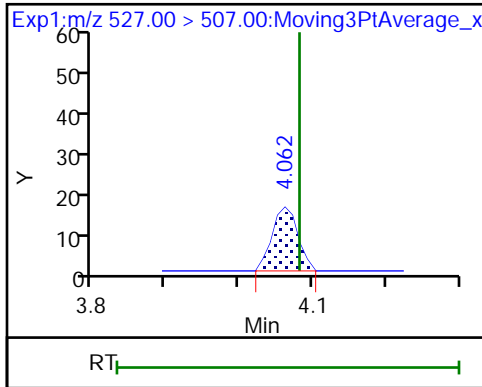
24 Perfluorodecanoic acid (M)



25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

26 M2-8:2 FTS

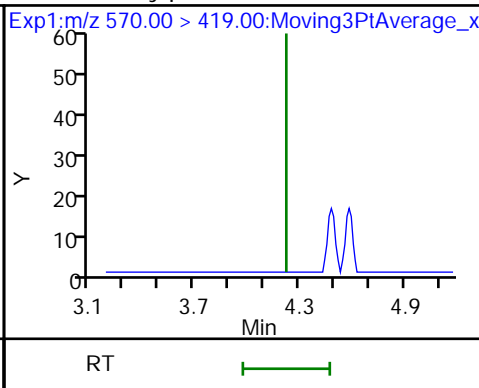
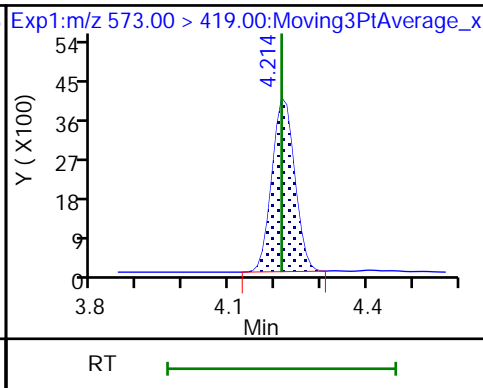
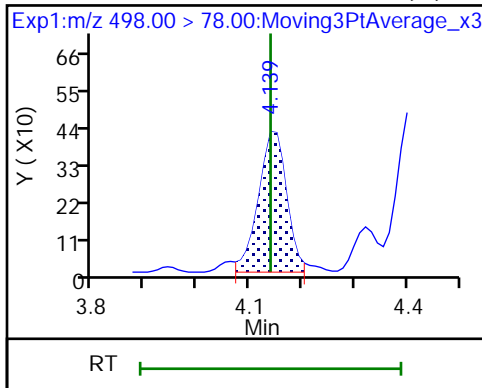
D 21 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

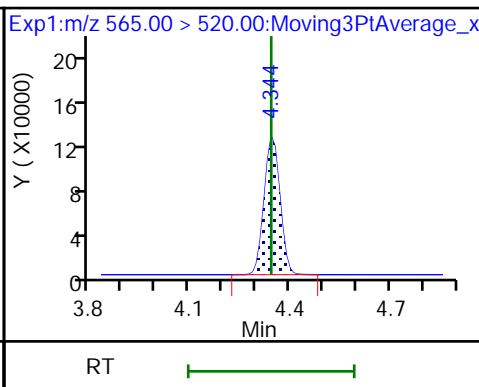
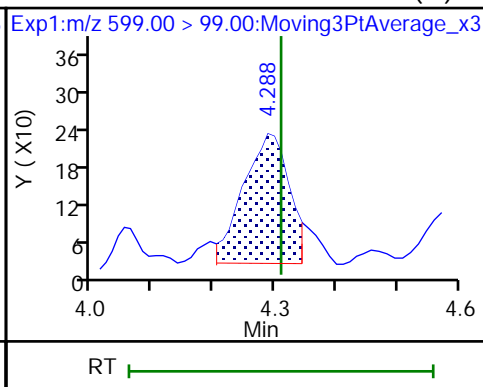
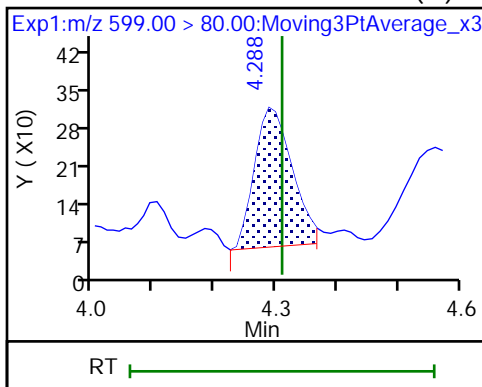
28 N-methylperfluorooctanesulfonami (ND)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

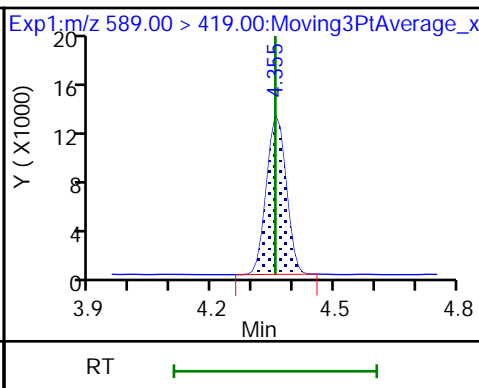
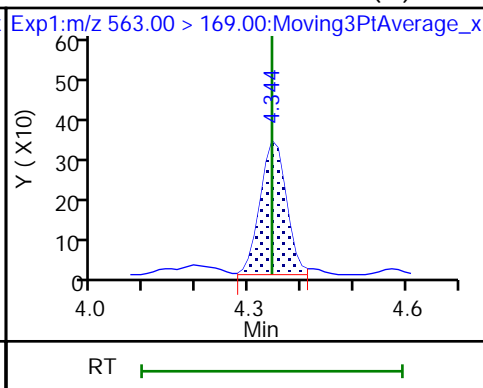
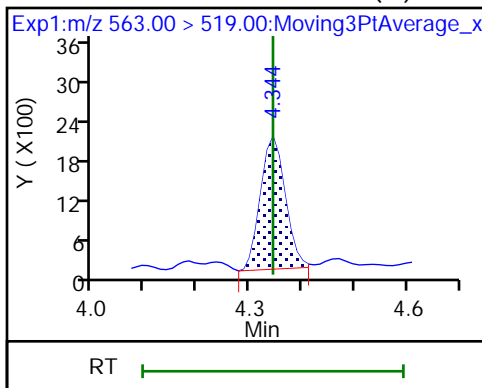
D 30 13C2 PFUnA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

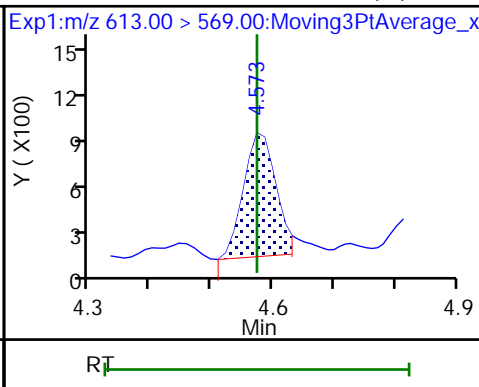
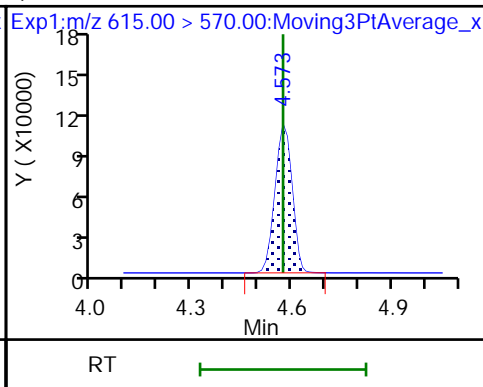
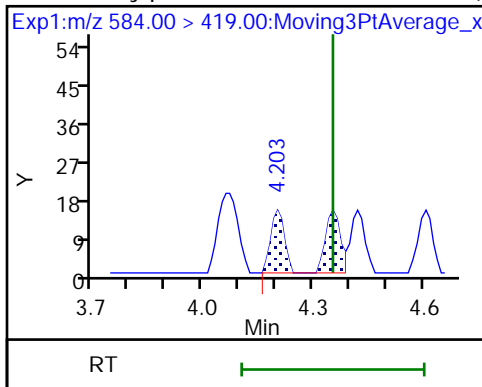
D 32 d5-NEtFOSAA

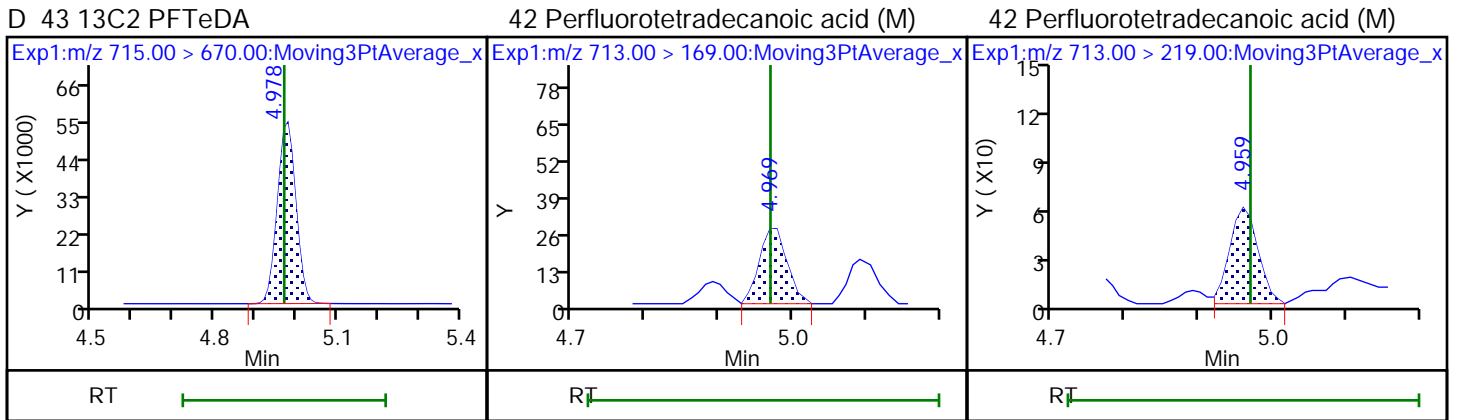
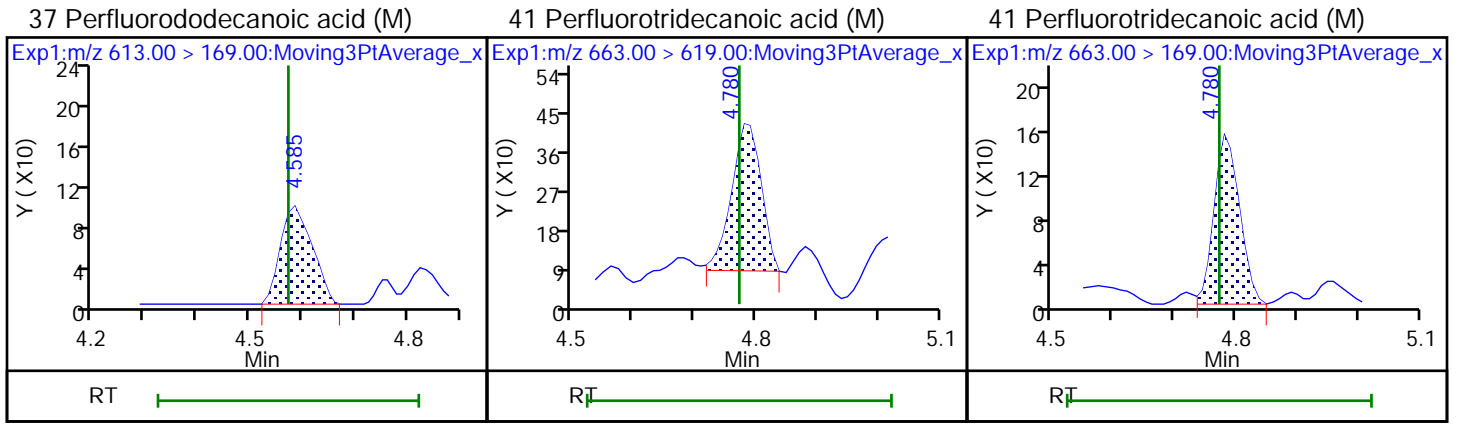


33 N-ethylperfluorooctanesulfonamid (ND)

36 13C2 PFDoA

37 Perfluorododecanoic acid (M)





Euofins TestAmerica, Burlington

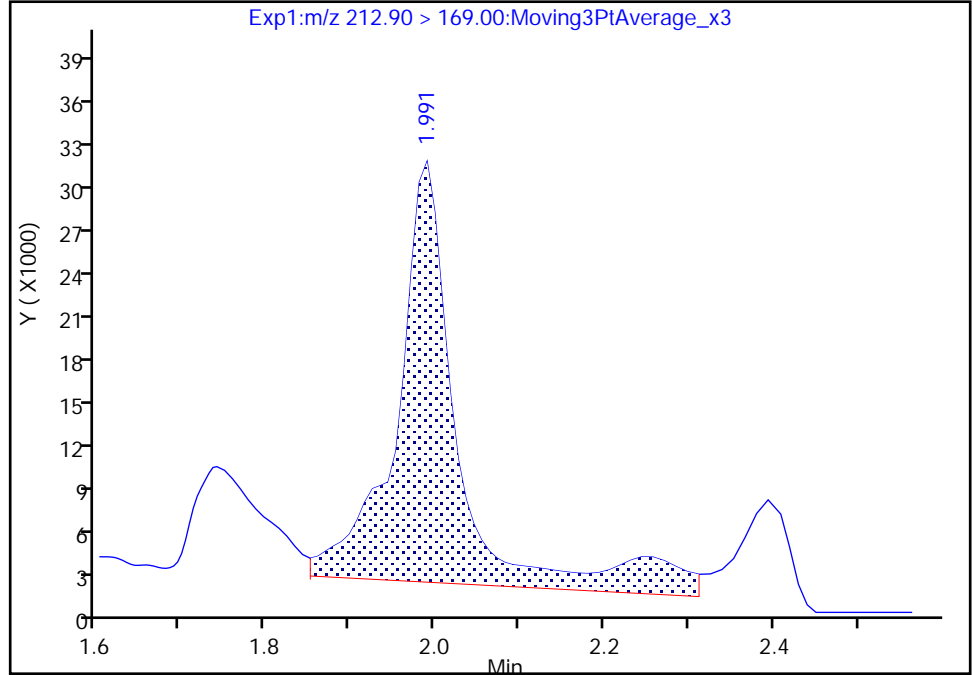
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

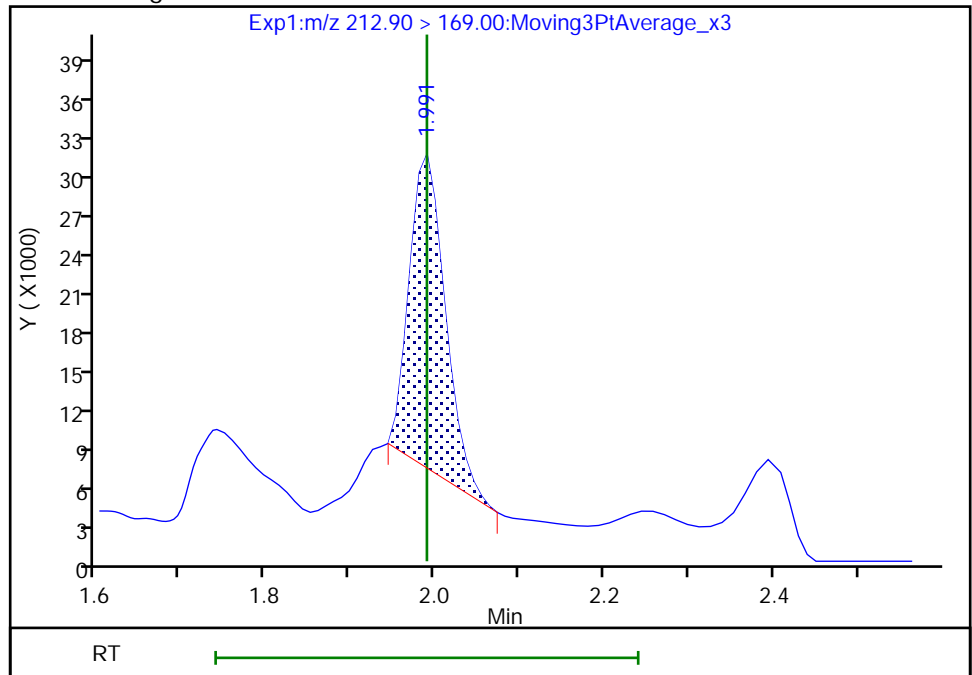
RT: 1.99  
Area: 151118  
Amount: 0.416016  
Amount Units: ng/ml

Processing Integration Results



RT: 1.99  
Area: 71529  
Amount: 0.196914  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:45:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

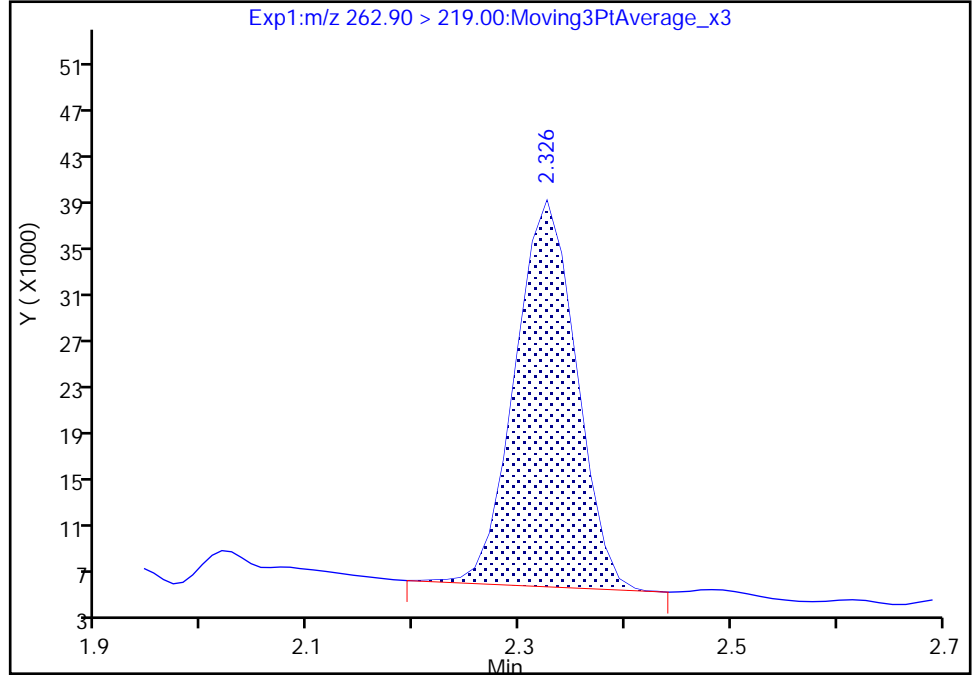
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

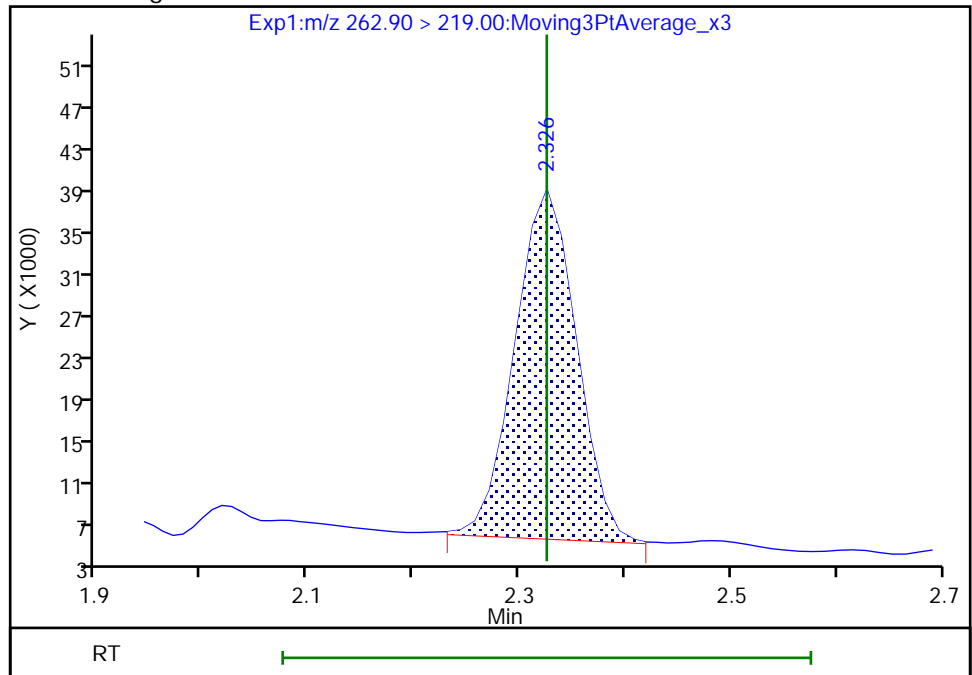
RT: 2.33  
Area: 135479  
Amount: 0.375089  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 136354  
Amount: 0.377512  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:45:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

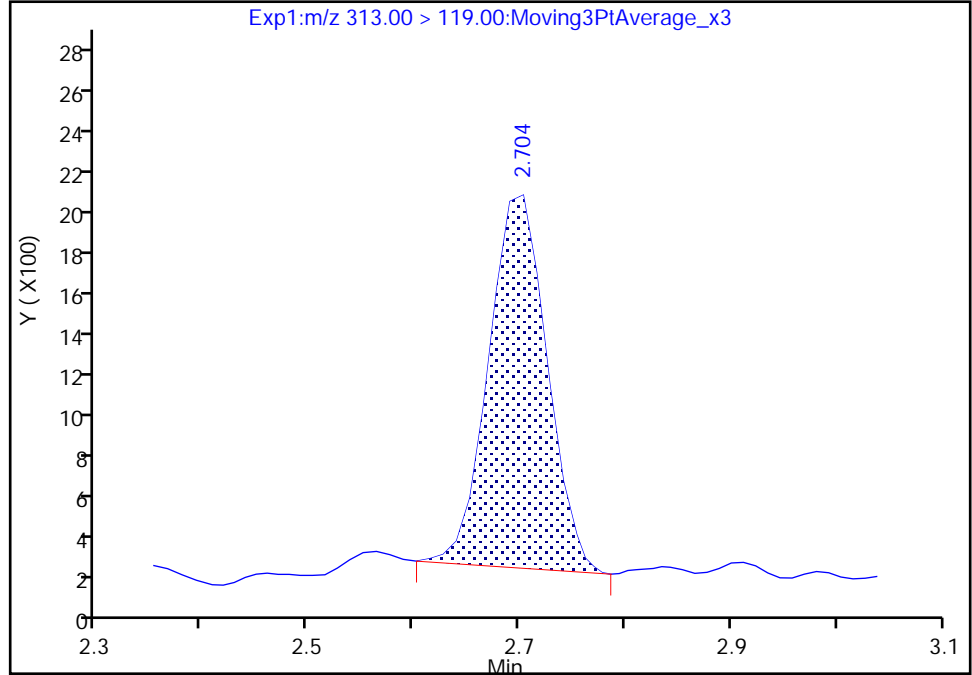
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

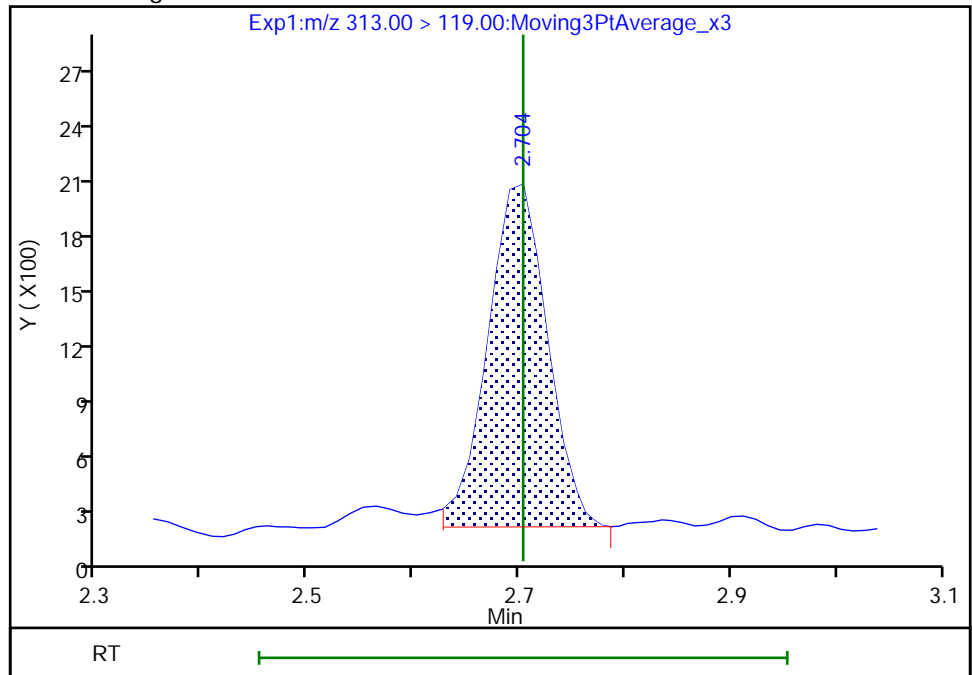
RT: 2.70  
Area: 7050  
Amount: 0.328261  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 7294  
Amount: 0.324920  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:46:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

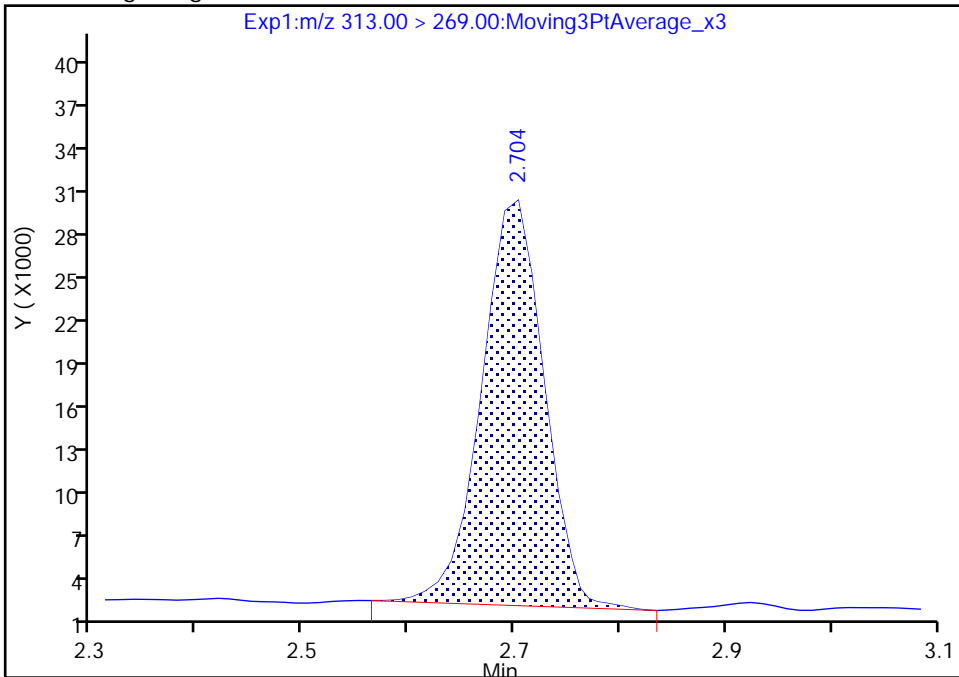
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

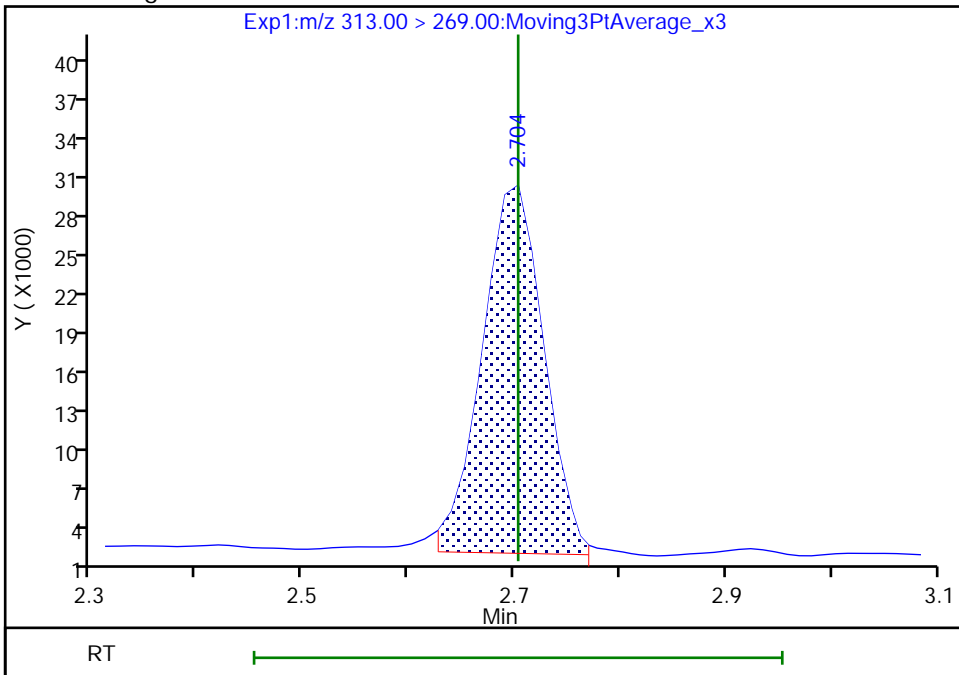
RT: 2.70  
Area: 115532  
Amount: 0.328261  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 114356  
Amount: 0.324920  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:46:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

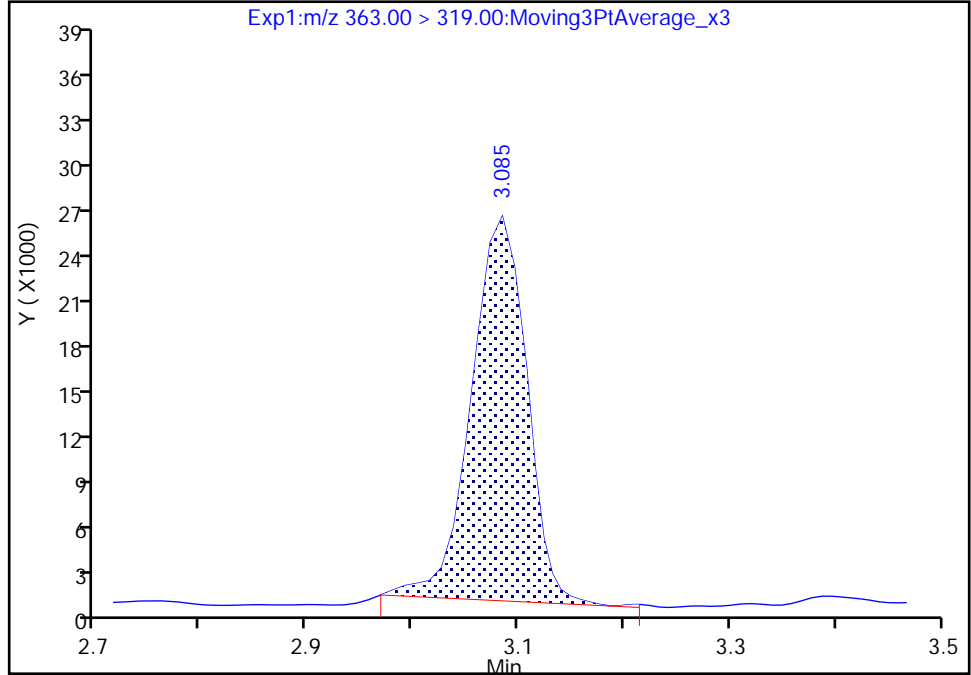
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

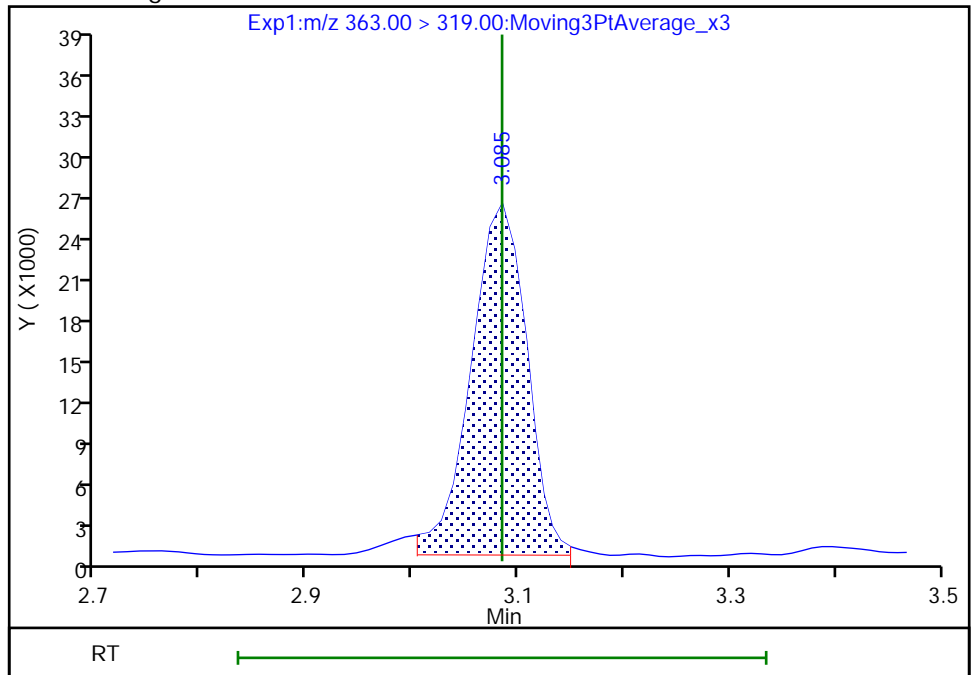
RT: 3.08  
Area: 92750  
Amount: 0.276782  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 93956  
Amount: 0.280381  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:47:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

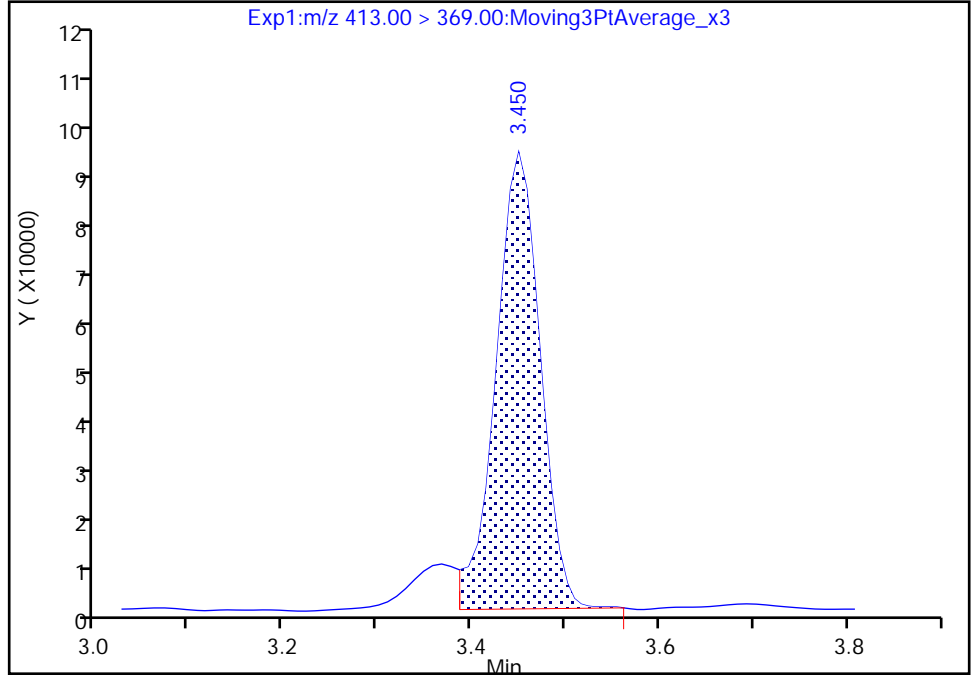
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

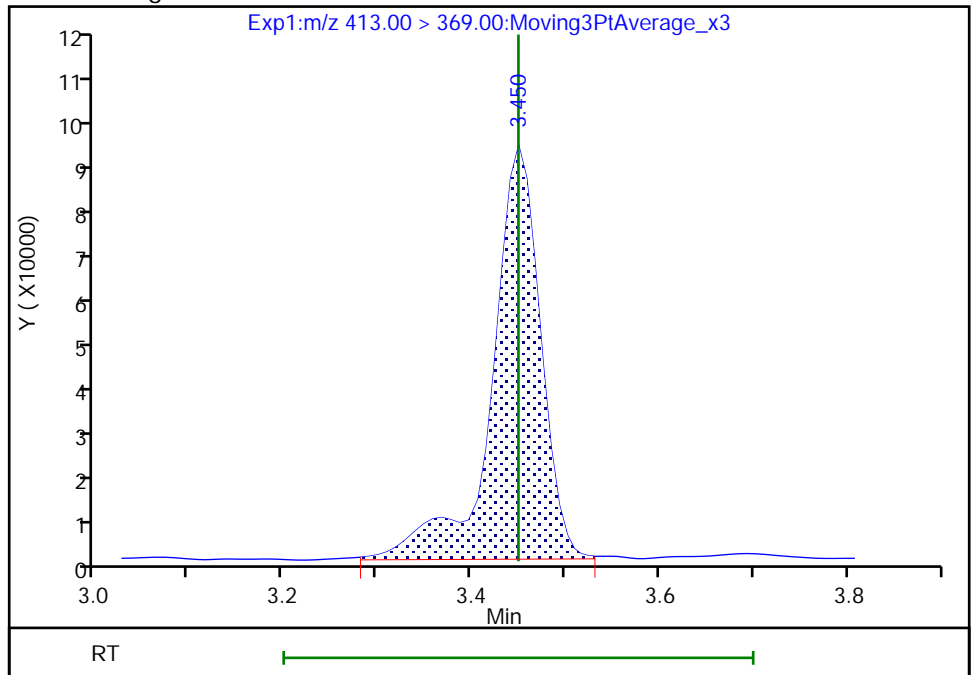
RT: 3.45  
Area: 288487  
Amount: 0.882120  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 321657  
Amount: 0.983546  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:48:17  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

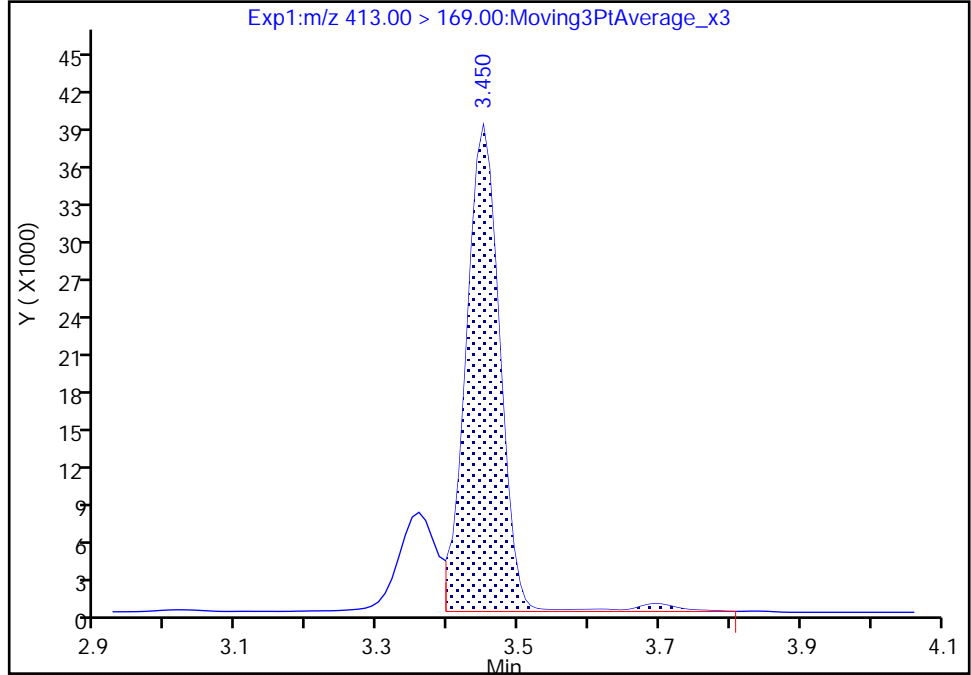
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

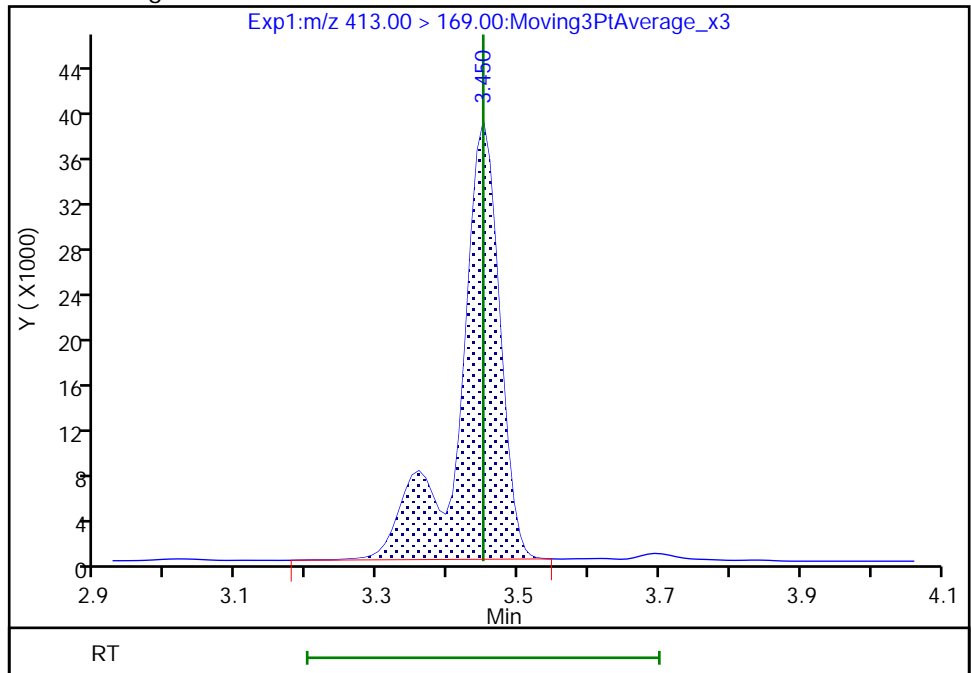
RT: 3.45  
Area: 131165  
Amount: 0.882120  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 156305  
Amount: 0.983546  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

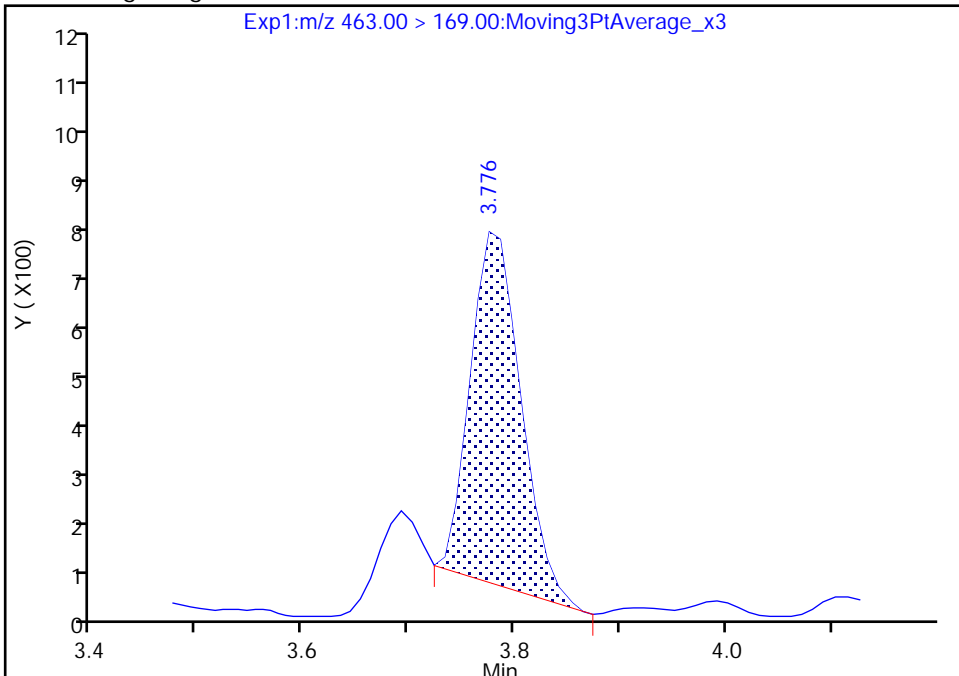
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

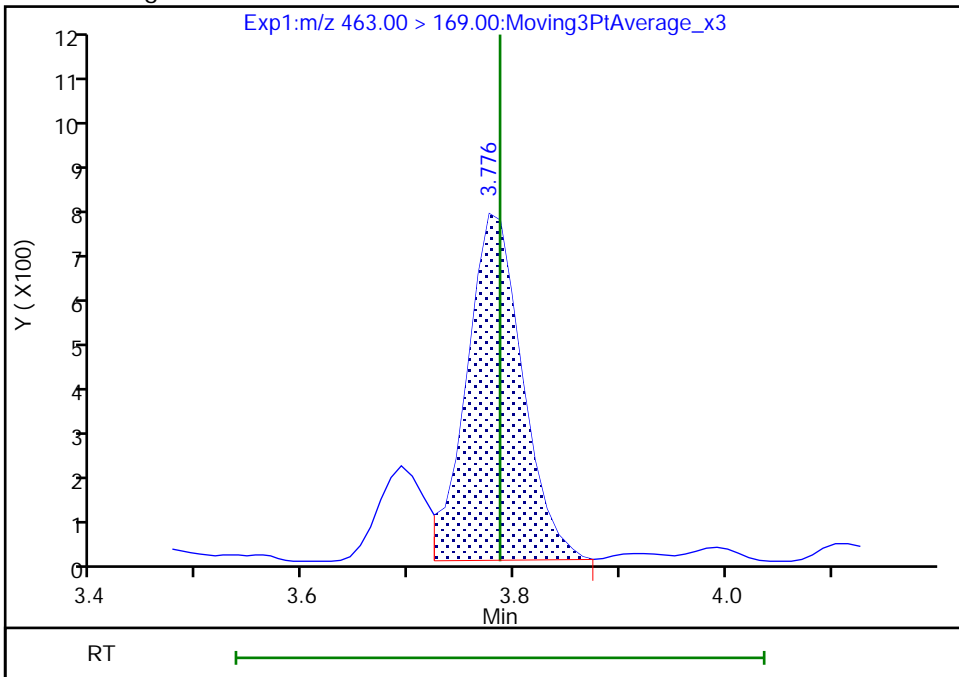
RT: 3.78  
Area: 2340  
Amount: 0.057914  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 2795  
Amount: 0.066368  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:49:06  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

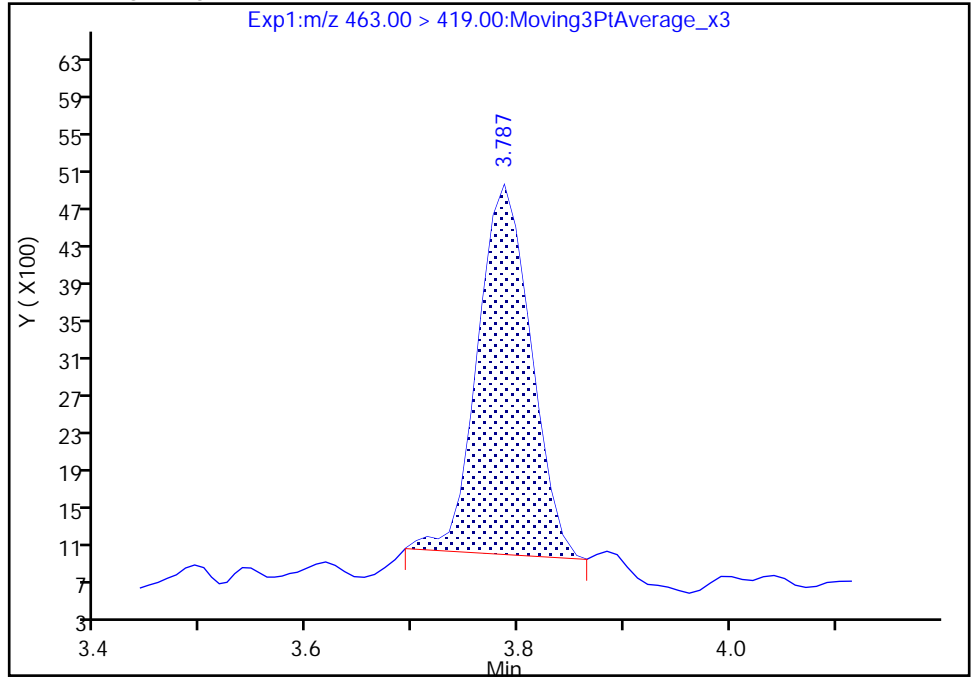
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

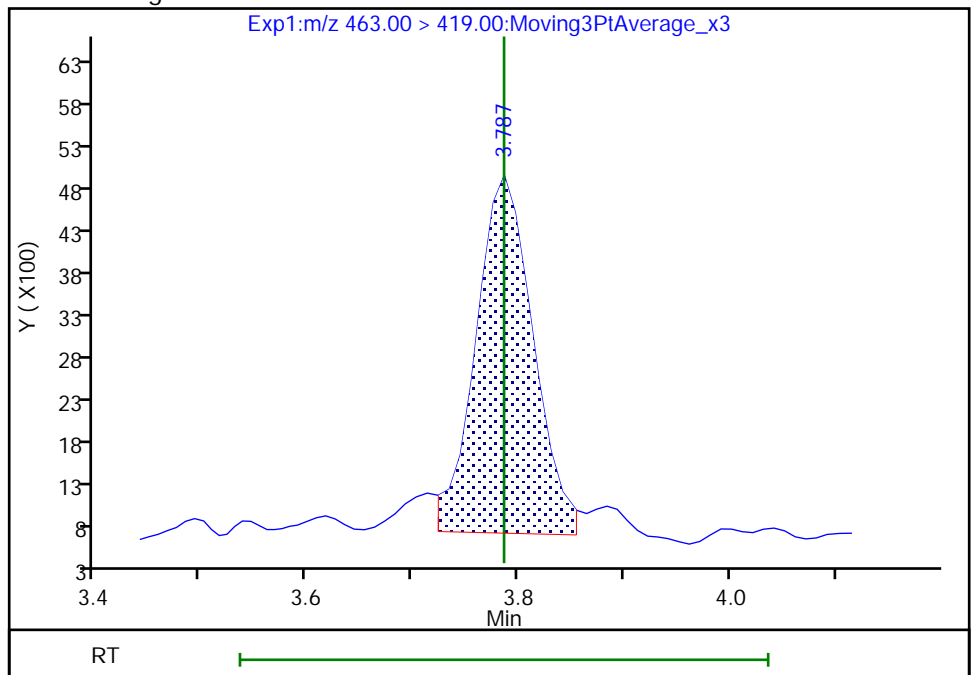
RT: 3.79  
Area: 13639  
Amount: 0.057914  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 15630  
Amount: 0.066368  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:49:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

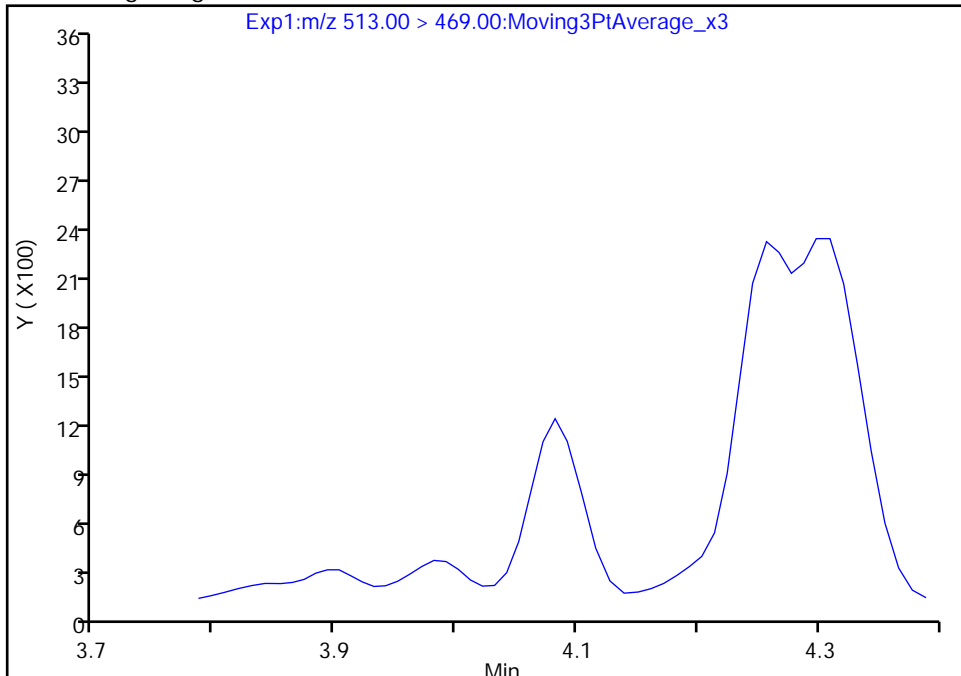
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

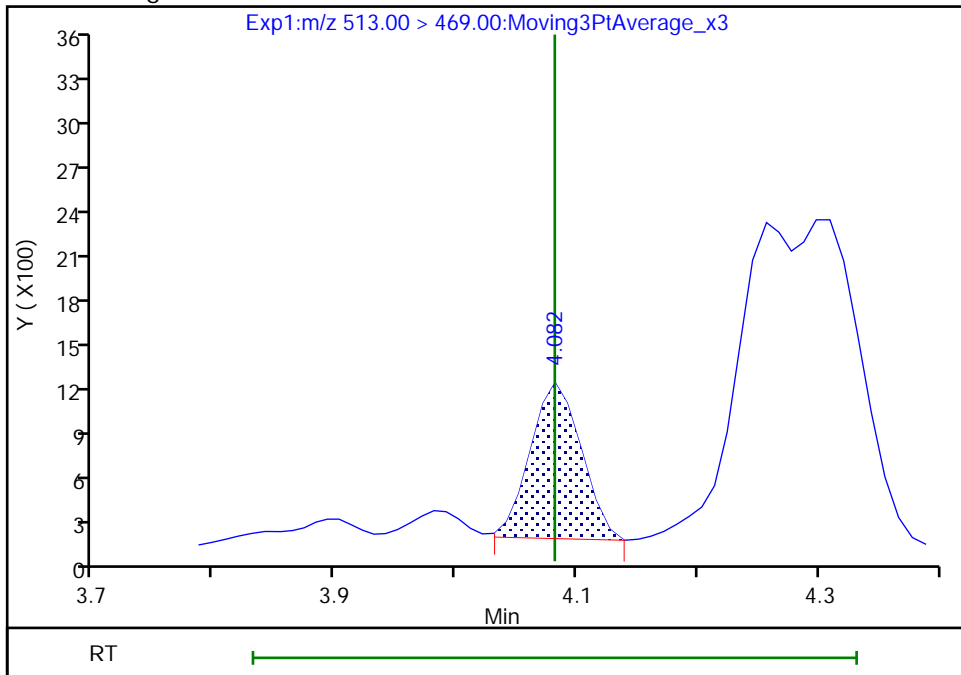
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 2991  
Amount: 0.013428  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:49:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

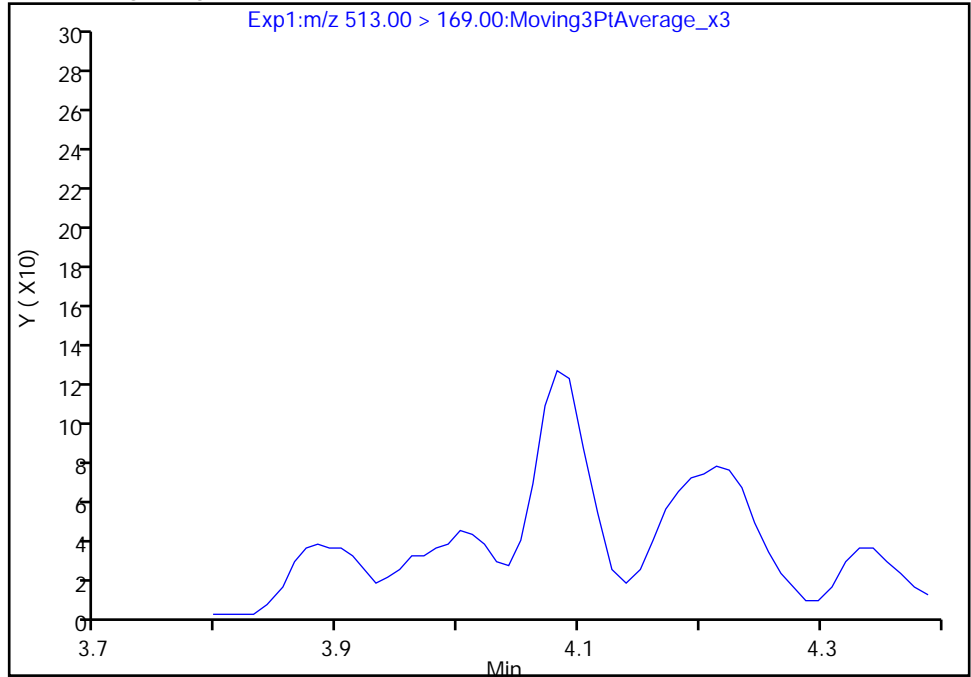
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

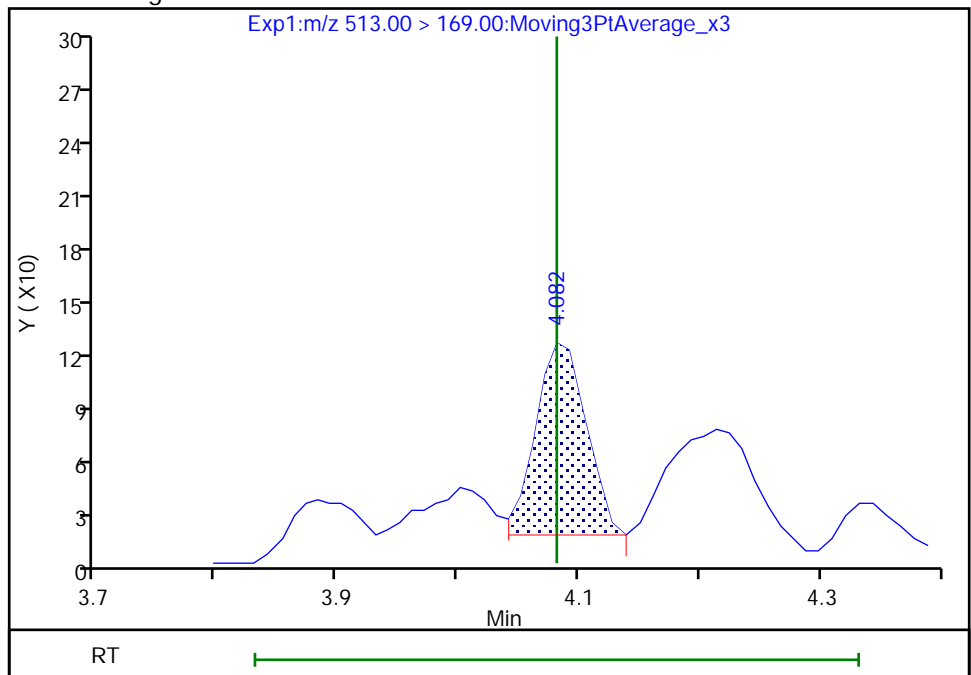
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 314  
Amount: 0.013428  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

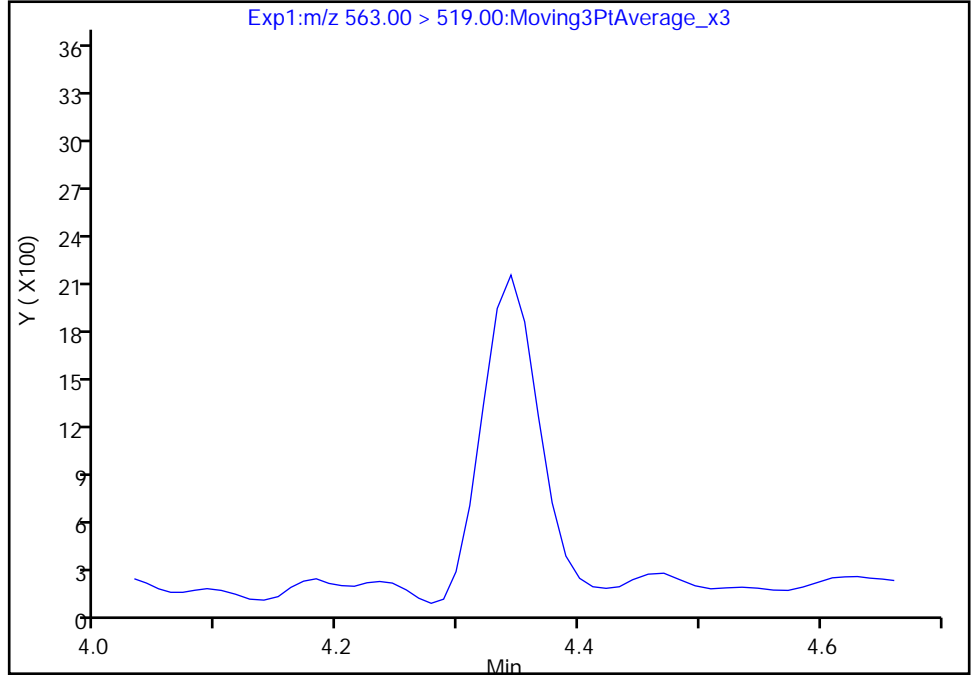
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

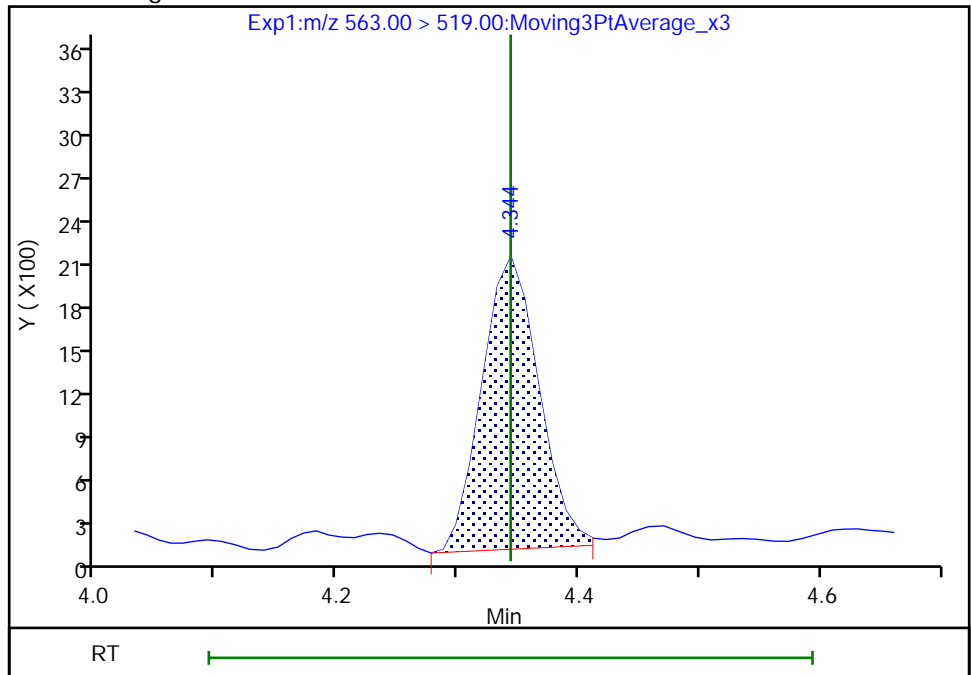
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 6650  
Amount: 0.020935  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:50:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

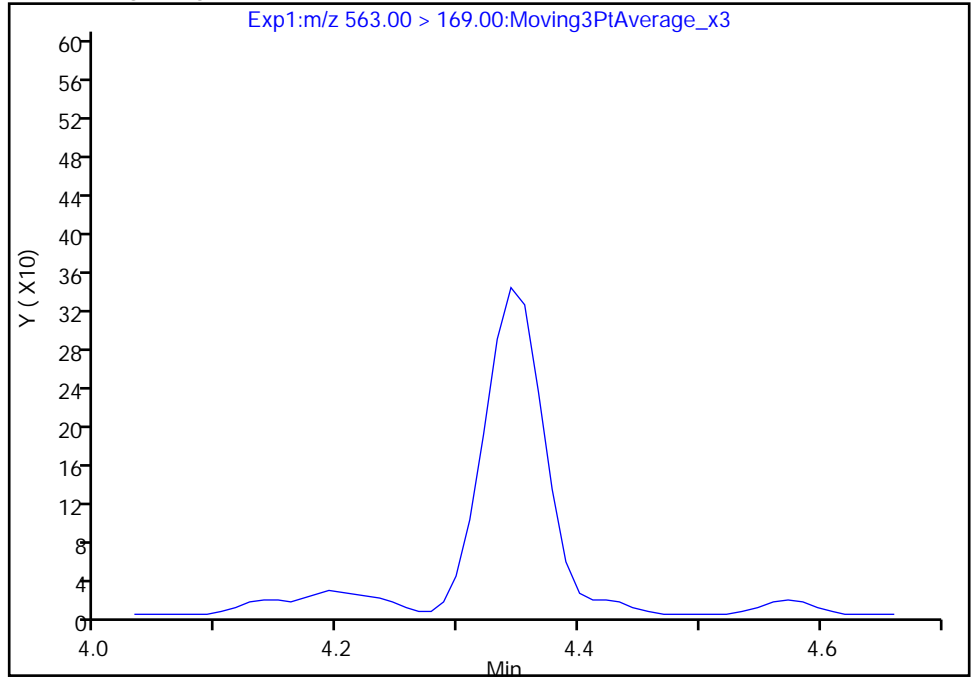
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

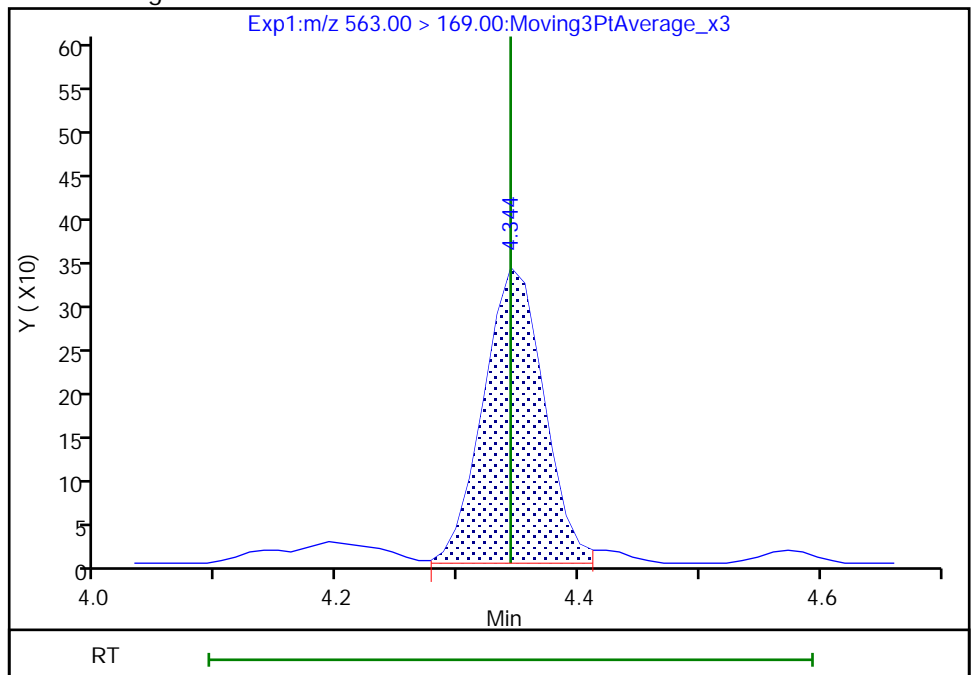
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 1187  
Amount: 0.020935  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

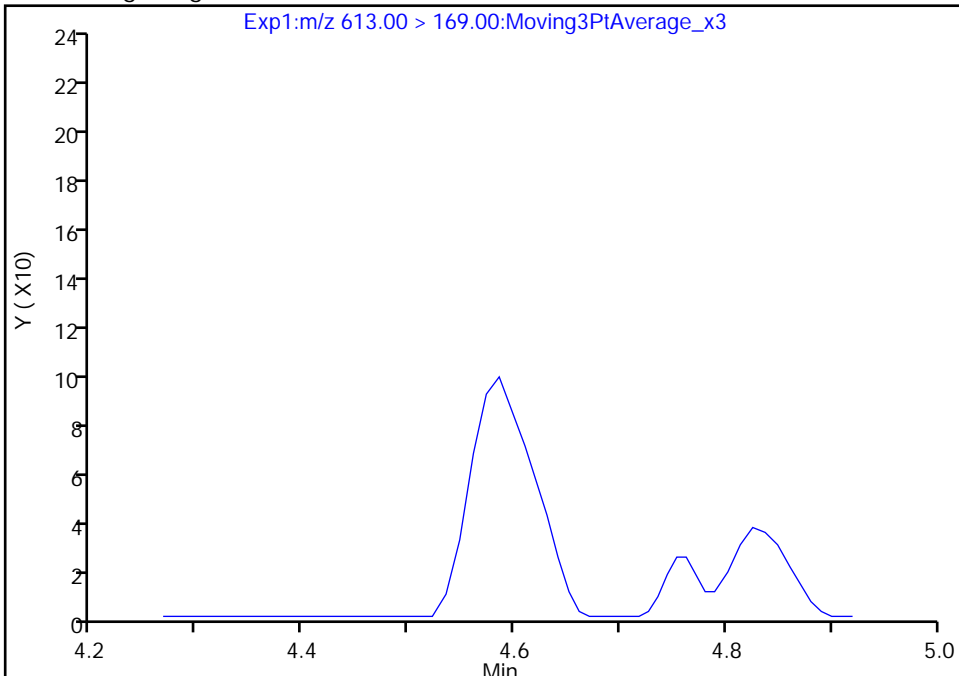
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

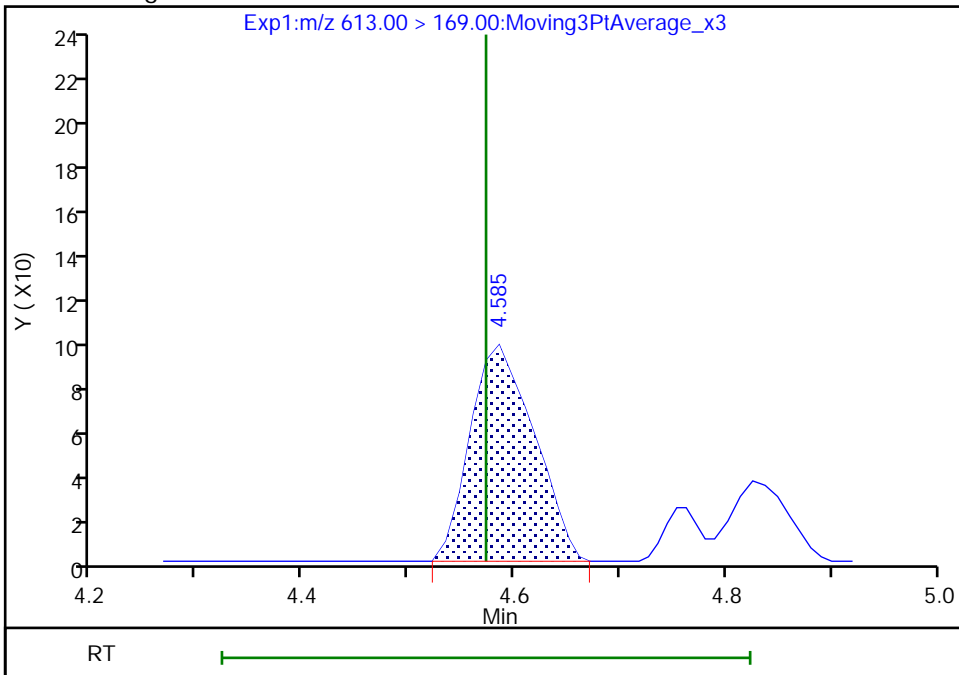
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.59  
Area: 407  
Amount: 0.009750  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:51:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

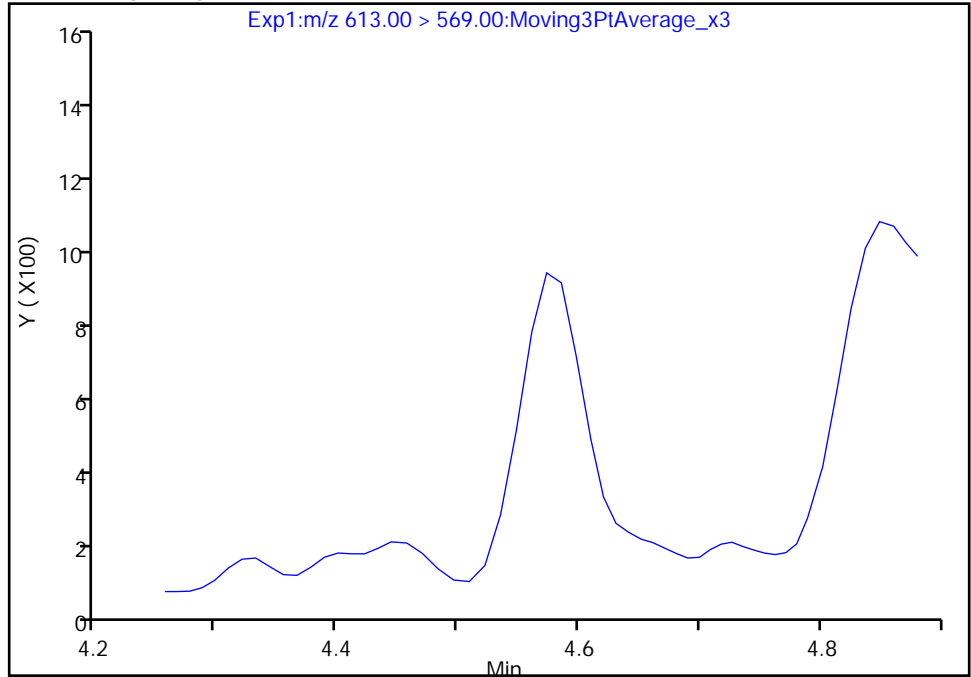
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

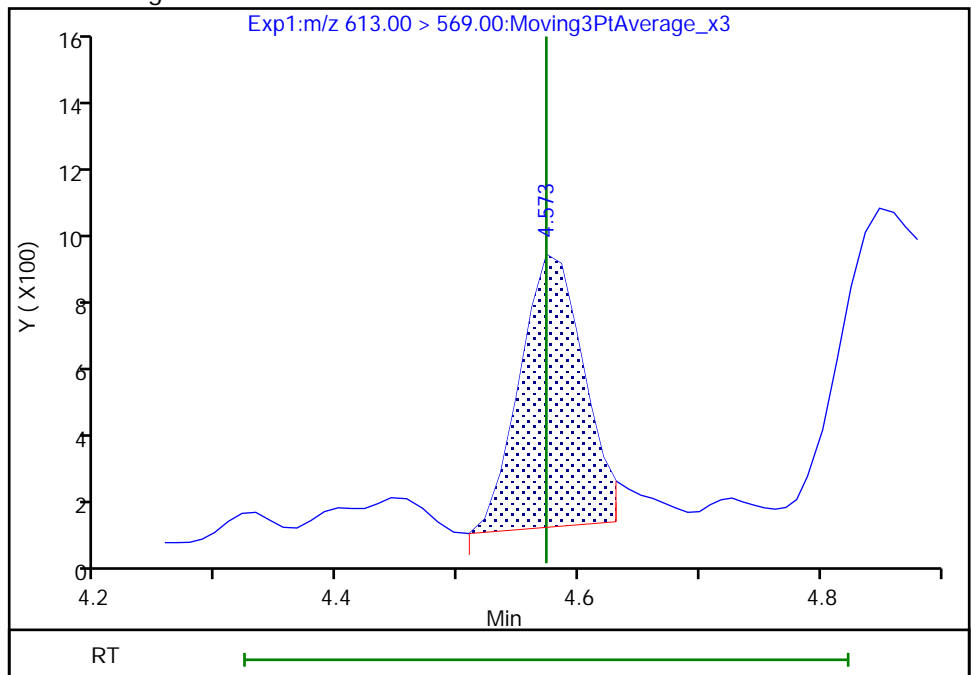
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57  
Area: 2856  
Amount: 0.009750  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

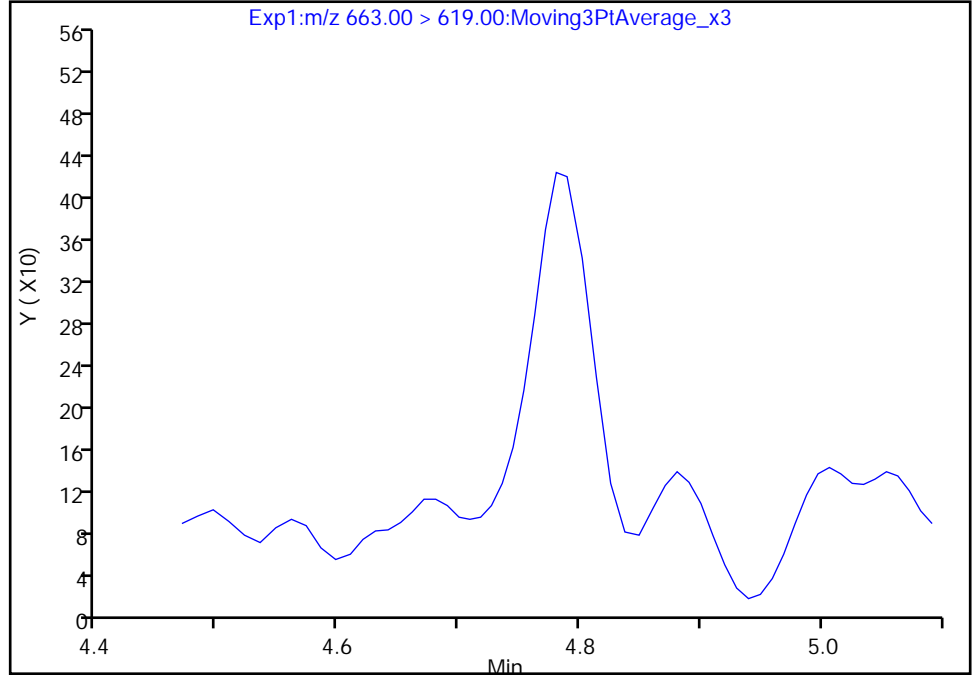
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

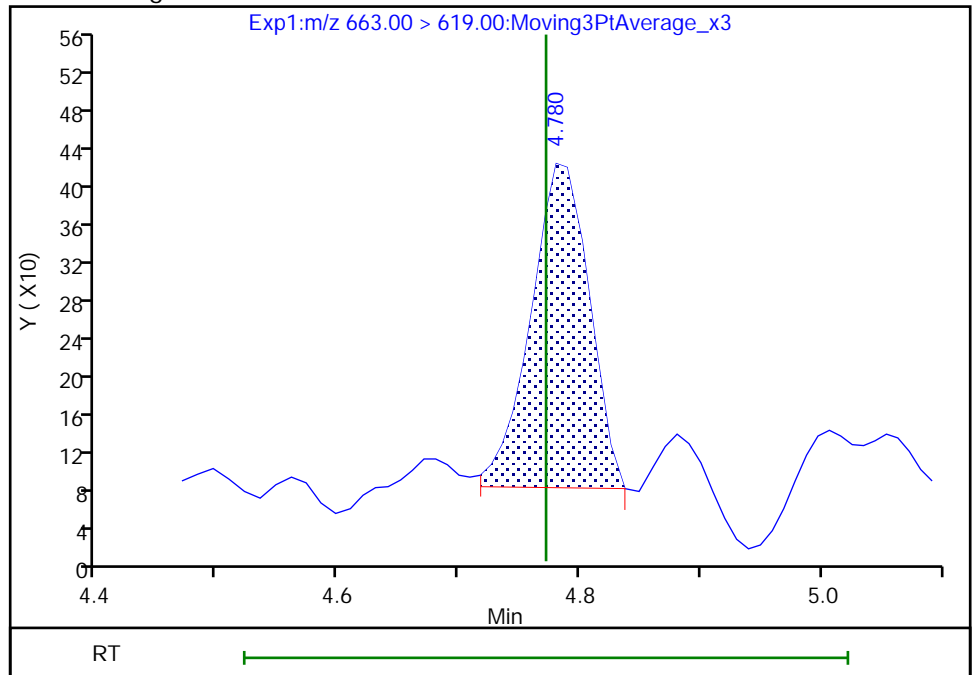
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.78  
Area: 1136  
Amount: 0.004567  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:51:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

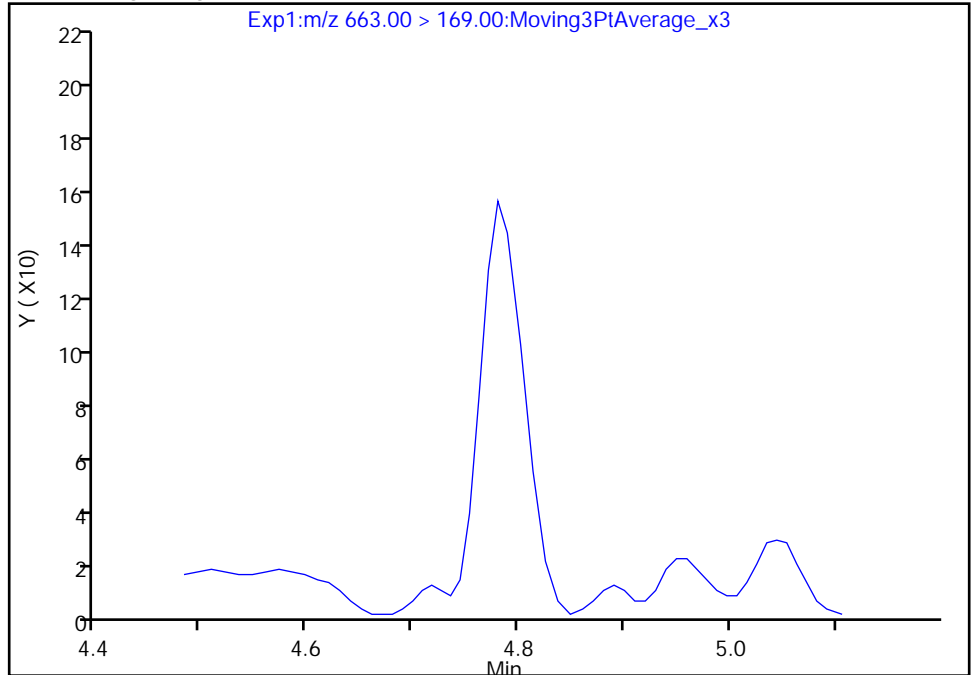
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

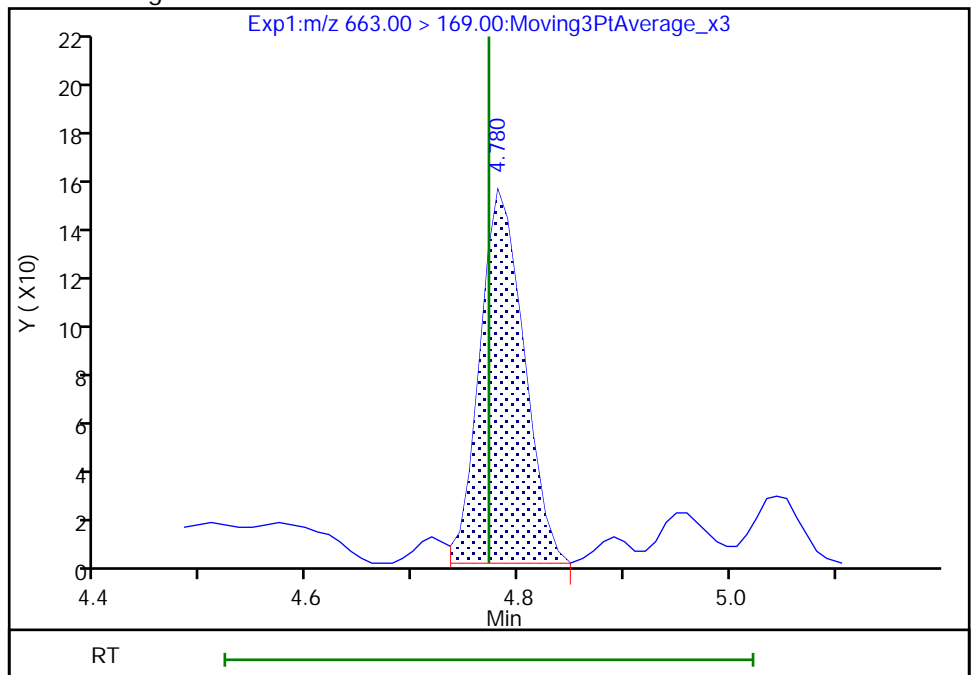
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.78  
Area: 449  
Amount: 0.004567  
Amount Units: ng/ml





Eurofins TestAmerica, Burlington

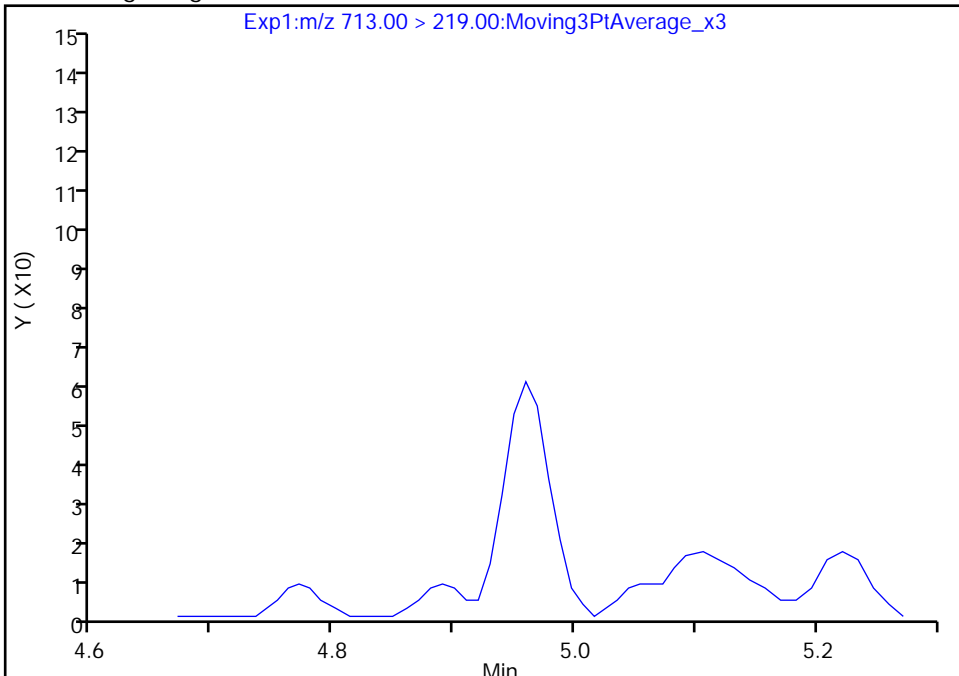
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

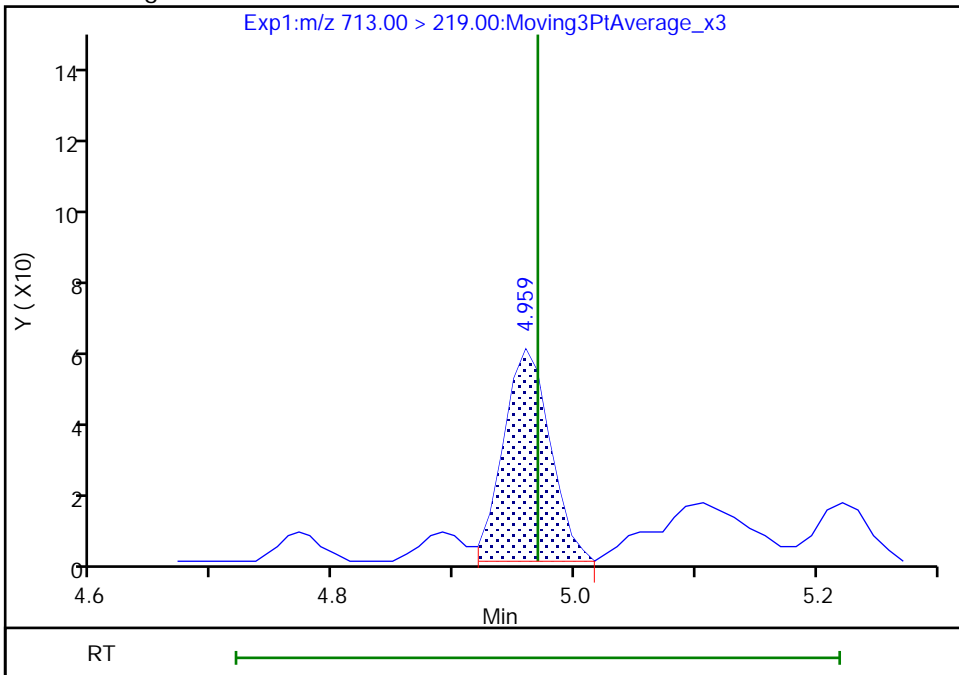
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.96  
Area: 154  
Amount: 0.002226  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:52:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

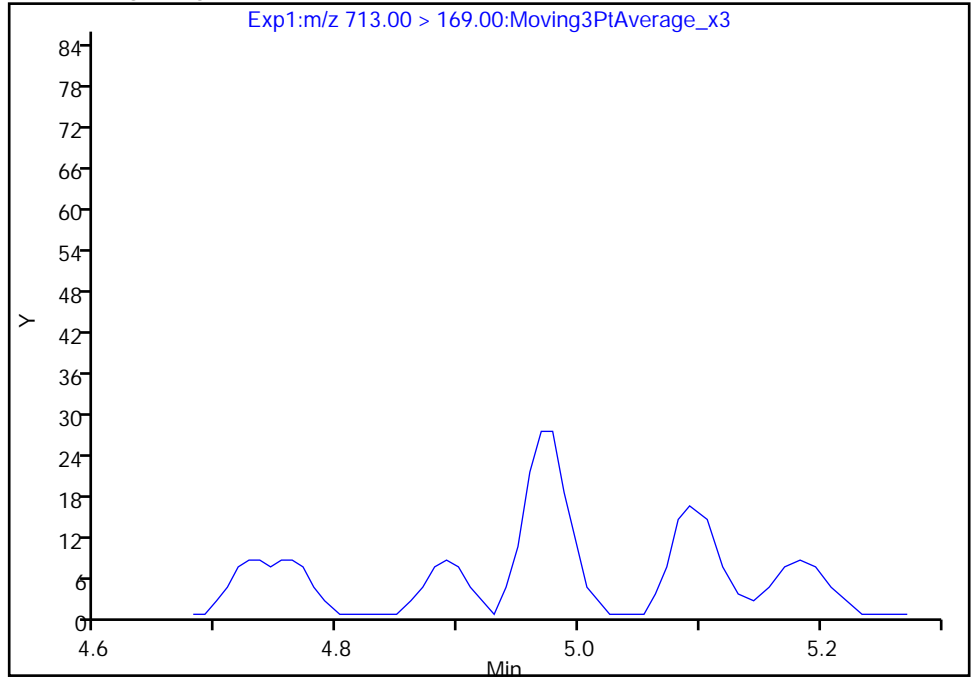
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

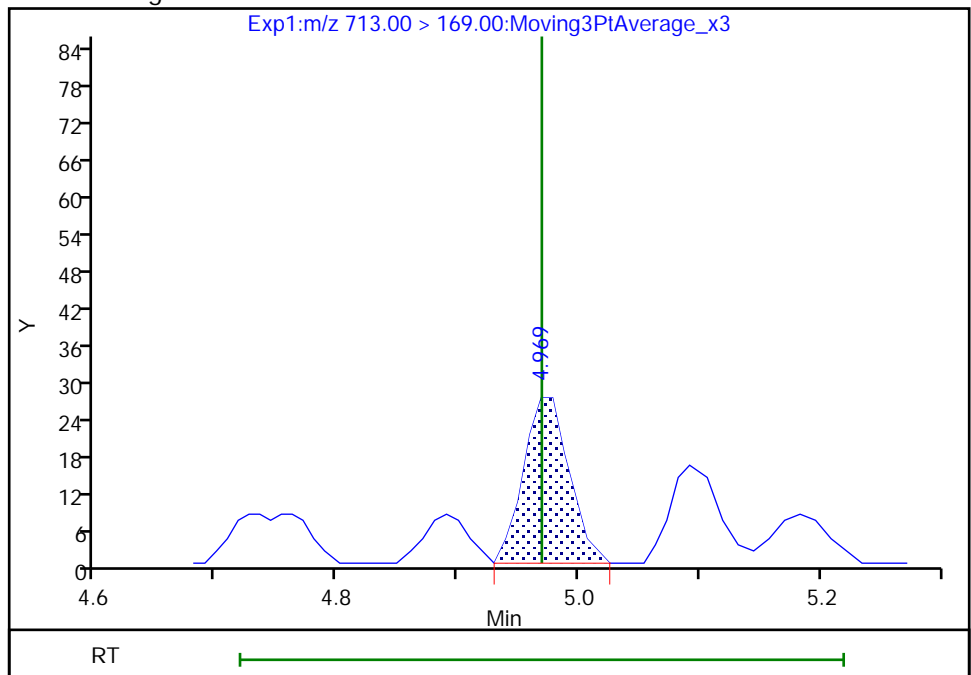
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 70  
Amount: 0.002226  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

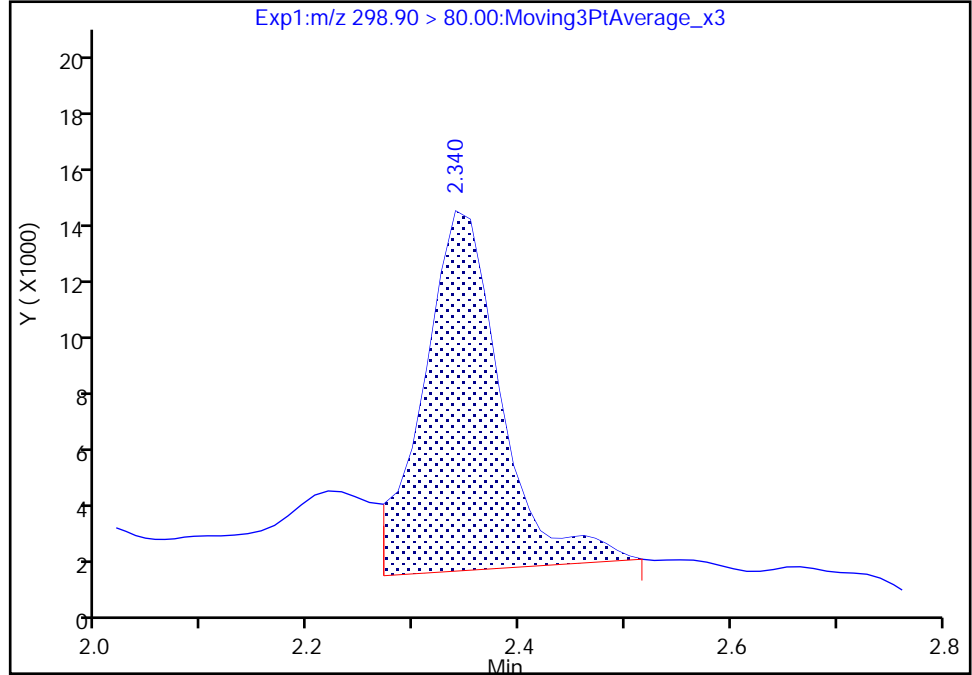
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

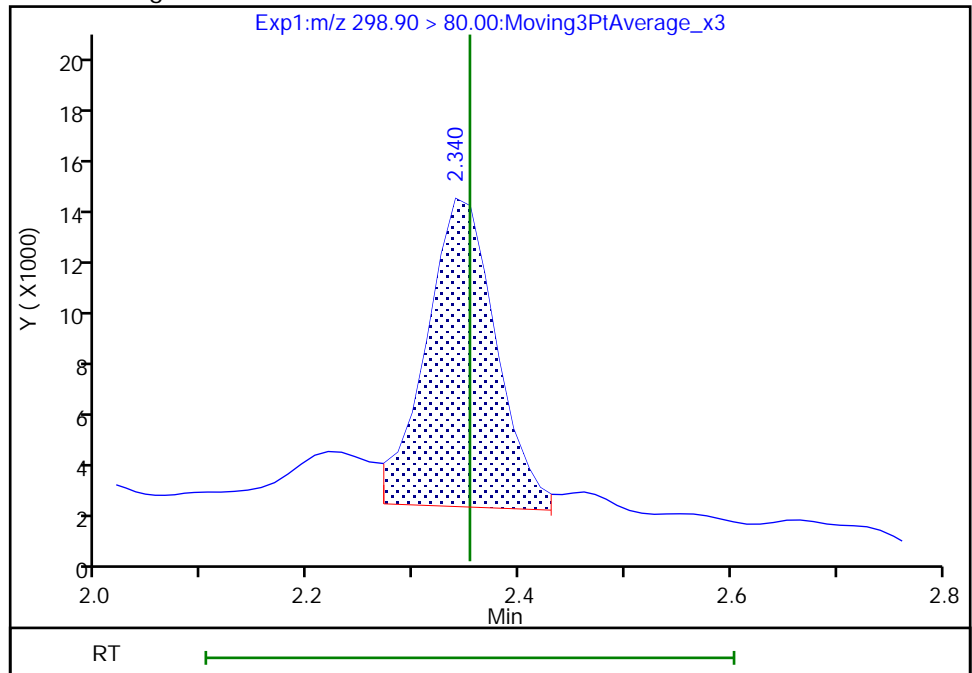
RT: 2.34  
Area: 65177  
Amount: 0.170439  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 55690  
Amount: 0.145631  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:46:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

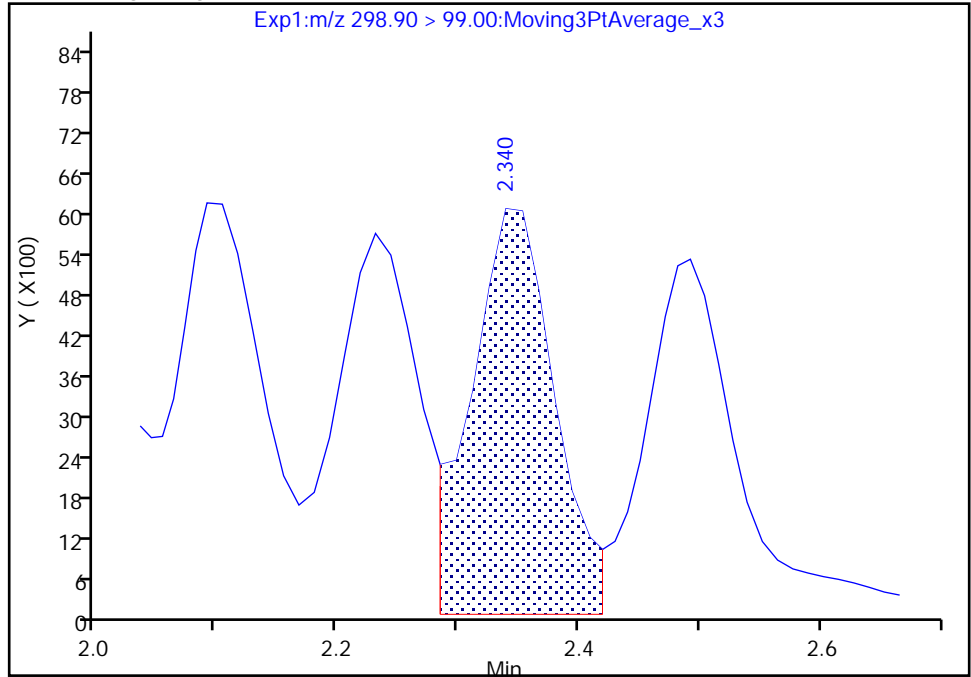
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

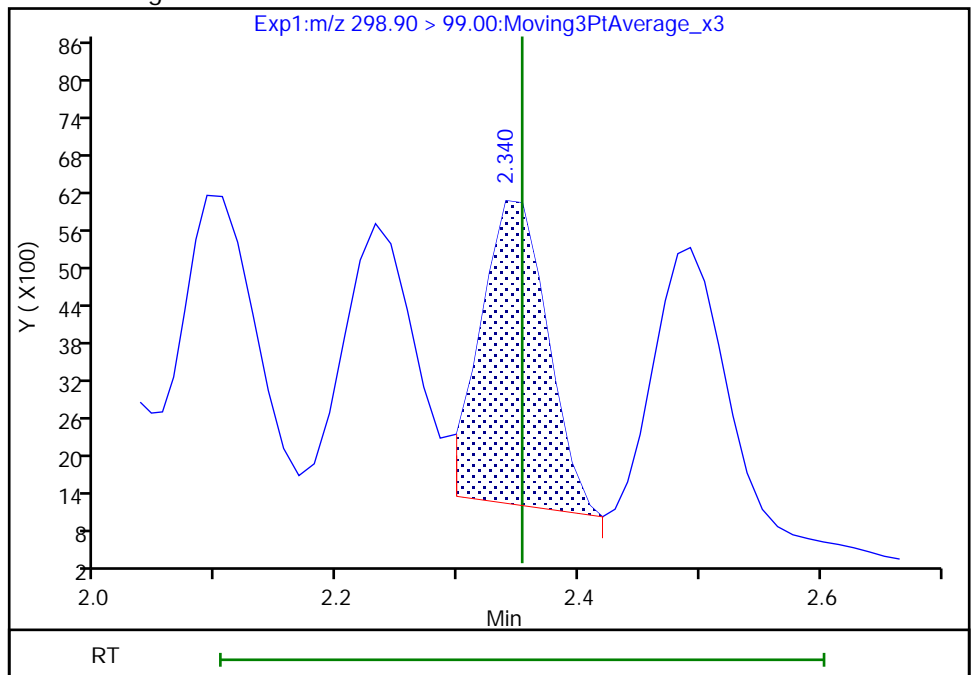
RT: 2.34  
Area: 28599  
Amount: 0.170439  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 18573  
Amount: 0.145631  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:46:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

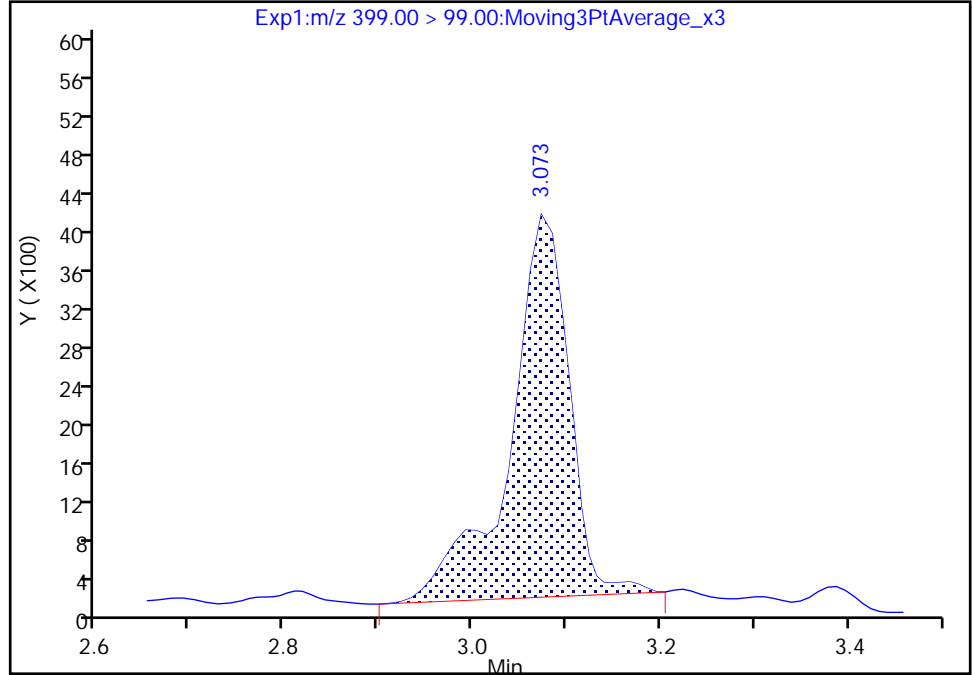
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

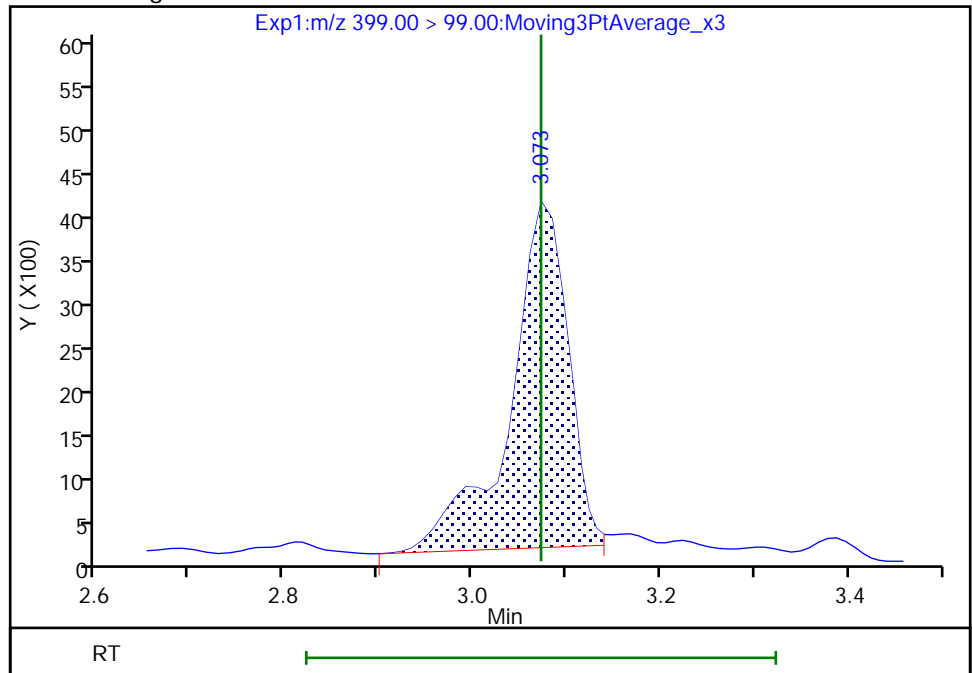
RT: 3.07  
Area: 17320  
Amount: 0.218128  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 17022  
Amount: 0.259084  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:46:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

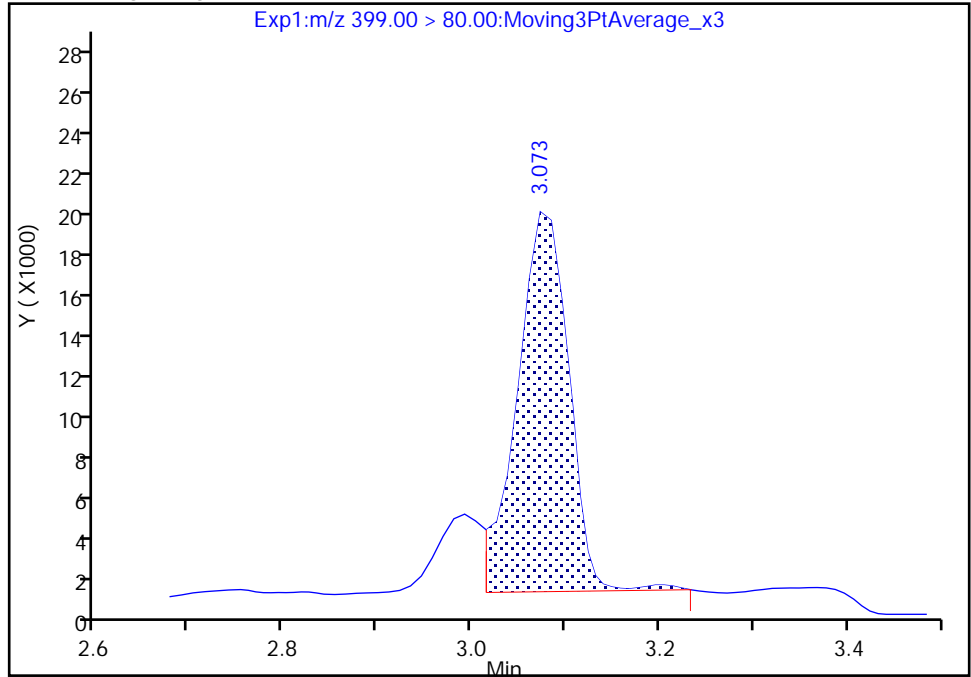
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

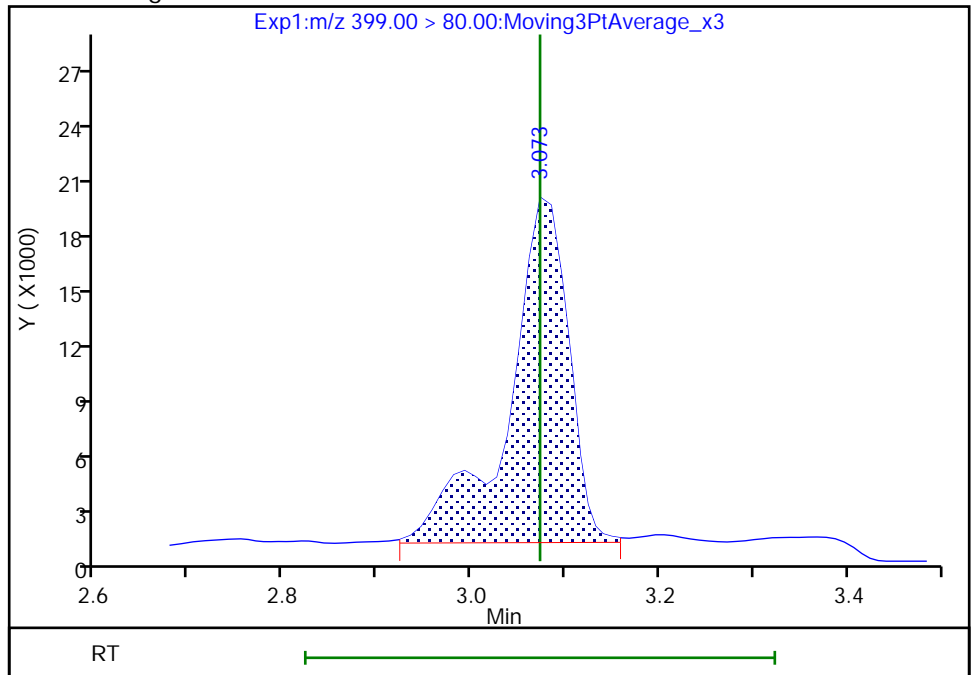
RT: 3.07  
Area: 69071  
Amount: 0.218128  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 82040  
Amount: 0.259084  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:46:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

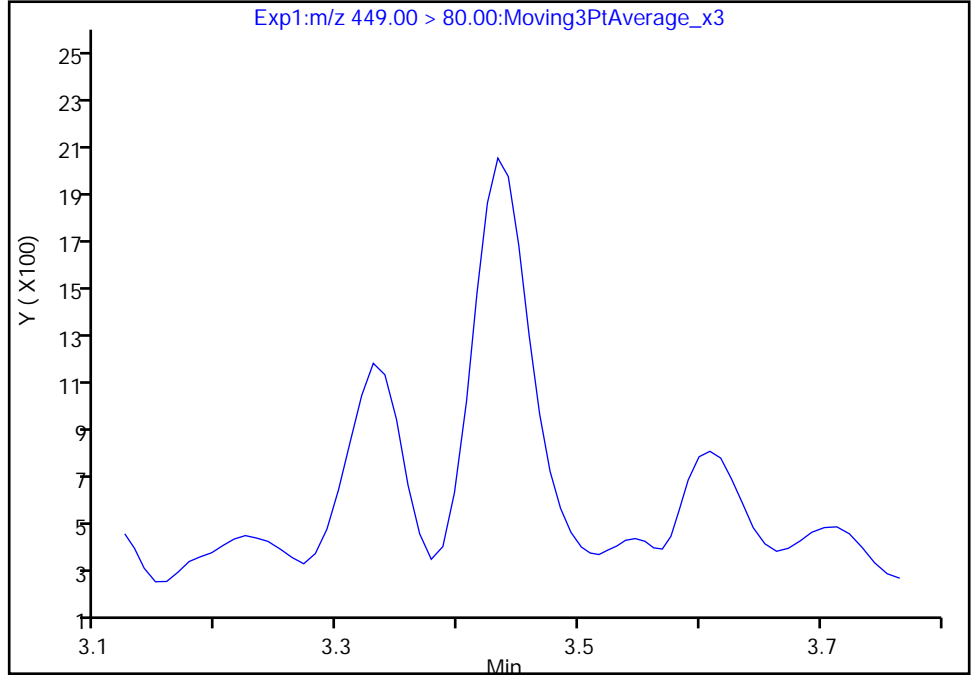
Data File:	\\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d				
Injection Date:	30-Sep-2020 20:43:37	Instrument ID:	LC812		
Lims ID:	480-175657-C-3-A	Lab Sample ID:	200-175657-3		
Client ID:	MW-3B				
Operator ID:	lc812tech	ALS Bottle#:	19	Worklist Smp#:	19
Injection Vol:	20.0 ul	Dil. 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

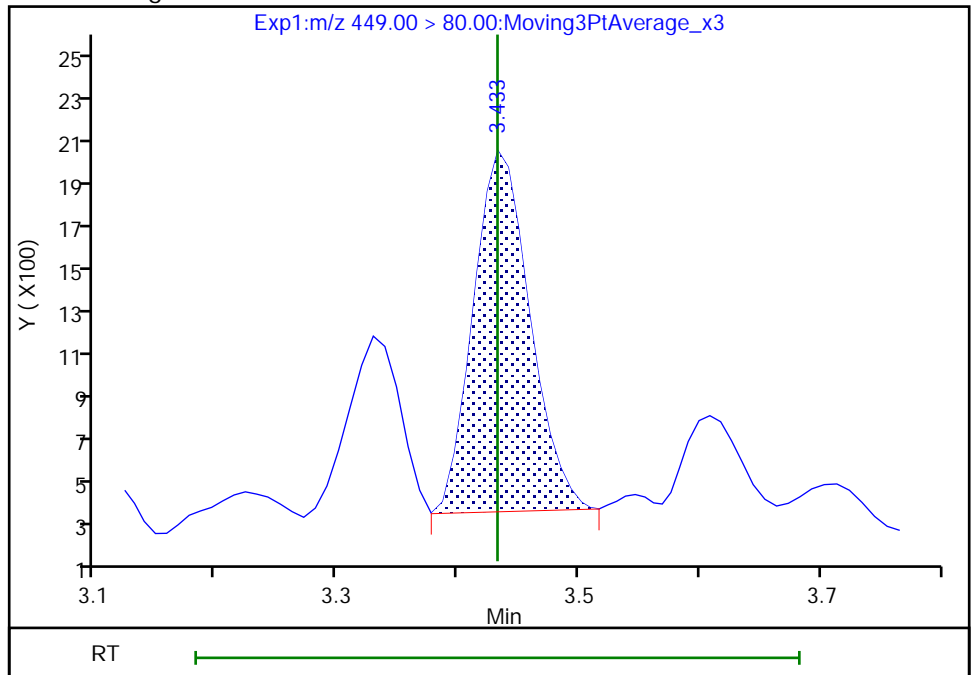
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43  
Area: 5202  
Amount: 0.021796  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:47:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

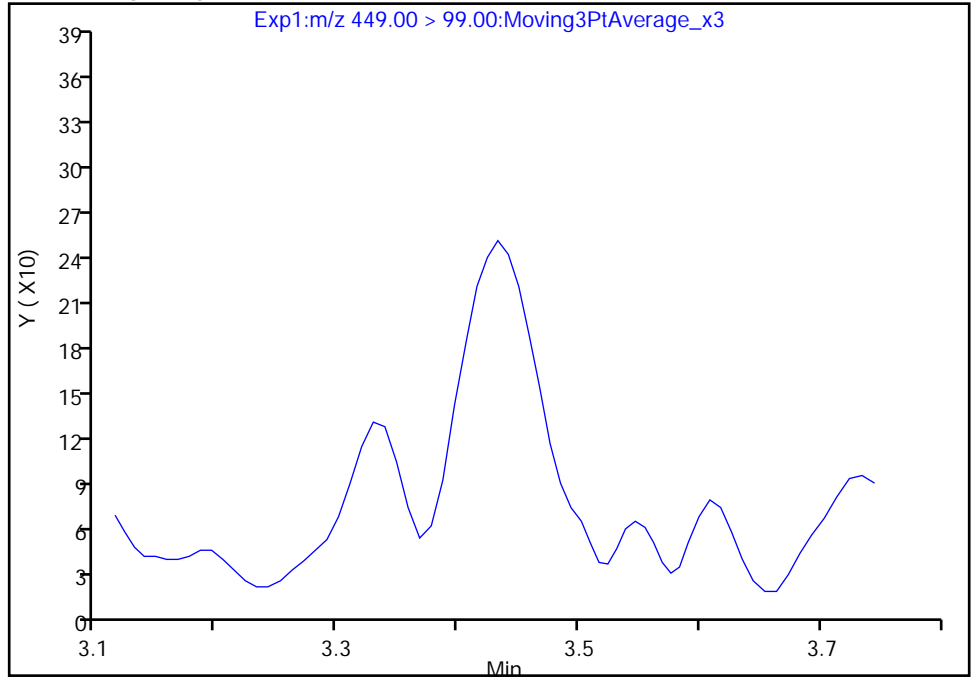
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

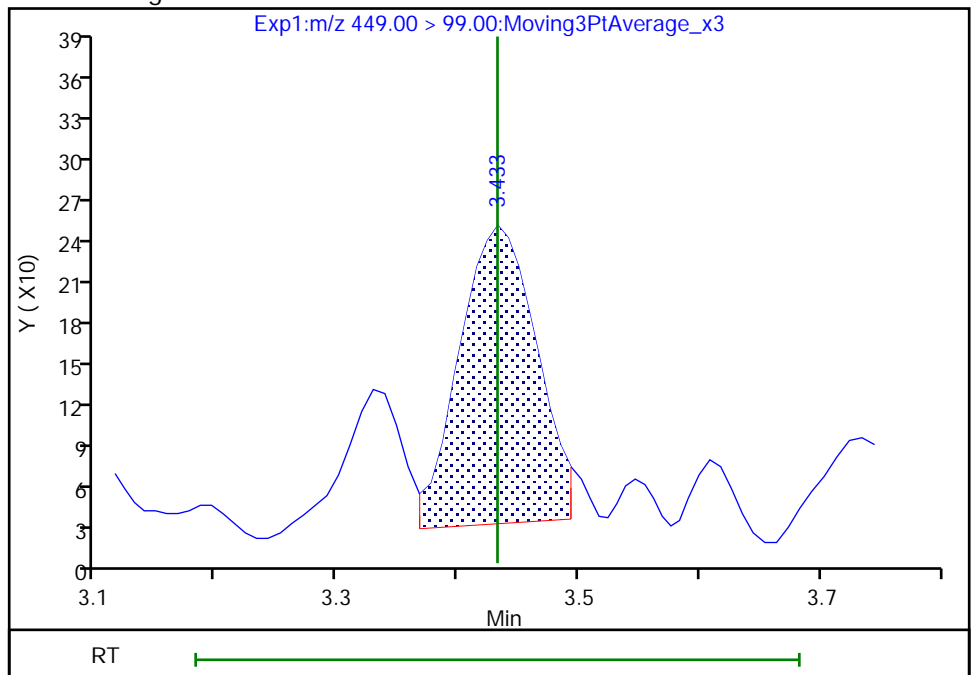
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43  
Area: 952  
Amount: 0.021796  
Amount Units: ng/ml





Eurofins TestAmerica, Burlington

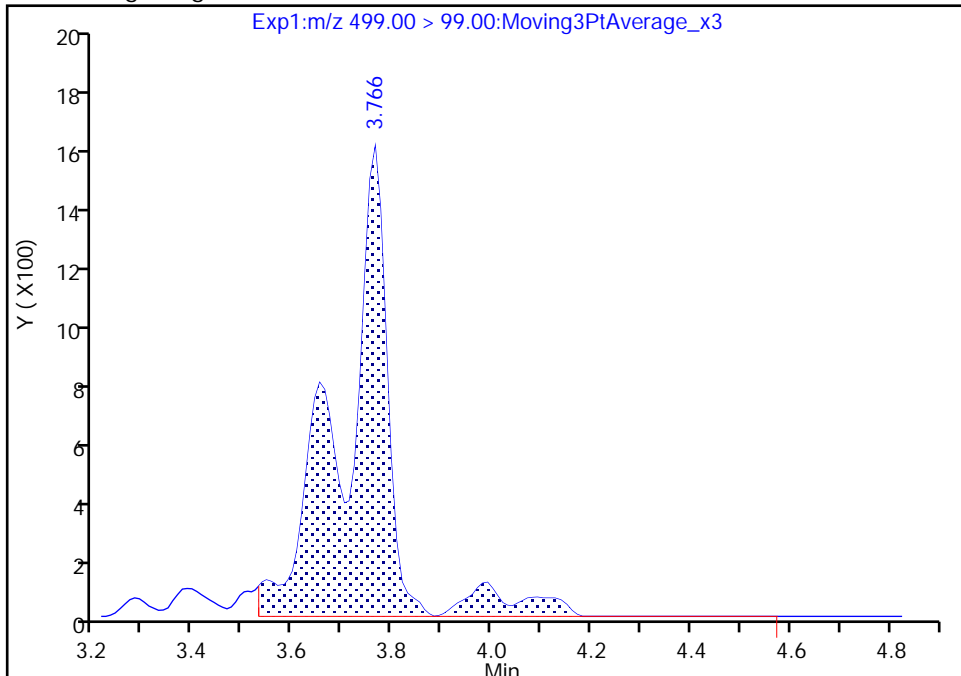
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

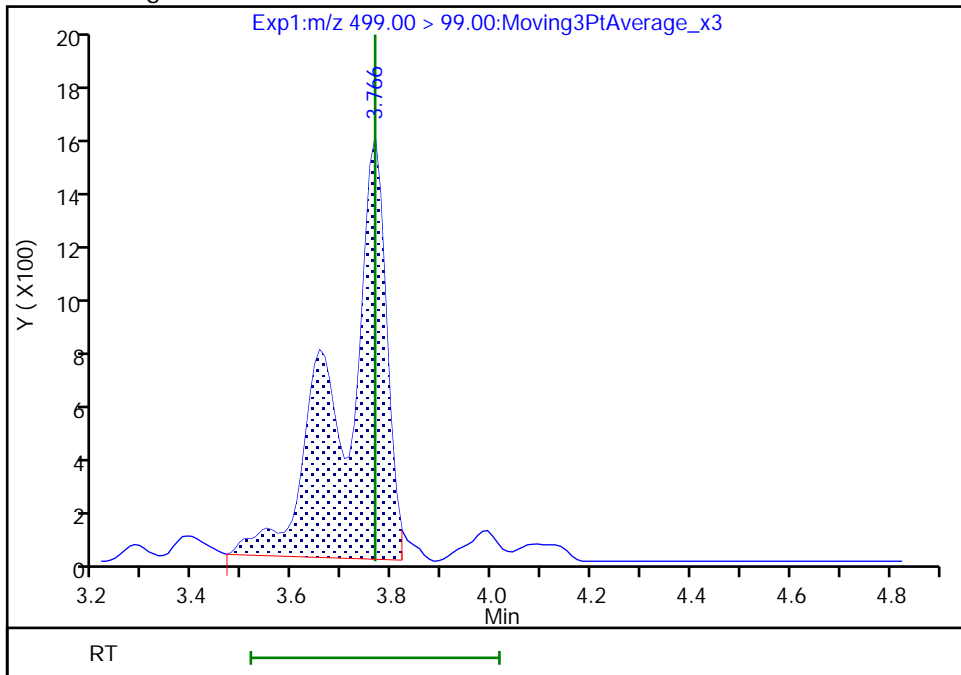
RT: 3.77  
Area: 10541  
Amount: 0.489014  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 9401  
Amount: 0.443718  
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 01-Oct-2020 14:53:57  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

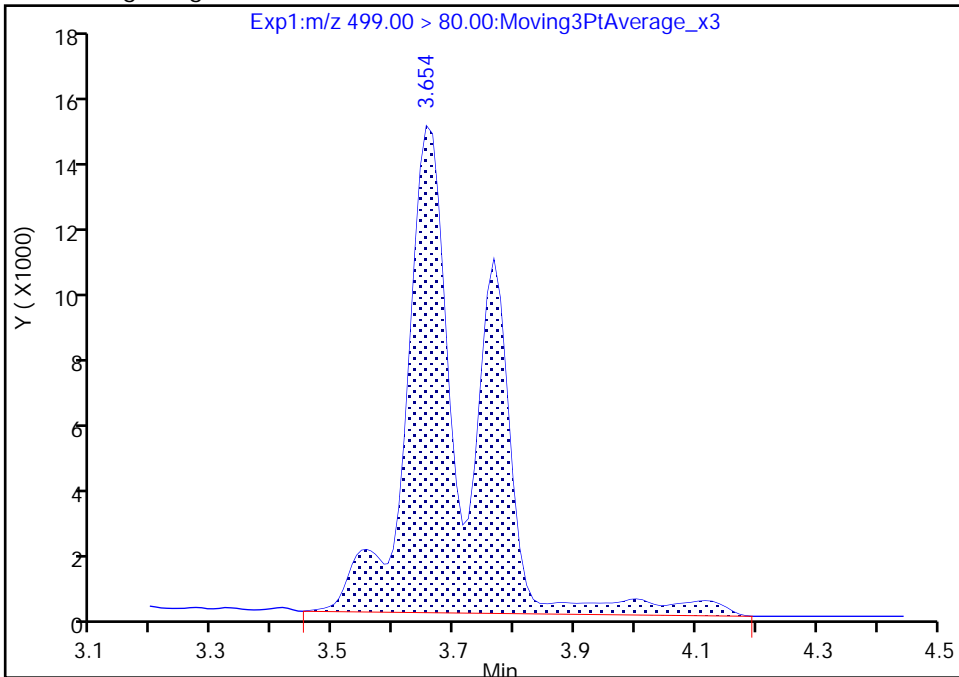
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

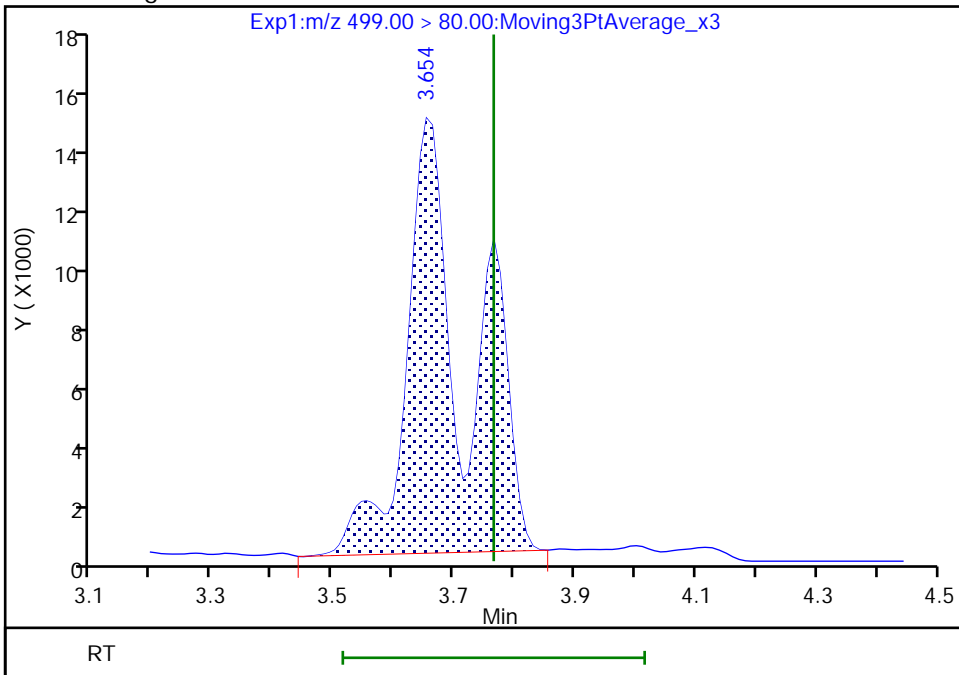
RT: 3.65  
Area: 109472  
Amount: 0.489014  
Amount Units: ng/ml

Processing Integration Results



RT: 3.65  
Area: 99332  
Amount: 0.443718  
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 01-Oct-2020 14:54:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

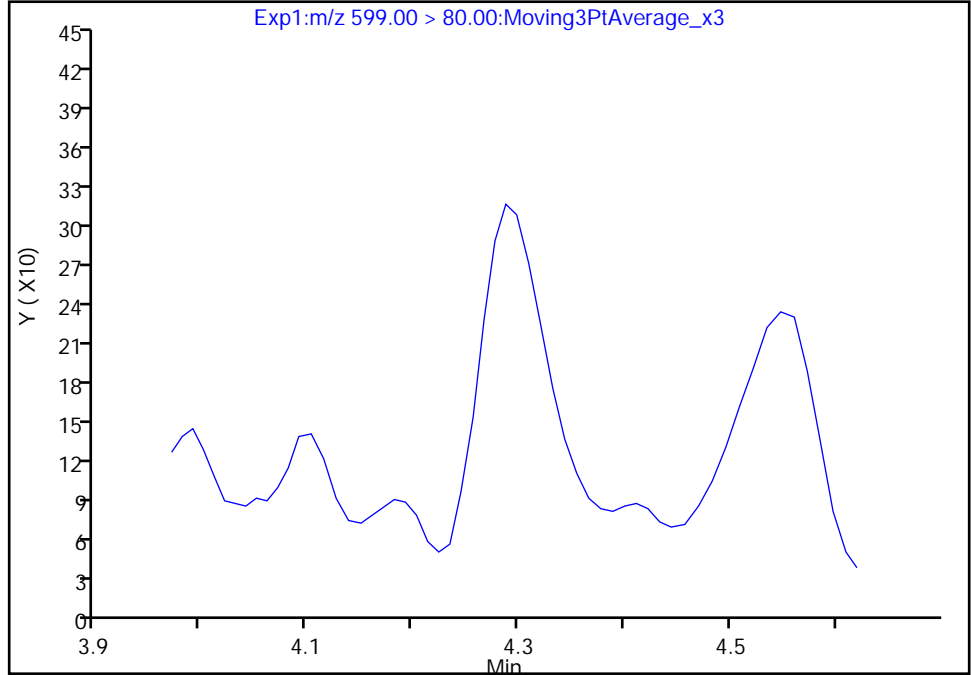
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

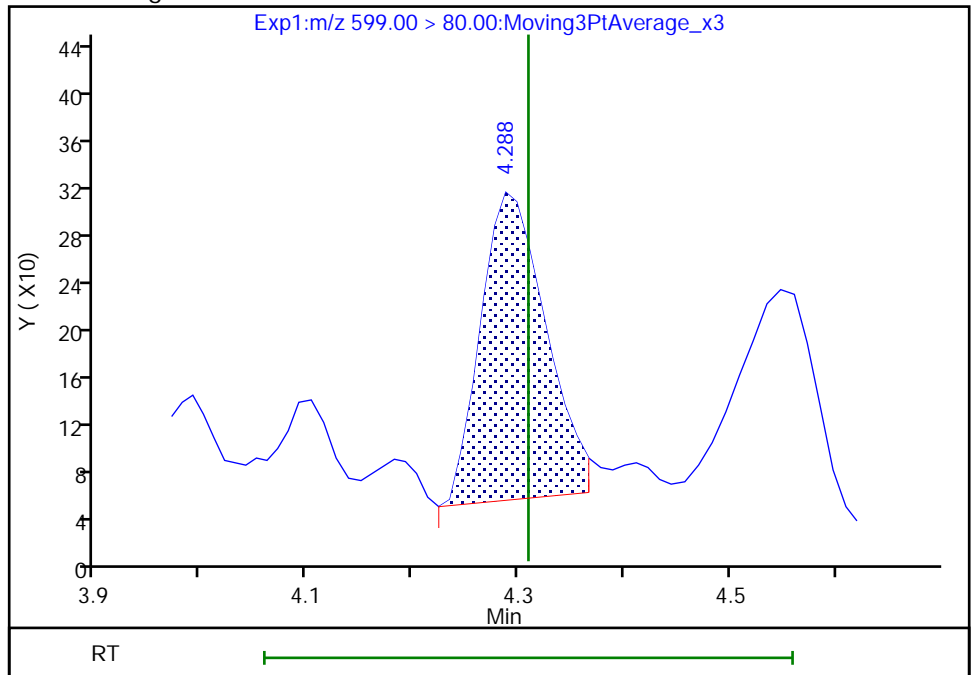
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.29  
Area: 1104  
Amount: 0.007458  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:50:06  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

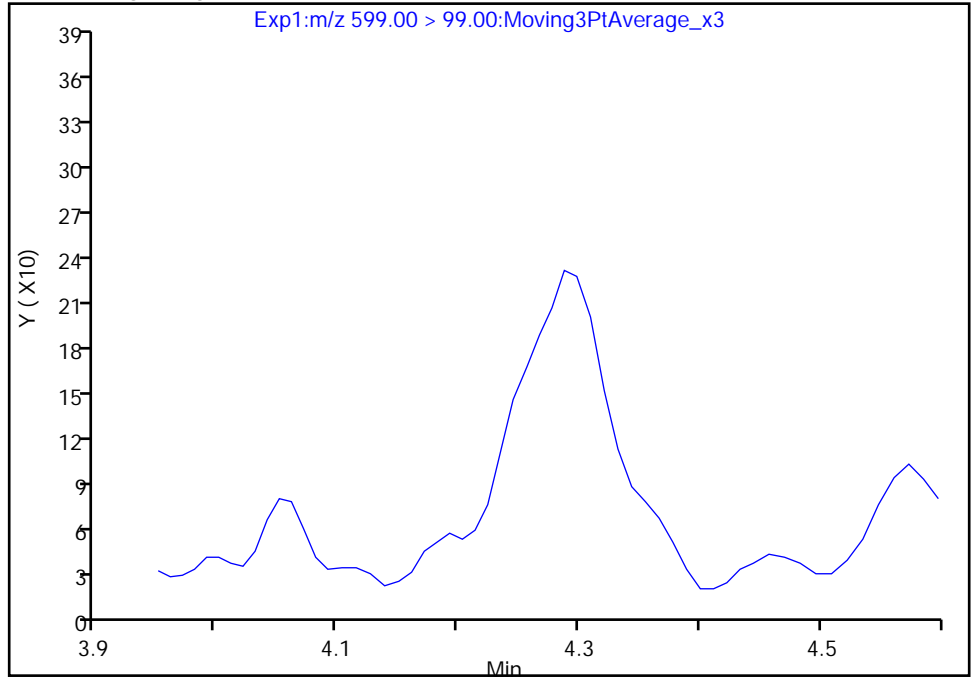
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

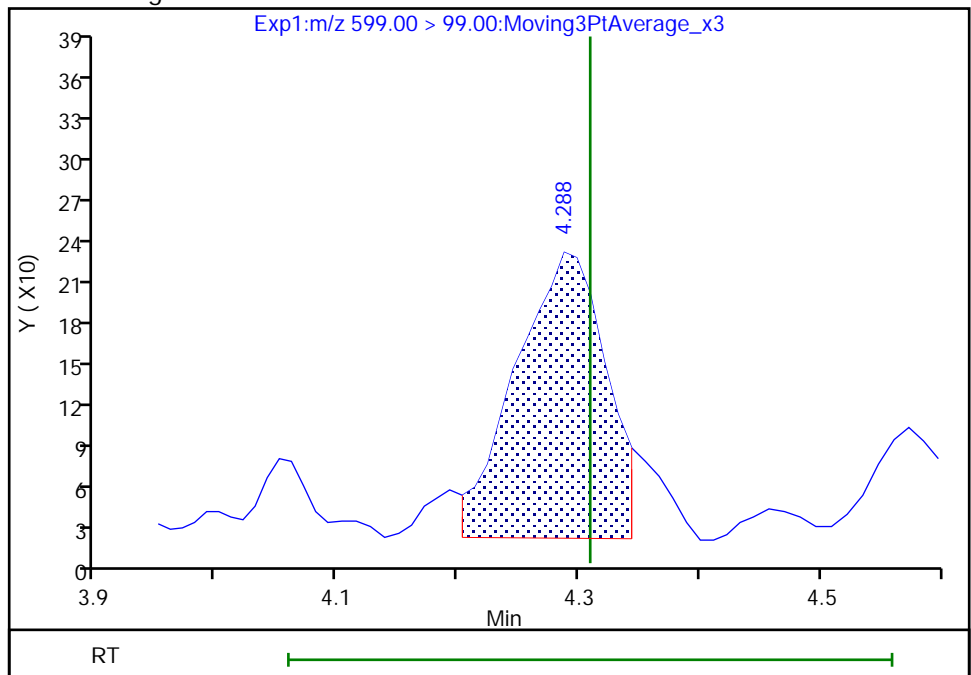
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.29  
Area: 1081  
Amount: 0.007458  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:50:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

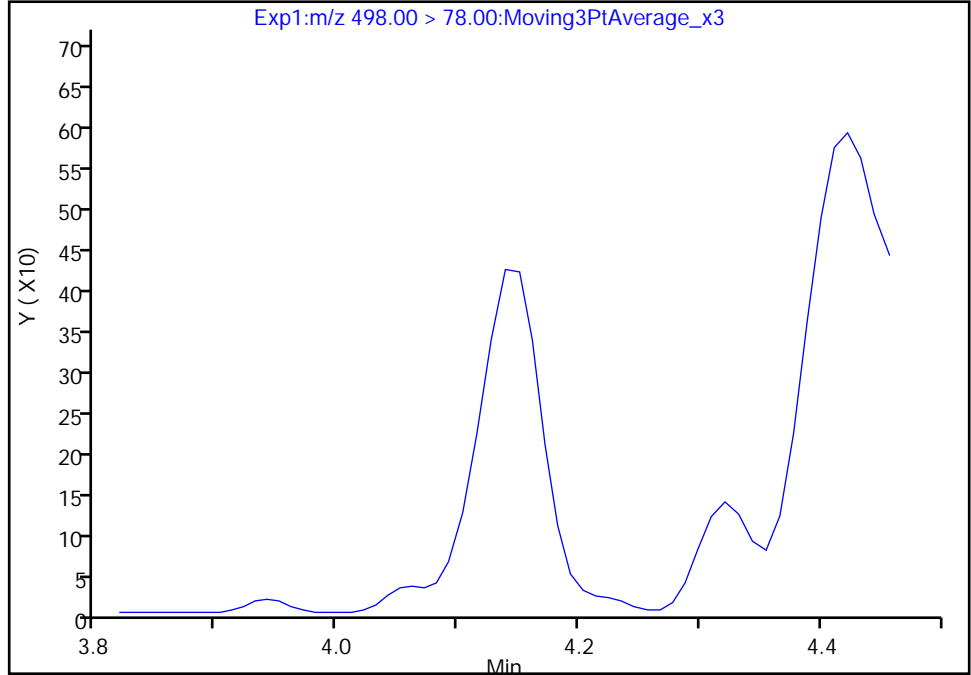
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

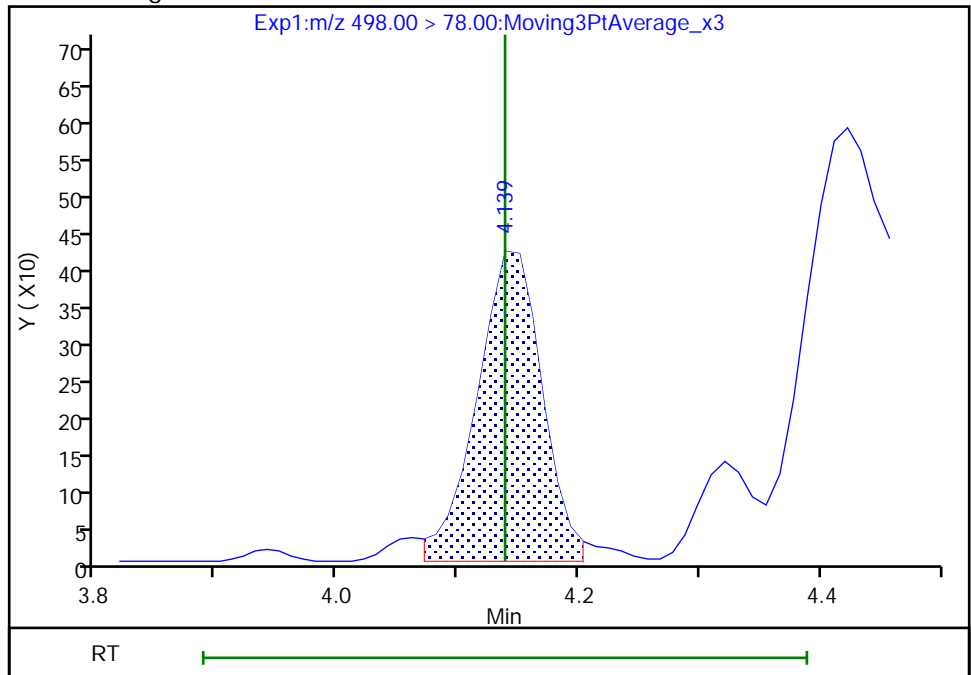
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14  
Area: 1566  
Amount: 0.009153  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

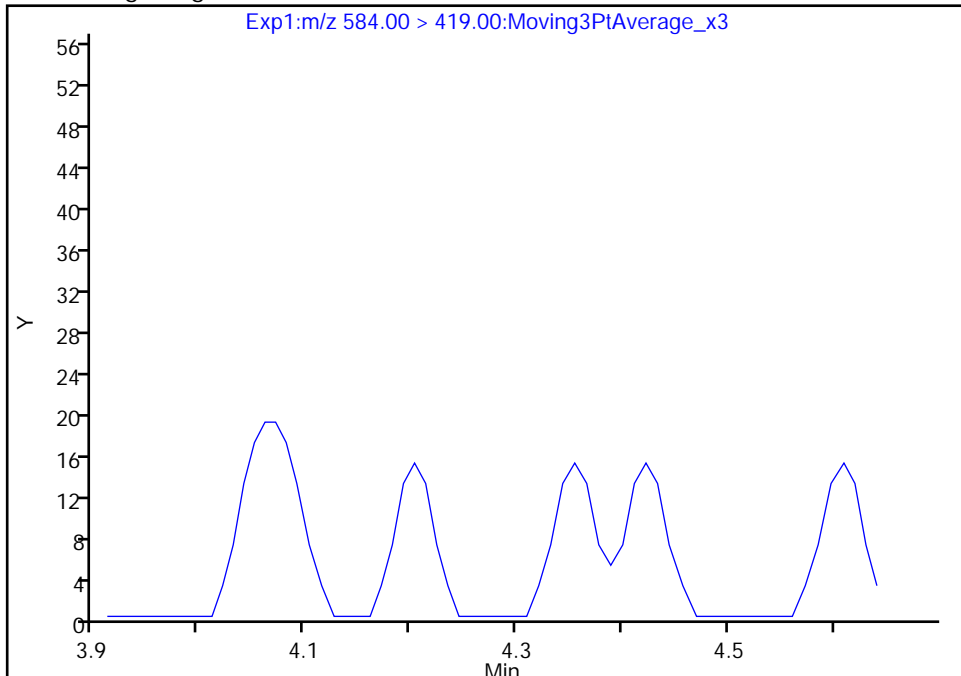
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

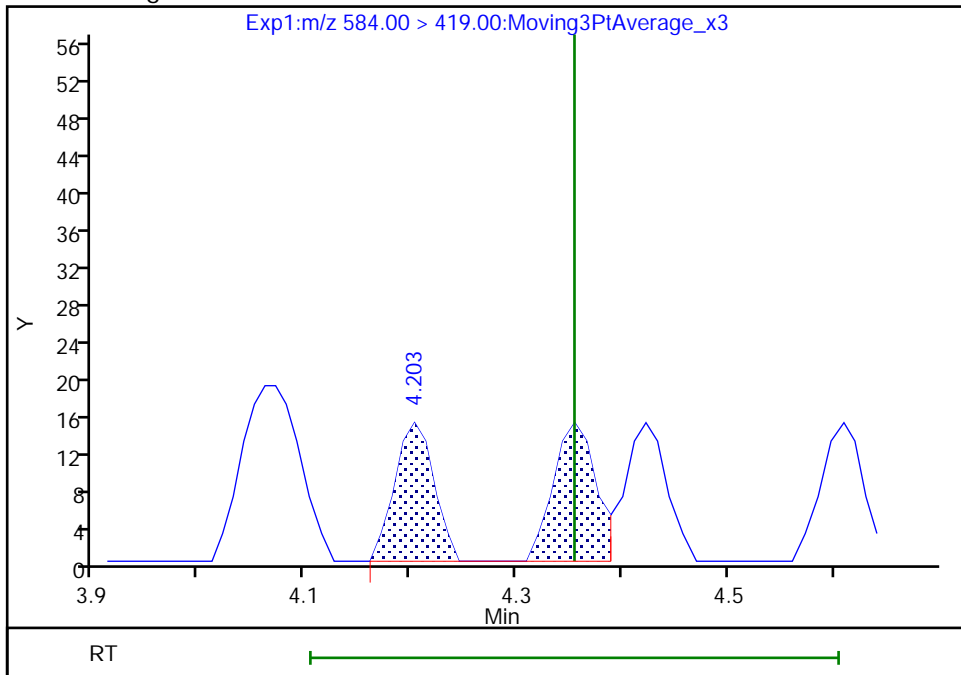
Not Detected  
Expected RT: 4.35

Processing Integration Results



RT: 4.20  
Area: 79  
Amount: 0.002535  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:50:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

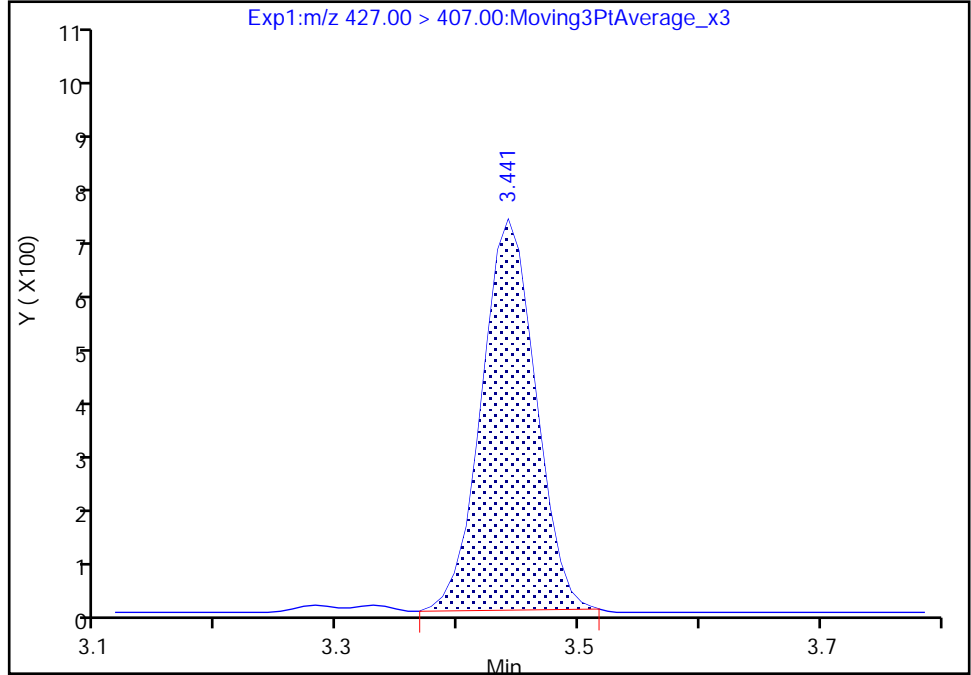
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

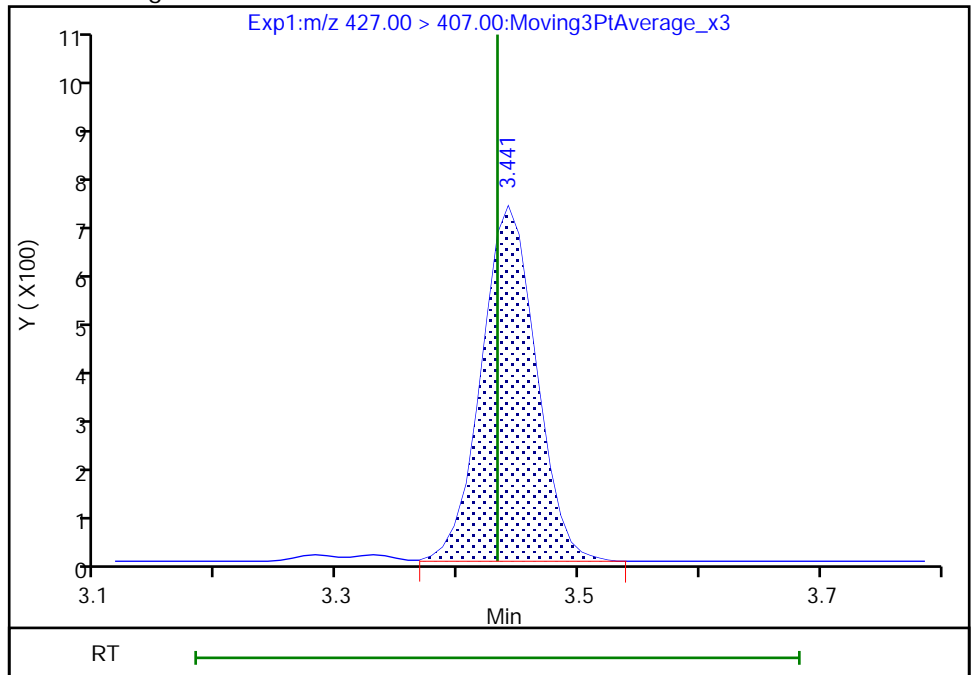
RT: 3.44  
Area: 2182  
Amount: 0.066452  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 2220  
Amount: 0.067610  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:47:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

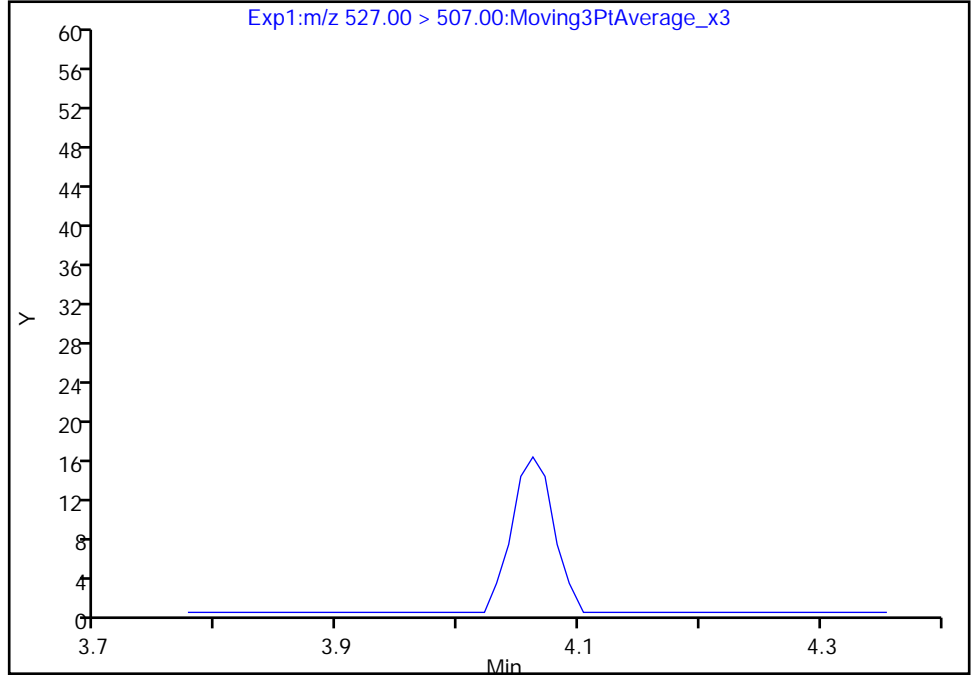
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B19.d  
Injection Date: 30-Sep-2020 20:43:37 Instrument ID: LC812  
Lims ID: 480-175657-C-3-A Lab Sample ID: 200-175657-3  
Client ID: MW-3B  
Operator ID: lc812tech ALS Bottle#: 19 Worklist Smp#: 19  
Injection Vol: 20.0 ul Dil. 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

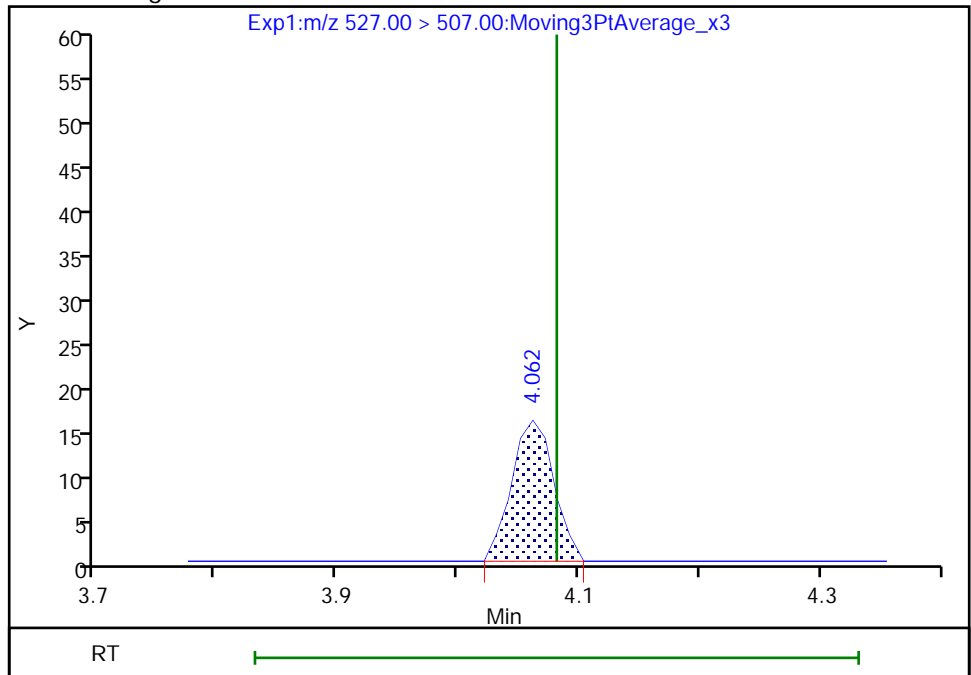
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.06  
Area: 38  
Amount: 0.002068  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:49:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-4 Lab Sample ID: 480-175657-4  
 Matrix: Water Lab File ID: PA200930B20.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 15:11  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 292.9(mL) Date Analyzed: 09/30/2020 20:51  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	26		4.3	0.96
2706-90-3	Perfluoropentanoic acid (PFPeA)	27		1.7	0.92
307-24-4	Perfluorohexanoic acid (PFHxA)	39		1.7	0.71
375-85-9	Perfluoroheptanoic acid (PFHpA)	14		1.7	0.39
335-67-1	Perfluorooctanoic acid (PFOA)	43		1.7	0.84
375-95-1	Perfluorononanoic acid (PFNA)	2.8		1.7	0.50
335-76-2	Perfluorodecanoic acid (PFDA)	0.84	J	1.7	0.39
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.62
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.39
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.50
375-73-5	Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.54
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	8.5		1.7	0.57
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.46	J	1.7	0.33
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.74
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.67
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.79
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.1	J	4.3	0.61
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.56

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-4 Lab Sample ID: 480-175657-4  
 Matrix: Water Lab File ID: PA200930B20.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 15:11  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 292.9(mL) Date Analyzed: 09/30/2020 20:51  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	106		50-150
STL01892	13C4 PFHpA	101		50-150
STL00990	13C4 PFOA	101		50-150
STL00991	13C4 PFOS	88		50-150
STL00995	13C5 PFNA	94		50-150
STL00992	13C4 PFBA	62		25-150
STL00993	13C2 PFHxA	99		50-150
STL00996	13C2 PFDA	82		50-150
STL00997	13C2 PFUnA	72		50-150
STL00998	13C2 PFDoA	68		50-150
STL01056	13C8 FOSA	77		25-150
STL01893	13C5 PFPeA	87		25-150
STL02116	13C2 PFTeDA	77		50-150
STL02118	d3-NMeFOSAA	73		50-150
STL02117	d5-NEtFOSAA	73		50-150
STL02279	M2-6:2 FTS	110		25-150
STL02280	M2-8:2 FTS	88		25-150
STL02337	13C3 PFBS	95		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
 Lims ID: 480-175657-C-4-A  
 Client ID: MW-4  
 Sample Type: Client  
 Inject. Date: 30-Sep-2020 20:51:56 ALS Bottle#: 20 Worklist Smp#: 20  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-4-A  
 Misc. Info.: 200-0043035-020 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 15:04:29  
 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	1.990	0.0	0.577	634688	0.7800	62.4	5425	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.000	365243	0.7696		32.5		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	634133	1.09	87.0	715	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	431387	0.8052		6.5		M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	783612	1.10	94.9	22616	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.353	0.0	1.006	329234	0.4902	Target=2.07	11.4		M
298.90 > 99.00	2.353	2.353	0.0	1.006	144983		2.27(1.04-3.11)	37.0		M
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.784	741900	1.24	98.8	2512	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	686623	1.15	Target=12.44	21.5		M
313.00 > 119.00	2.703	2.703	0.0	1.000	57539		11.93(6.22-18.66)	47.2		M
D 11 18O2 PFHxS	403.00 > 84.00	3.084	3.073	0.011	0.894	636596	1.25	106	3114	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.000	147433	0.2480	Target=4.60	22.3		M
399.00 > 99.00	3.084	3.073	0.011	1.000	33024		4.46(2.30-6.91)	45.9		M
D 9 13C4 PFHpA	367.00 > 322.00	3.084	3.084	0.0	0.894	690889	1.26	101	3366	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	224677	0.4057	Target=3.34	16.6		M
363.00 > 169.00	3.084	3.084	0.0	1.000	73039		3.08(1.67-5.01)	118		

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.433	0.009	0.914	5679	0.0134	Target=7.08	2.2		M
449.00 > 99.00	3.441	3.433	0.009	0.914	1149		4.94(3.54-10.63)	5.3		M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.441	3.433	0.009	1.000	1924	0.0321			53.9	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.997	89201	1.31		110	63.0	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	705661	1.26		101	4088	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		709766	1.25			4528	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	729354	1.25	Target=2.29	78.8		M
413.00 > 169.00	3.450	3.450	0.0	1.000	339024		2.15(1.14-3.43)	490		M
D 18 13C4 PFOS										
503.00 > 80.00	3.764	3.765	-0.001	1.091	436621	1.05		87.7	292	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.662	3.765	-0.103	0.973	183104	0.4612	Target=7.10	51.4		M
499.00 > 99.00	3.764	3.765	-0.001	1.000	20110		9.11(3.55-10.64)	83.3		M
D 19 13C5 PFNA										
468.00 > 423.00	3.785	3.776	0.009	1.097	556418	1.18		94.5	4101	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.785	3.786	-0.001	1.000	36818	0.0812	Target=5.83	8.4		M
463.00 > 169.00	3.785	3.786	-0.001	1.000	7231		5.09(2.91-8.74)	76.0		M
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.072	0.009	1.183	463026	1.02		82.0	6851	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.081	4.082	-0.001	1.000	9009	0.0246	Target=6.81	5.6		M
513.00 > 169.00	4.081	4.082	-0.001	1.000	1513		5.95(3.41-10.22)	37.4		
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.103	4.082	0.020	1.003	43	0.001531		1.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.091	4.092	-0.001	1.186	84969	1.06		88.5	226	
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.139	-0.001	1.199	699350	0.9607		76.9	2463	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.138	4.139	-0.001	1.000	470	0.000899		1.7		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.225	23542	0.9153		73.2	558	
D 30 13C2 PFUnA										
565.00 > 520.00	4.344	4.343	0.001	1.259	307709	0.9023		72.2	5320	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.344	4.343	0.001	1.000	929	0.003826	Target=6.57	1.0		RM
563.00 > 169.00	4.332	4.343	-0.011	0.997	71		13.08(3.28-9.85)	1.6		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	25394	0.9185		73.5	407	

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	4.257	4.355	-0.098	0.977	38	0.002043			1.0	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	308253	0.8553		68.4	2431	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.573	4.573	0.0	1.000	607	0.002524	Target=5.16		0.8	M
613.00 > 169.00	4.561	4.573	-0.012	0.997	116		5.23(2.58-7.75)		3.6	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.790	4.772	0.018	1.047	255	0.001249	Target=3.30		0.4	M
663.00 > 169.00	4.772	4.772	0.0	1.043	69		3.70(1.65-4.95)		2.6	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.969	0.010	1.443	248495	0.9679		77.4	2652	
42 Perfluorotetradecanoic acid										RM
713.00 > 169.00	4.979	4.969	0.010	1.000	69	0.001515	Target=1.06		2.7	RM
713.00 > 219.00	4.979	4.969	0.010	1.000	154		0.45(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\20200930-43035.b\PA200930B20.d

Injection Date: 30-Sep-2020 20:51:56

Instrument ID: LC812

Lims ID: 480-175657-C-4-A

Lab Sample ID: 200-175657-4

Client ID: MW-4

Operator ID: lc812tech

ALS Bottle#: 20

Worklist Smp#: 20

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

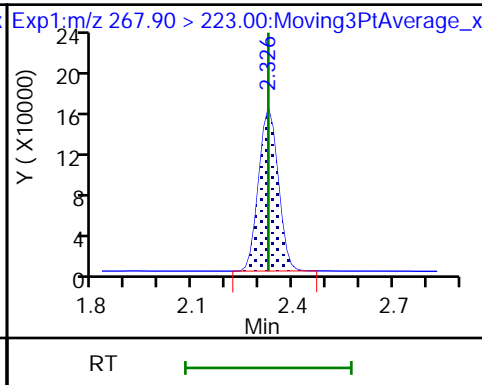
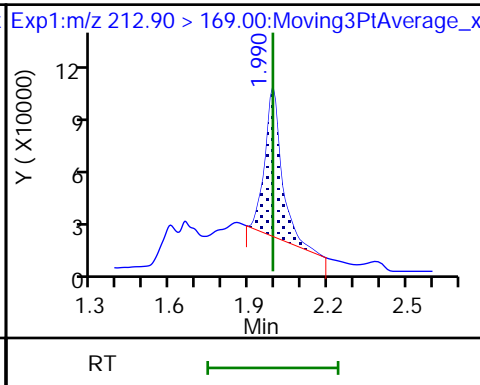
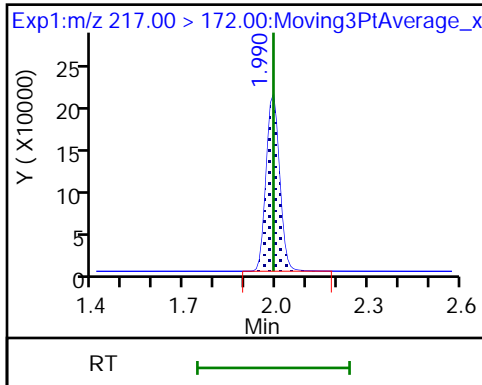
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

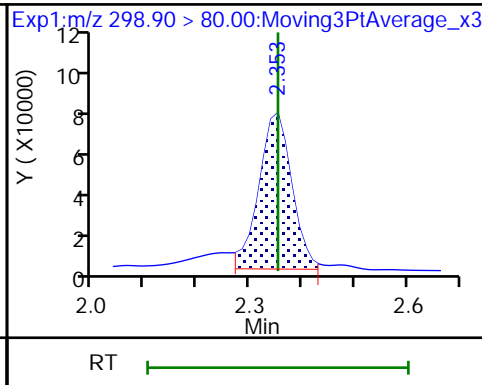
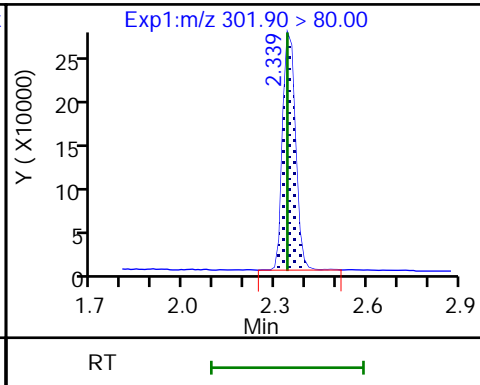
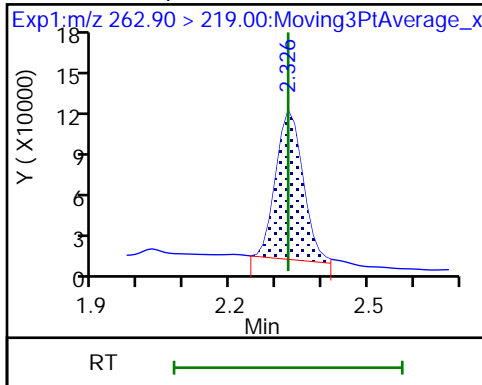
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

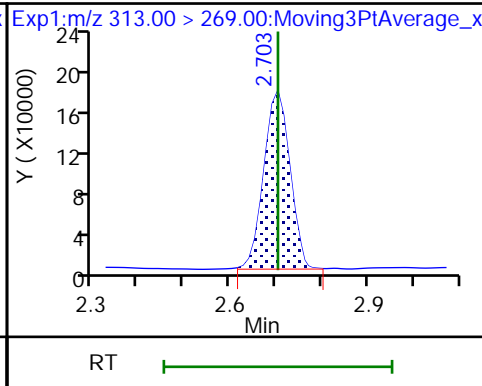
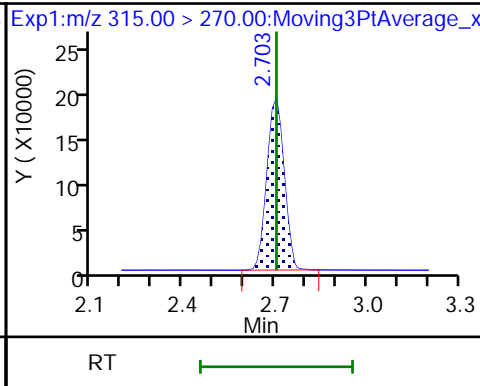
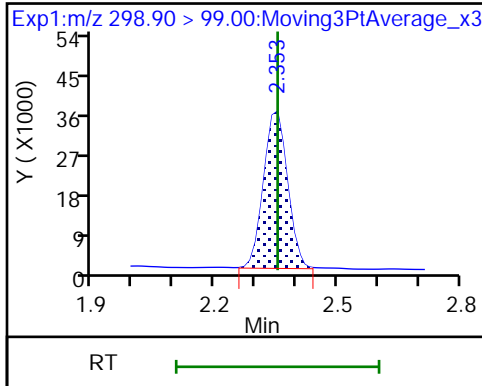
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

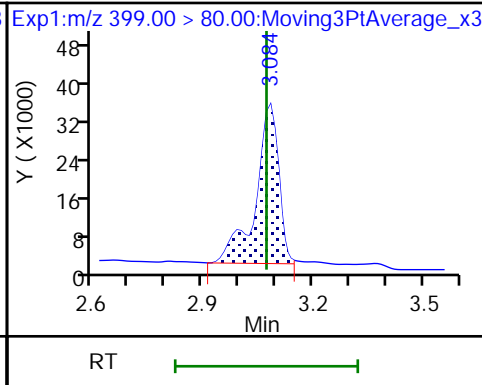
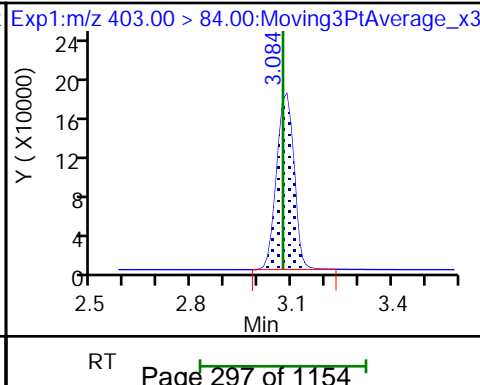
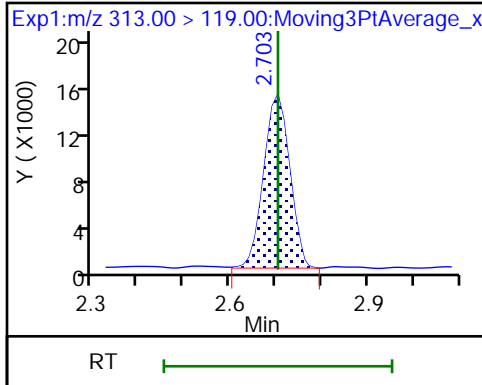
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

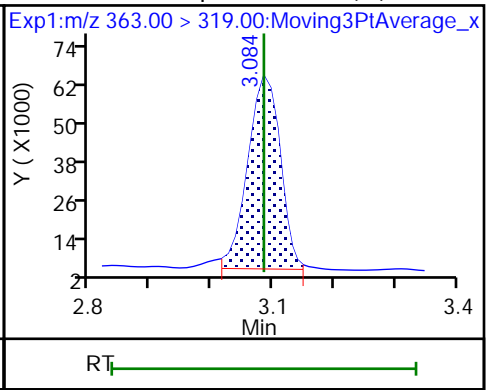
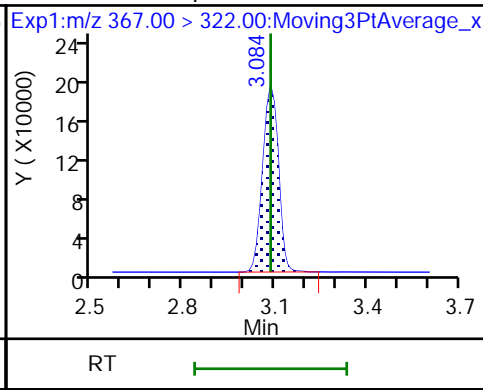
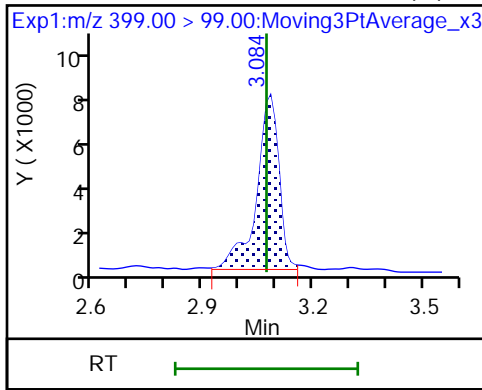
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

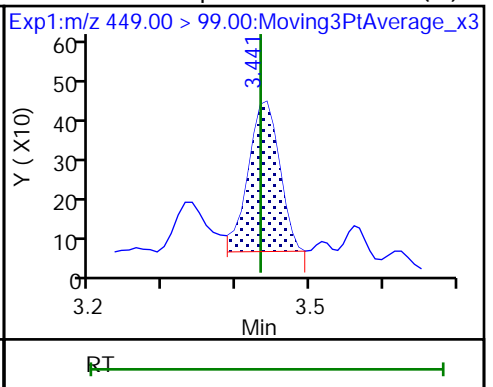
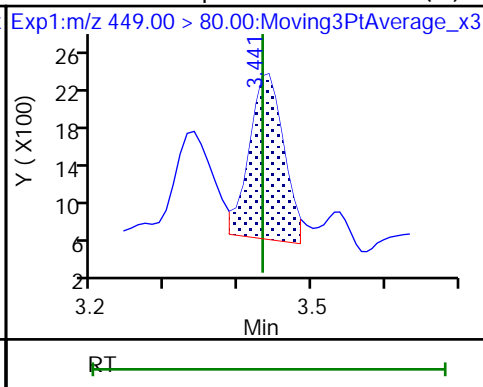
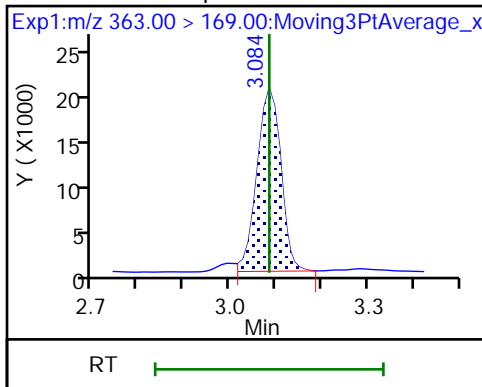
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid

16 Perfluoroheptanesulfonic acid (M)

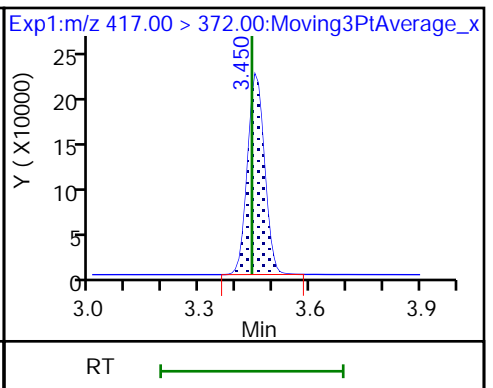
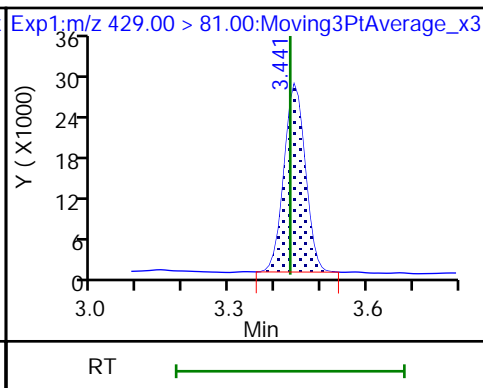
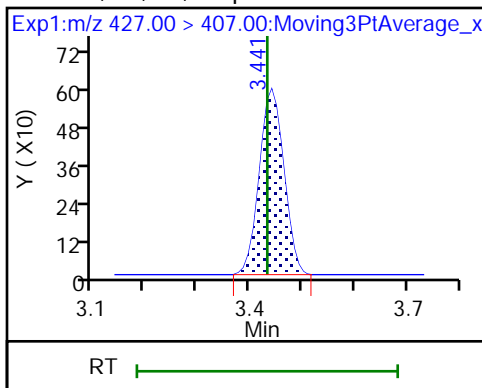
16 Perfluoroheptanesulfonic acid (M)



13 1H,1H,2H,2H-perfluorooctanesulfo

D 12 M2-6:2 FTS

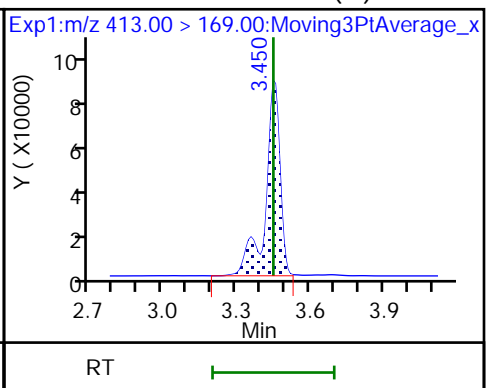
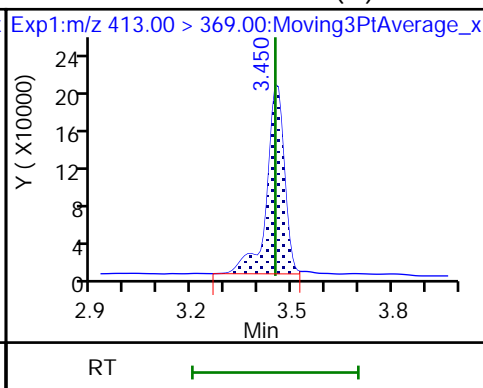
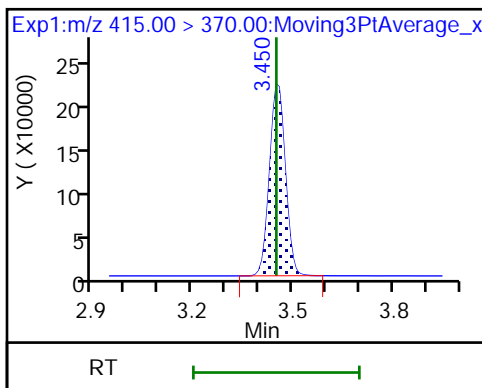
D 14 13C4 PFOA



\* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

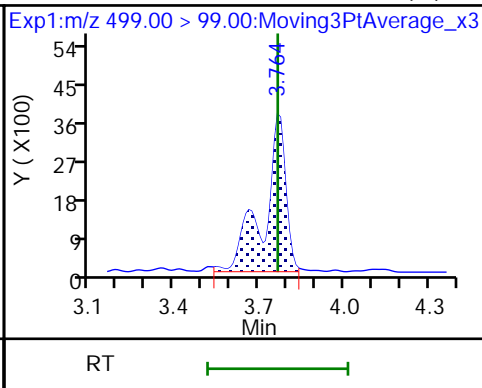
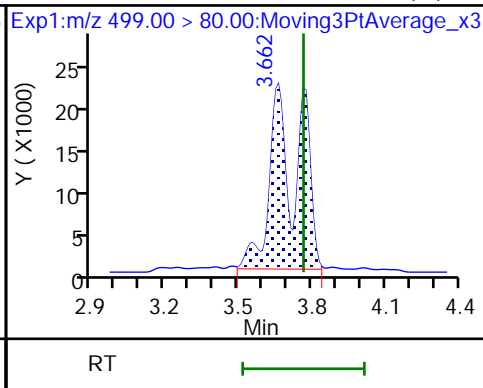
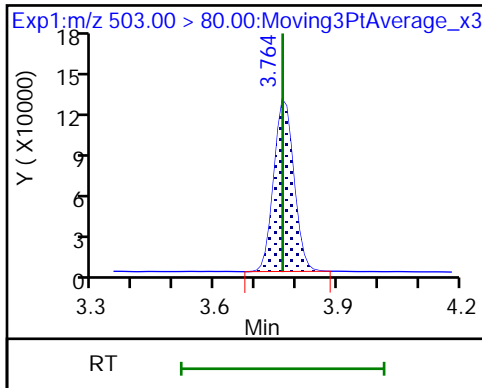
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

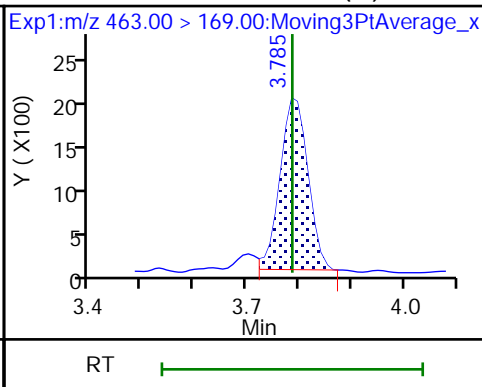
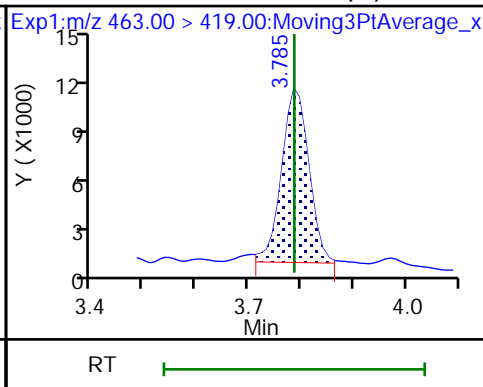
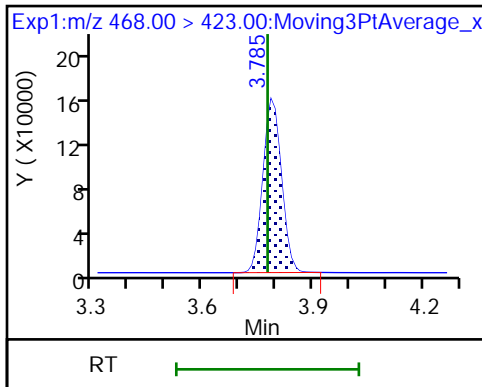
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

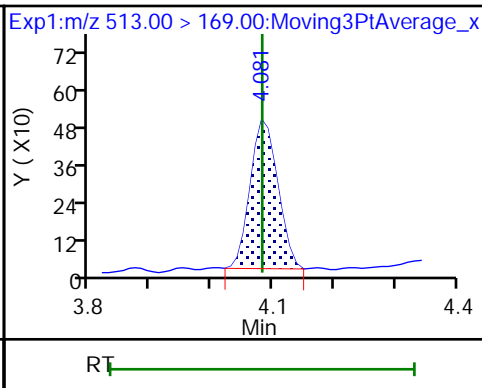
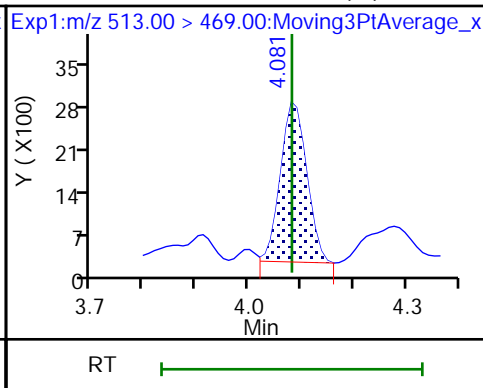
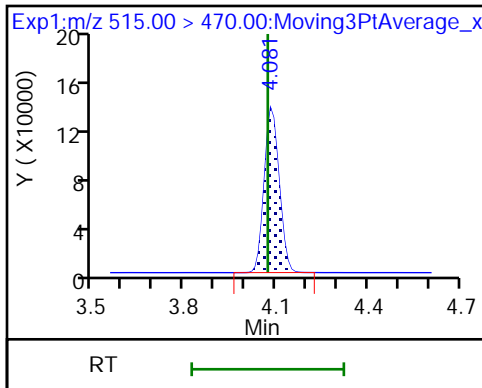
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

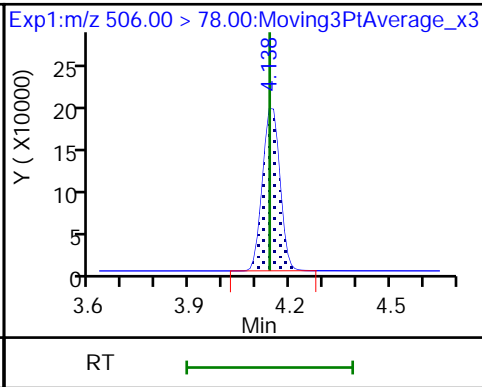
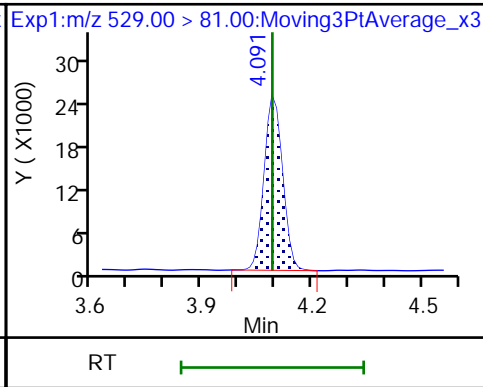
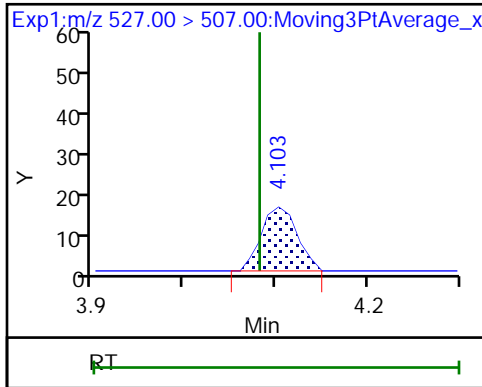
24 Perfluorodecanoic acid



25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

26 M2-8:2 FTS

D 21 13C8 FOSA

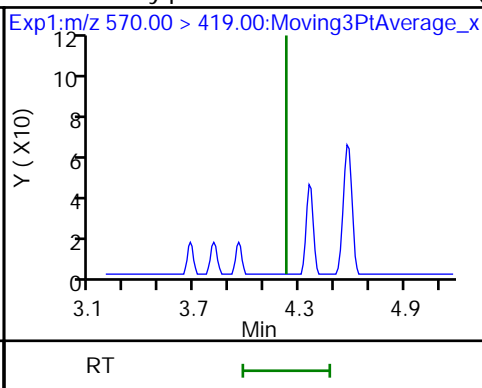
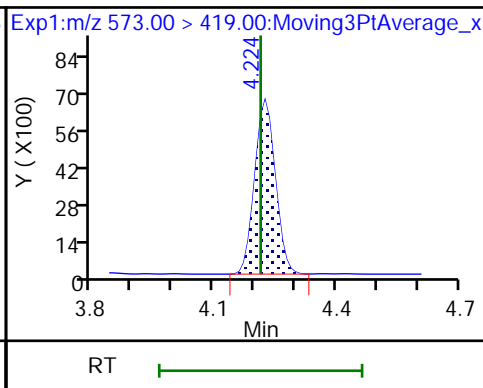
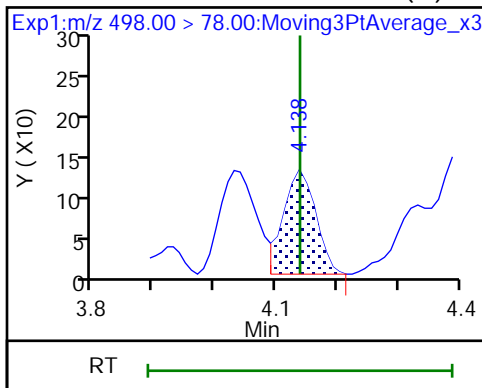




22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

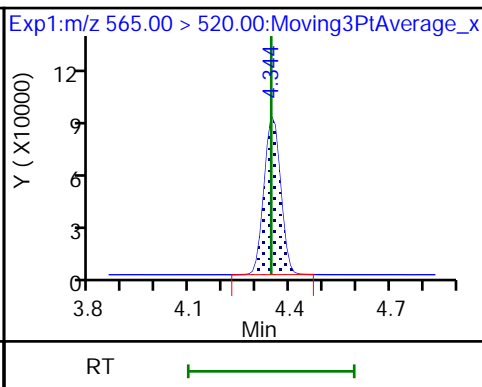
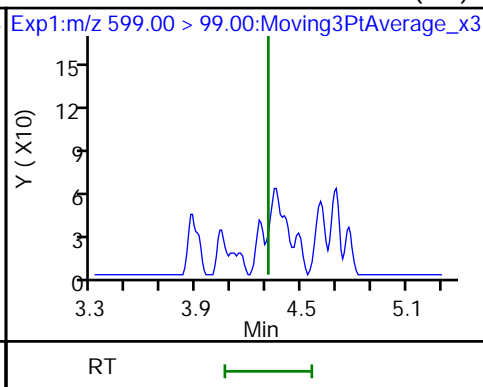
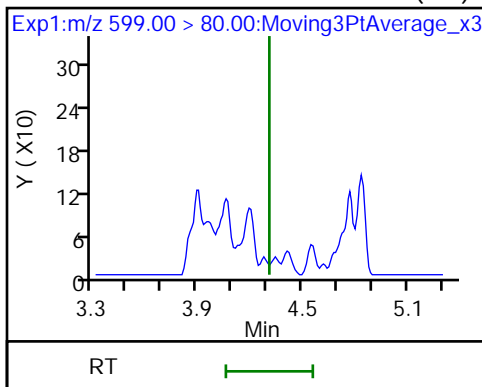
28 N-methylperfluorooctanesulfonami (ND)



29 Perfluorodecanesulfonic acid (ND)

29 Perfluorodecanesulfonic acid (ND)

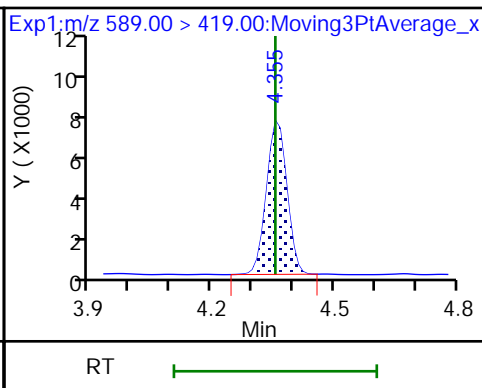
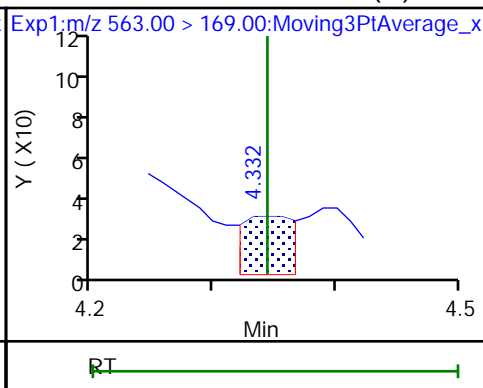
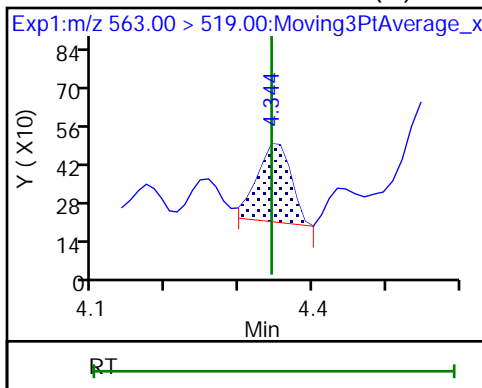
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

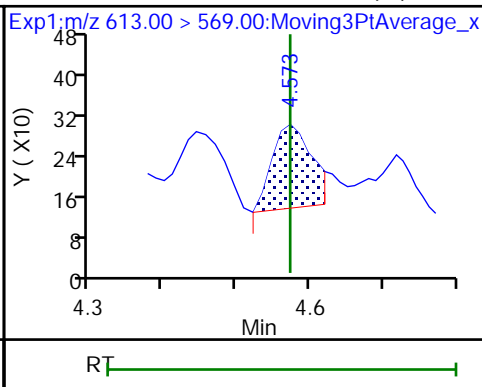
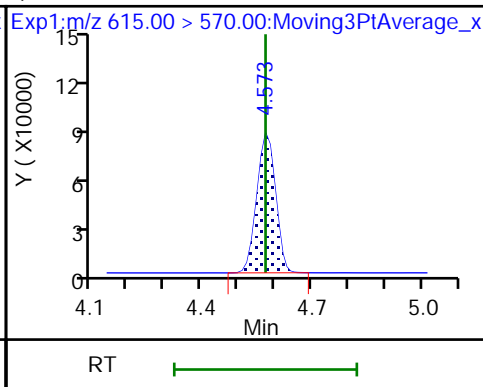
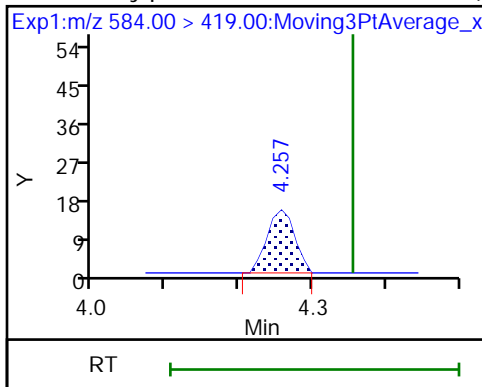
D 32 d5-NEtFOSAA

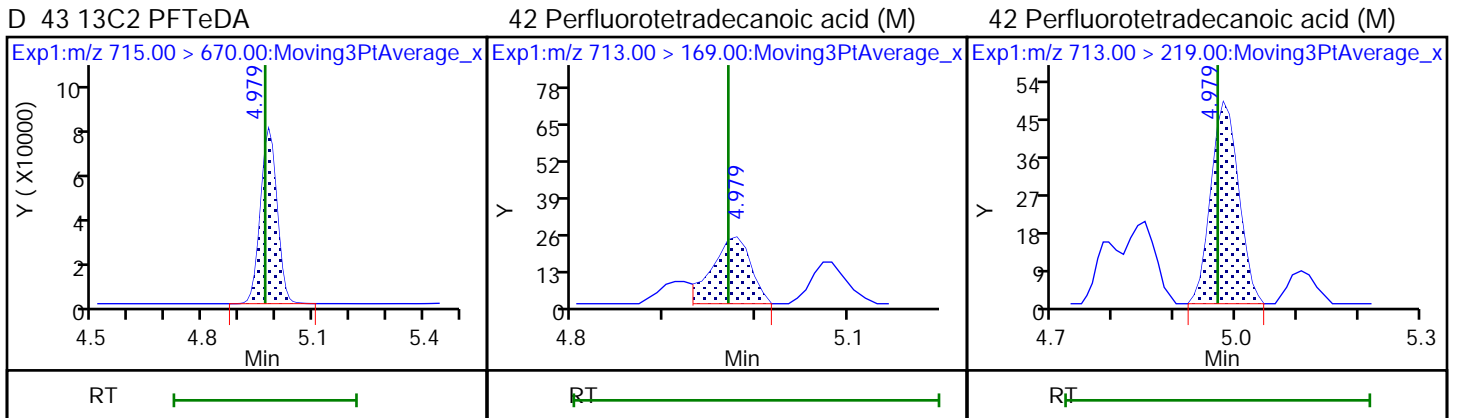
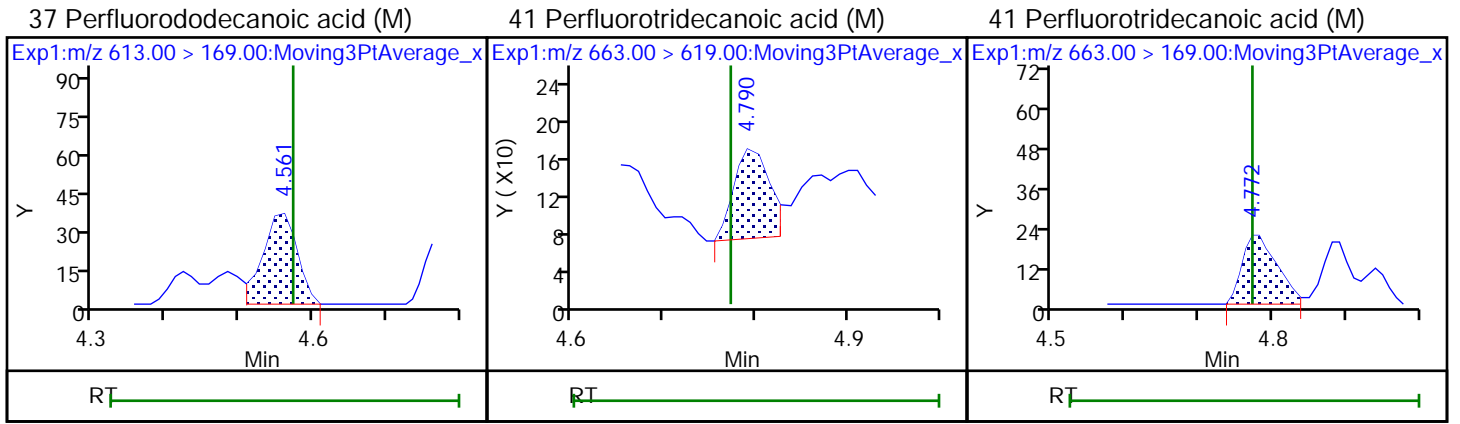


33 N-ethylperfluorooctanesulfonamid (ND)

36 13C2 PFDoA

37 Perfluorododecanoic acid (M)





Eurofins TestAmerica, Burlington

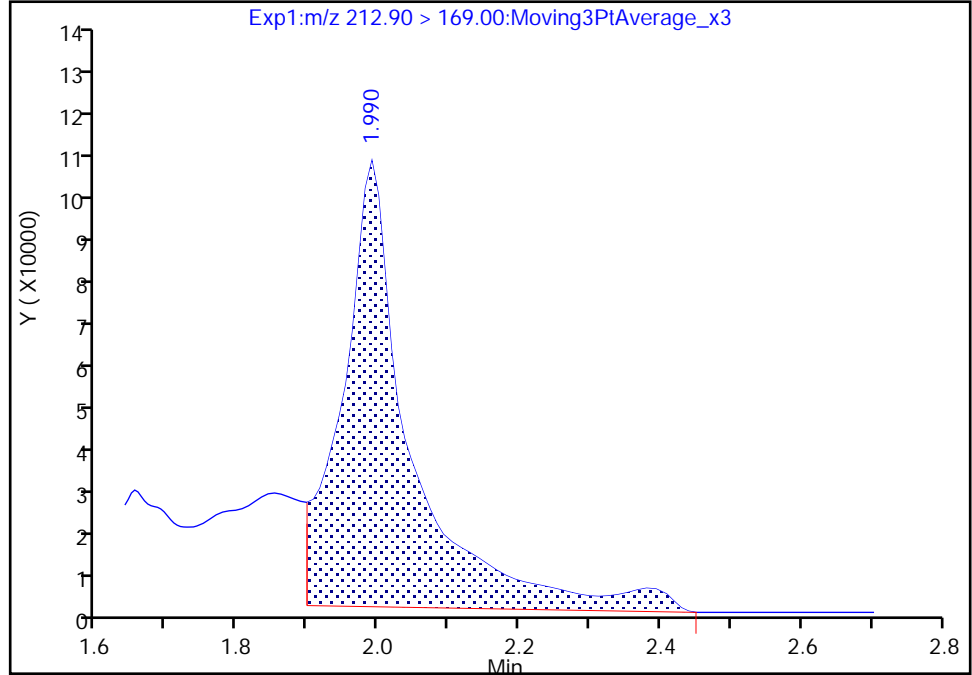
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

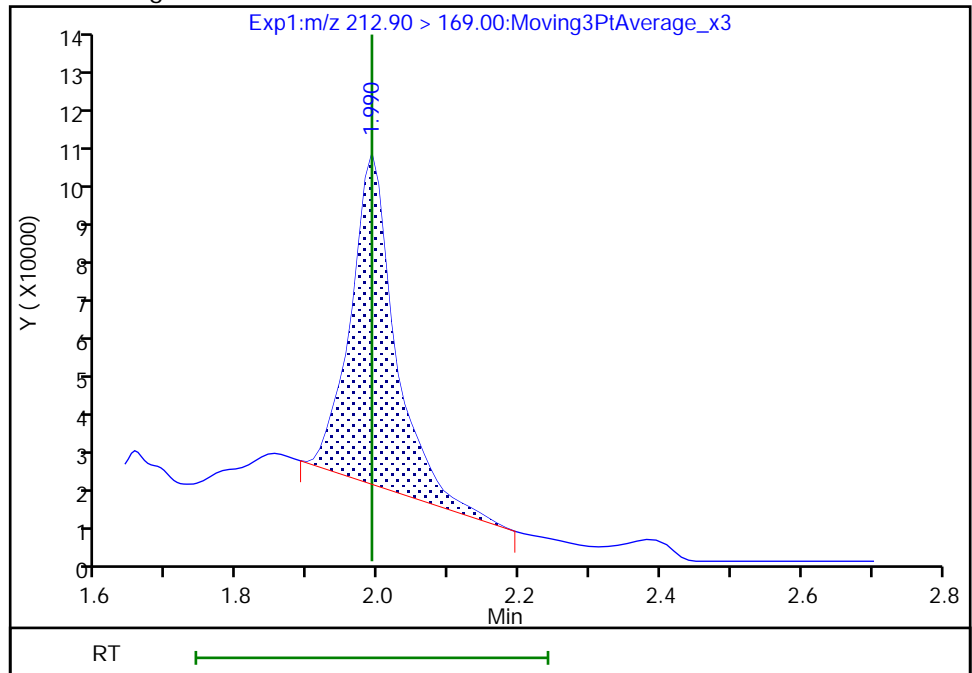
RT: 1.99  
Area: 693028  
Amount: 1.460189  
Amount Units: ng/ml

Processing Integration Results



RT: 1.99  
Area: 365243  
Amount: 0.769556  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:52:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

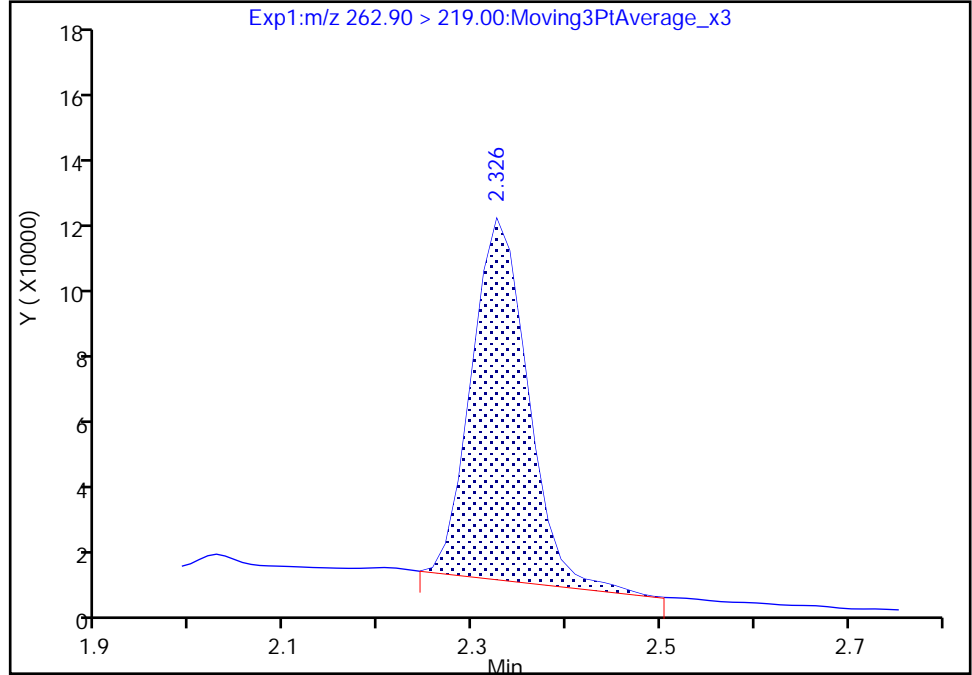
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

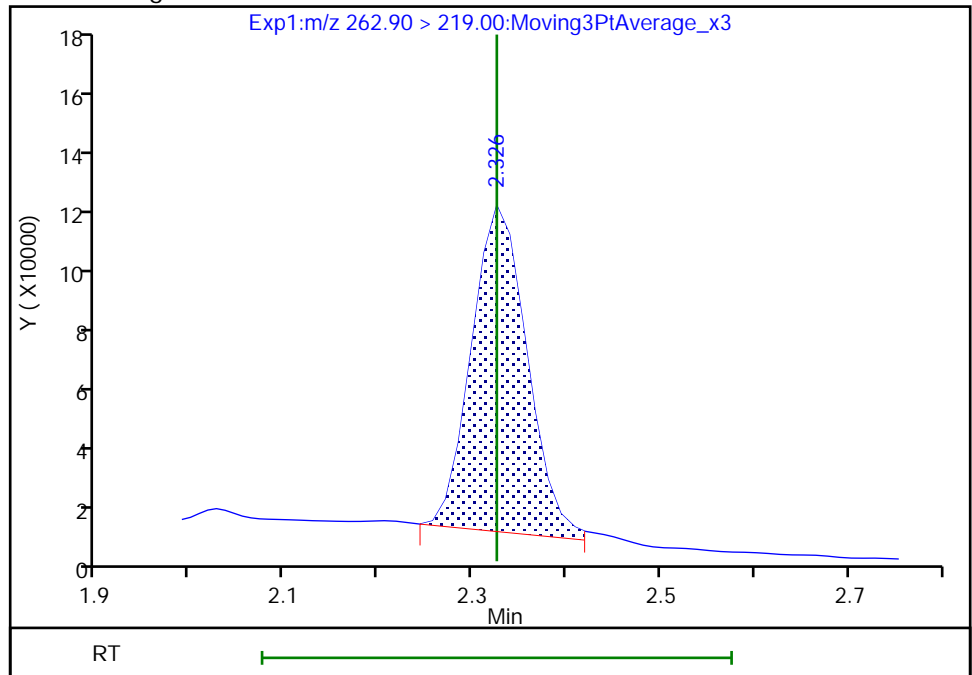
RT: 2.33  
Area: 439778  
Amount: 0.820854  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 431387  
Amount: 0.805192  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:53:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

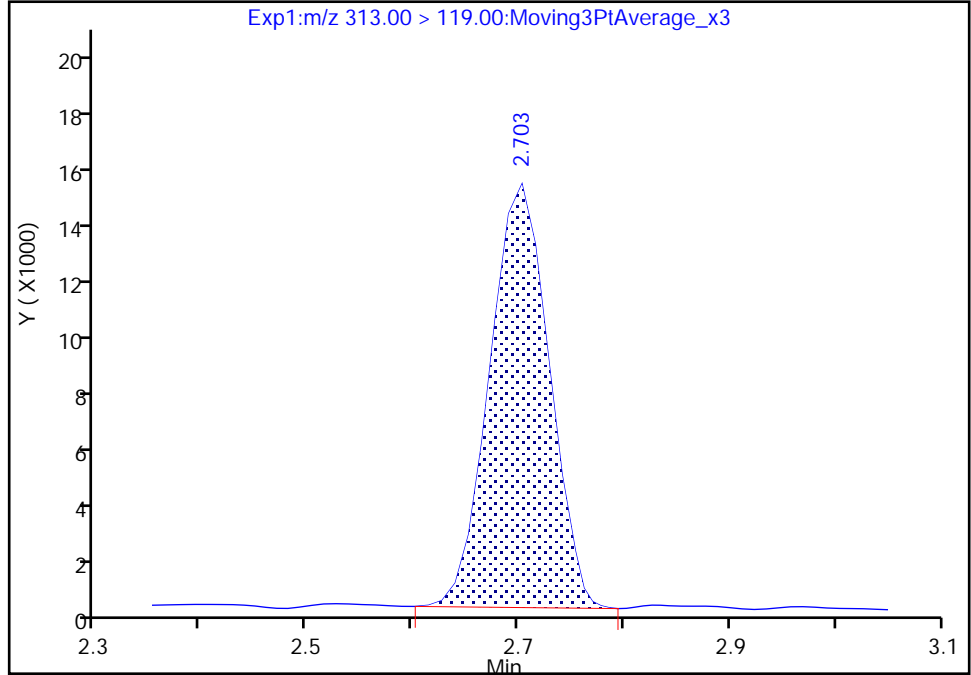
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

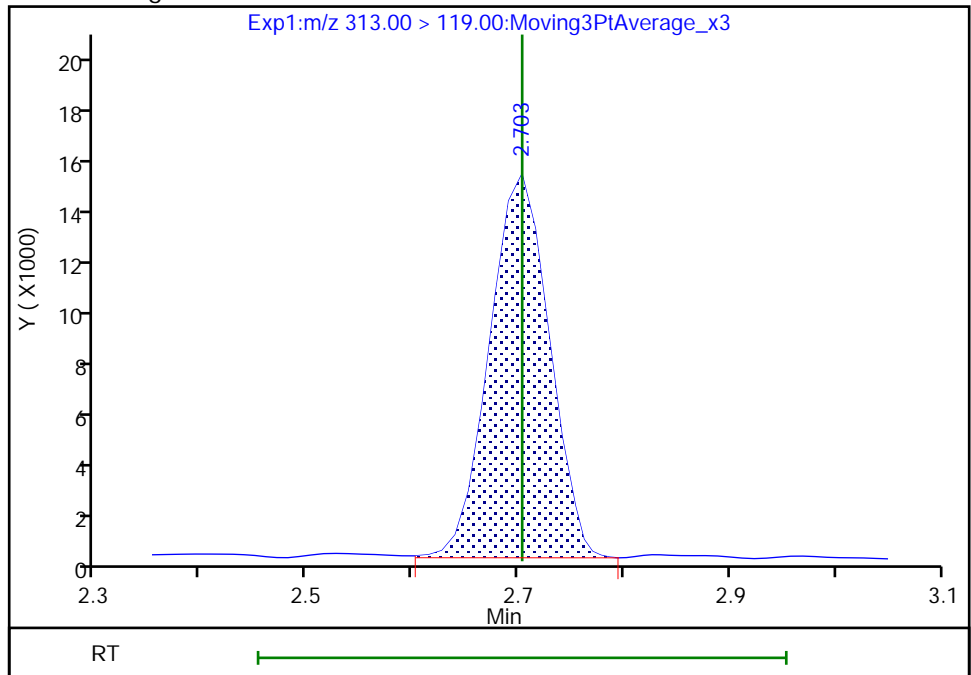
RT: 2.70  
Area: 57130  
Amount: 1.154126  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 57539  
Amount: 1.148883  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:53:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

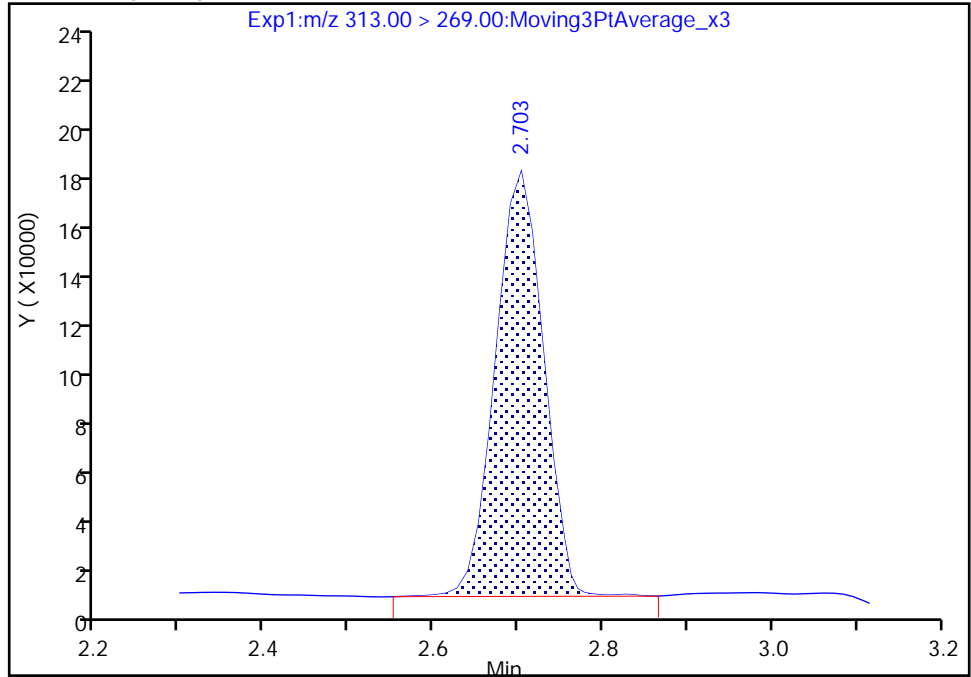
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

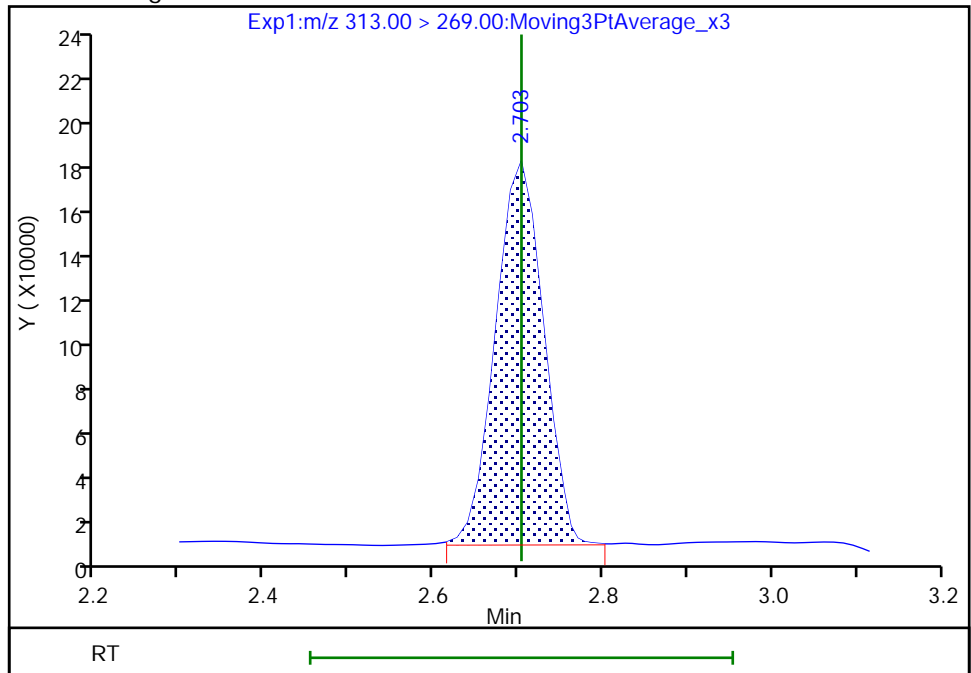
RT: 2.70  
Area: 689756  
Amount: 1.154126  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 686623  
Amount: 1.148883  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:53:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

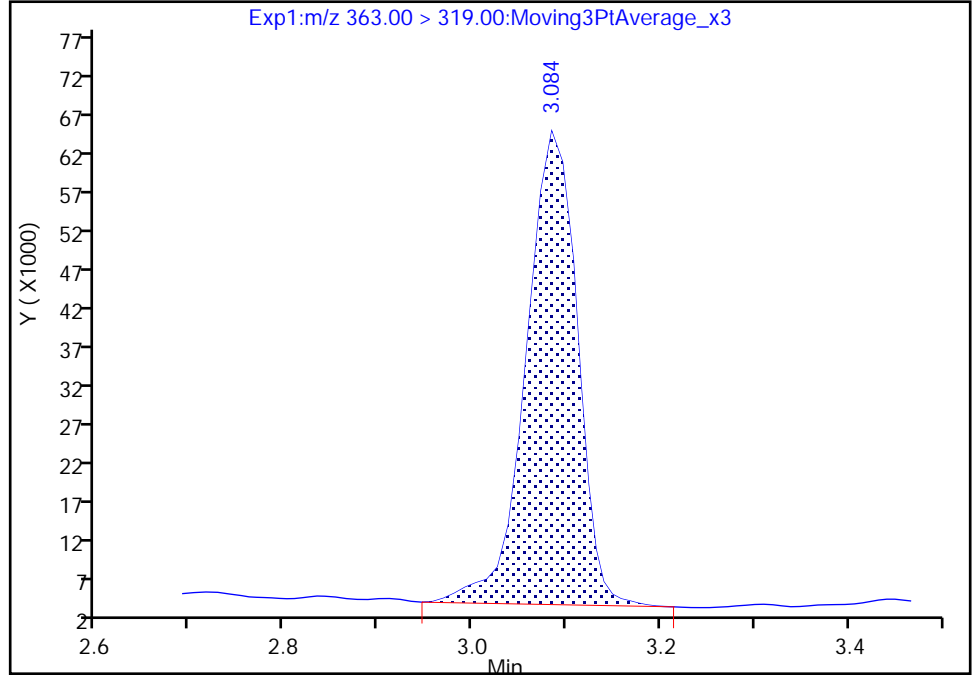
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

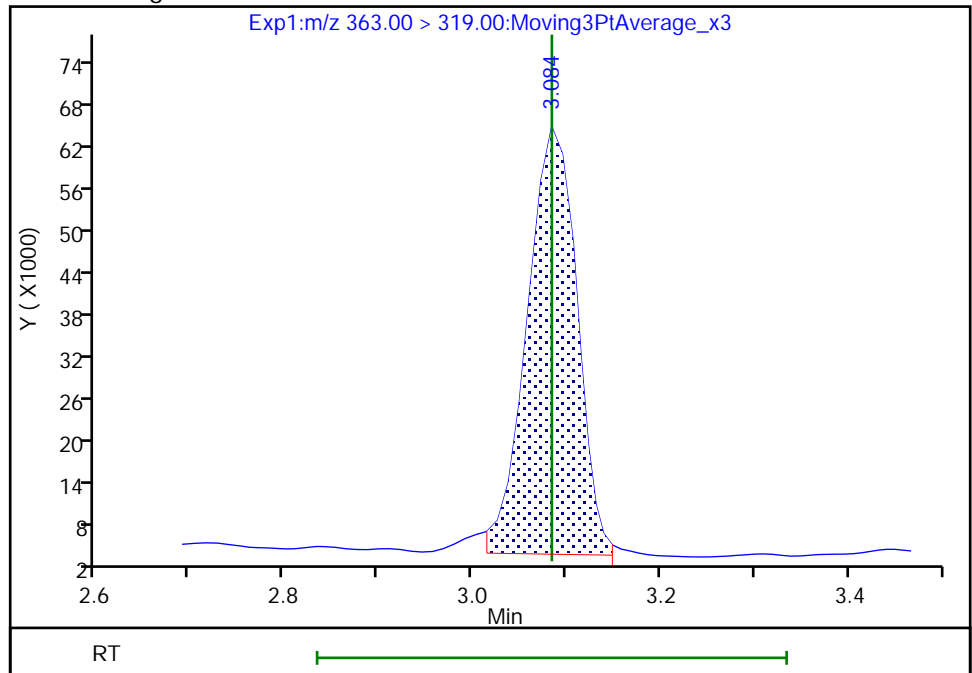
RT: 3.08  
Area: 231919  
Amount: 0.418740  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 224677  
Amount: 0.405664  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

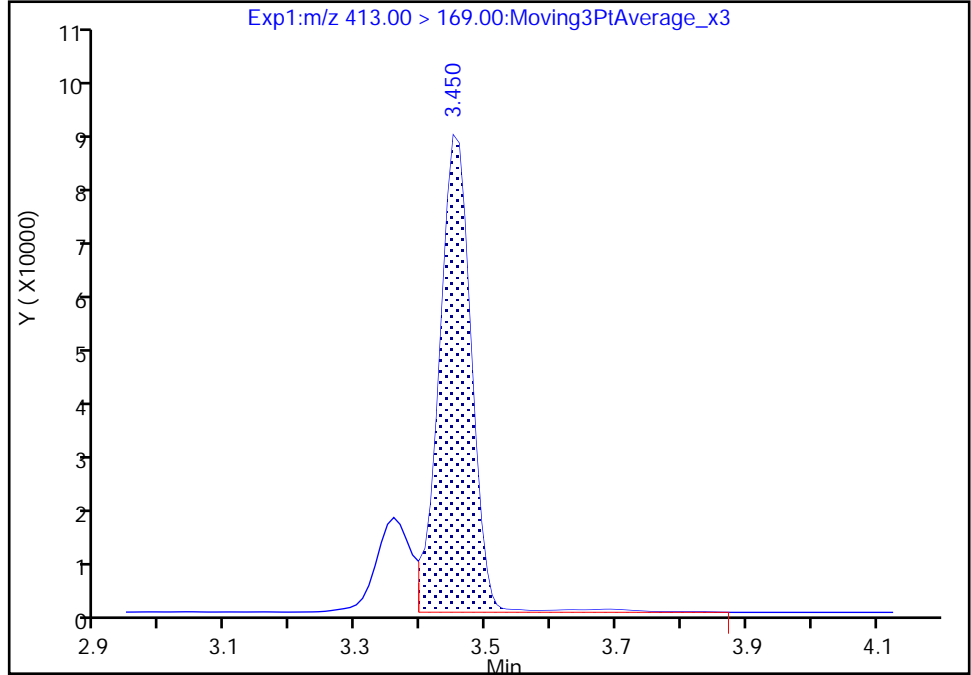
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

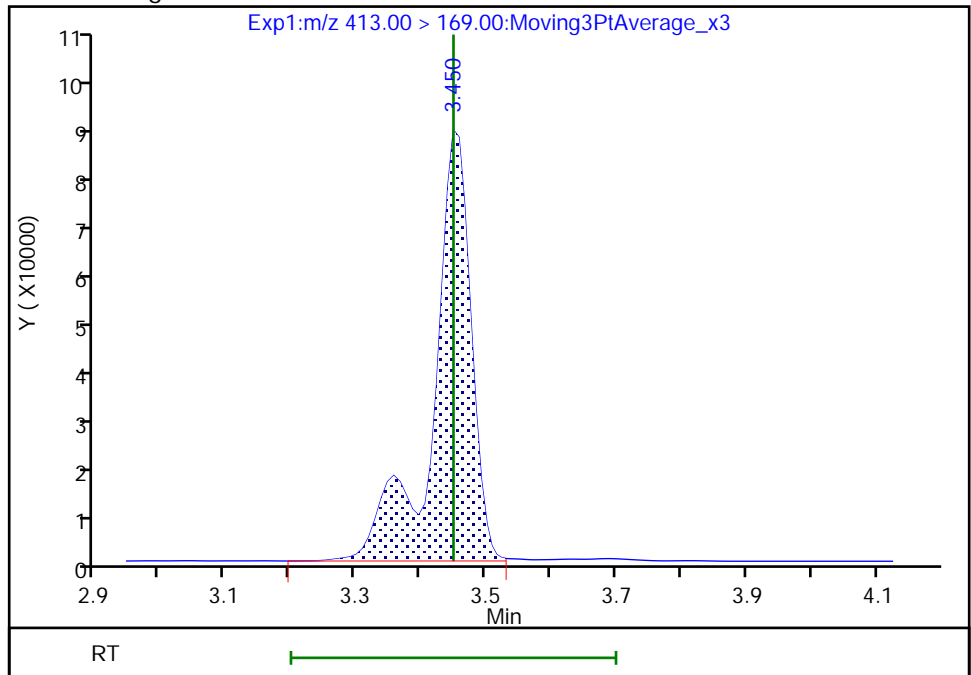
RT: 3.45  
Area: 283724  
Amount: 1.109568  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 339024  
Amount: 1.251394  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

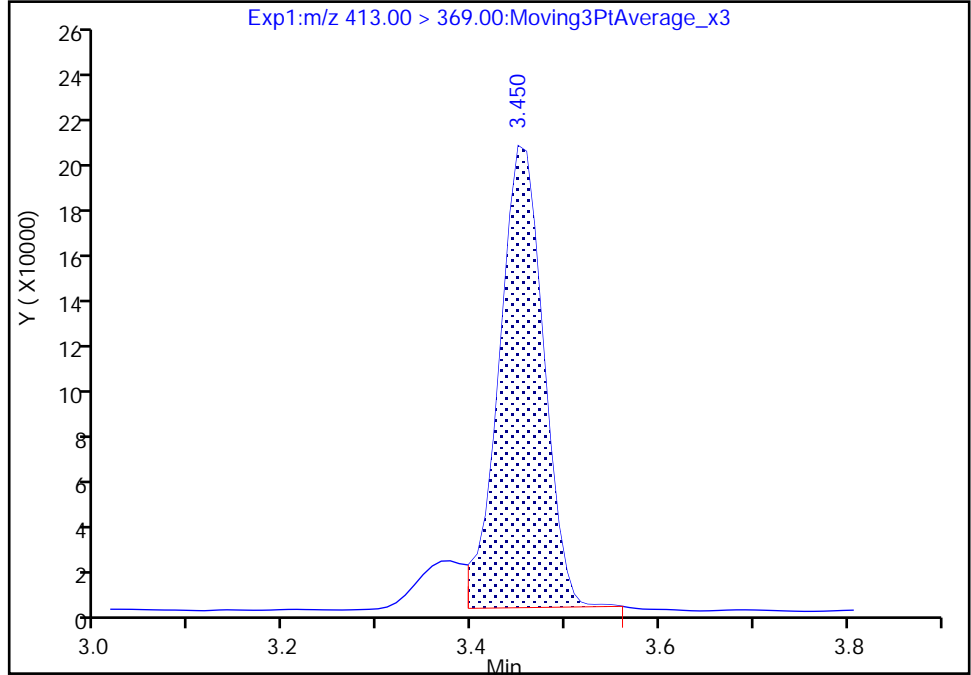
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

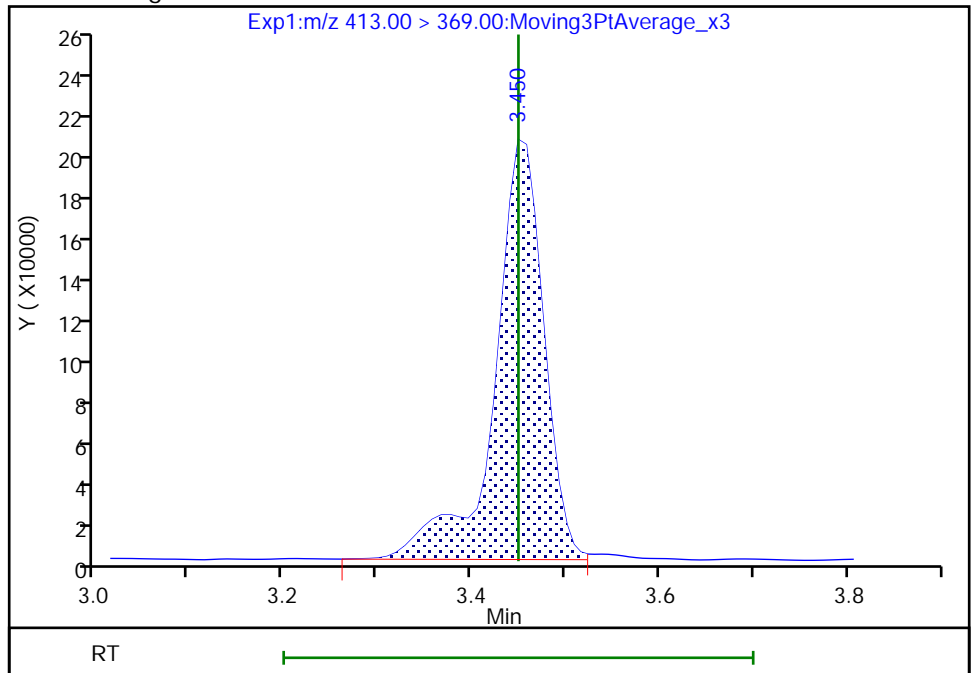
RT: 3.45  
Area: 646693  
Amount: 1.109568  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 729354  
Amount: 1.251394  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:54:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

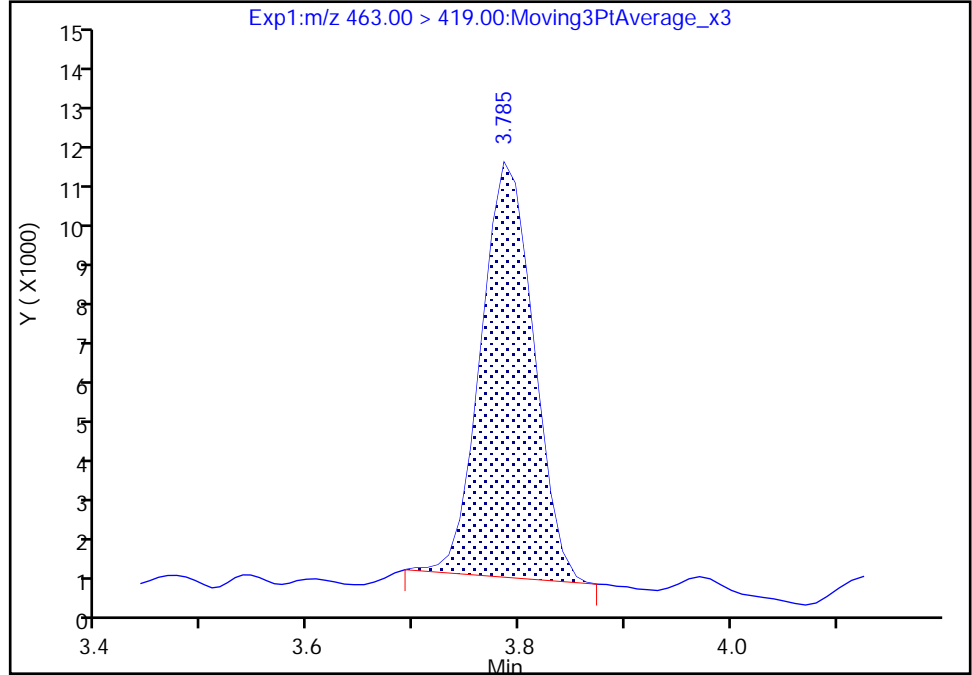
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

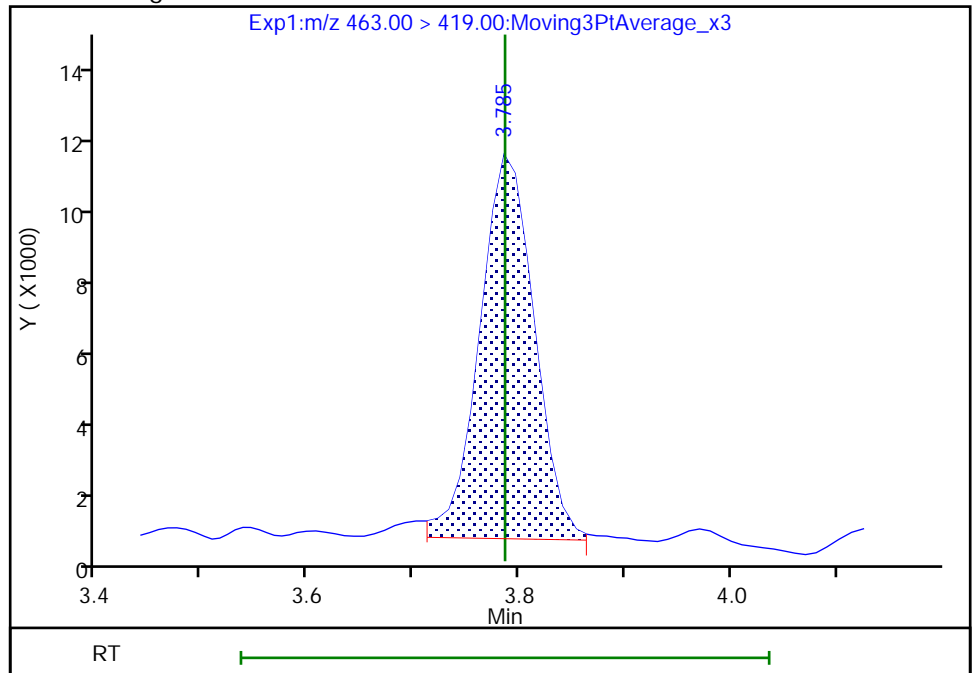
RT: 3.79  
Area: 34688  
Amount: 0.076523  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 36818  
Amount: 0.081222  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:56:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

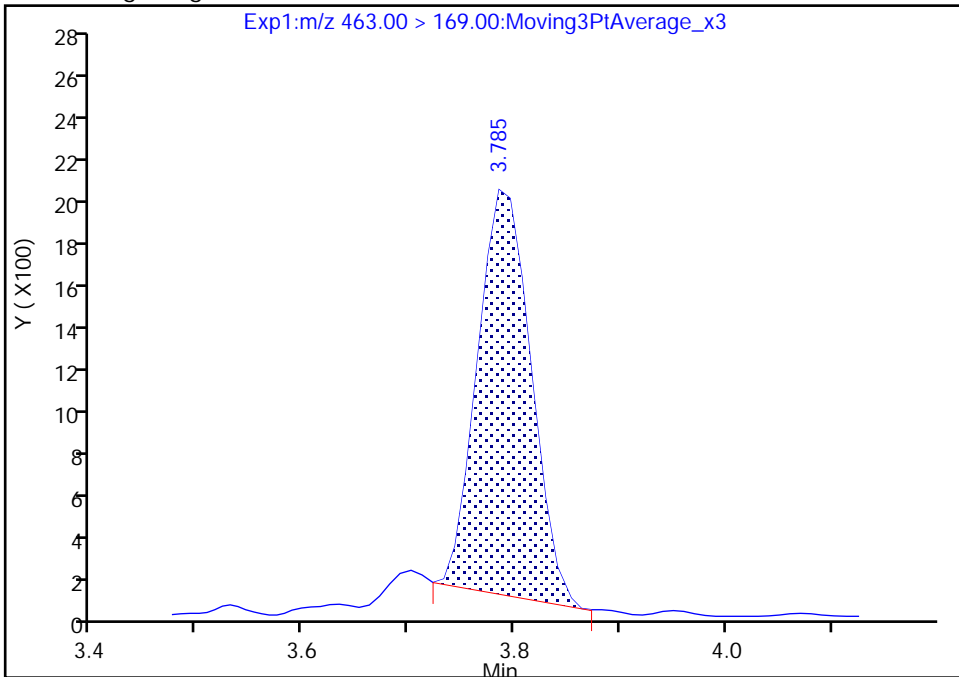
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

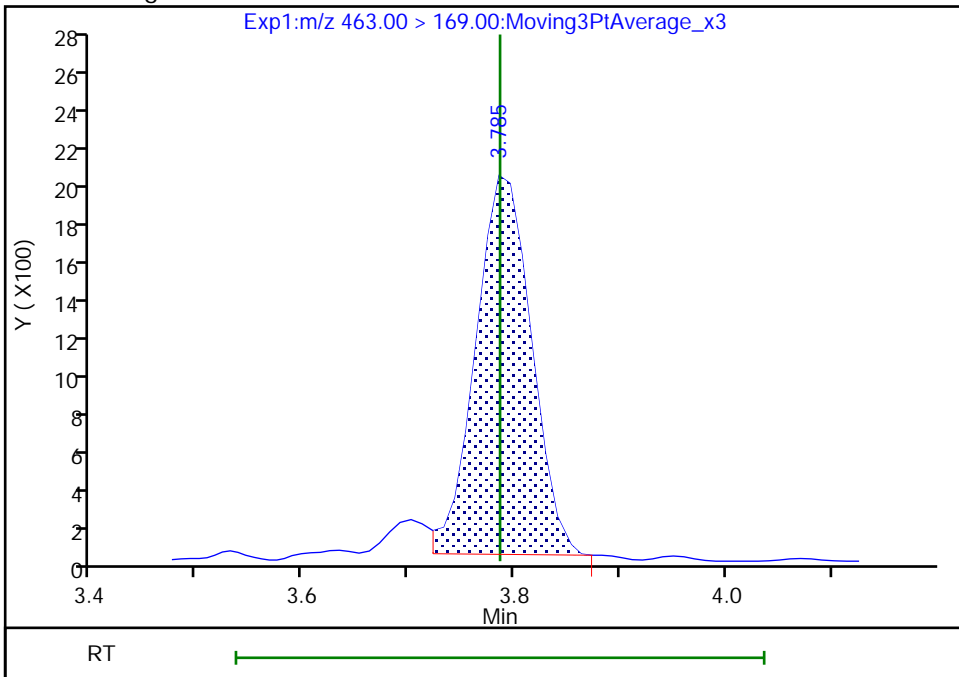
RT: 3.79  
Area: 6708  
Amount: 0.076523  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 7231  
Amount: 0.081222  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

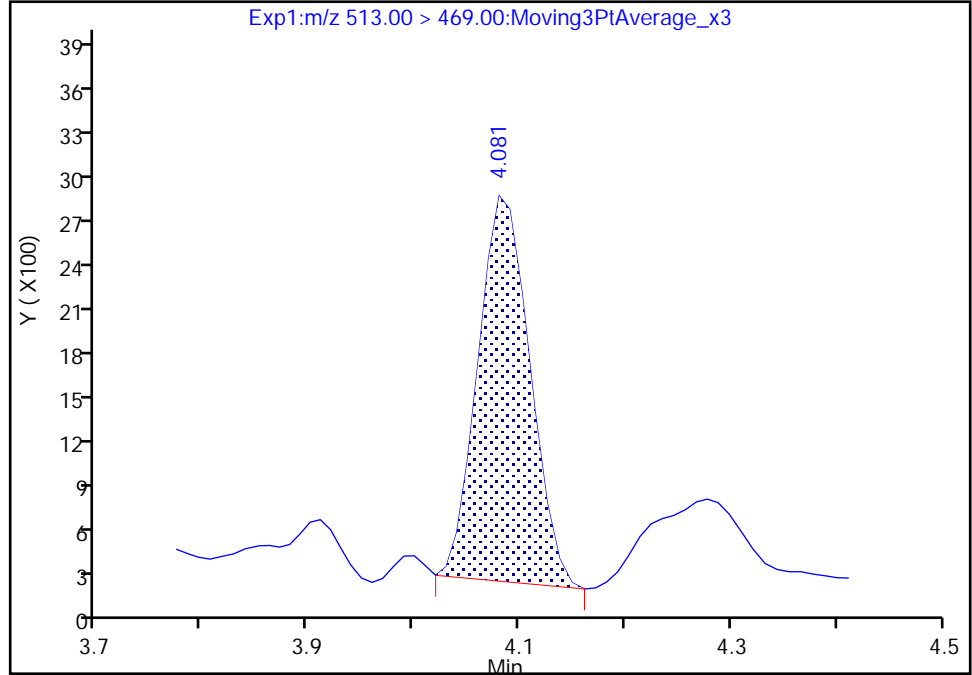
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

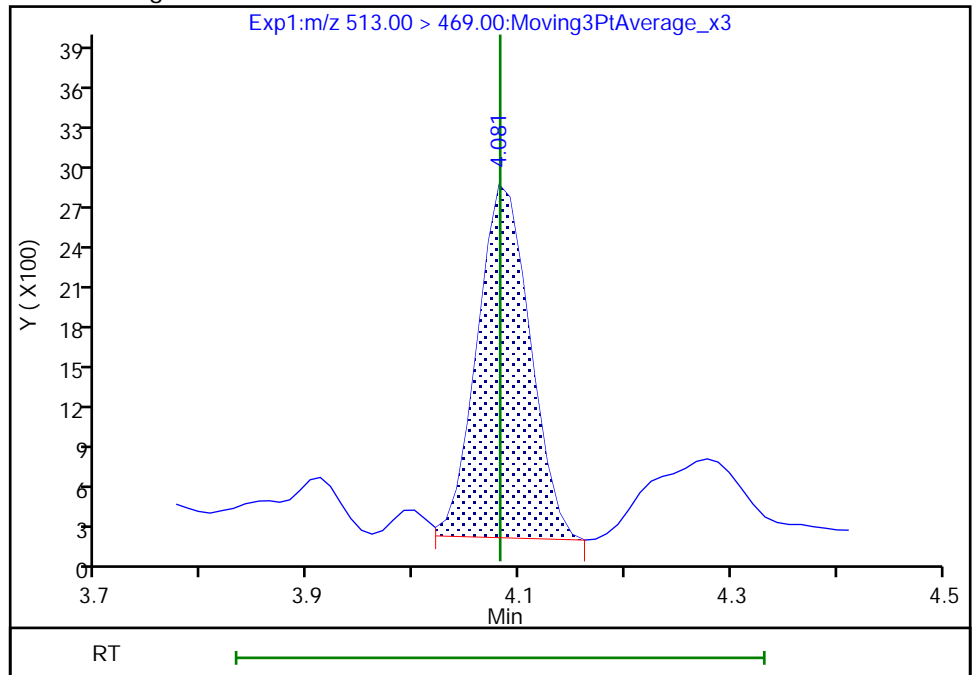
RT: 4.08  
Area: 8756  
Amount: 0.023891  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 9009  
Amount: 0.024582  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:56:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

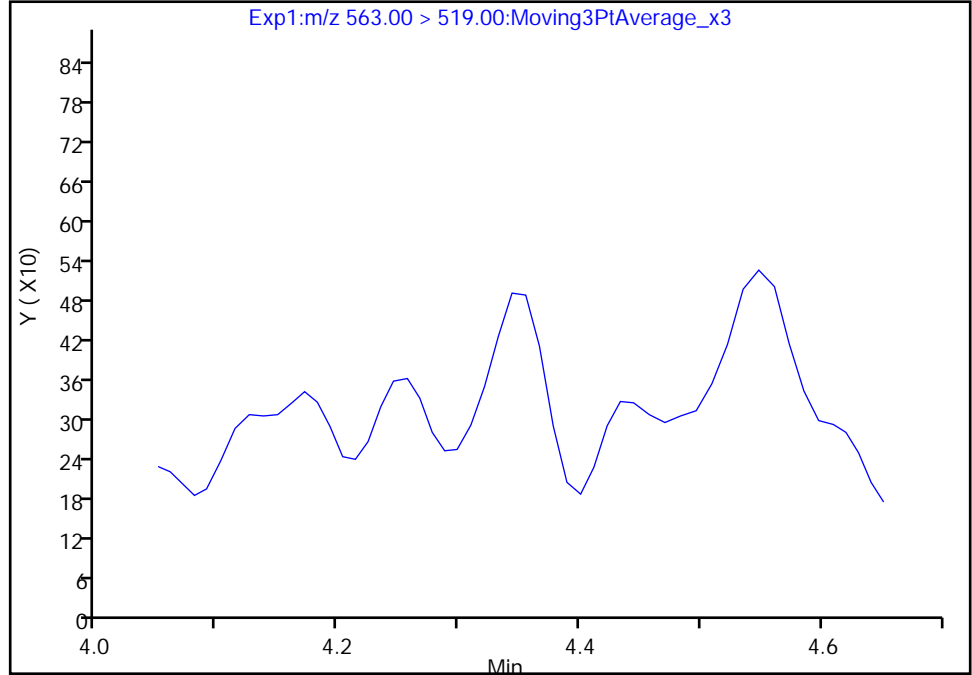
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

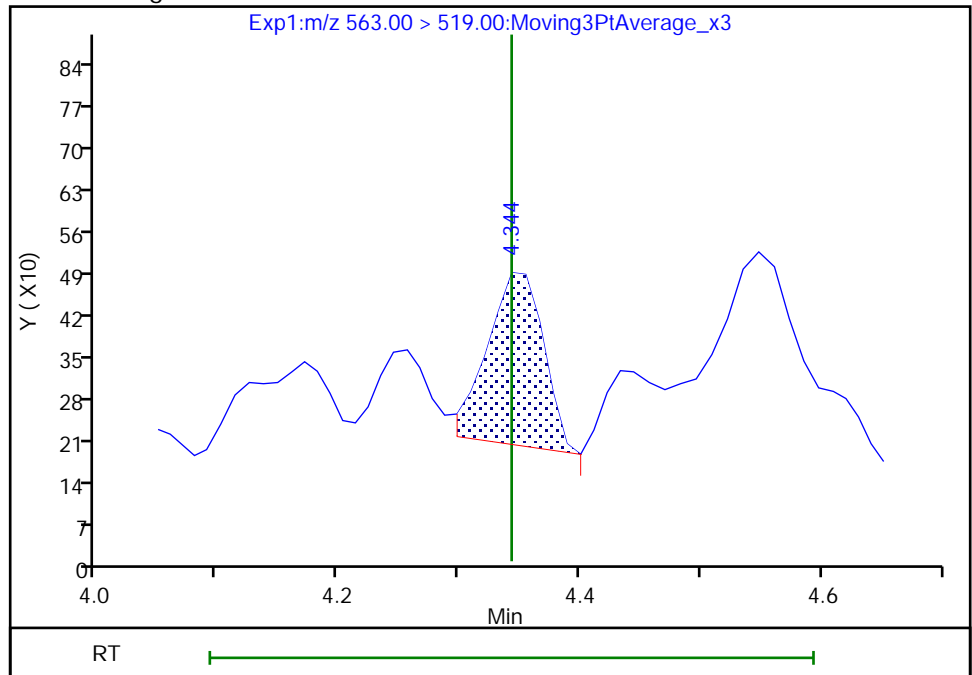
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 929  
Amount: 0.003826  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

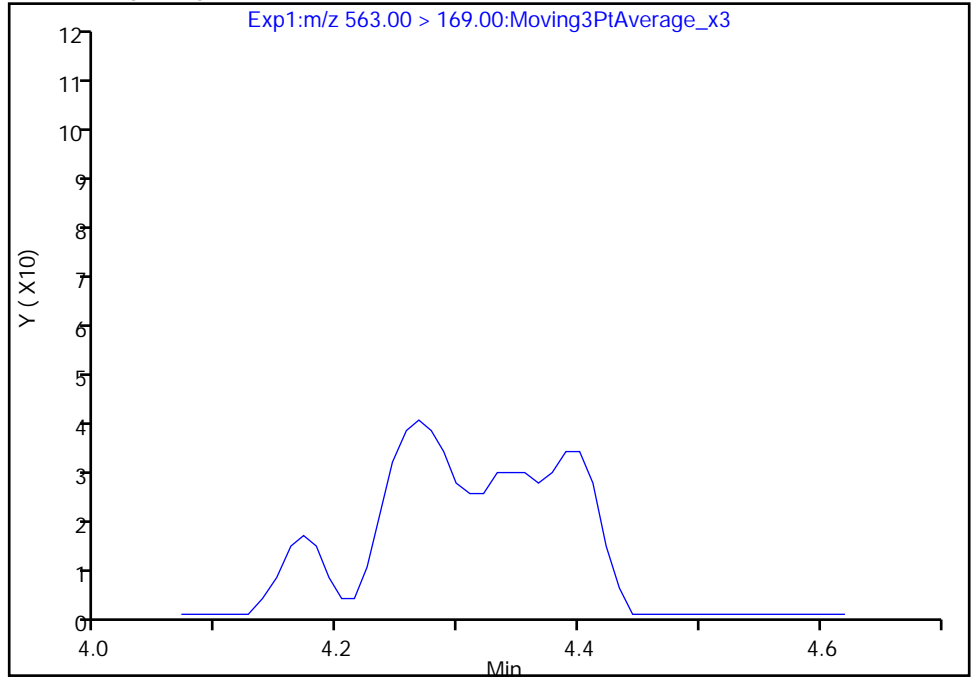
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

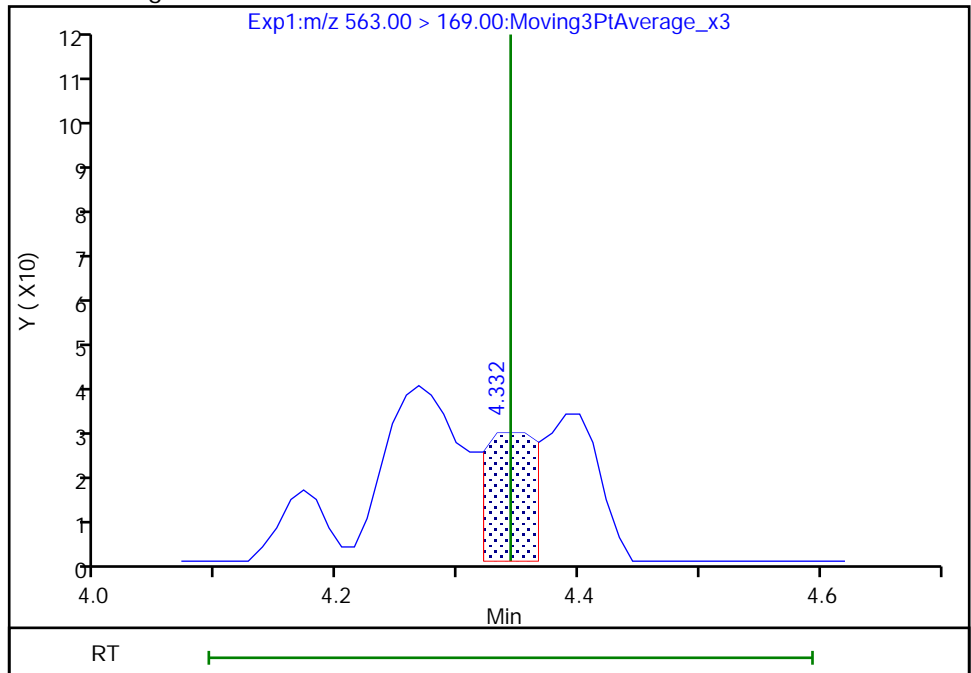
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.33  
Area: 71  
Amount: 0.003826  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:57:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

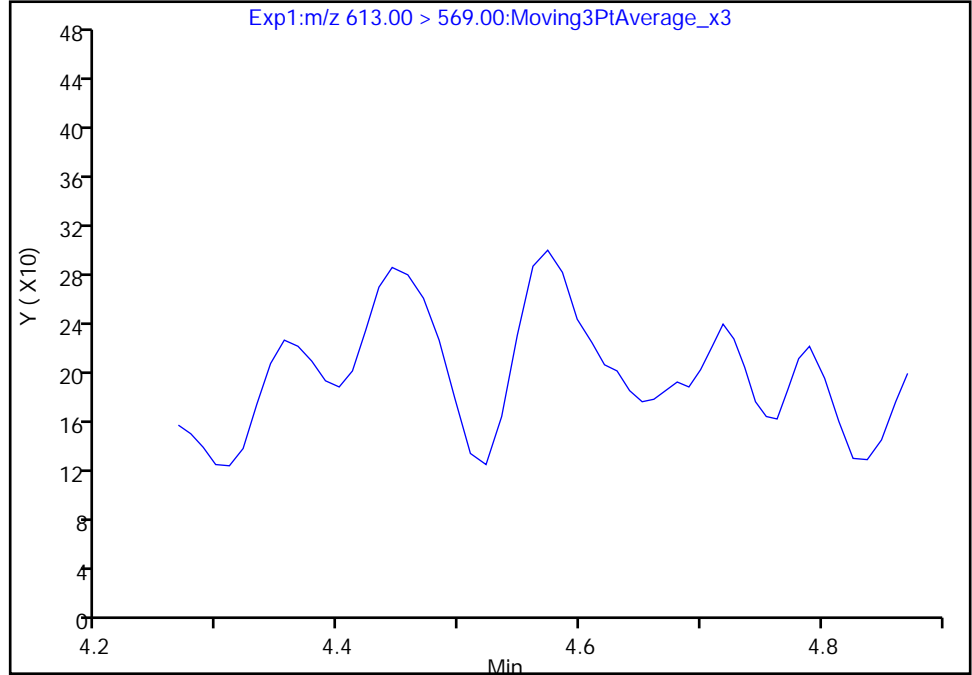
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

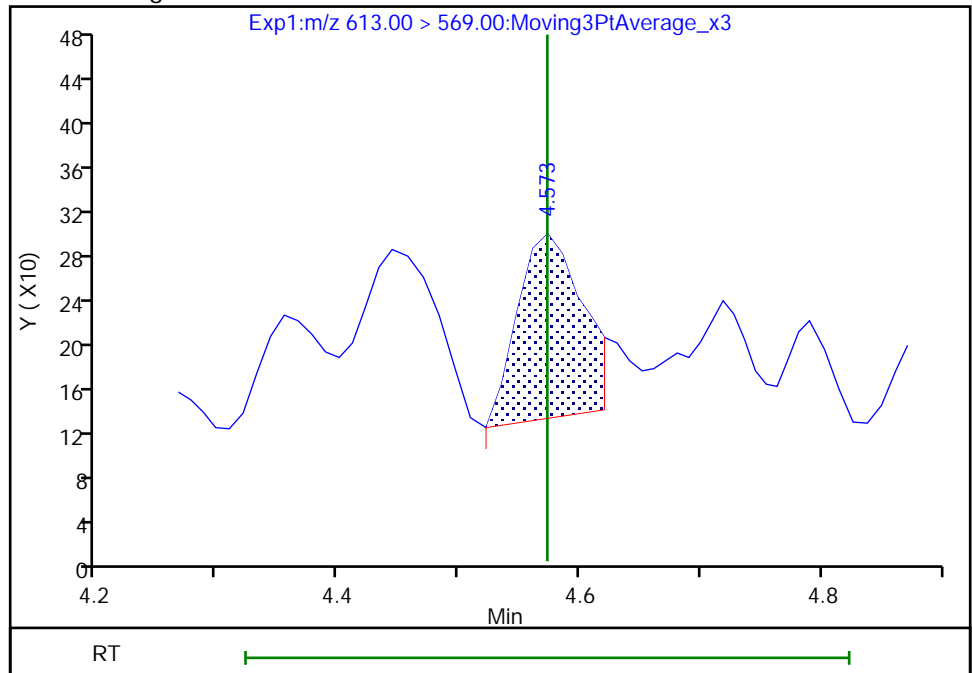
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57  
Area: 607  
Amount: 0.002524  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:03:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

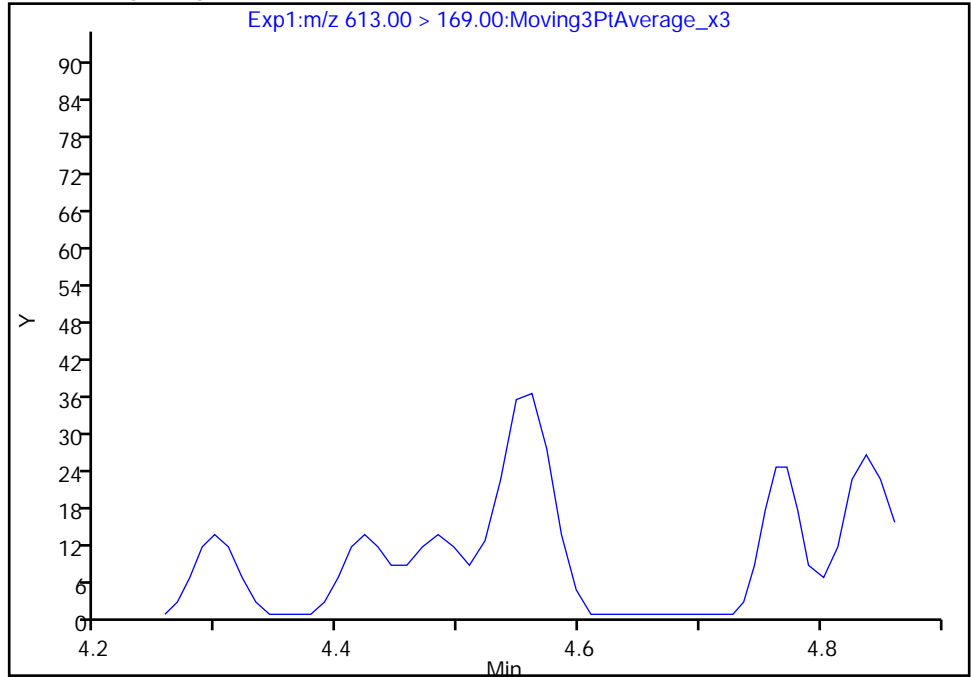
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

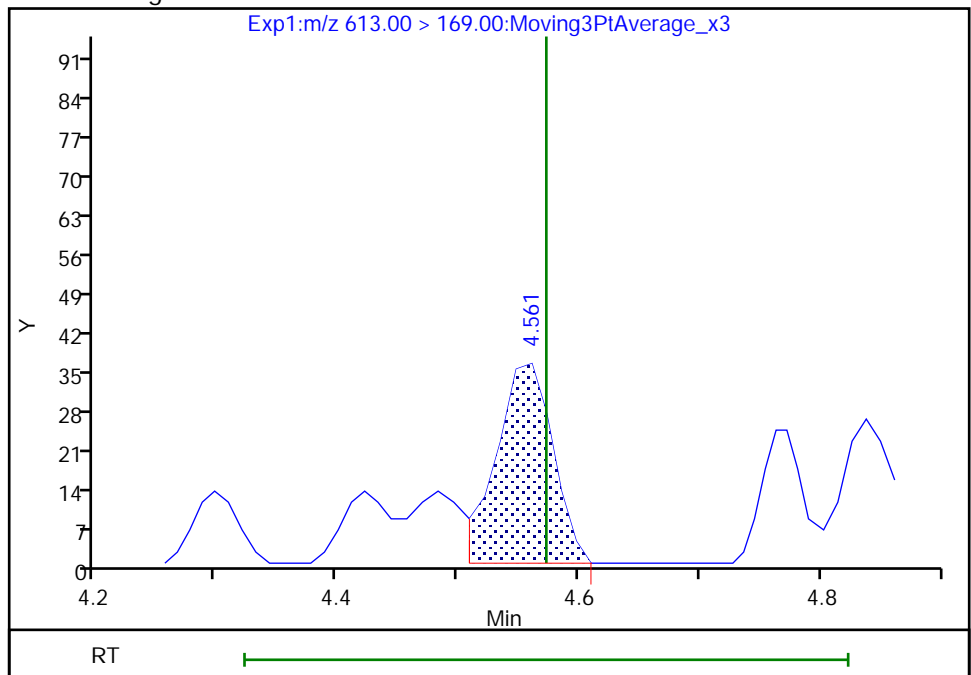
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.56  
Area: 116  
Amount: 0.002524  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:03:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

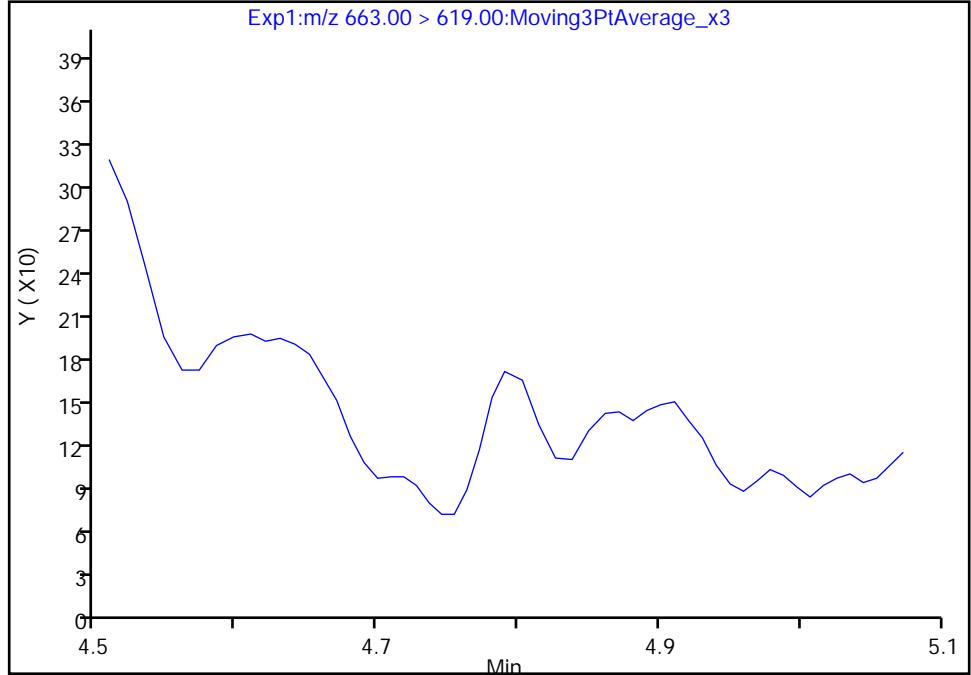
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

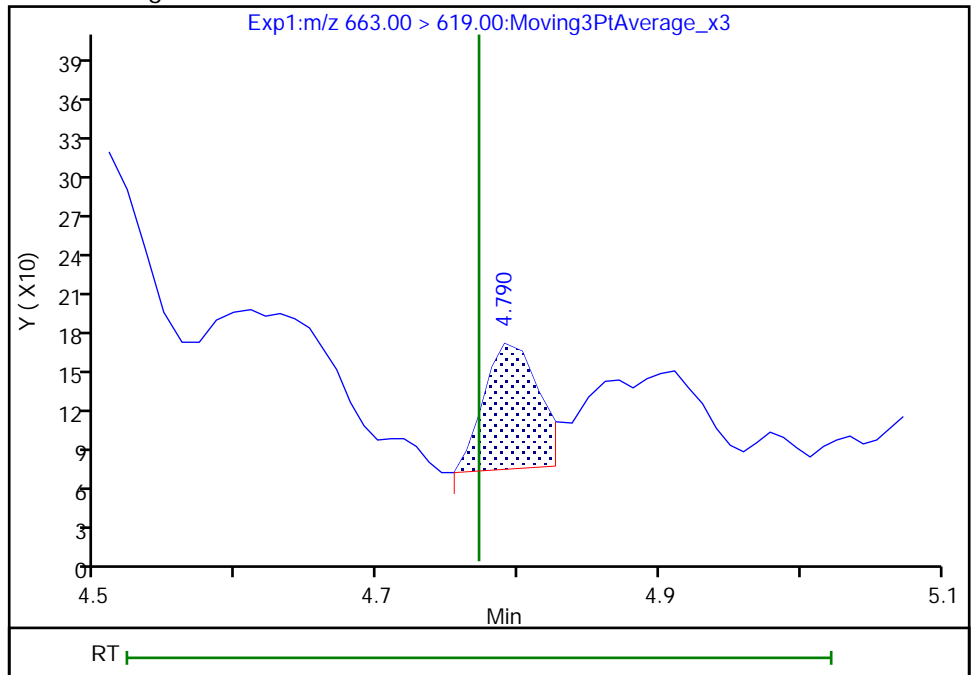
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.79  
Area: 255  
Amount: 0.001249  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:04:07  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

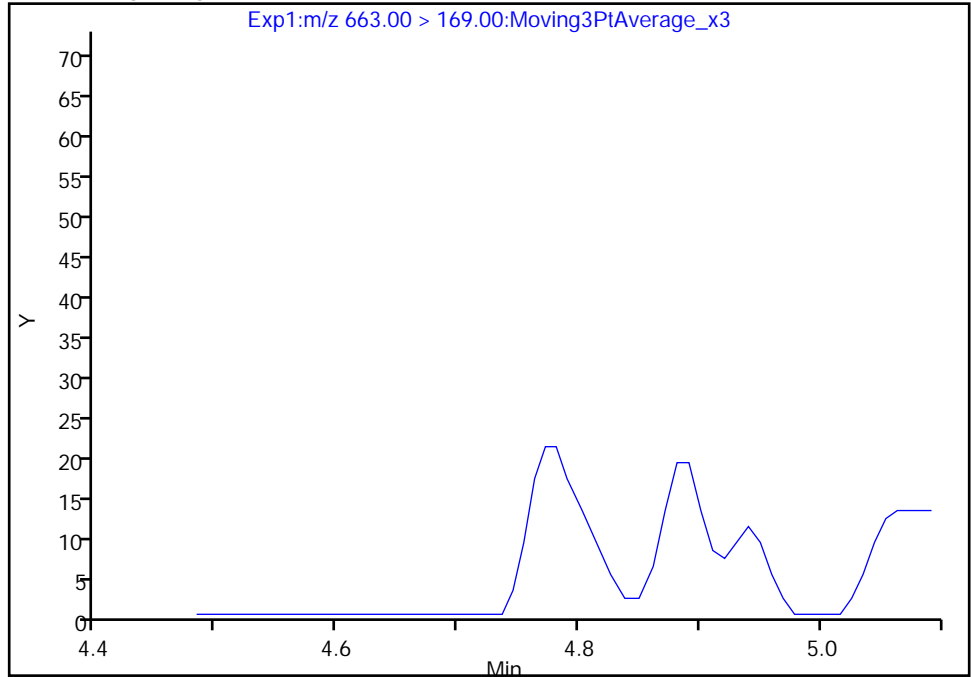
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

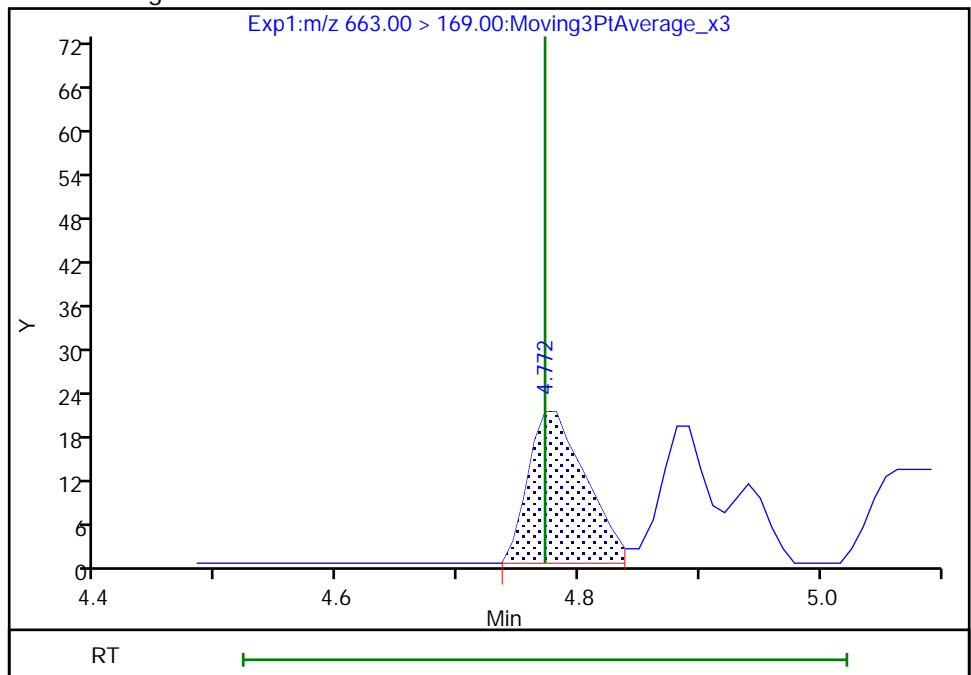
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.77  
Area: 69  
Amount: 0.001249  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:04:08

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

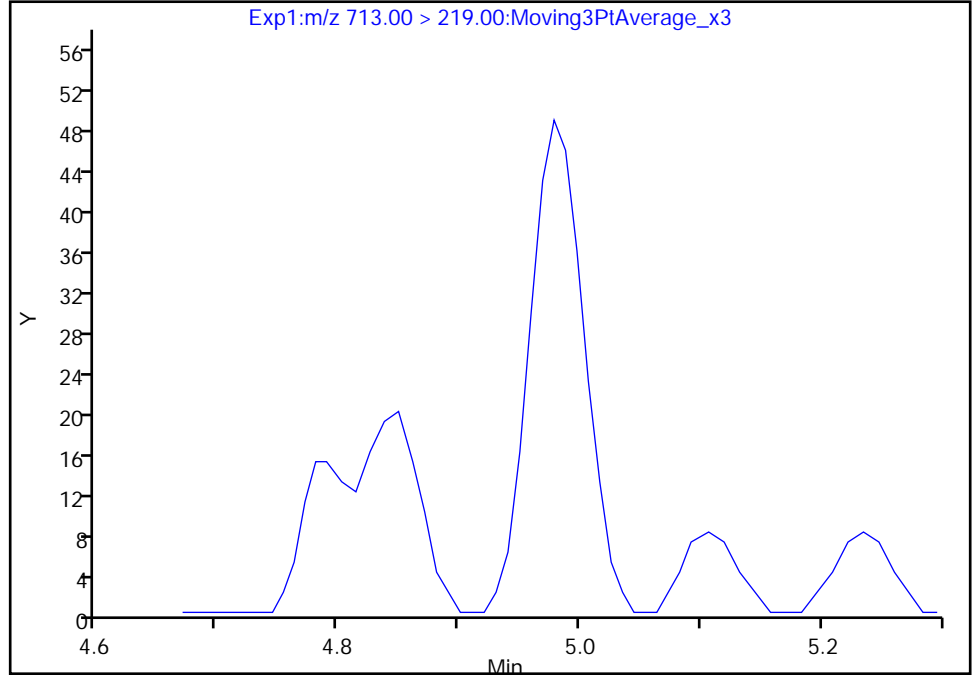
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

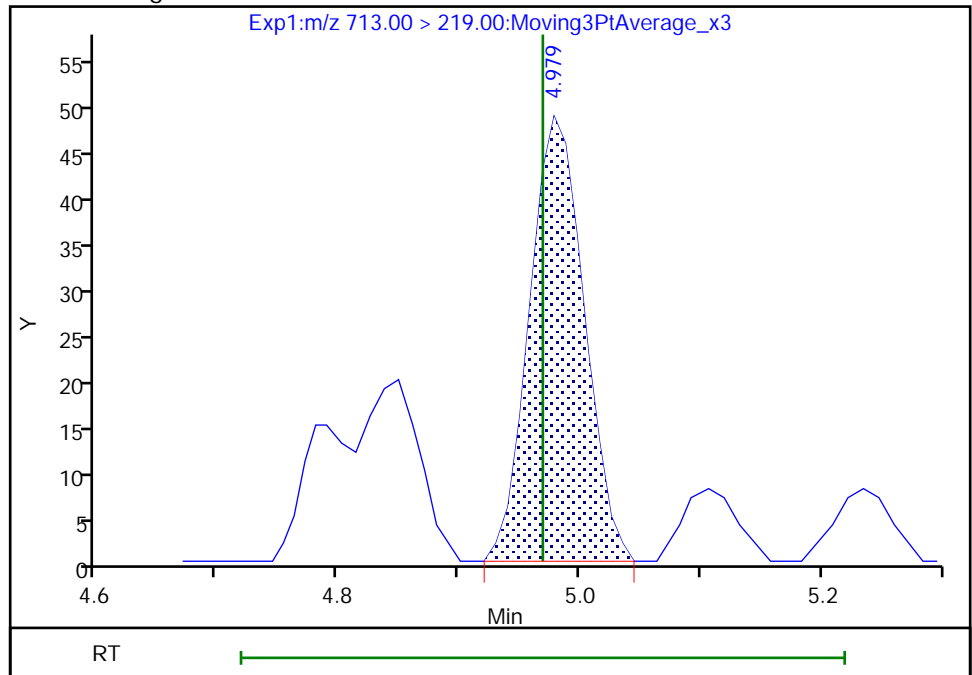
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 154  
Amount: 0.001515  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:04:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

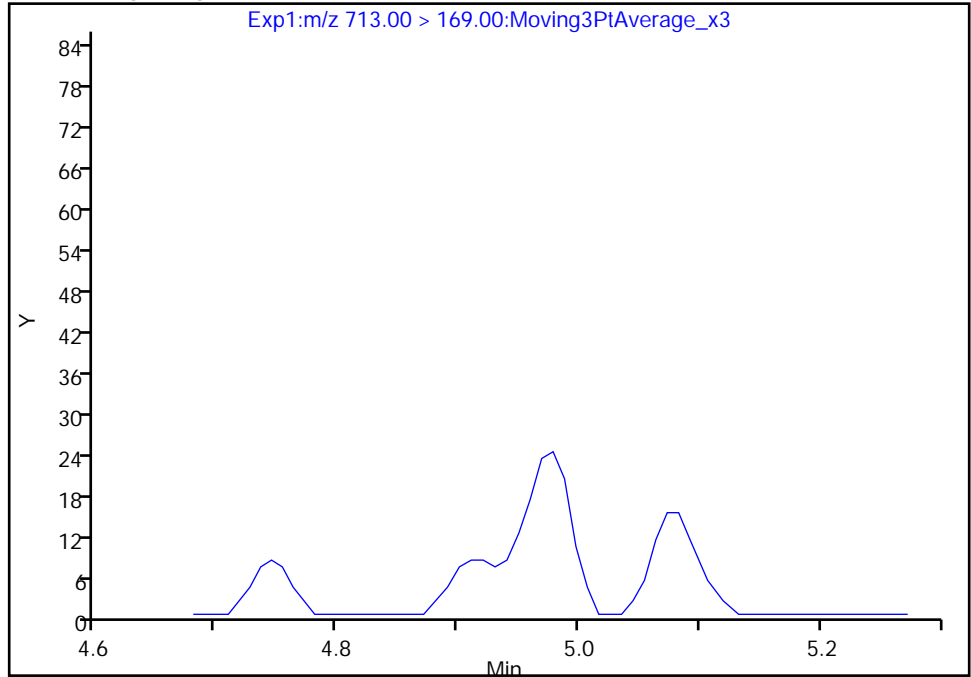
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

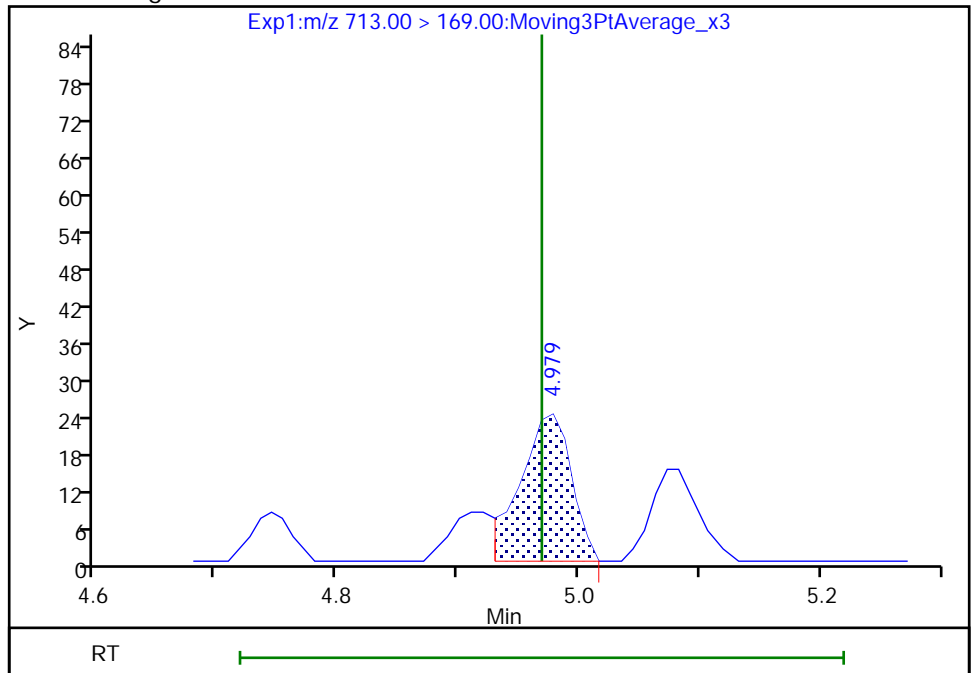
Not Detected  
Expected RT: 4.97

Processing Integration Results



RT: 4.98  
Area: 69  
Amount: 0.001515  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:04:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

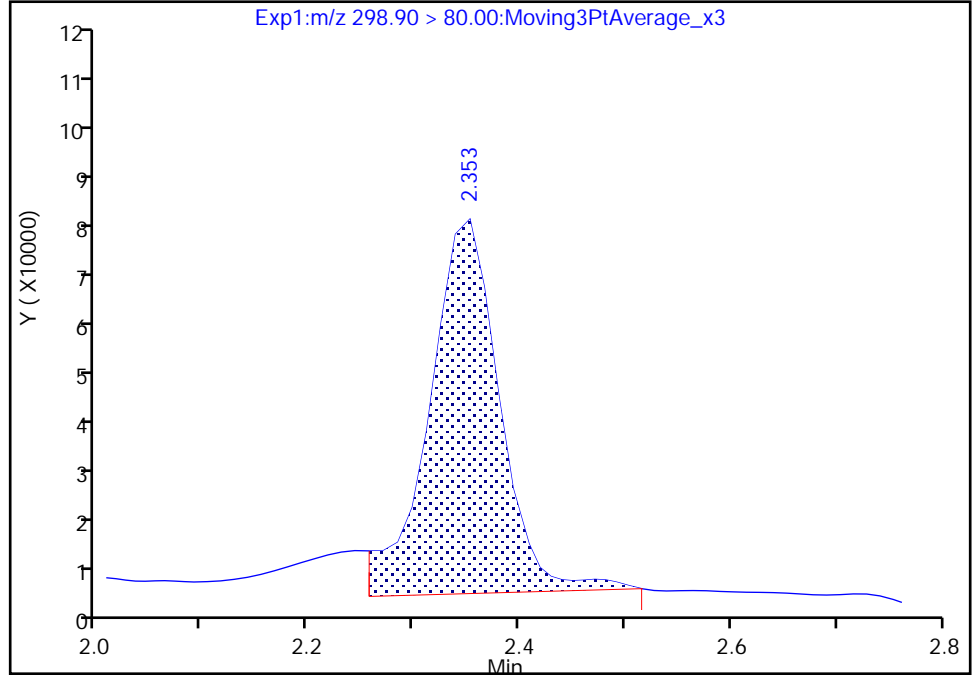
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

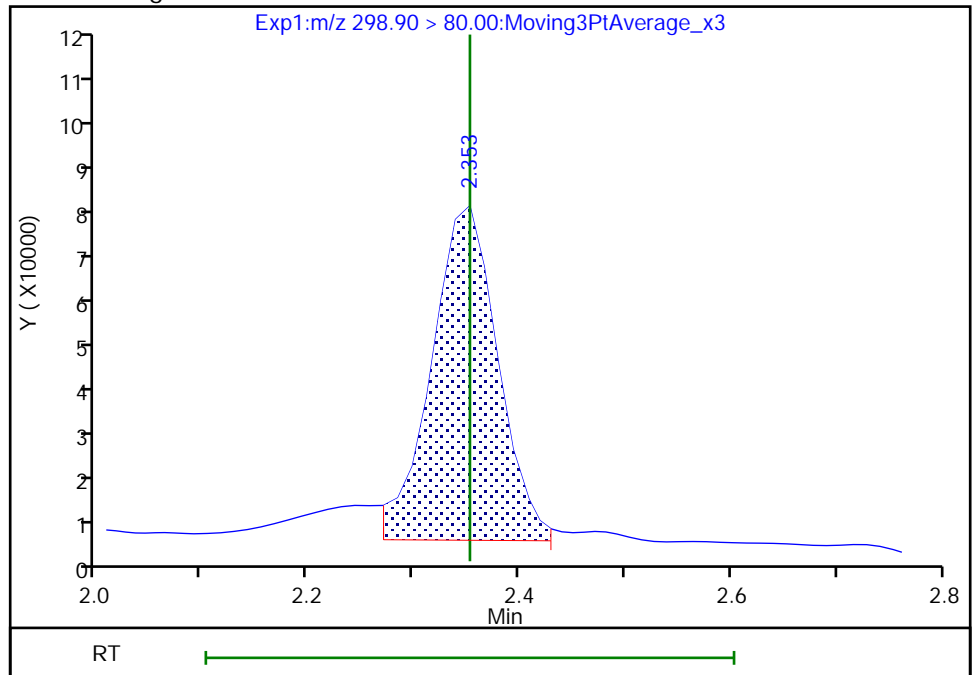
RT: 2.35  
Area: 354546  
Amount: 0.527868  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 329234  
Amount: 0.490182  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:53:21  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

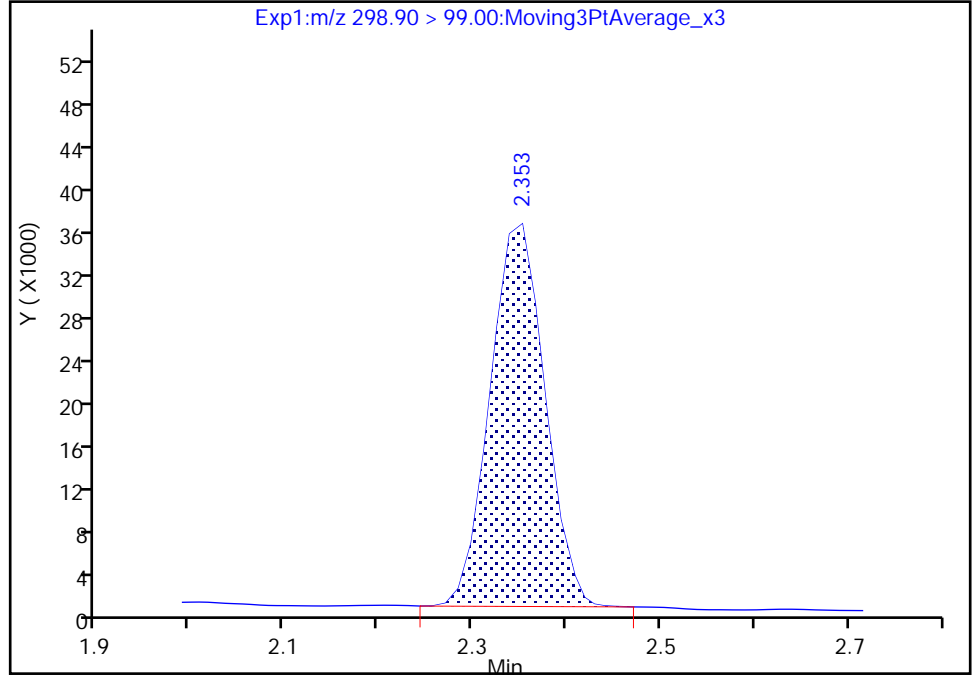
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

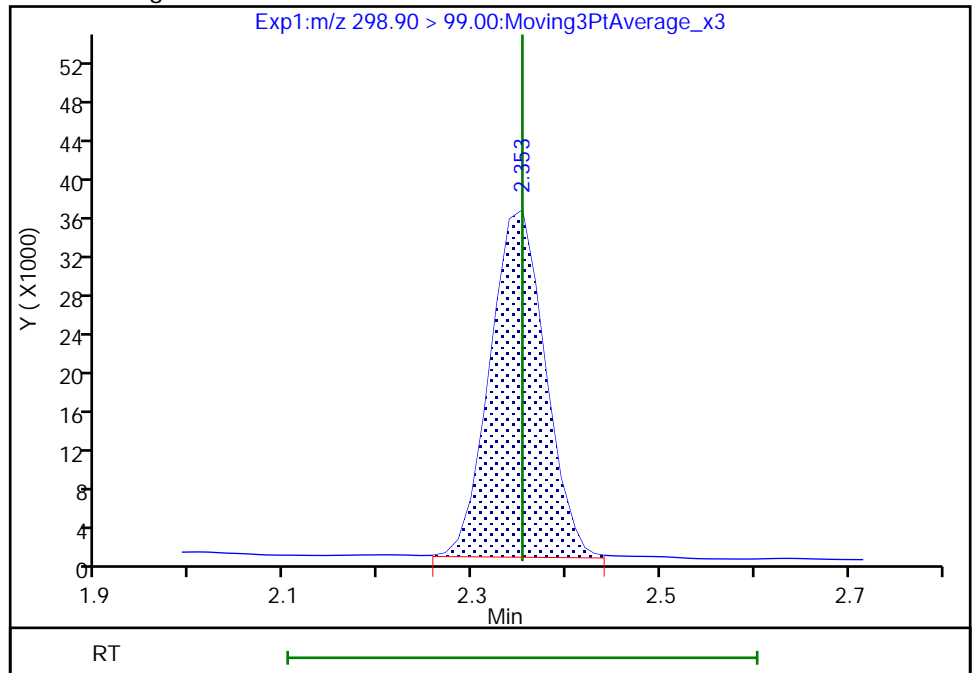
RT: 2.35  
Area: 143564  
Amount: 0.527868  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 144983  
Amount: 0.490182  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:53:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

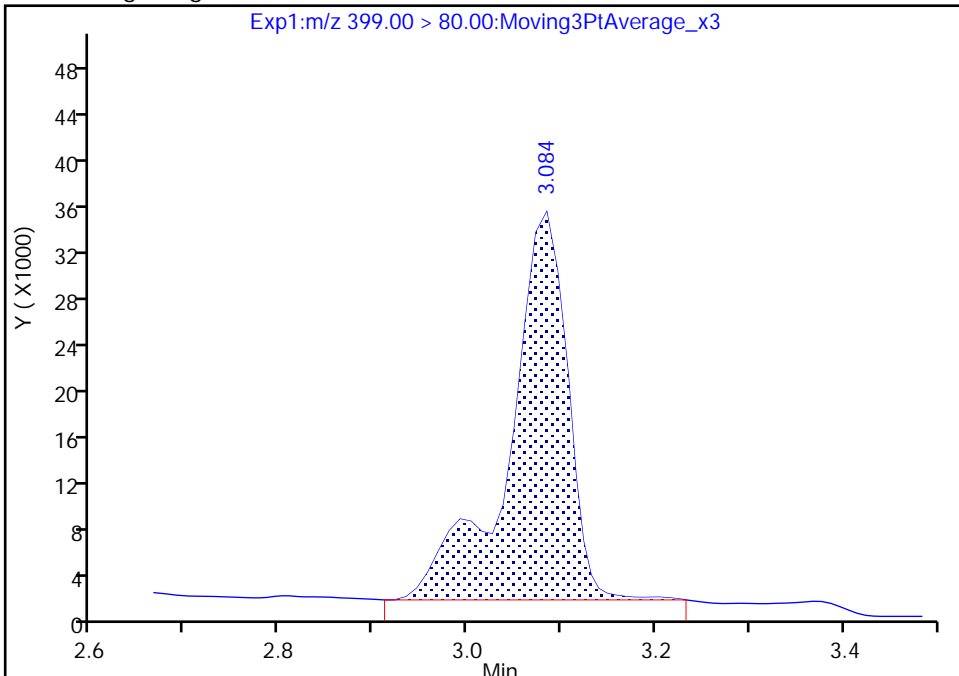
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

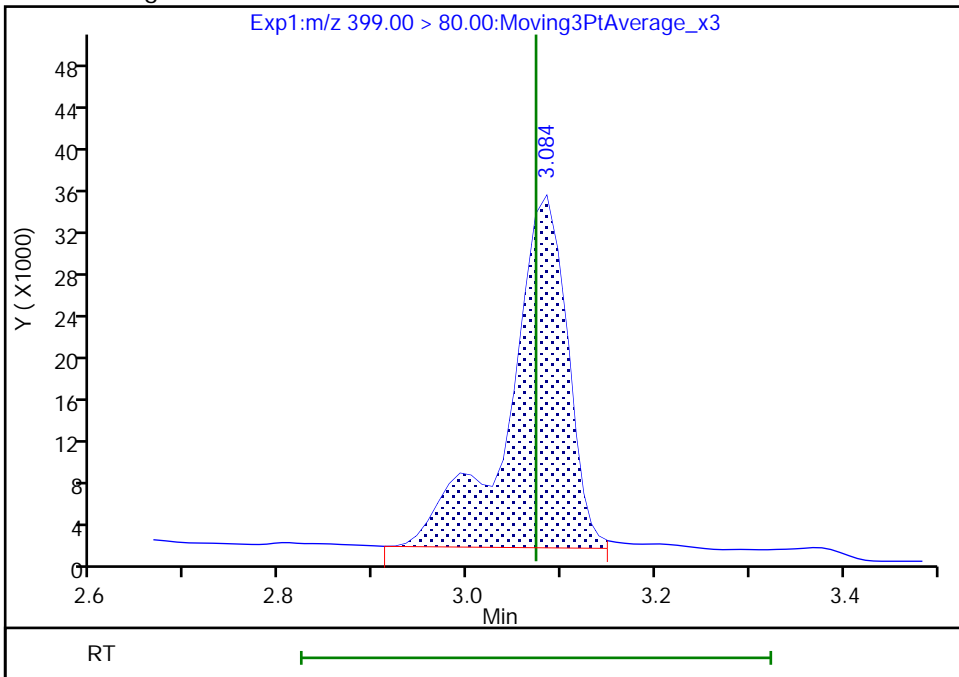
RT: 3.08  
Area: 147255  
Amount: 0.247672  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 147433  
Amount: 0.247972  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:54:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

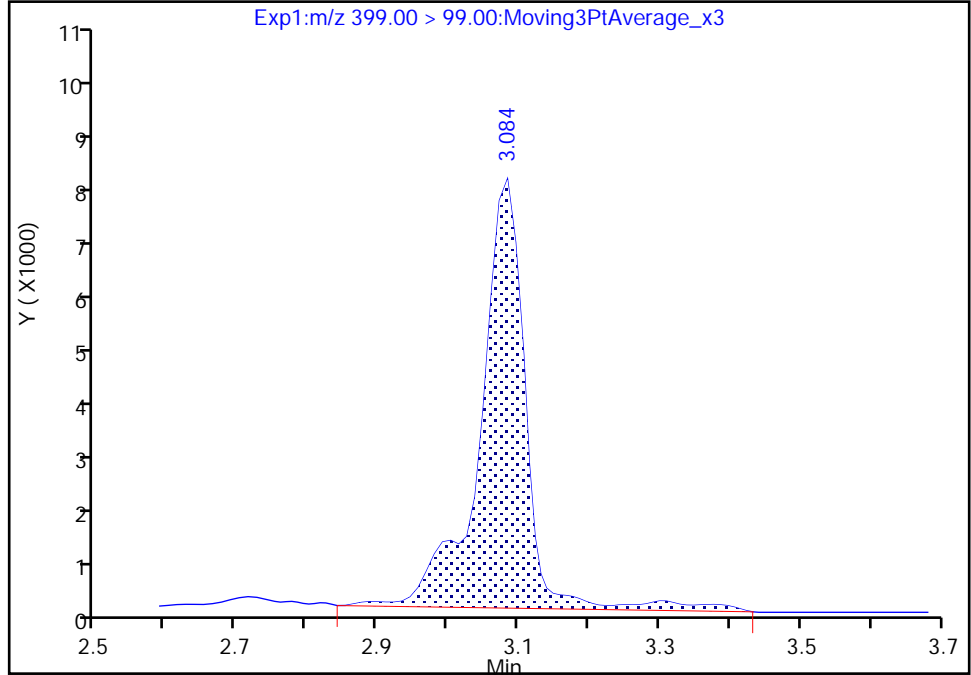
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

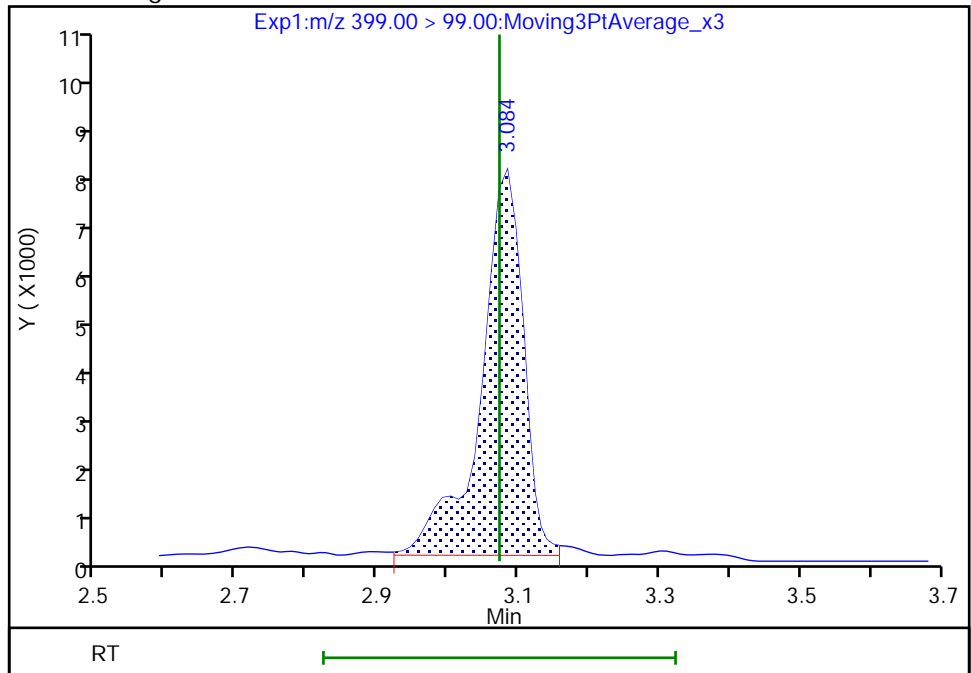
RT: 3.08  
Area: 35733  
Amount: 0.247672  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 33024  
Amount: 0.247972  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:54:02

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

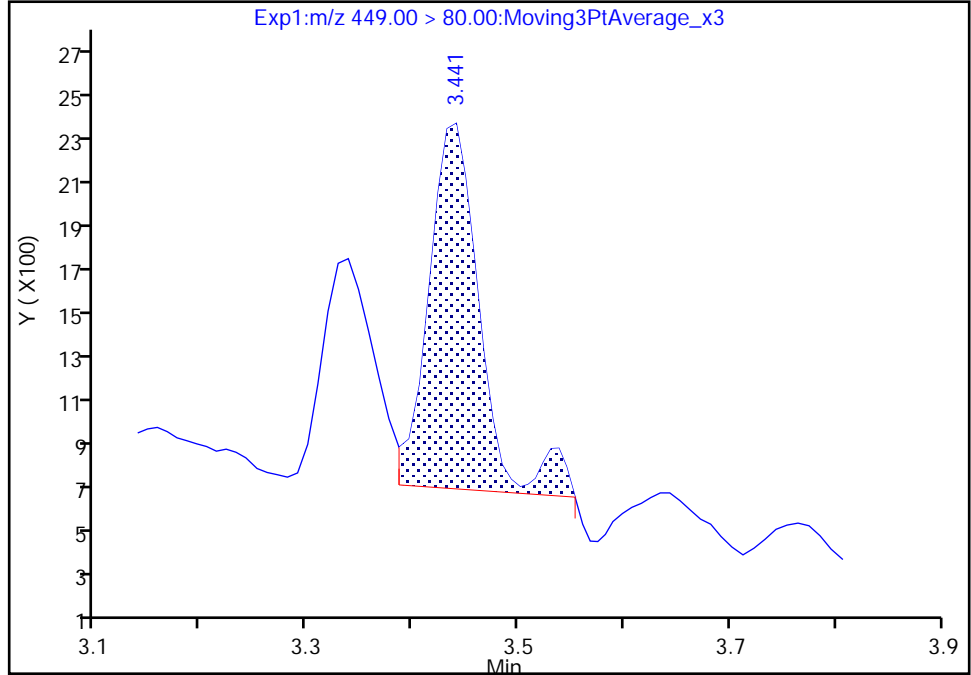
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

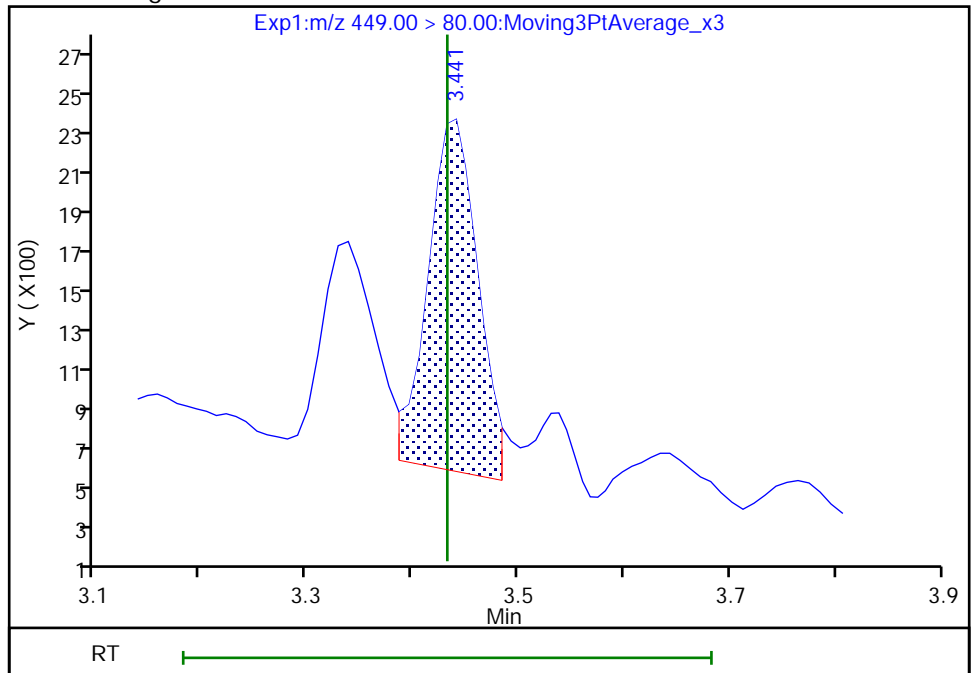
RT: 3.44  
Area: 5505  
Amount: 0.013005  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 5679  
Amount: 0.013416  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:54:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

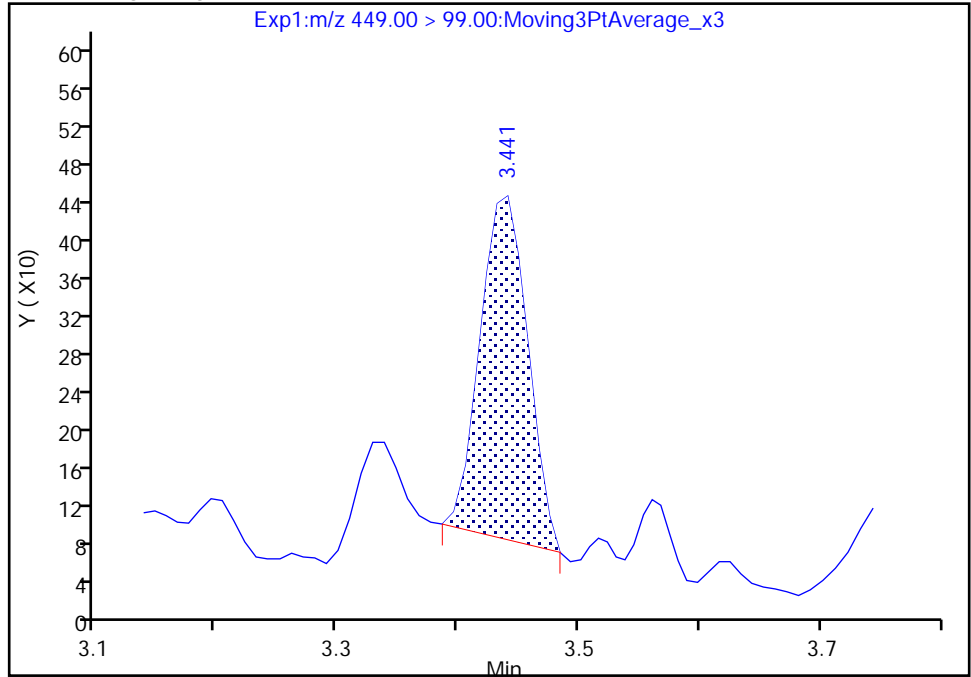
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

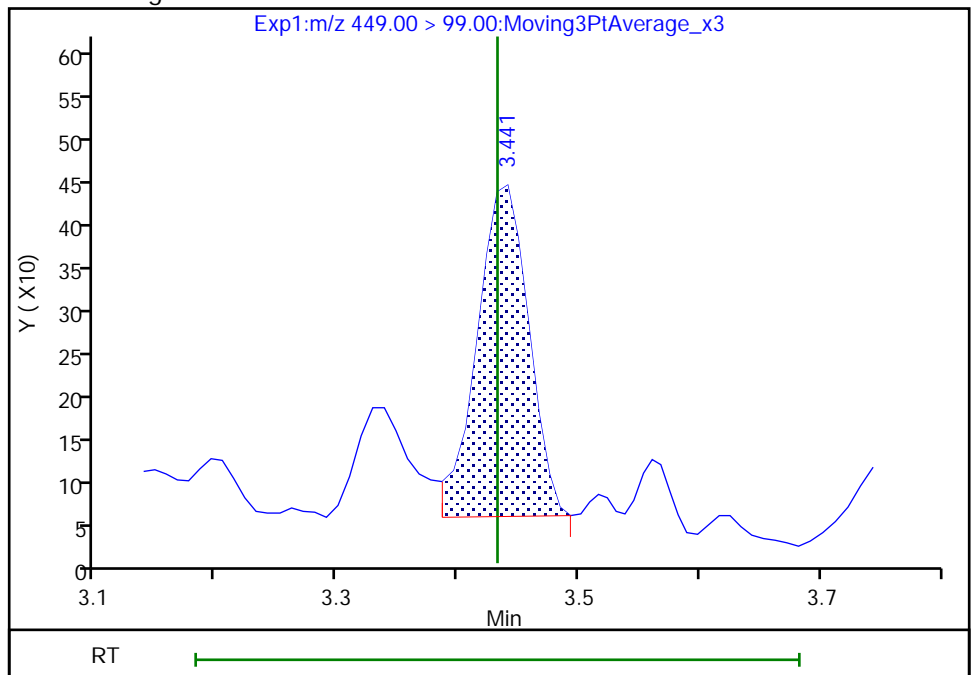
RT: 3.44  
Area: 994  
Amount: 0.013005  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 1149  
Amount: 0.013416  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:54:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

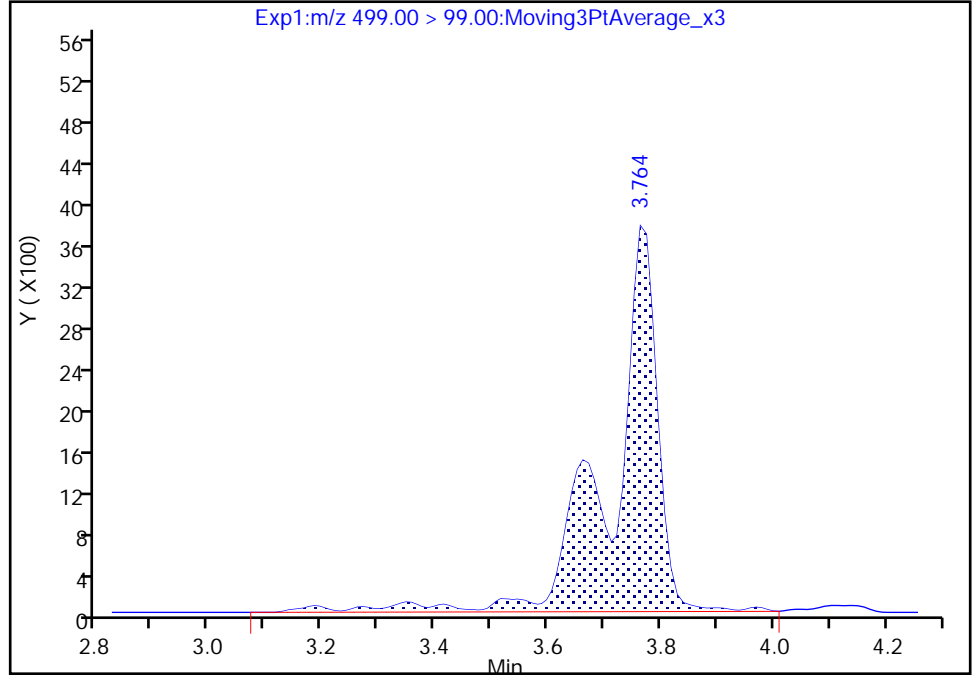
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

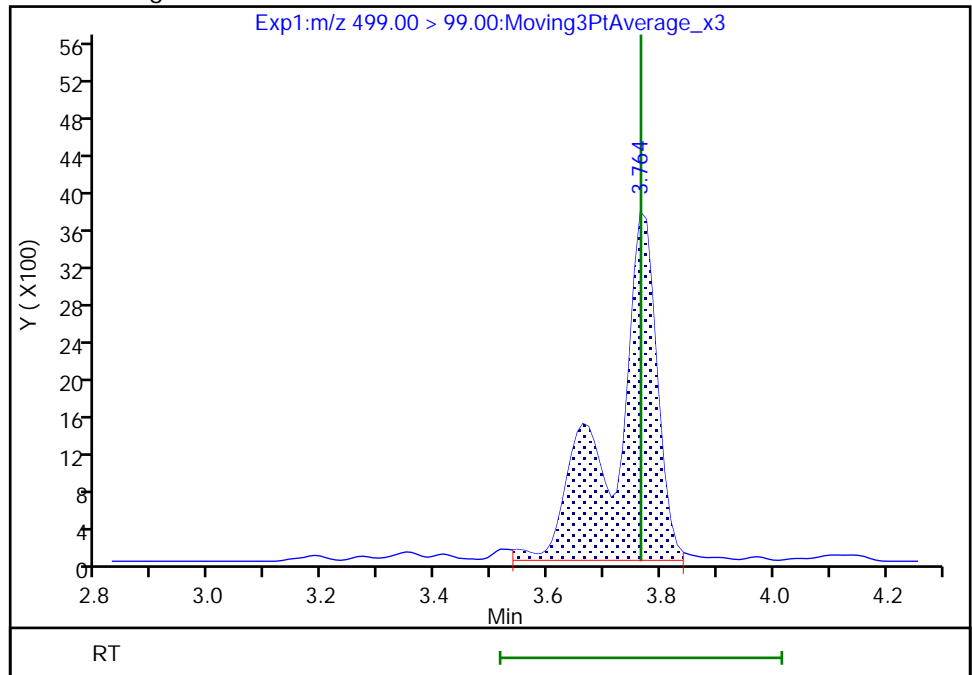
RT: 3.76  
Area: 21693  
Amount: 0.517839  
Amount Units: ng/ml

Processing Integration Results



RT: 3.76  
Area: 20110  
Amount: 0.461164  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:55:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

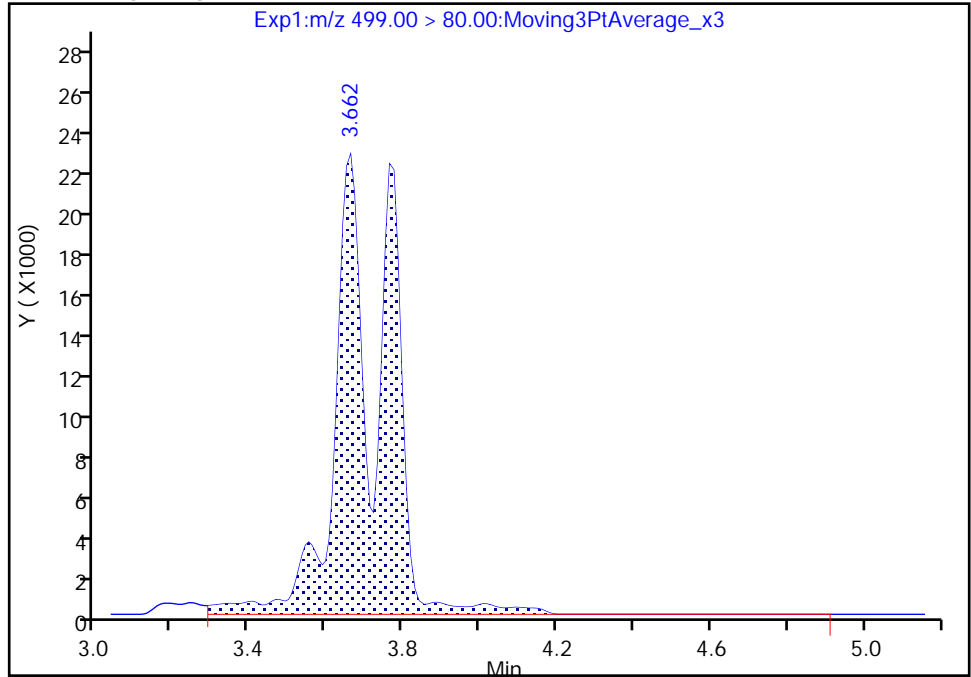
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

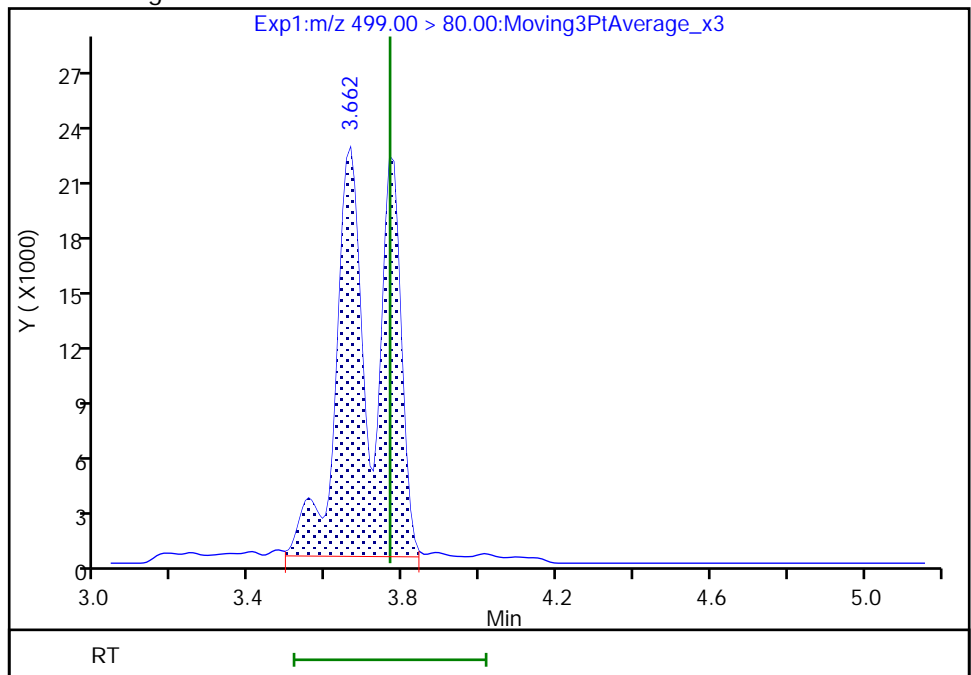
RT: 3.66  
Area: 205607  
Amount: 0.517839  
Amount Units: ng/ml

Processing Integration Results



RT: 3.66  
Area: 183104  
Amount: 0.461164  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 14:55:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

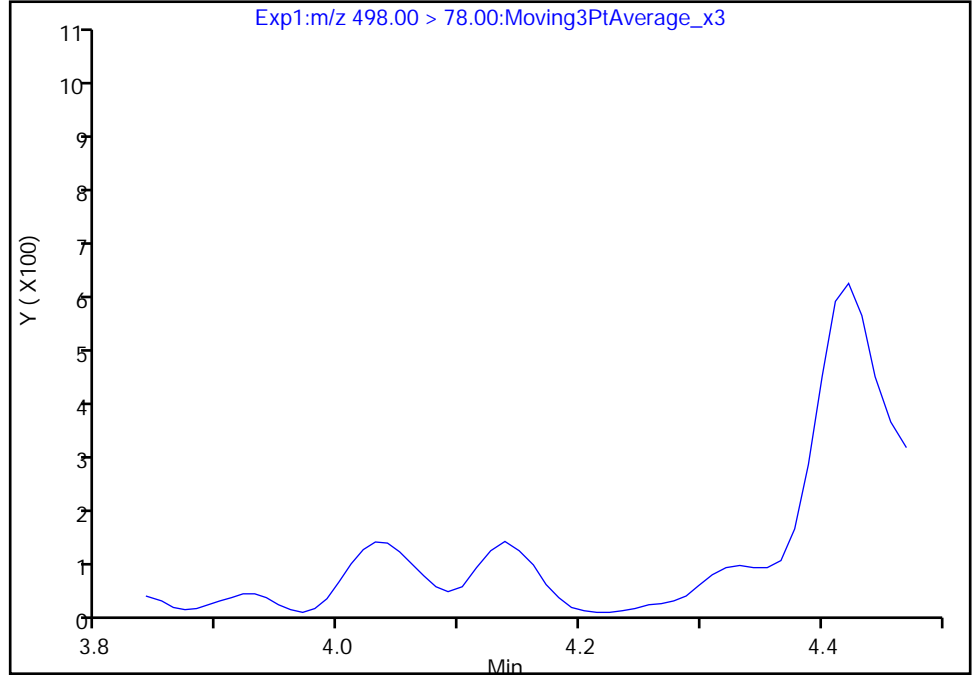
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

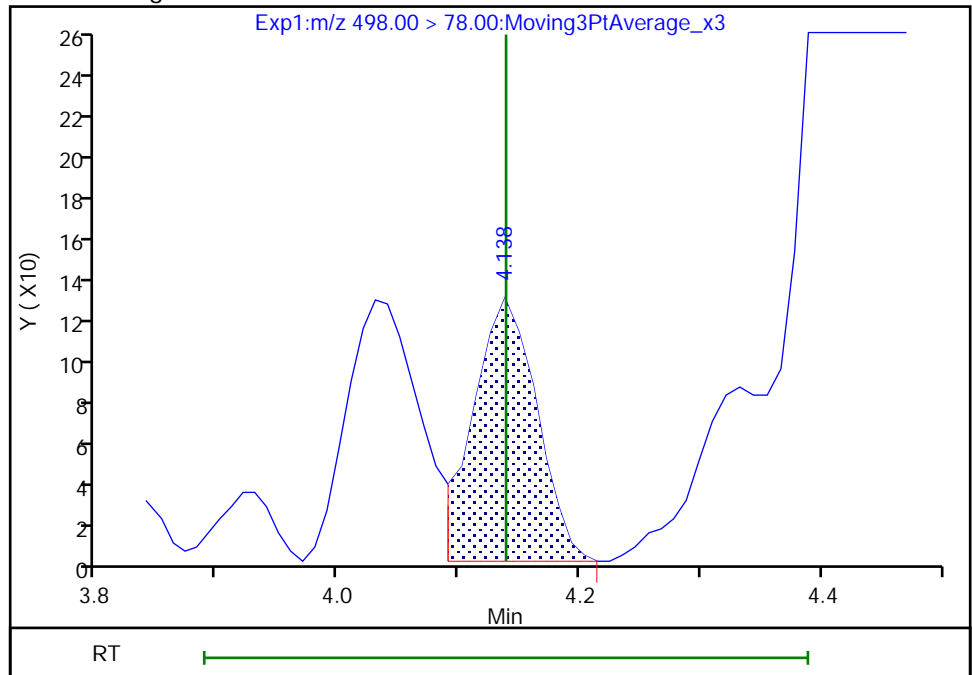
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14  
Area: 470  
Amount: 0.000899  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:56:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

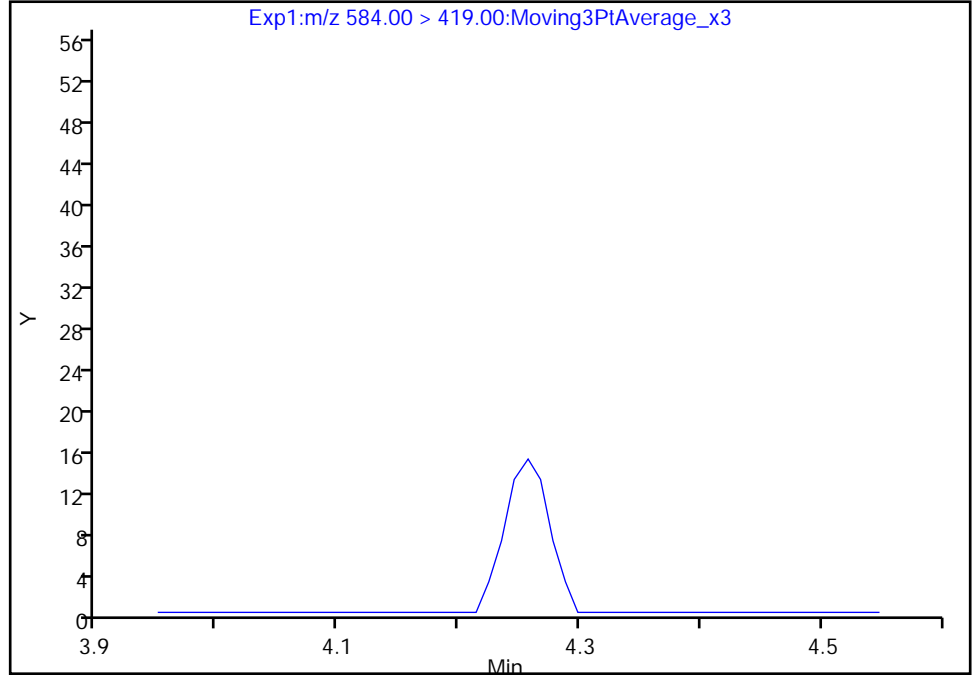
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

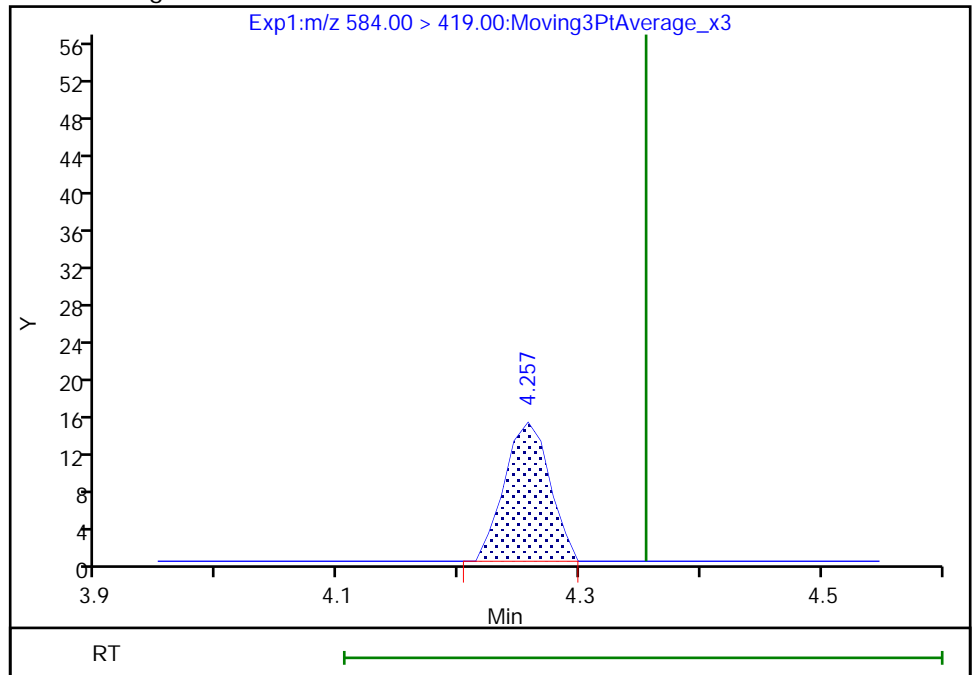
Not Detected  
Expected RT: 4.35

Processing Integration Results



RT: 4.26  
Area: 38  
Amount: 0.002043  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:03:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

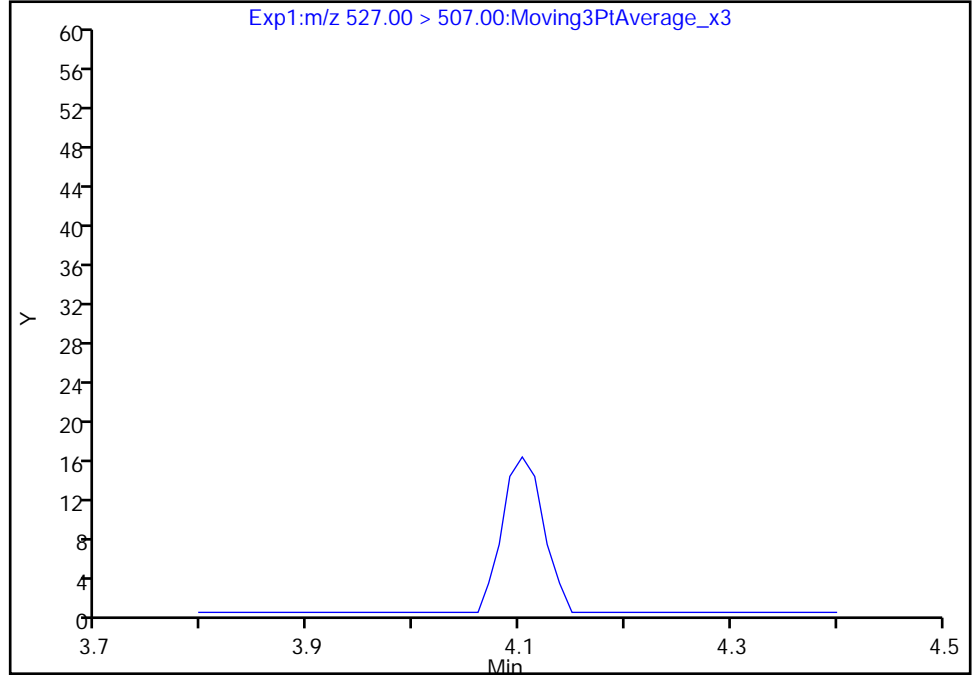
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B20.d  
Injection Date: 30-Sep-2020 20:51:56 Instrument ID: LC812  
Lims ID: 480-175657-C-4-A Lab Sample ID: 200-175657-4  
Client ID: MW-4  
Operator ID: lc812tech ALS Bottle#: 20 Worklist Smp#: 20  
Injection Vol: 20.0 ul Dil. 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

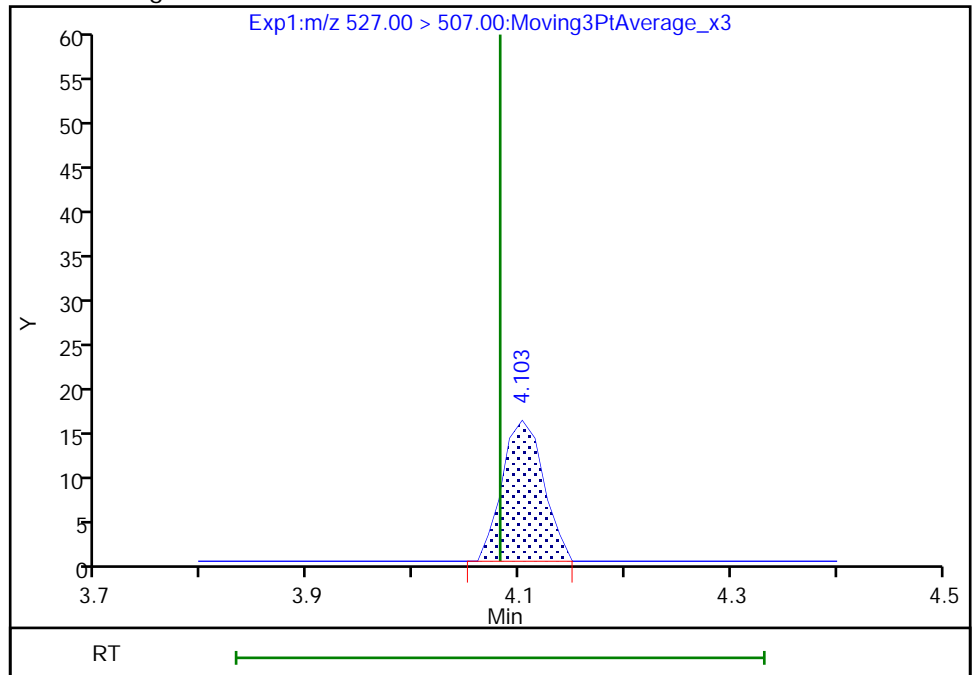
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.10  
Area: 43  
Amount: 0.001531  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 14:56:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5 Lab Sample ID: 480-175657-5  
 Matrix: Water Lab File ID: PA200930B21.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 10:55  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 304.8 (mL) Date Analyzed: 09/30/2020 21:00  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	20		4.1	0.93
2706-90-3	Perfluoropentanoic acid (PFPeA)	21		1.6	0.89
307-24-4	Perfluorohexanoic acid (PFHxA)	18		1.6	0.68
375-85-9	Perfluoroheptanoic acid (PFHpA)	14		1.6	0.38
335-67-1	Perfluorooctanoic acid (PFOA)	56		1.6	0.80
375-95-1	Perfluorononanoic acid (PFNA)	3.3		1.6	0.48
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.38
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.60
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.38
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	25		1.6	0.52
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	4.8		1.6	0.55
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.3	J	1.6	0.32
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	53		1.6	0.71
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.76
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.59
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.54



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5 Lab Sample ID: 480-175657-5  
 Matrix: Water Lab File ID: PA200930B21.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 10:55  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 304.8 (mL) Date Analyzed: 09/30/2020 21:00  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	93		50-150
STL01892	13C4 PFHpA	90		50-150
STL00990	13C4 PFOA	91		50-150
STL00991	13C4 PFOS	70		50-150
STL00995	13C5 PFNA	78		50-150
STL00992	13C4 PFBA	65		25-150
STL00993	13C2 PFHxA	89		50-150
STL00996	13C2 PFDA	71		50-150
STL00997	13C2 PFUnA	69		50-150
STL00998	13C2 PFDoA	66		50-150
STL01056	13C8 FOSA	53		25-150
STL01893	13C5 PFPeA	82		25-150
STL02116	13C2 PFTeDA	64		50-150
STL02118	d3-NMeFOSAA	68		50-150
STL02117	d5-NEtFOSAA	66		50-150
STL02279	M2-6:2 FTS	100		25-150
STL02280	M2-8:2 FTS	71		25-150
STL02337	13C3 PFBS	87		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
 Lims ID: 480-175657-C-5-A  
 Client ID: MW-5  
 Sample Type: Client  
 Inject. Date: 30-Sep-2020 21:00:13 ALS Bottle#: 21 Worklist Smp#: 21  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-5-A  
 Misc. Info.: 200-0043035-021 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 15:12:19  
 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	1.990	1.990	0.0	0.577	676780	0.8165	65.3	7137	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.000	305310	0.6033		34.1		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	608396	1.02	81.9	517	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	327304	0.6368		3.8		M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	735455	1.02	87.4	36431	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.353	0.0	1.006	476185	0.7554	Target=2.07	42.9		M
298.90 > 99.00	2.353	2.353	0.0	1.006	250601		1.90(1.04-3.11)	54.3		M
D 7 13C2 PFHxA	315.00 > 270.00	2.704	2.703	0.001	0.784	684058	1.12	89.4	2402	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.704	2.703	0.001	1.000	305002	0.5535	Target=12.44	14.7		M
313.00 > 119.00	2.704	2.703	0.001	1.000	23717		12.86(6.22-18.66)	24.3		M
D 11 18O2 PFHxS	403.00 > 84.00	3.073	3.073	0.0	0.891	571790	1.10	93.2	4035	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.085	3.073	0.012	1.004	78252	0.1465	Target=4.60	29.8		M
399.00 > 99.00	3.085	3.073	0.012	1.004	16598		4.71(2.30-6.91)	20.9		M
D 9 13C4 PFHpA	367.00 > 322.00	3.085	3.084	0.001	0.894	628658	1.13	90.4	3316	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.085	3.084	0.001	1.000	221212	0.4389	Target=3.34	12.9		M
363.00 > 169.00	3.085	3.084	0.001	1.000	68907		3.21(1.67-5.01)	102		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.433	0.009	0.914	13254	0.0387	Target=7.08	15.4		M
449.00 > 99.00	3.441	3.433	0.009	0.914	2007		6.60(3.54-10.63)	7.6		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.459	3.433	0.027	1.005	180	0.003245		5.6		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.997	82549	1.19		100	96.2	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	648580	1.14		91.1	3588	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		723084	1.25		3661		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	913069	1.70	Target=2.29	121		
413.00 > 169.00	3.450	3.450	0.0	1.000	427285		2.14(1.14-3.43)	735		M
D 18 13C4 PFOS										
503.00 > 80.00	3.766	3.765	0.001	1.091	353391	0.8322		69.6	607	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.664	3.765	-0.101	0.973	522888	1.63	Target=7.10	441		M
499.00 > 99.00	3.766	3.765	0.001	1.000	50744		10.30(3.55-10.64)	164		M
D 19 13C5 PFNA										
468.00 > 423.00	3.787	3.776	0.011	1.098	467105	0.9733		77.9	4427	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.787	3.786	0.001	1.000	37758	0.0992	Target=5.83	9.9		M
463.00 > 169.00	3.787	3.786	0.001	1.000	7353		5.14(2.91-8.74)	44.7		M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	410909	0.8929		71.4	4545	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.092	4.082	0.010	1.002	1333	0.004099	Target=6.81	0.8		M
513.00 > 169.00	4.082	4.082	0.0	1.000	196		6.80(3.41-10.22)	2.4		M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.082	4.082	0.0	0.998	39	0.001696		1.8		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	69577	0.8515		71.1	230	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	491127	0.6622		53.0	2059	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.151	4.139	0.012	1.003	520	0.001416		1.5		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.214	0.010	1.224	22361	0.8534		68.3	402	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.161	4.224	-0.063	0.985	41	0.002429		0.8		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.288	4.309	-0.021	1.139	306	0.001440	Target=3.31	2.6		M
599.00 > 99.00	4.310	4.309	0.001	1.144	112		2.73(1.66-4.97)	1.3		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.344	4.343	0.001	1.259	299338	0.8616		68.9	4914	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.343	0.012	1.003	431	0.001825	Target=6.57	0.5		RM
563.00 > 169.00	4.344	4.343	0.001	1.000	163		2.64(3.28-9.85)	4.2		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	23086	0.8196		65.6	572	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.151	4.355	-0.204	0.953	81	0.004791		1.7		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	301598	0.8214		65.7	3059	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	651	0.002767	Target=5.16	0.7		M
613.00 > 169.00	4.585	4.573	0.012	1.003	172		3.78(2.58-7.75)	3.9		M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.771	4.772	-0.001	1.043	697	0.003488	Target=3.30	0.7		RM
663.00 > 169.00	4.802	4.772	0.030	1.050	79		8.82(1.65-4.95)	3.0		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.969	0.009	1.443	209533	0.8011		64.1	2806	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.969	4.969	0.0	0.998	108	0.002813	Target=1.06	4.6		M
713.00 > 219.00	4.950	4.969	-0.019	0.994	89		1.21(0.53-1.59)	5.8		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\20200930-43035.b\PA200930B21.d

Injection Date: 30-Sep-2020 21:00:13

Instrument ID: LC812

Lims ID: 480-175657-C-5-A

Lab Sample ID: 200-175657-5

Client ID: MW-5

Operator ID: lc812tech

ALS Bottle#: 21

Worklist Smp#: 21

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

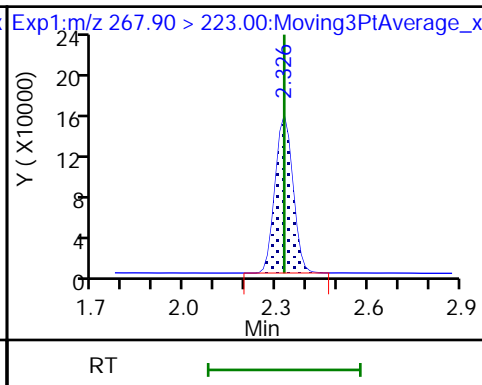
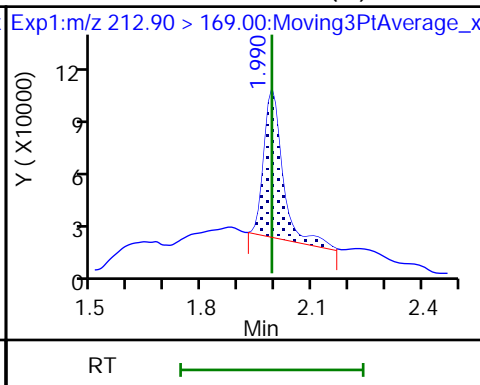
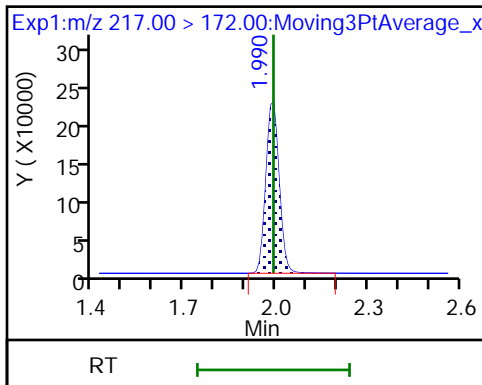
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

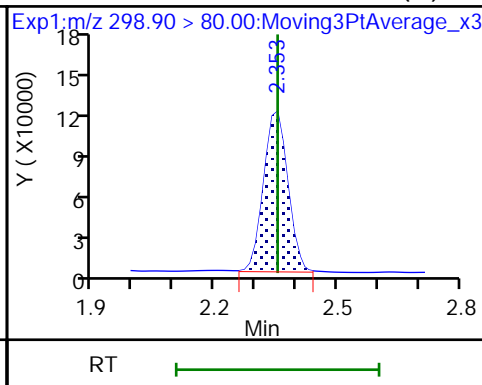
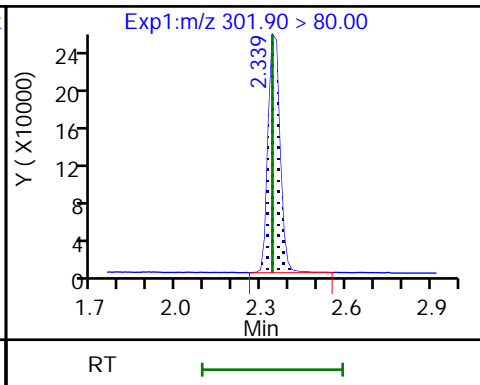
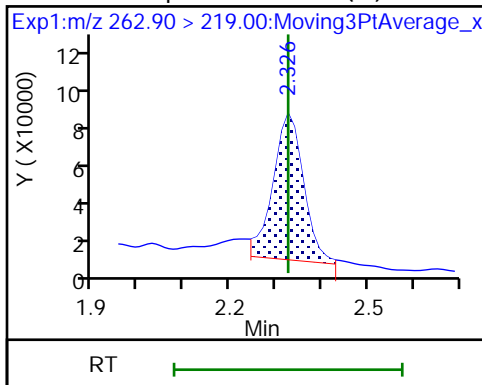
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

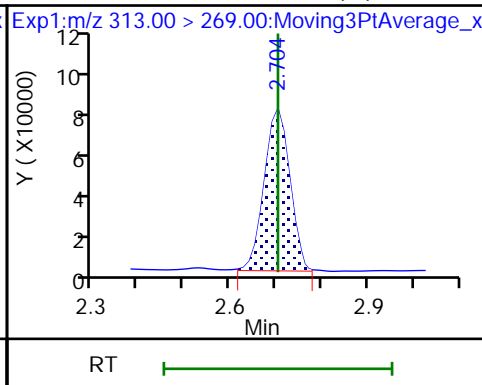
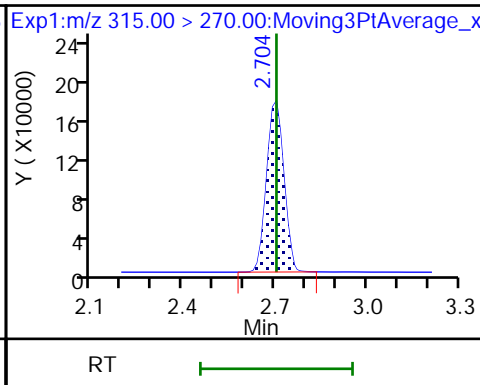
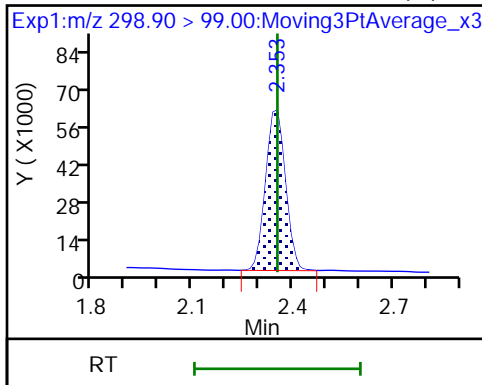
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

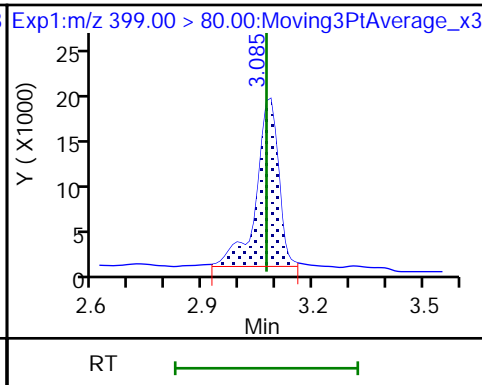
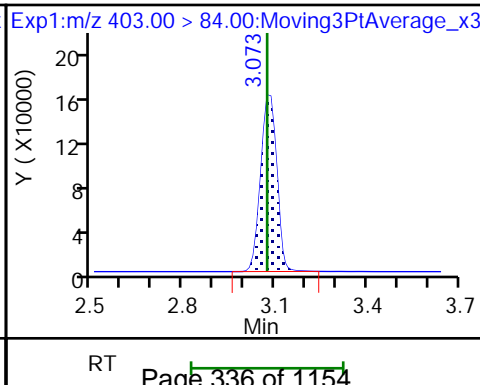
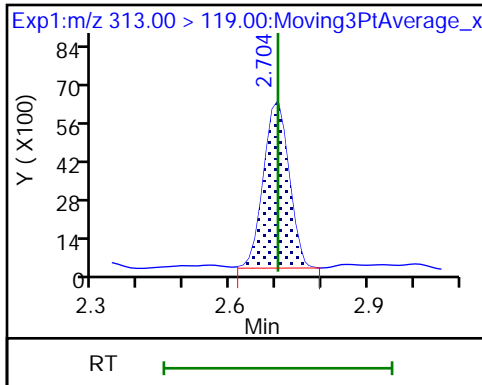
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)

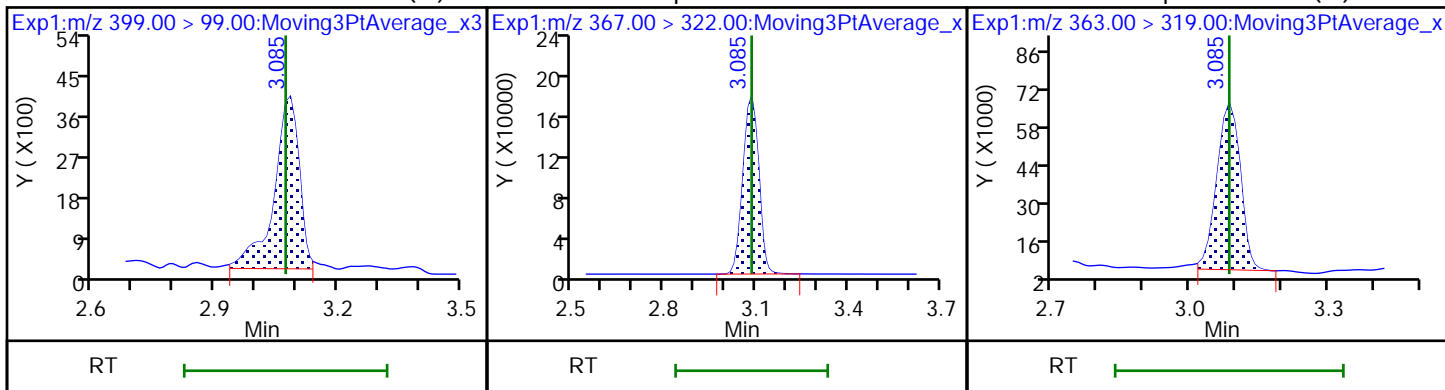
D 11 18O2 PFHxS

8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M) D 9 13C4 PFHpA

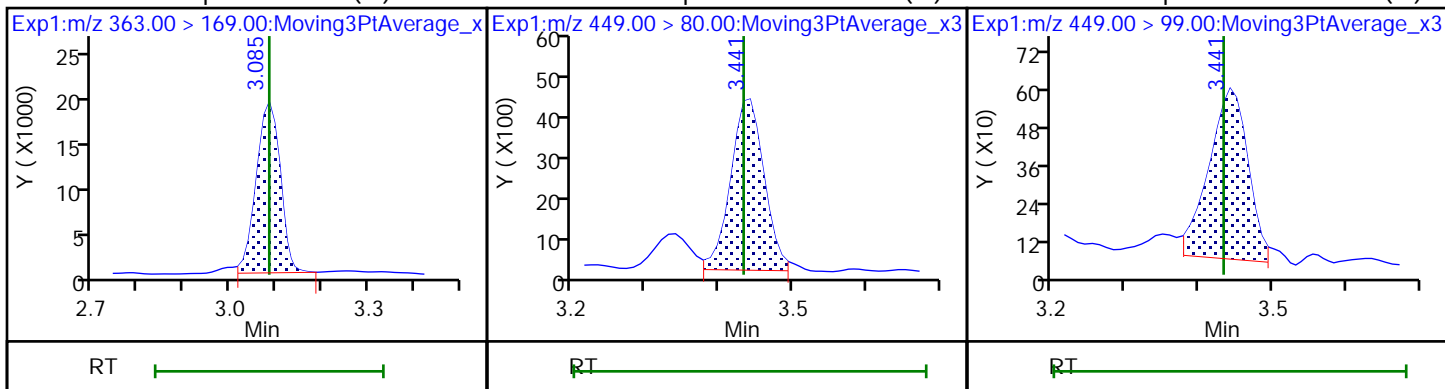
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (M)

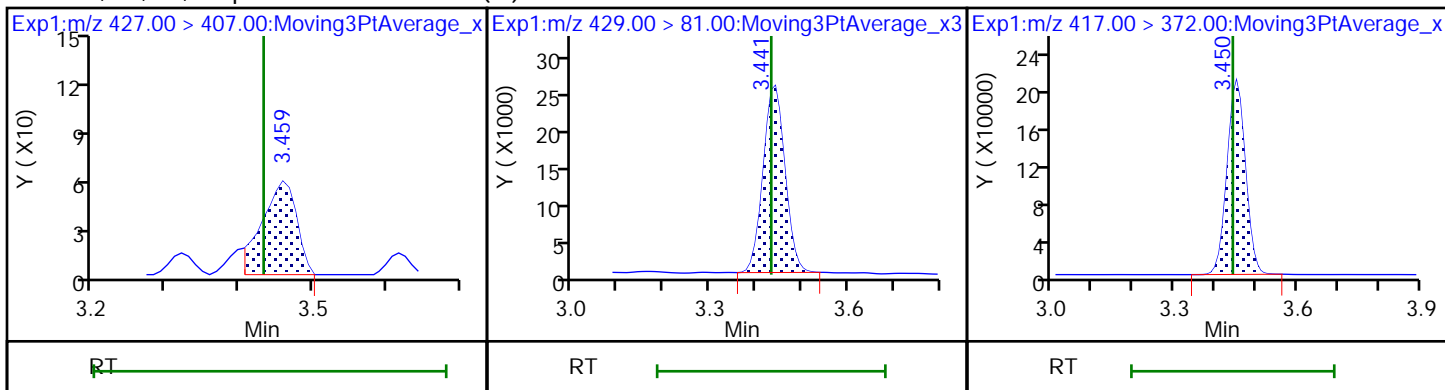
16 Perfluoroheptanesulfonic acid (M)



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

12 M2-6:2 FTS

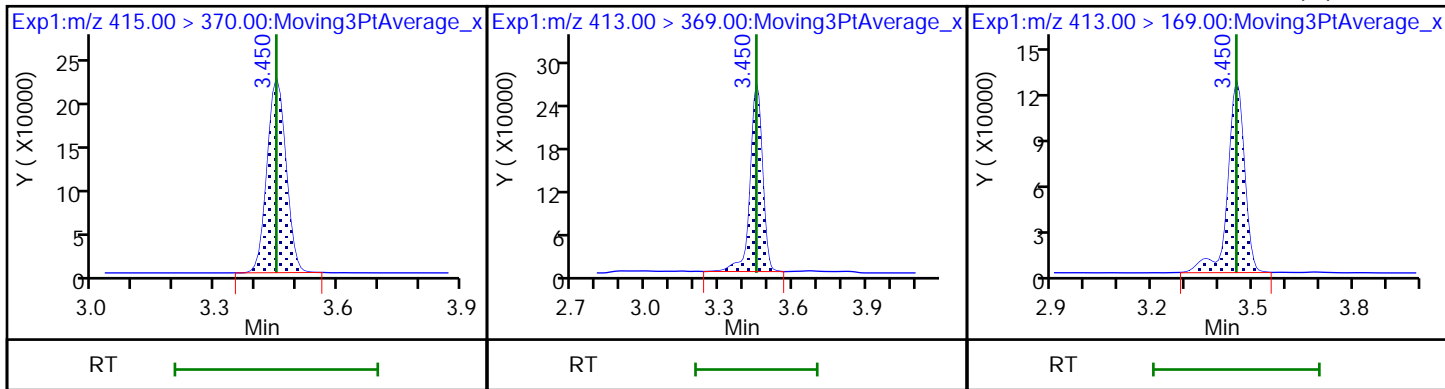
D 14 13C4 PFOA



\* 62 13C2 PFOA

15 Perfluorooctanoic acid

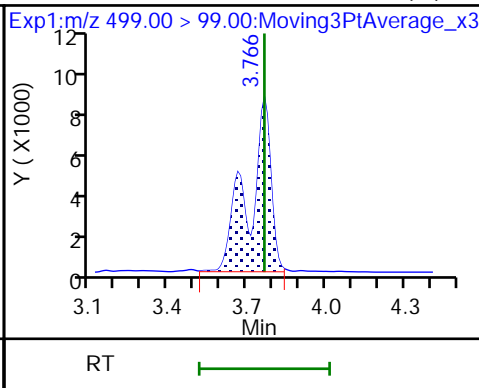
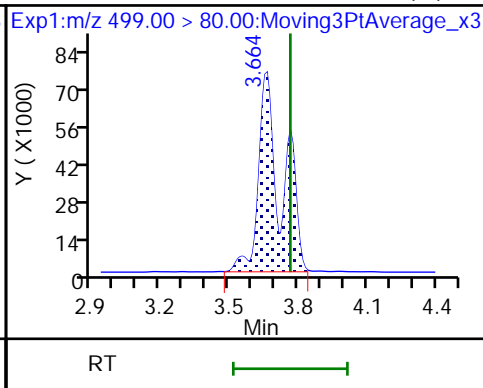
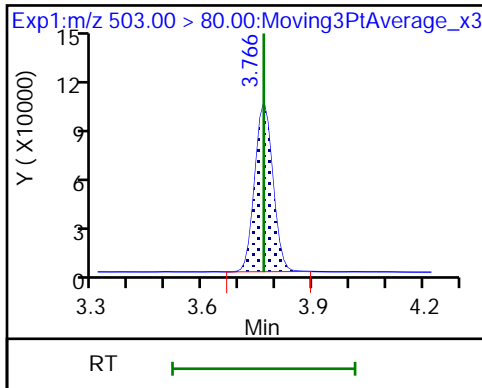
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

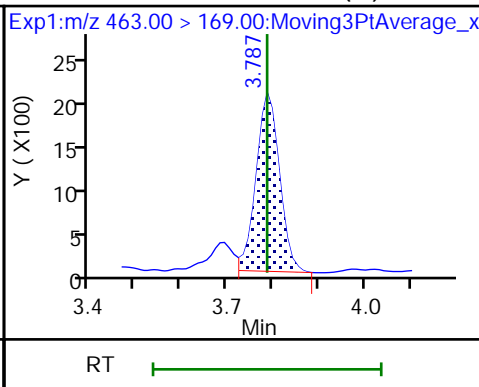
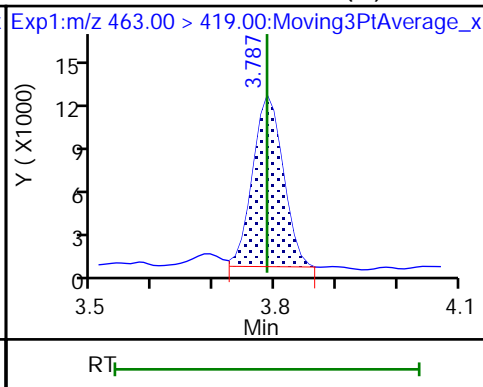
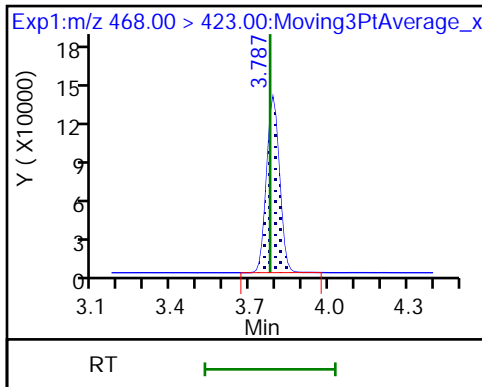
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

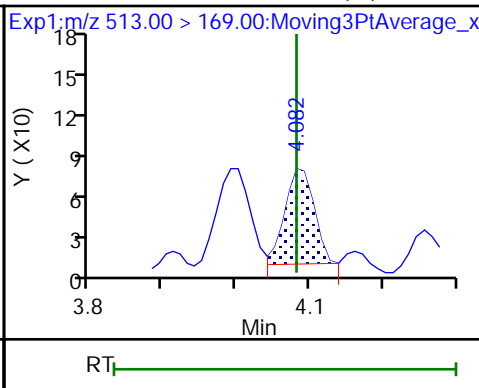
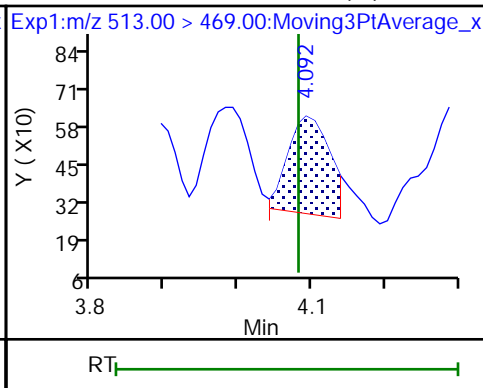
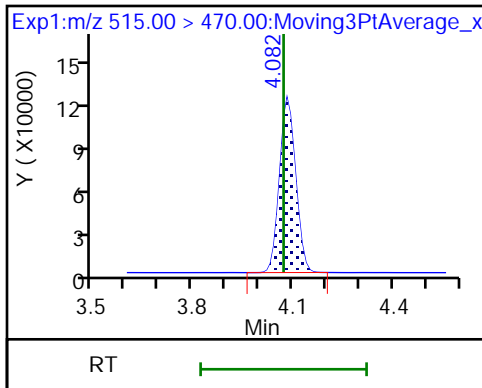
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

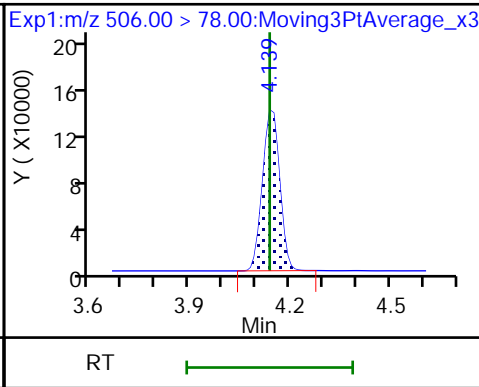
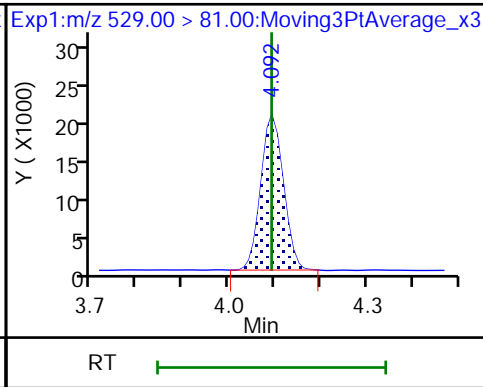
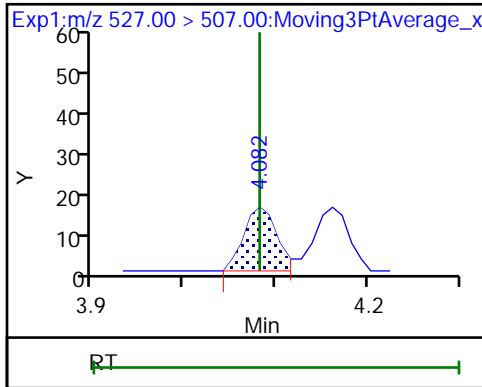
24 Perfluorodecanoic acid (M)



25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

26 M2-8:2 FTS

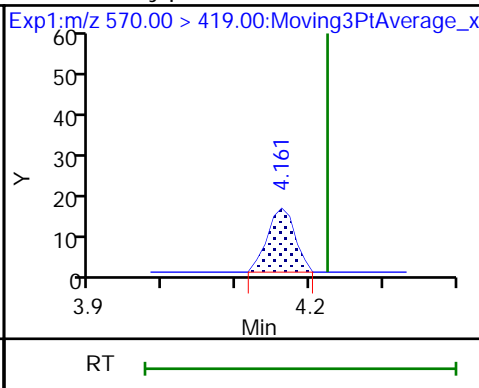
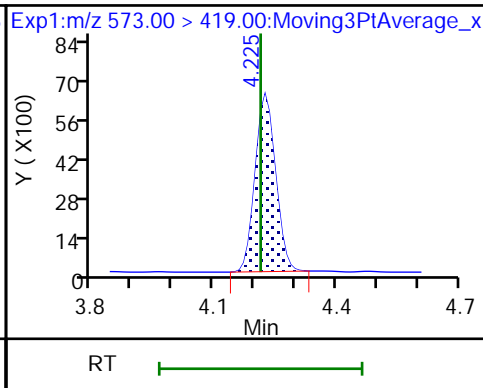
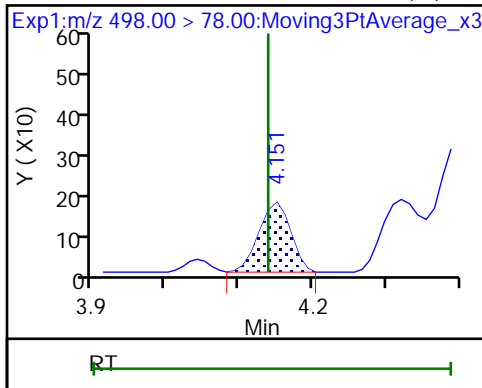
D 21 13C8 FOSA



22 Perfluorooctanesulfonamide (M)

D 27 d3-NMeFOSAA

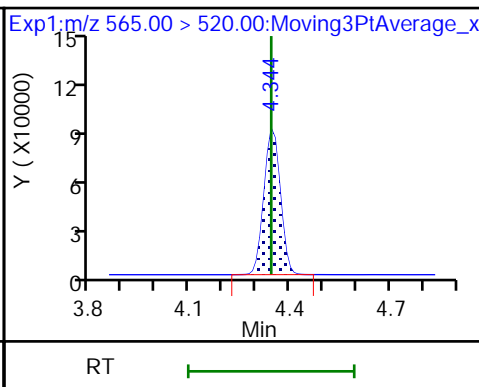
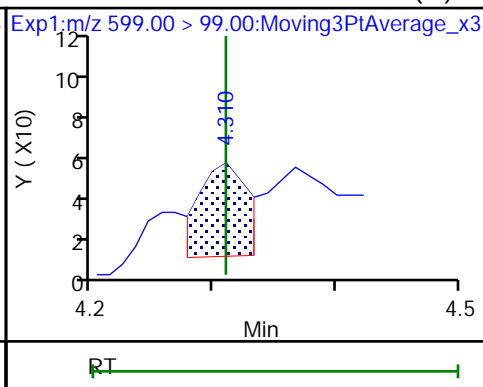
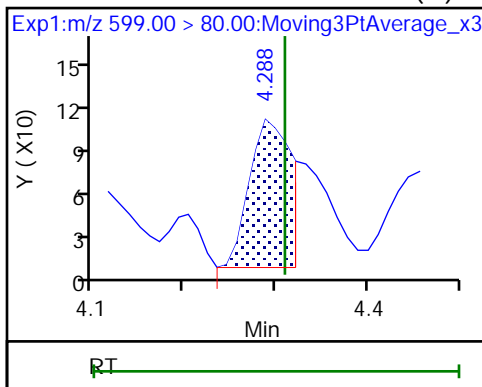
28 N-methylperfluorooctanesulfonami (M)



29 Perfluorodecanesulfonic acid (M)

29 Perfluorodecanesulfonic acid (M)

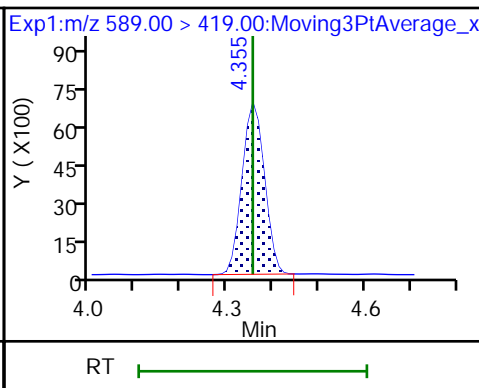
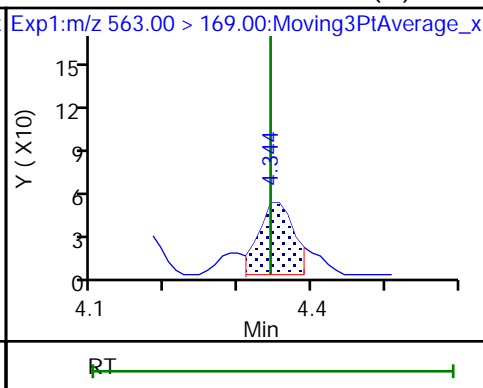
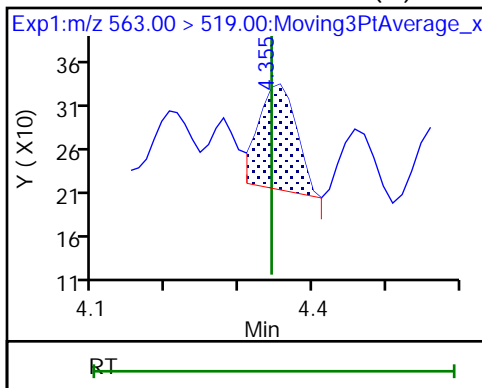
D 30 13C2 PFUoA



31 Perfluoroundecanoic acid (M)

31 Perfluoroundecanoic acid (M)

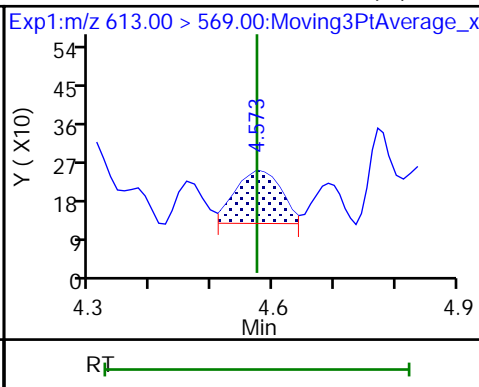
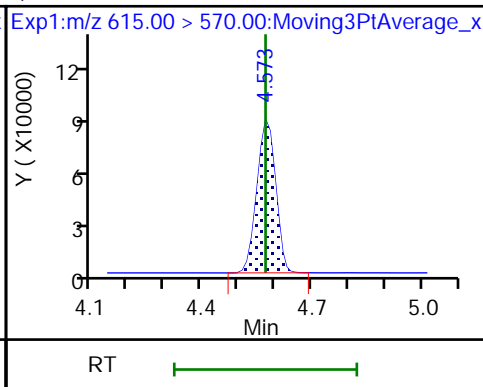
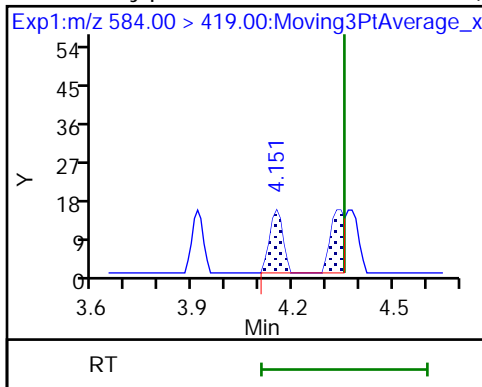
D 32 d5-NEtFOSAA



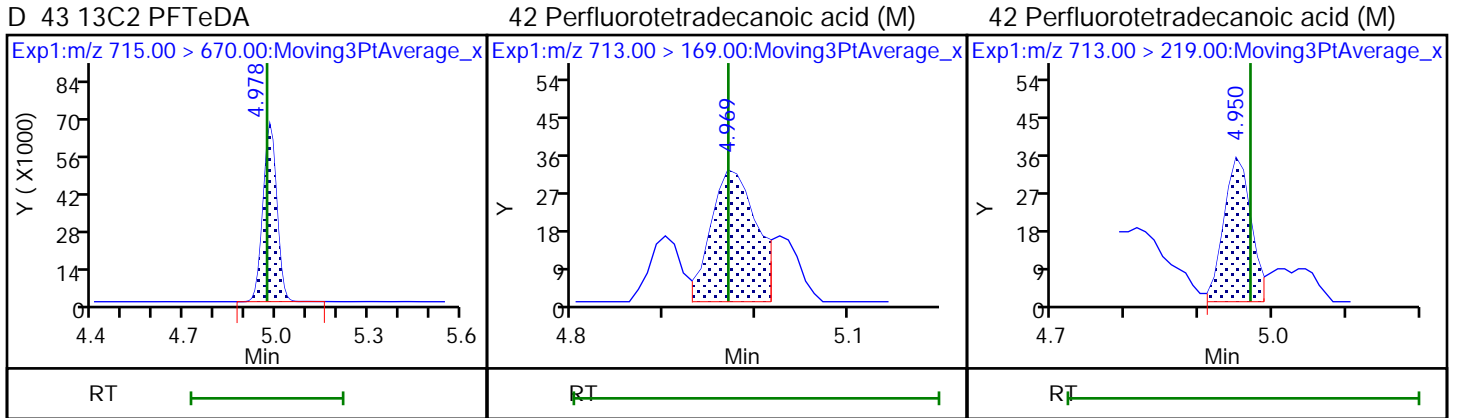
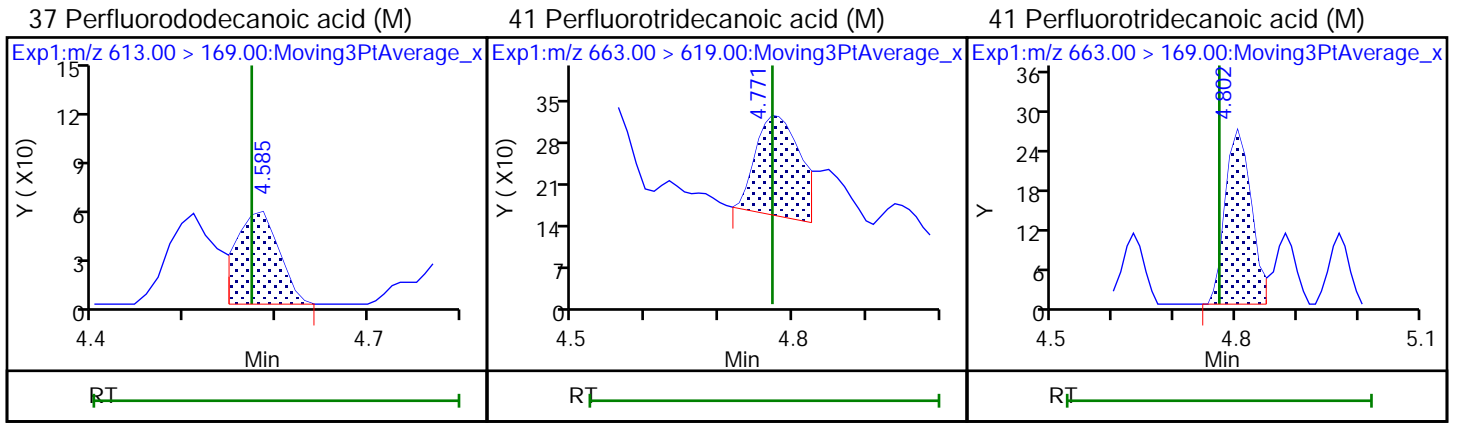
33 N-ethylperfluorooctanesulfonamid (M)

36 13C2 PFDoA

37 Perfluorododecanoic acid (M)







Eurofins TestAmerica, Burlington

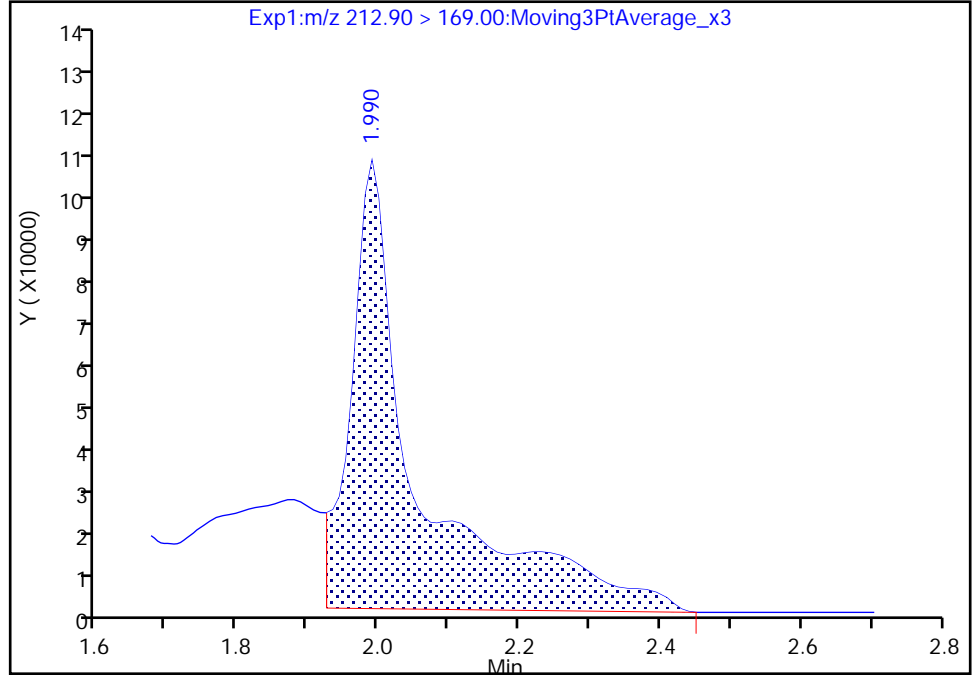
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

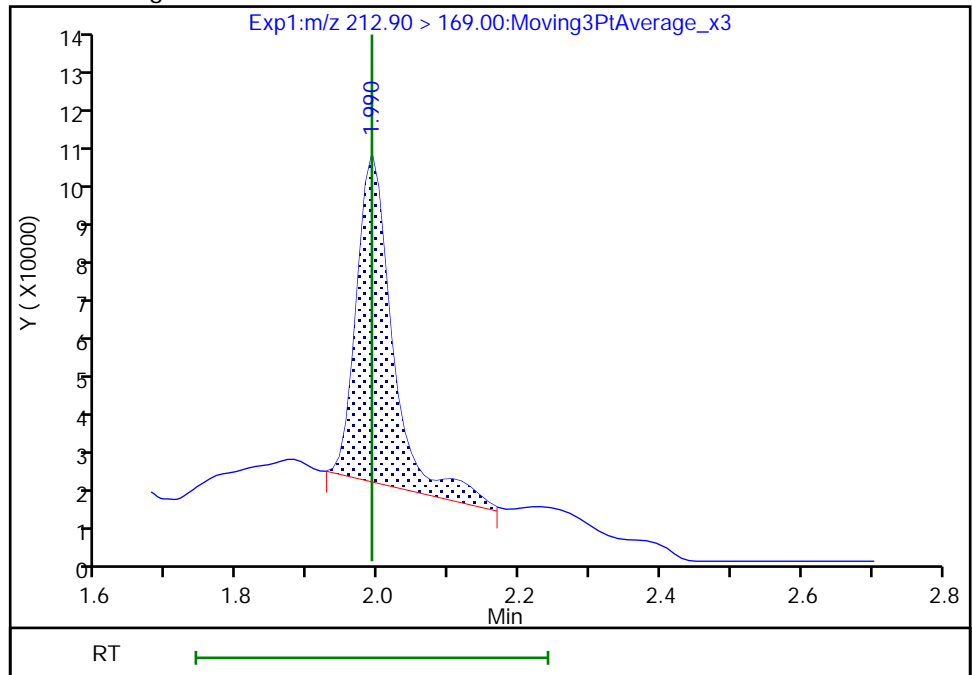
RT: 1.99  
Area: 701892  
Amount: 1.386888  
Amount Units: ng/ml

Processing Integration Results



RT: 1.99  
Area: 305310  
Amount: 0.603271  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:05:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

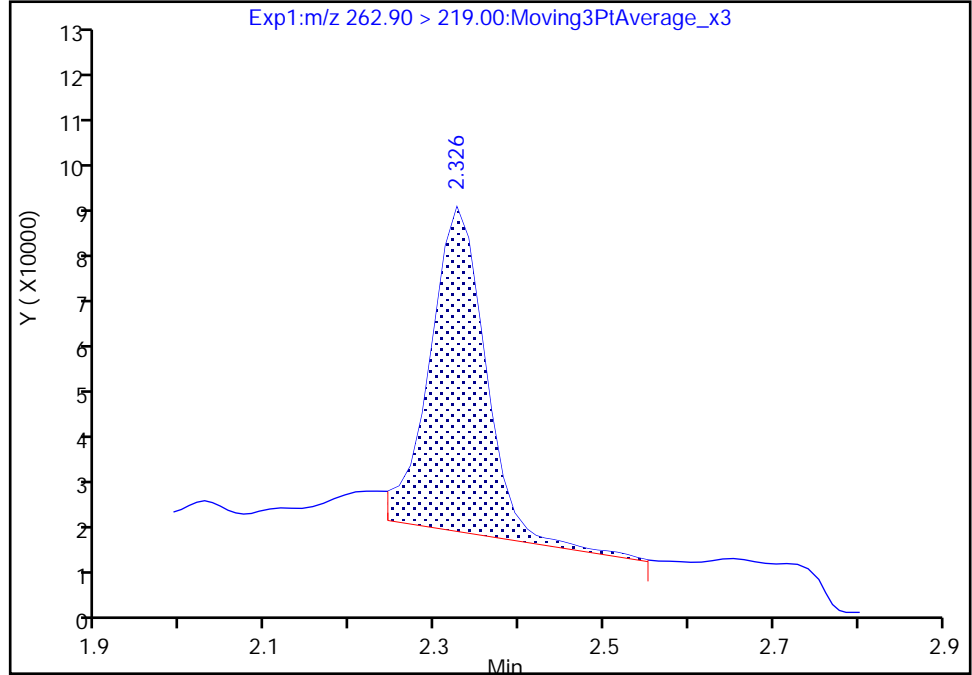
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

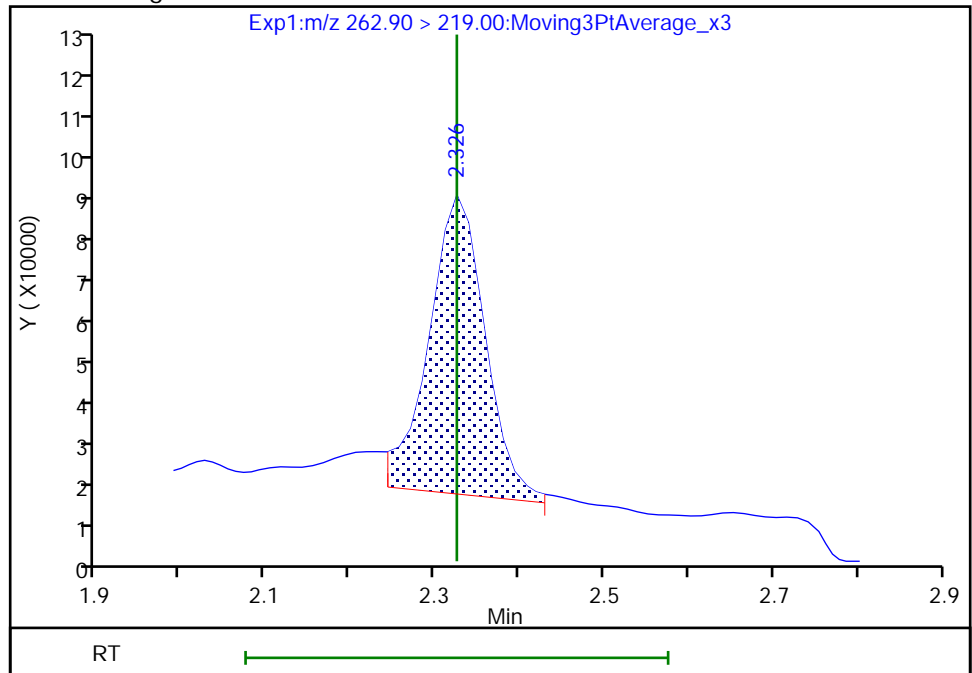
RT: 2.33  
Area: 319446  
Amount: 0.621475  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 327304  
Amount: 0.636763  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:05:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

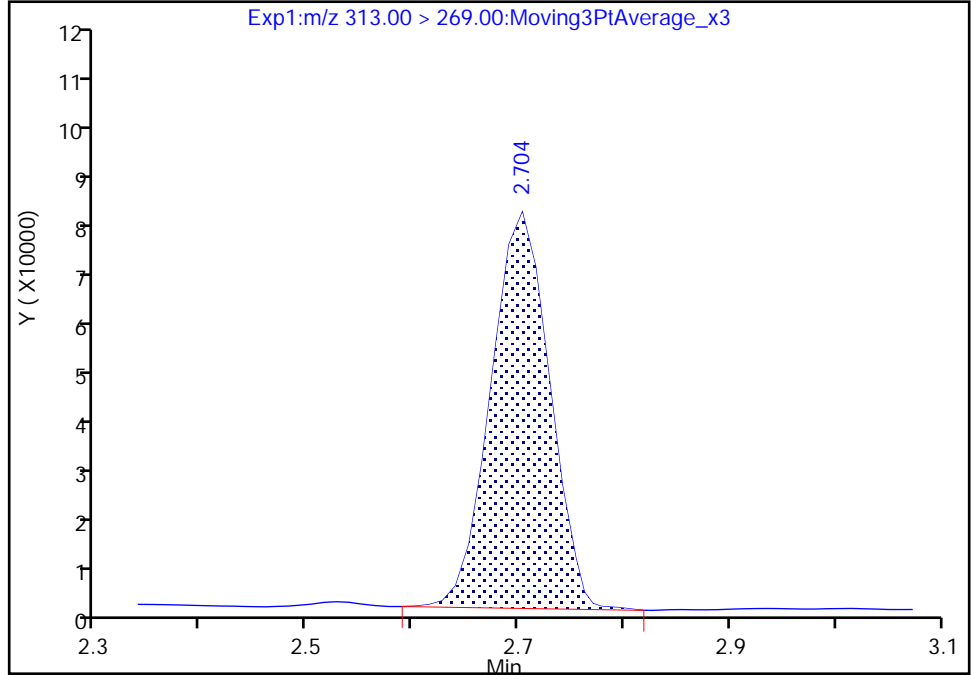
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

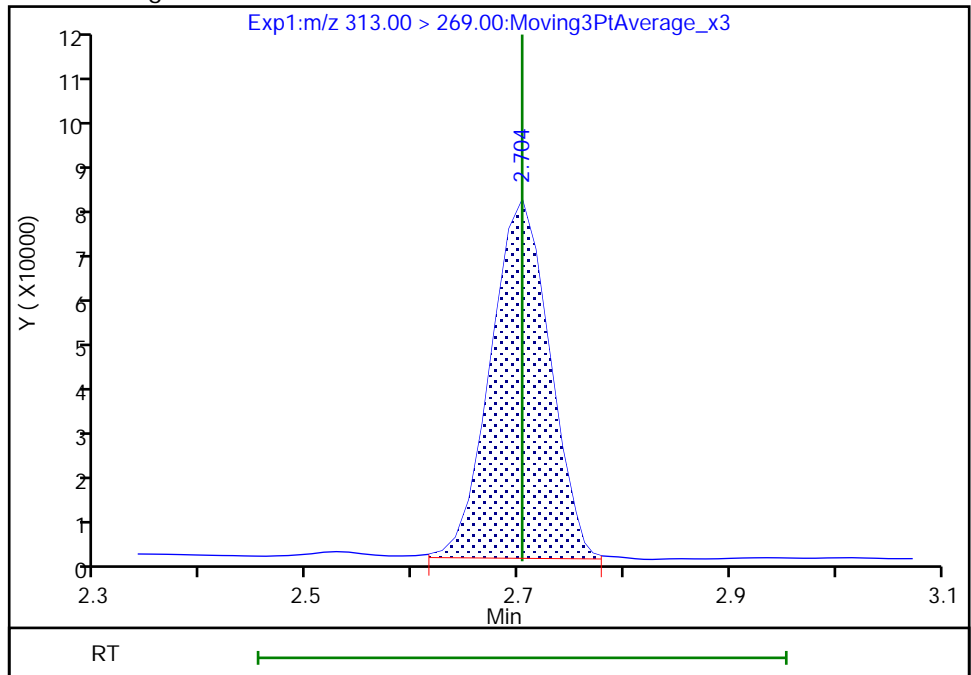
RT: 2.70  
Area: 304669  
Amount: 0.552889  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 305002  
Amount: 0.553494  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:06:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

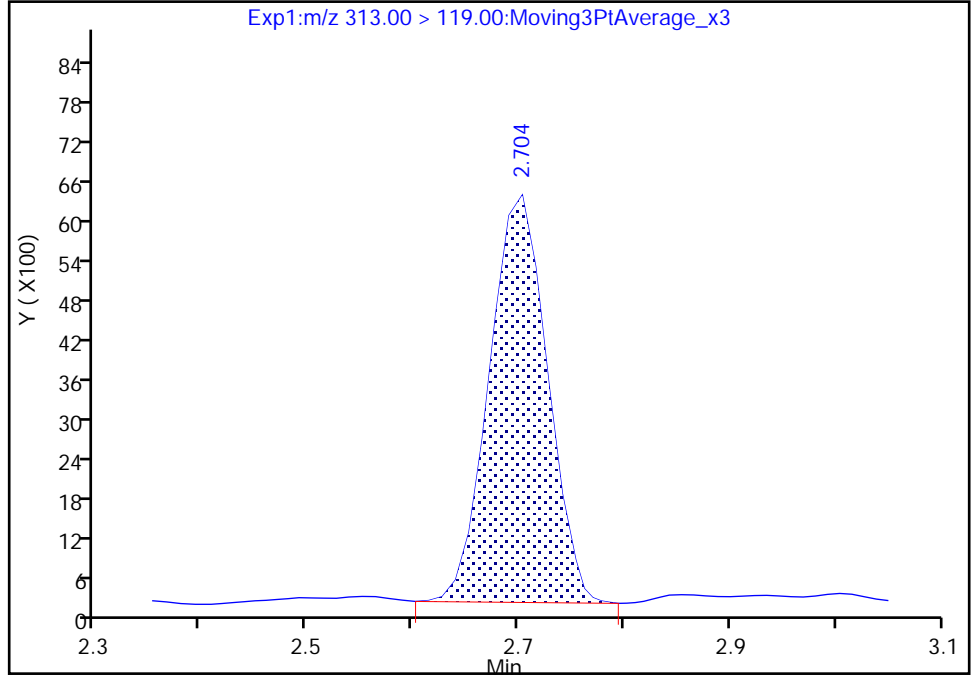
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

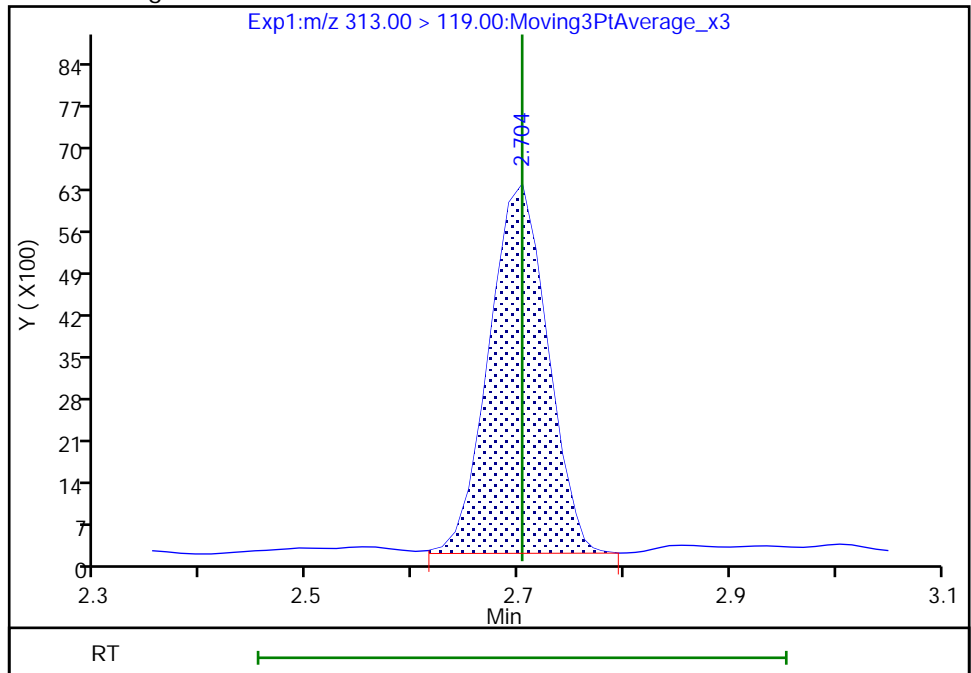
RT: 2.70  
Area: 23539  
Amount: 0.552889  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 23717  
Amount: 0.553494  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:06:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

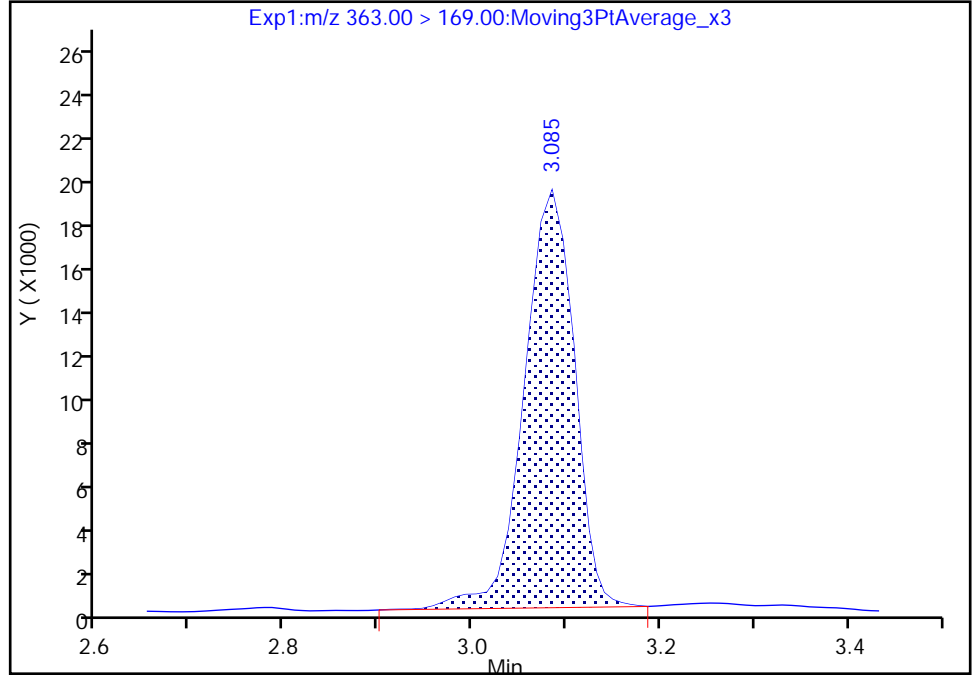
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

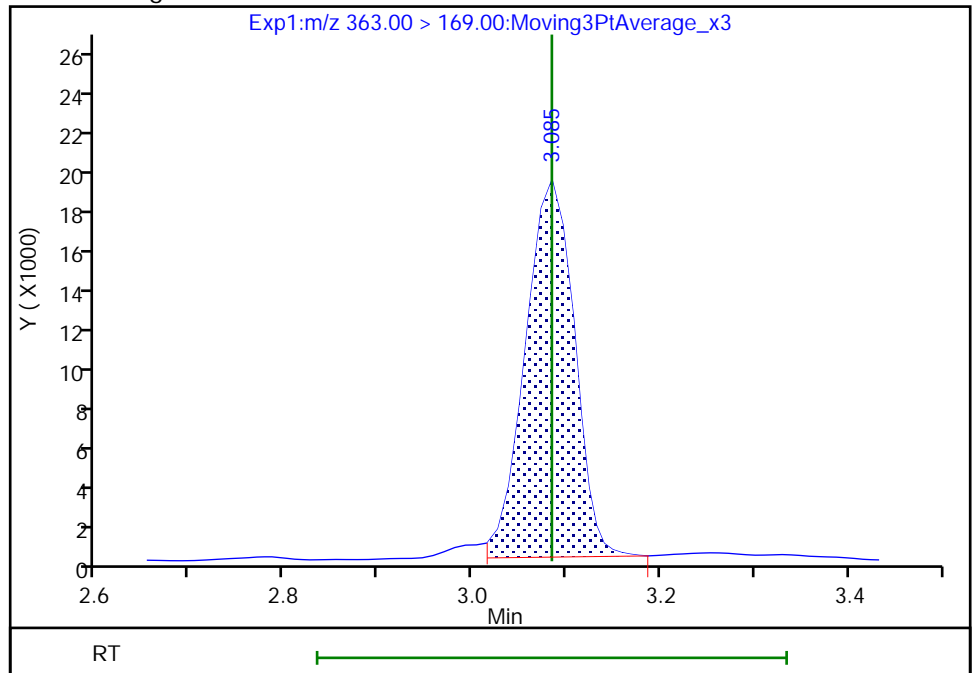
RT: 3.08  
Area: 70794  
Amount: 0.444105  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 68907  
Amount: 0.438945  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

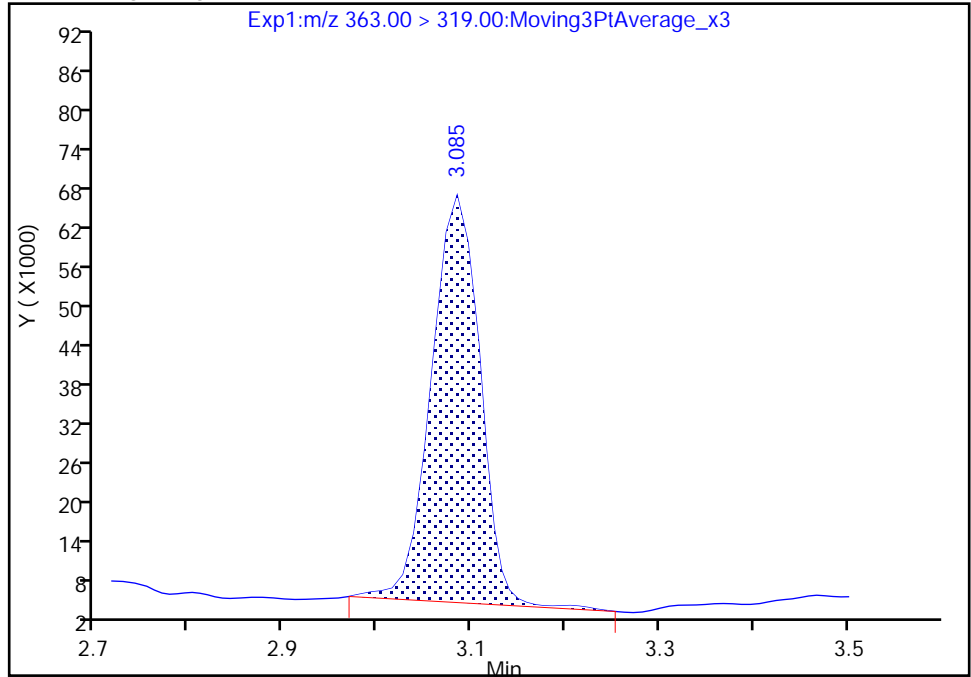
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

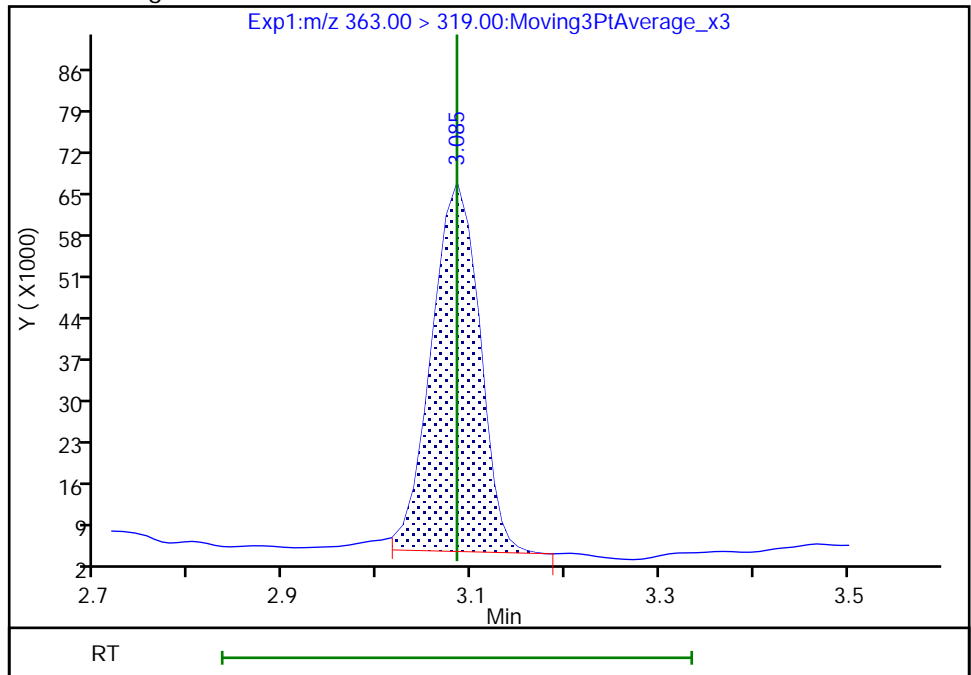
RT: 3.08  
Area: 223812  
Amount: 0.444105  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 221212  
Amount: 0.438945  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 17:20:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

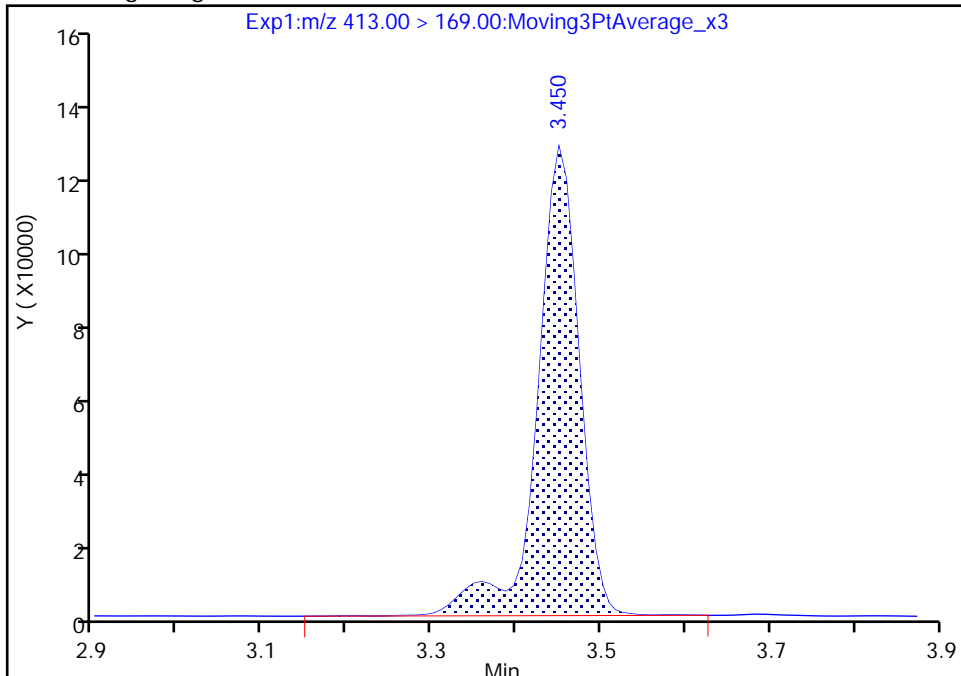
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

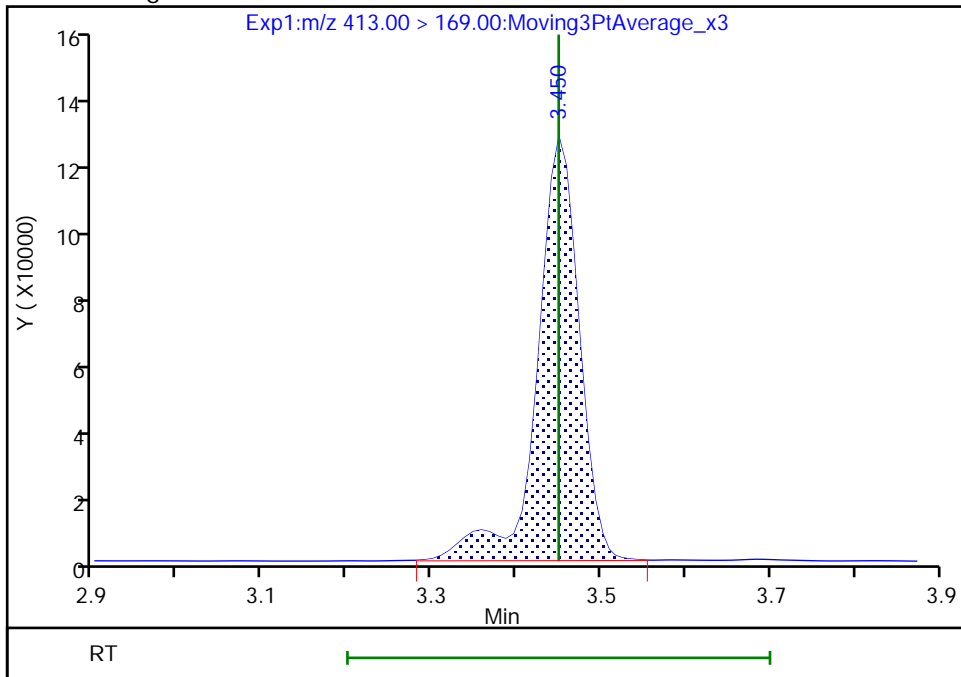
RT: 3.45  
Area: 427877  
Amount: 1.704479  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 427285  
Amount: 1.704479  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:08:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

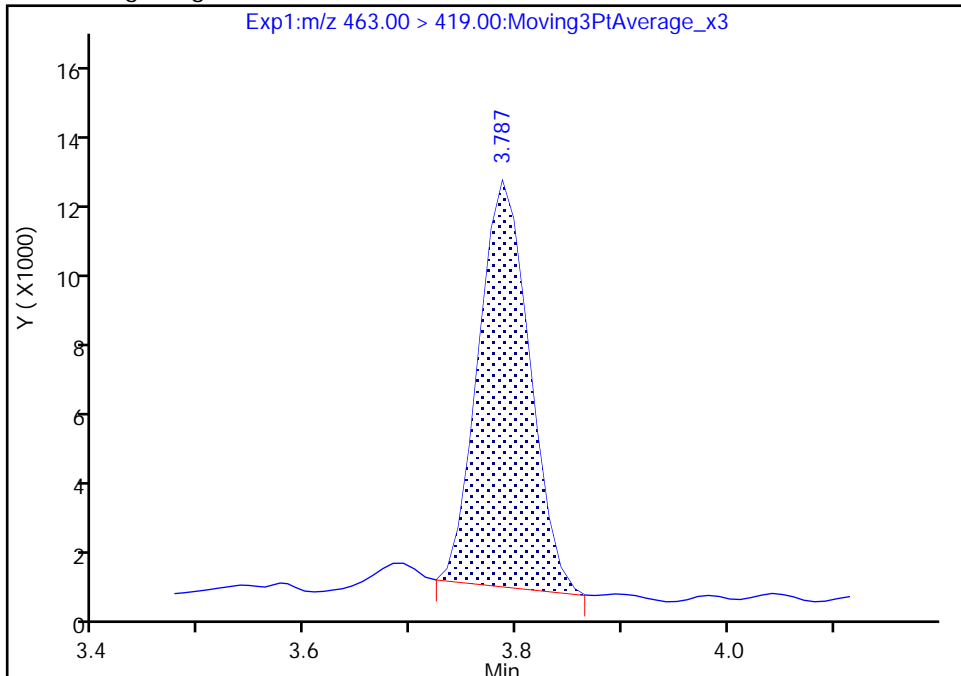
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

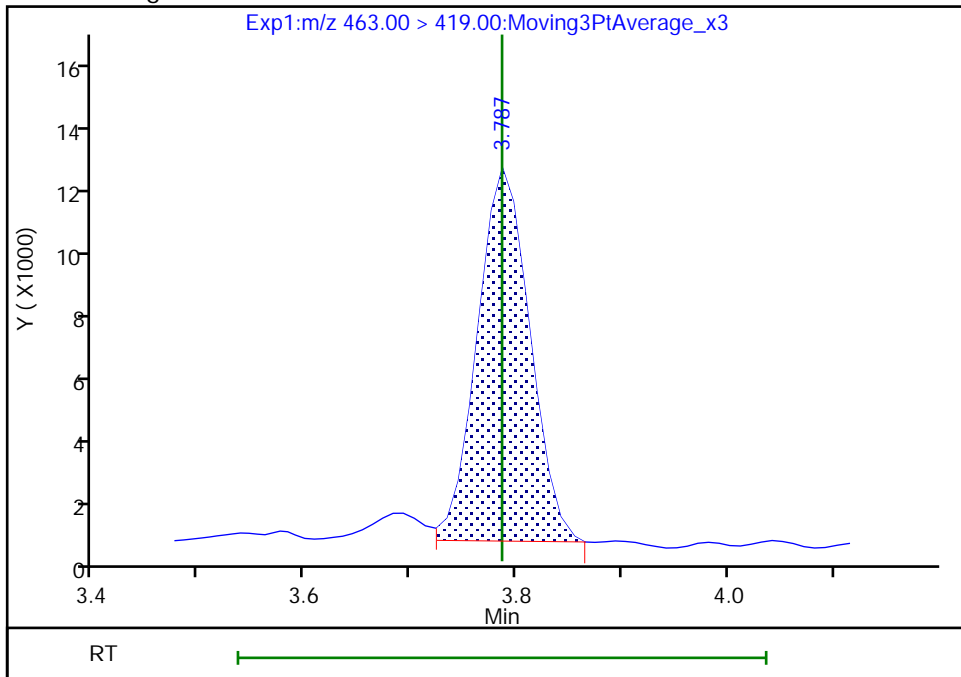
RT: 3.79  
Area: 36317  
Amount: 0.095435  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 37758  
Amount: 0.099222  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:09:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

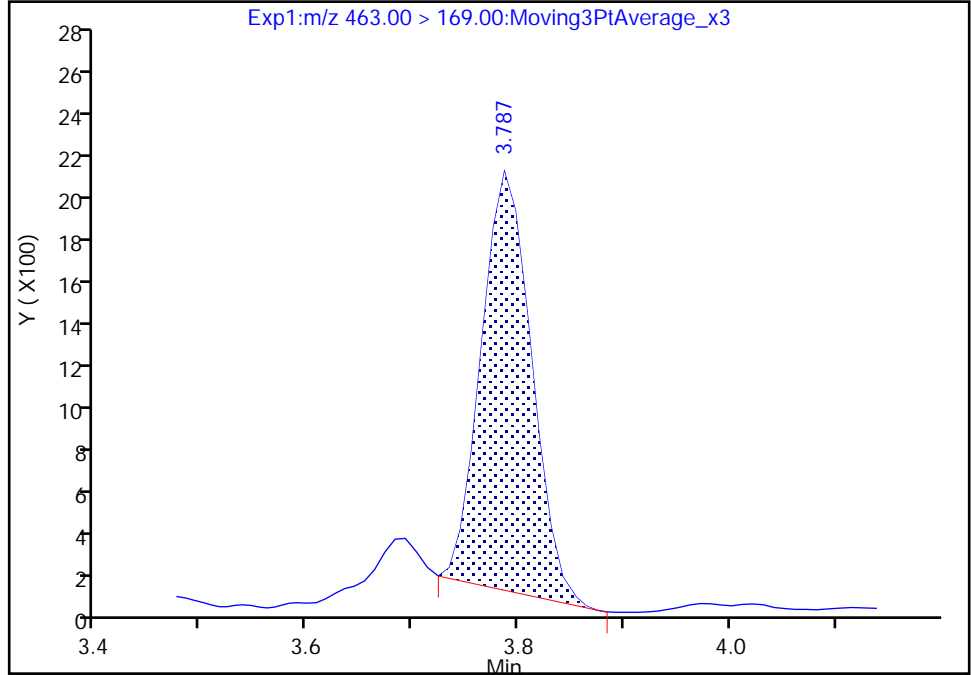
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

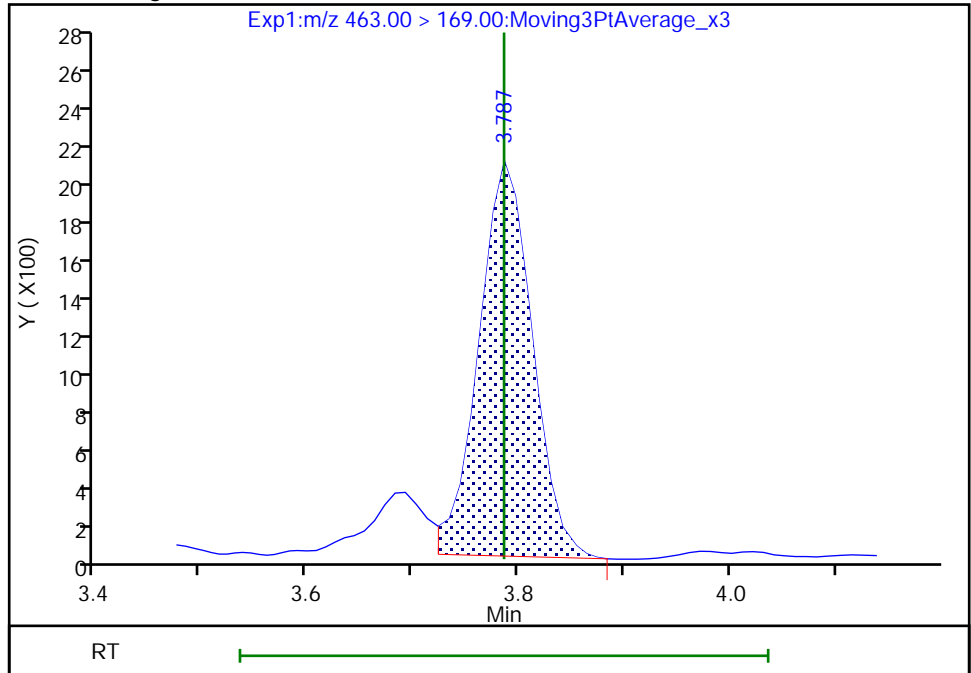
RT: 3.79  
Area: 6653  
Amount: 0.095435  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 7353  
Amount: 0.099222  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:09:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

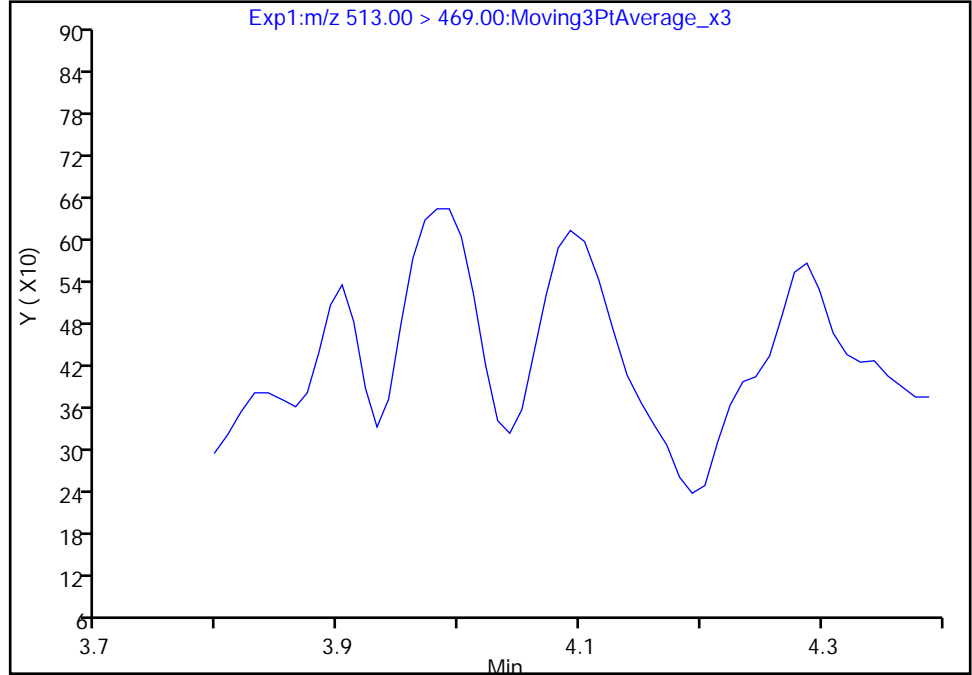
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

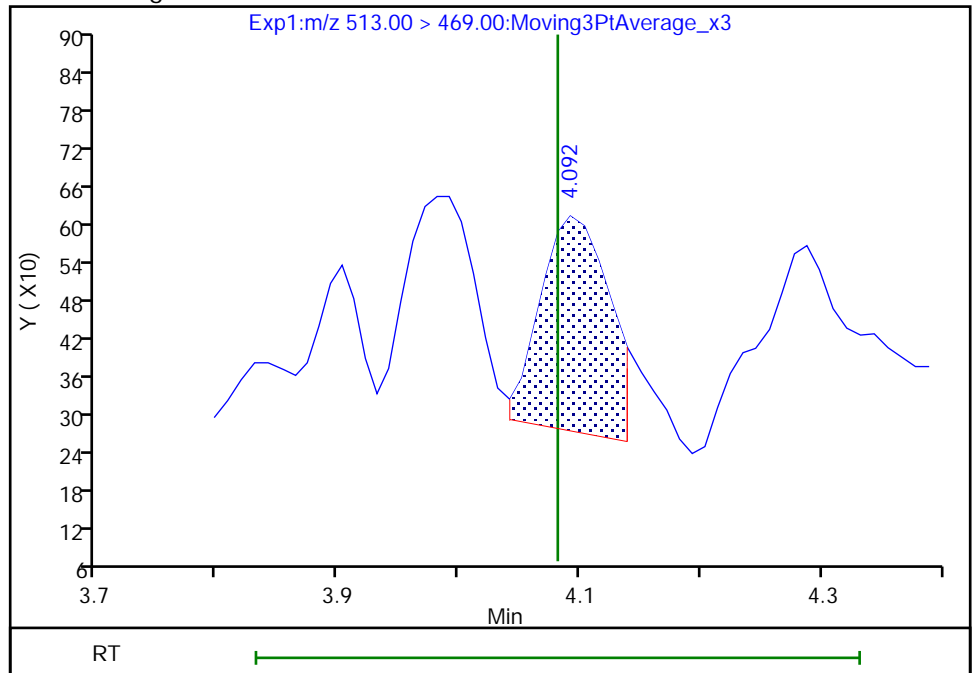
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.09  
Area: 1333  
Amount: 0.004099  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:09:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

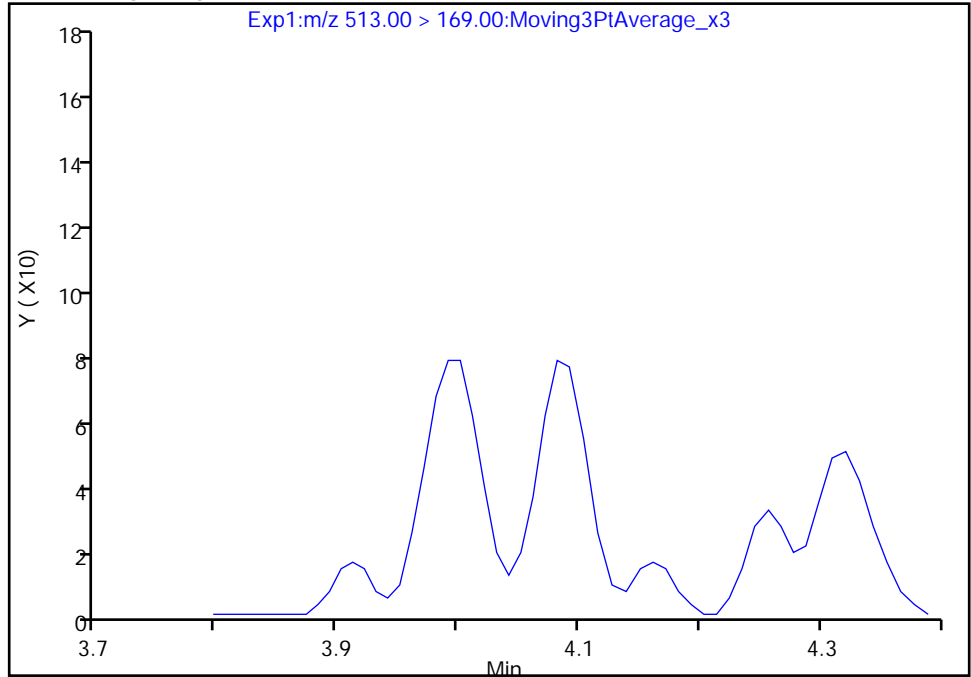
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

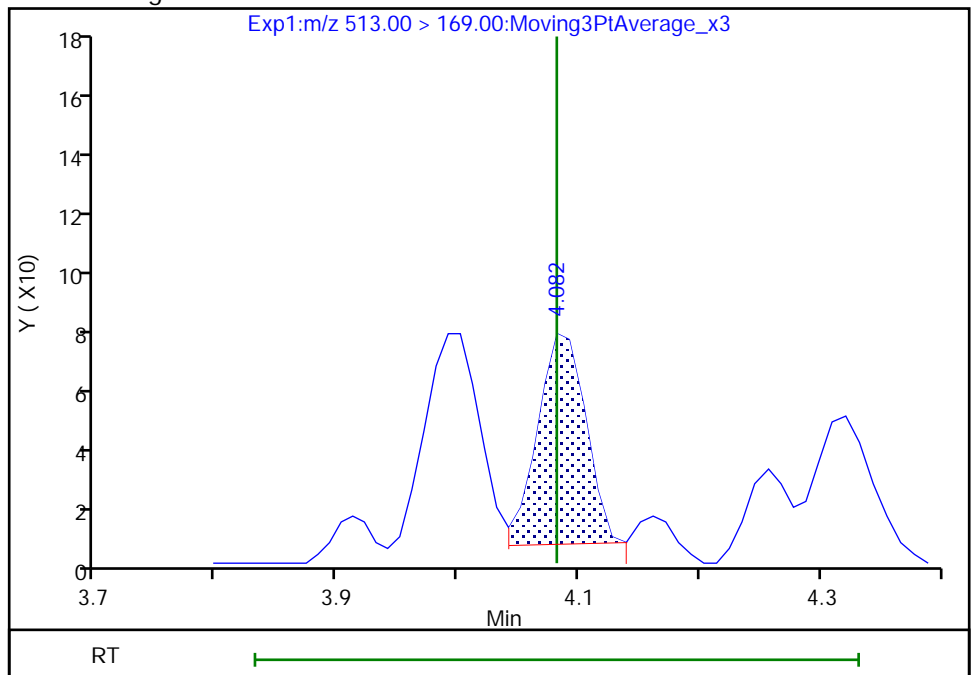
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 196  
Amount: 0.004099  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:09:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

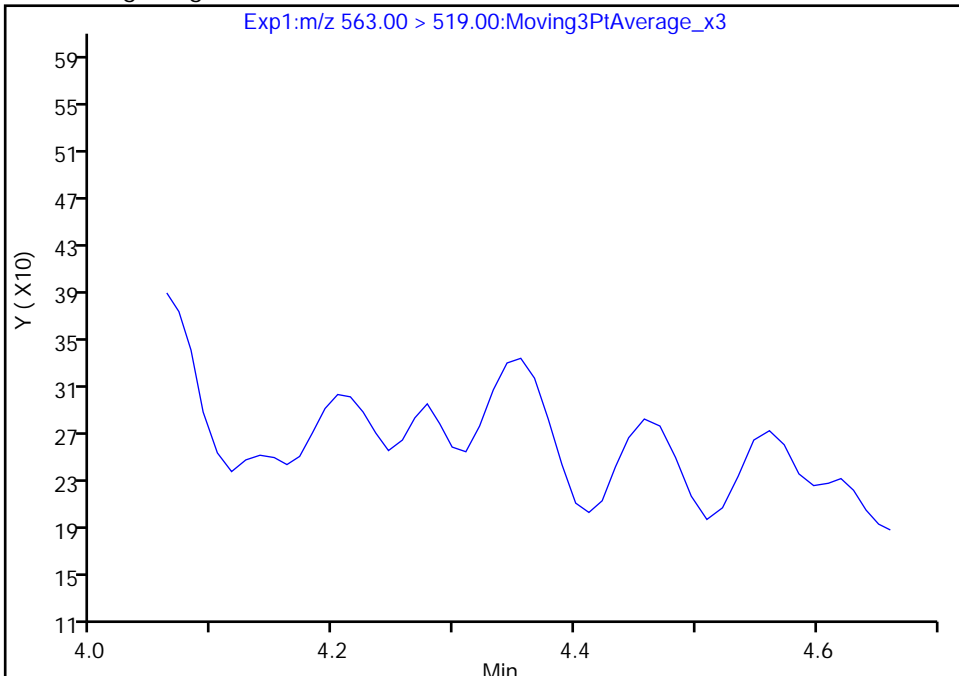
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

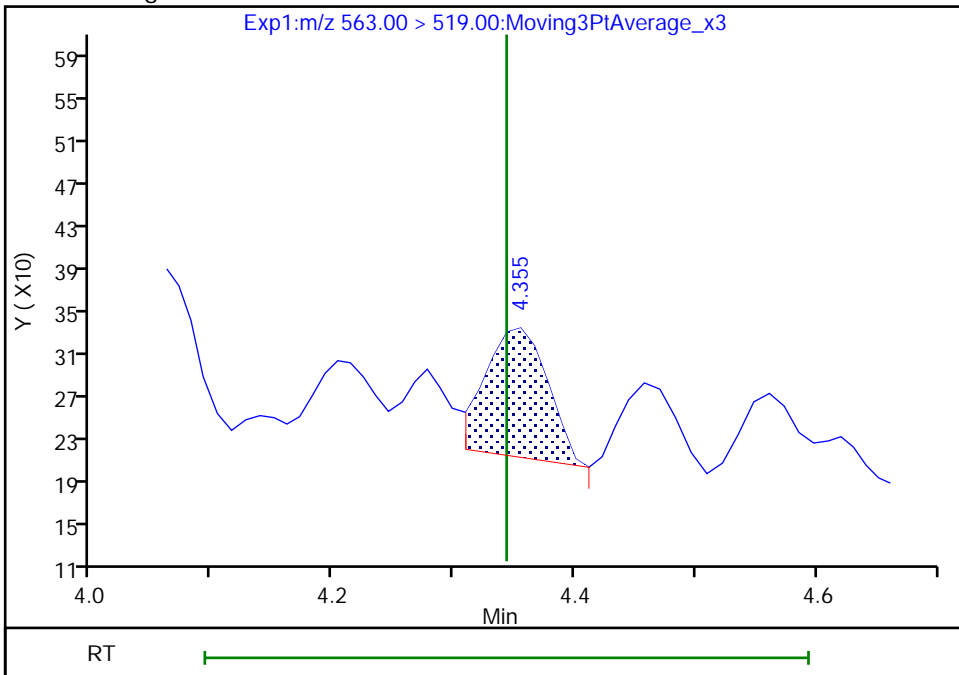
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.36  
Area: 431  
Amount: 0.001825  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:11:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

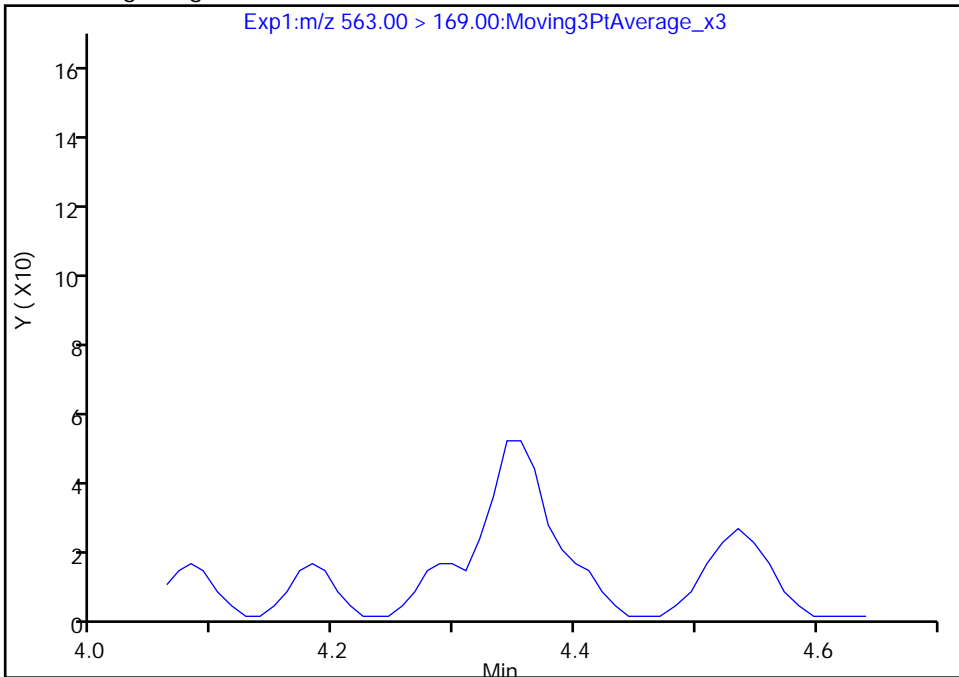
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

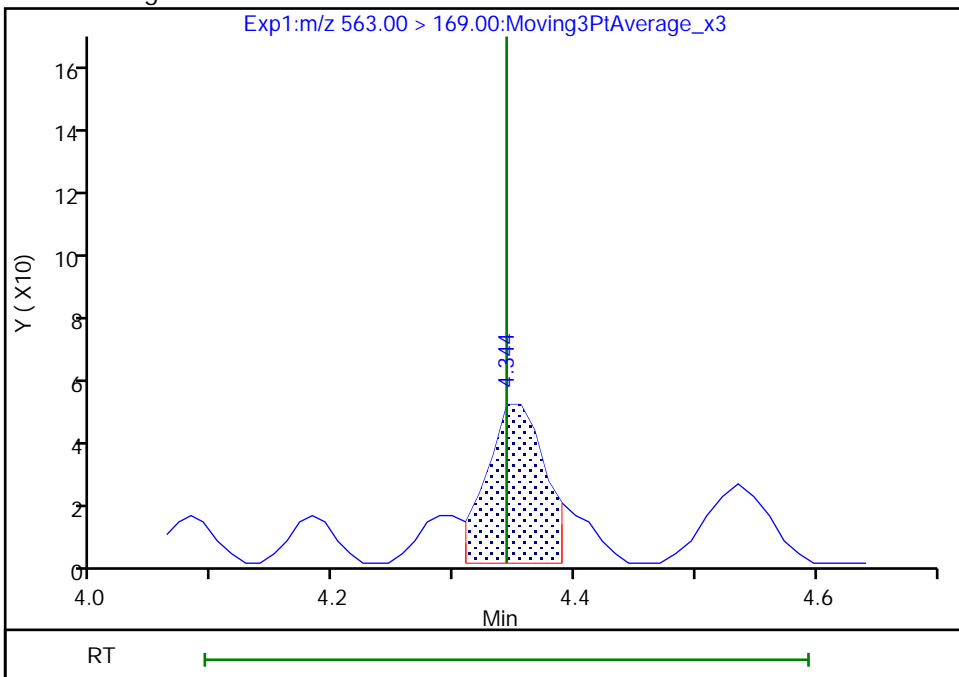
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 163  
Amount: 0.001825  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

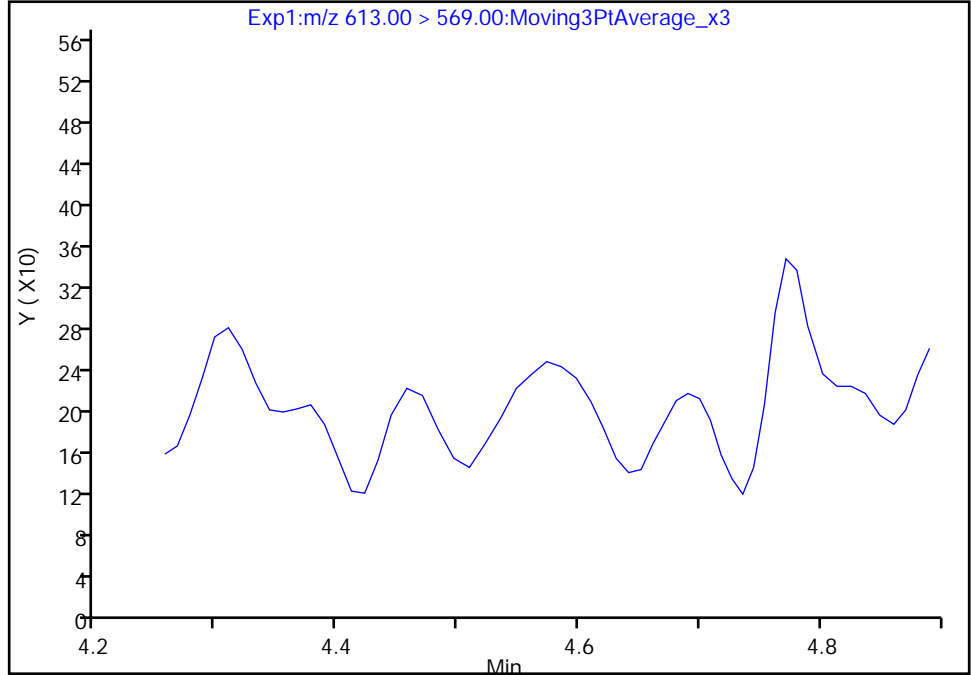
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

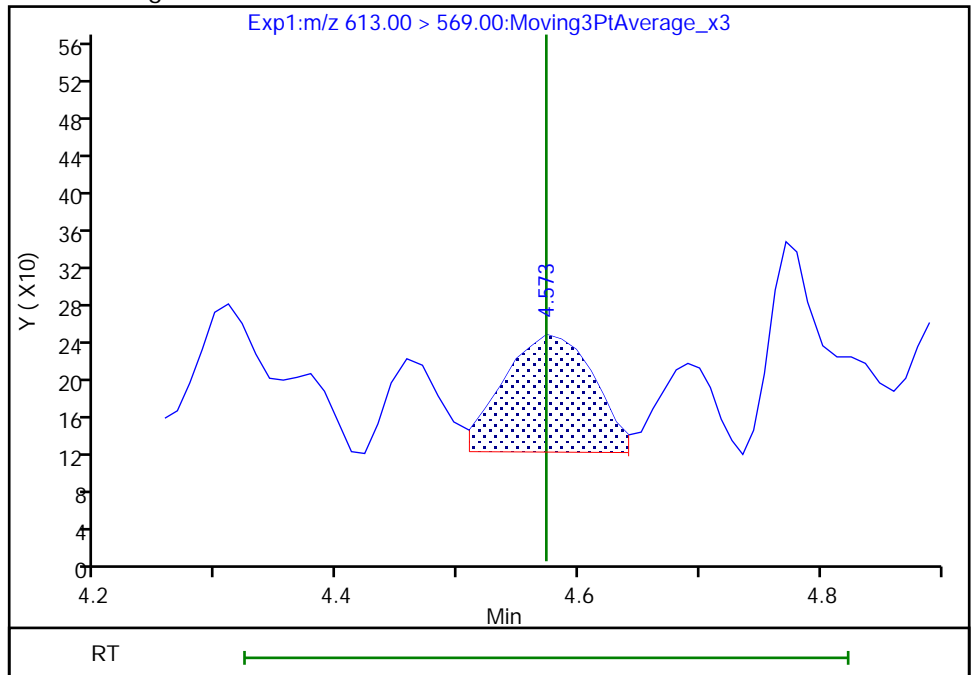
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57  
Area: 651  
Amount: 0.002767  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:11:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

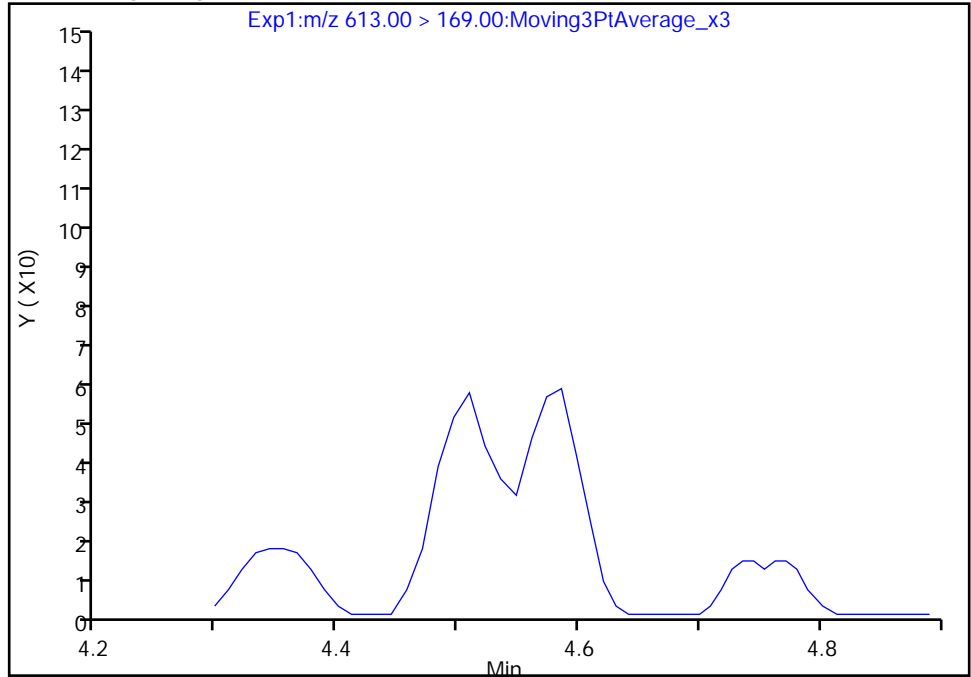
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

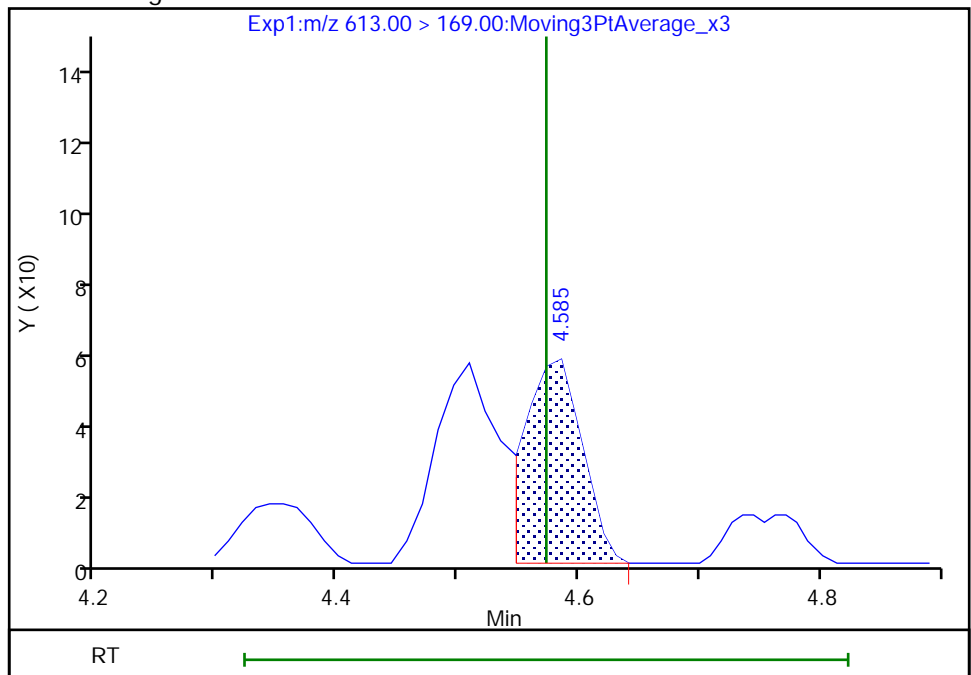
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.59  
Area: 172  
Amount: 0.002767  
Amount Units: ng/ml





Eurofins TestAmerica, Burlington

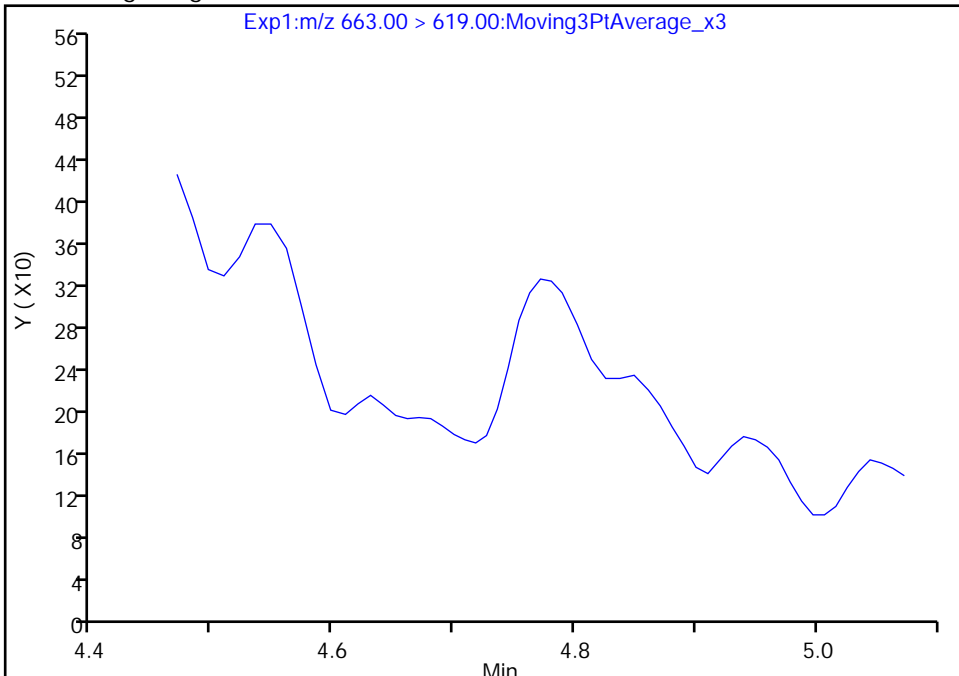
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

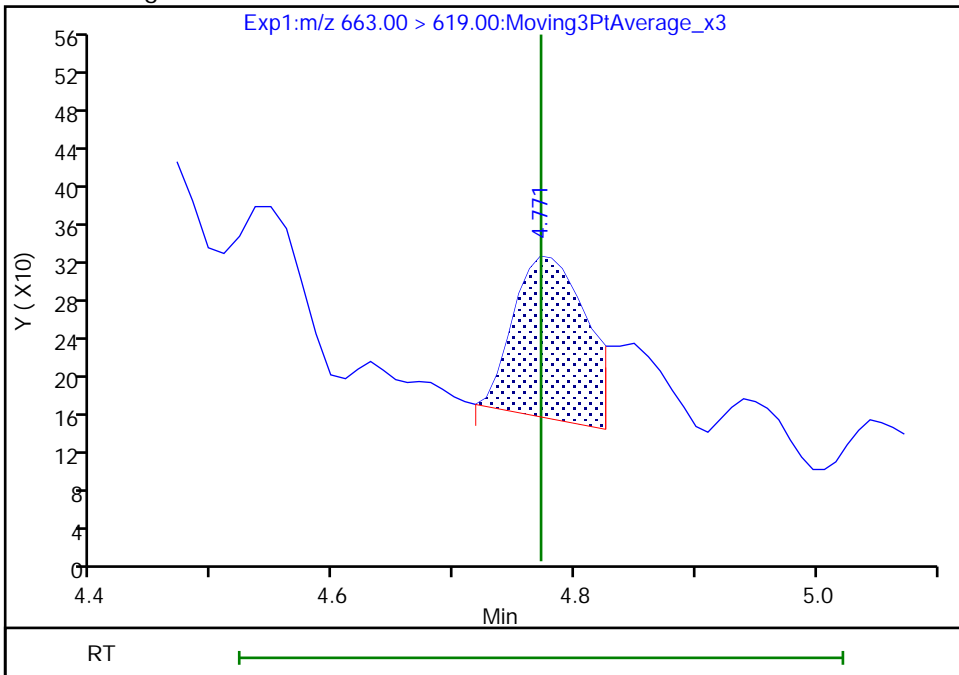
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.77  
Area: 697  
Amount: 0.003488  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:11:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

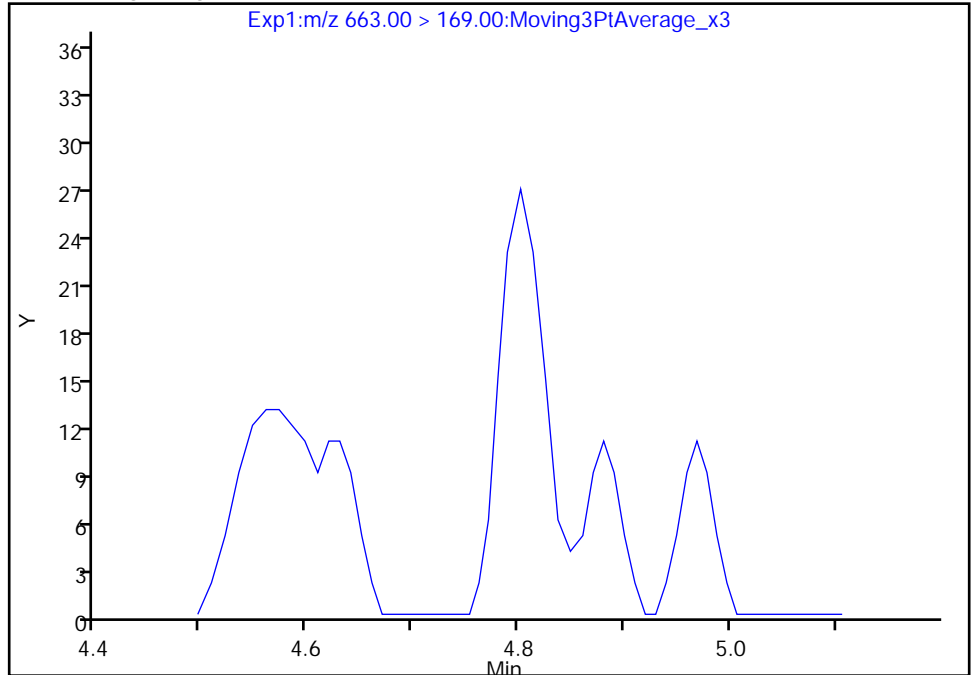
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

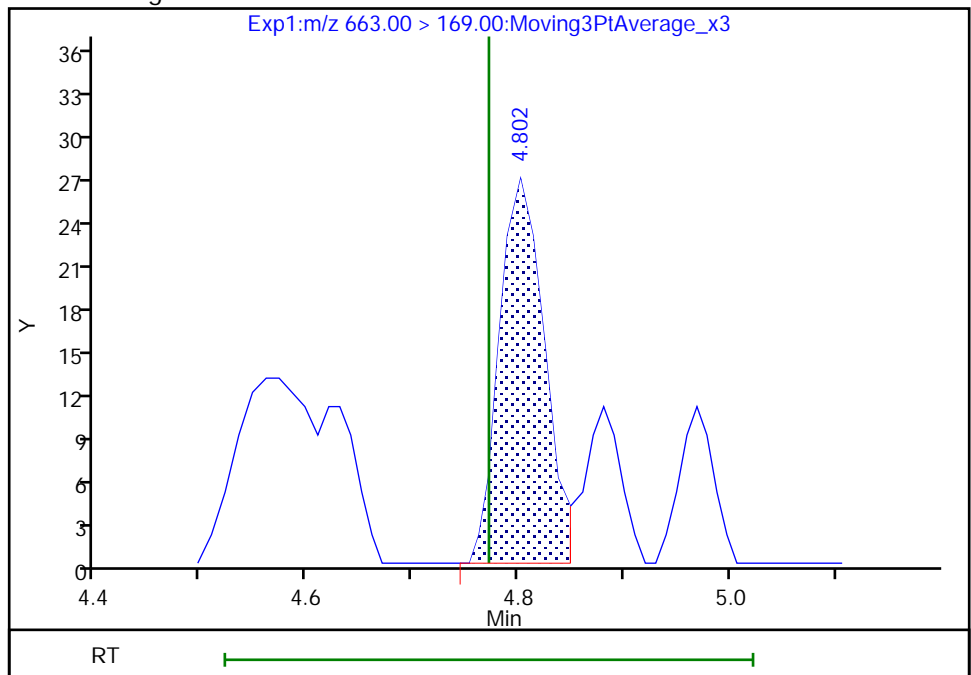
Not Detected  
Expected RT: 4.77

Processing Integration Results



RT: 4.80  
Area: 79  
Amount: 0.003488  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:11:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

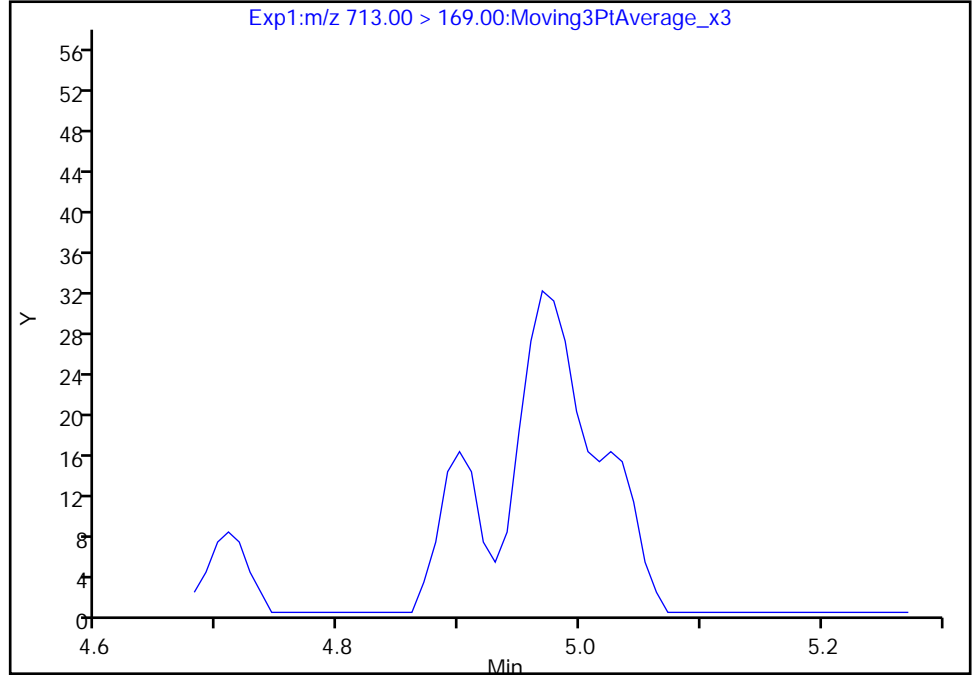
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

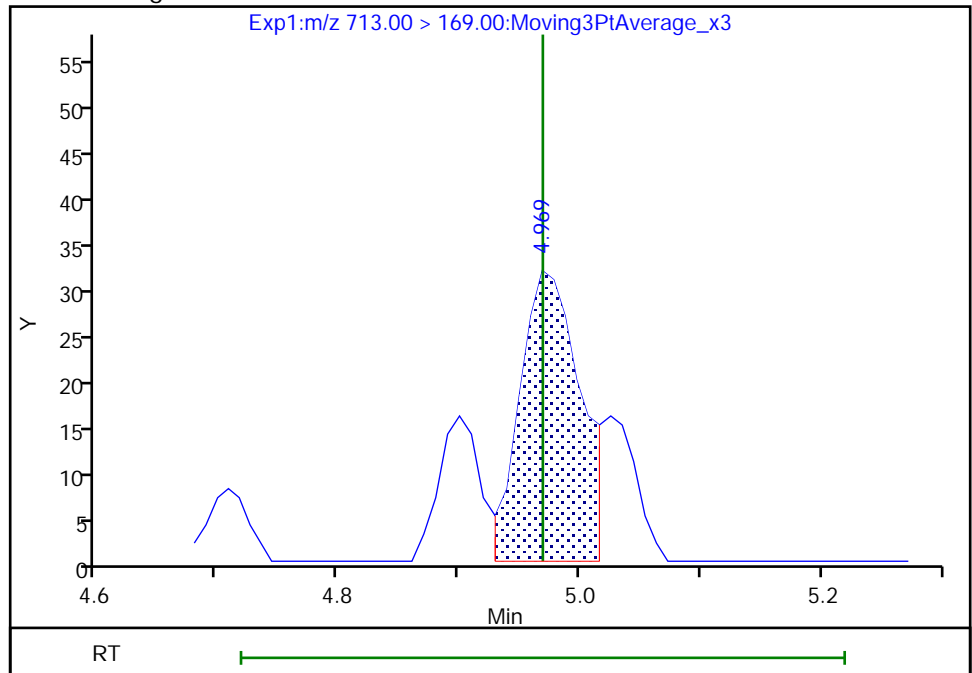
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 108  
Amount: 0.002813  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:12:07  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

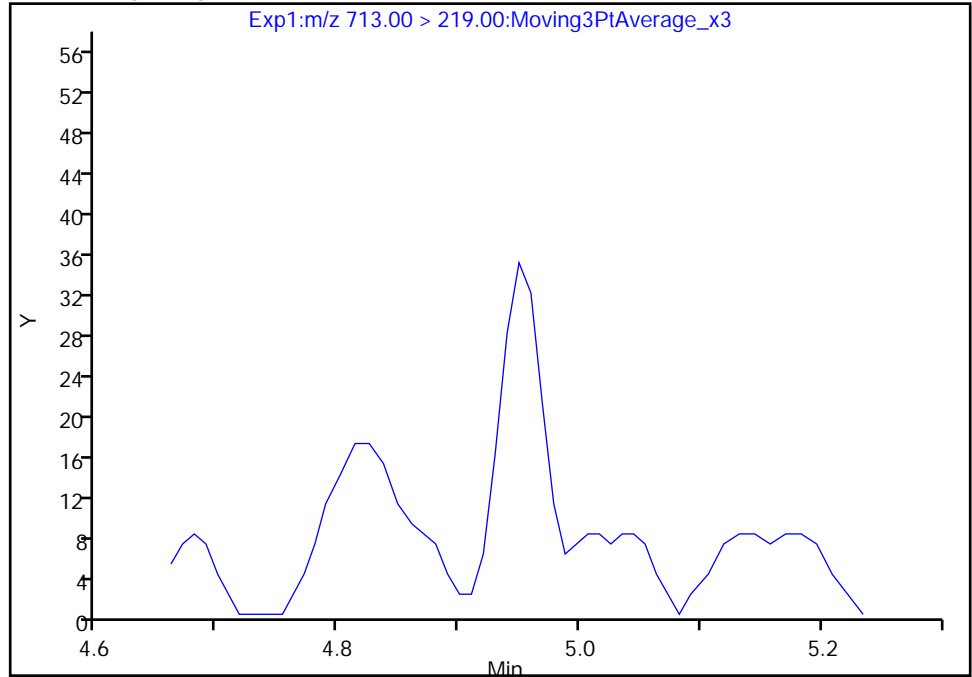
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

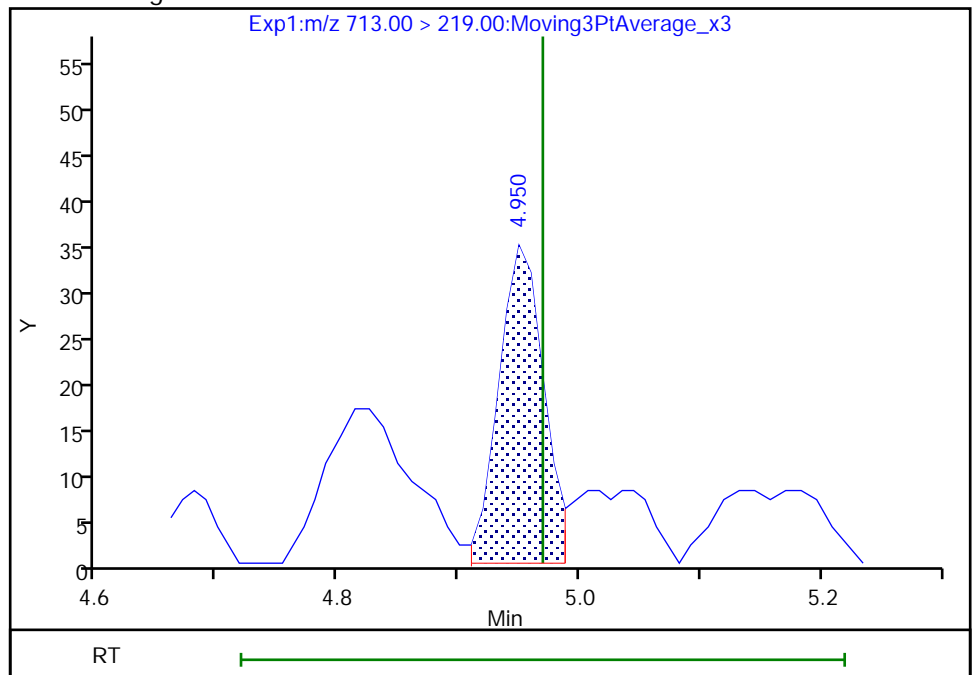
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.95  
Area: 89  
Amount: 0.002813  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:12:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

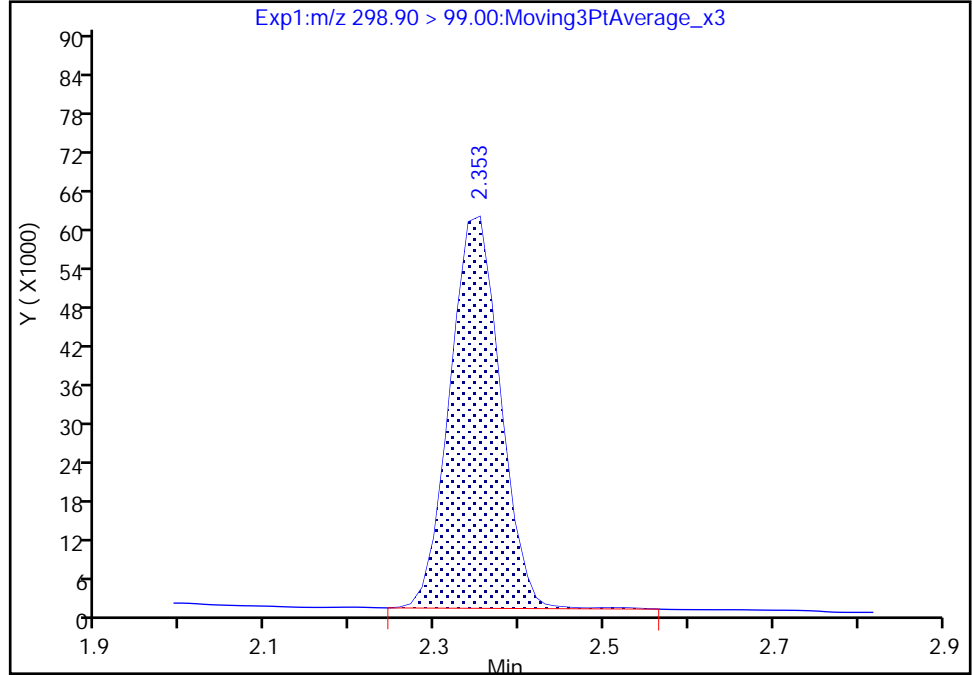
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

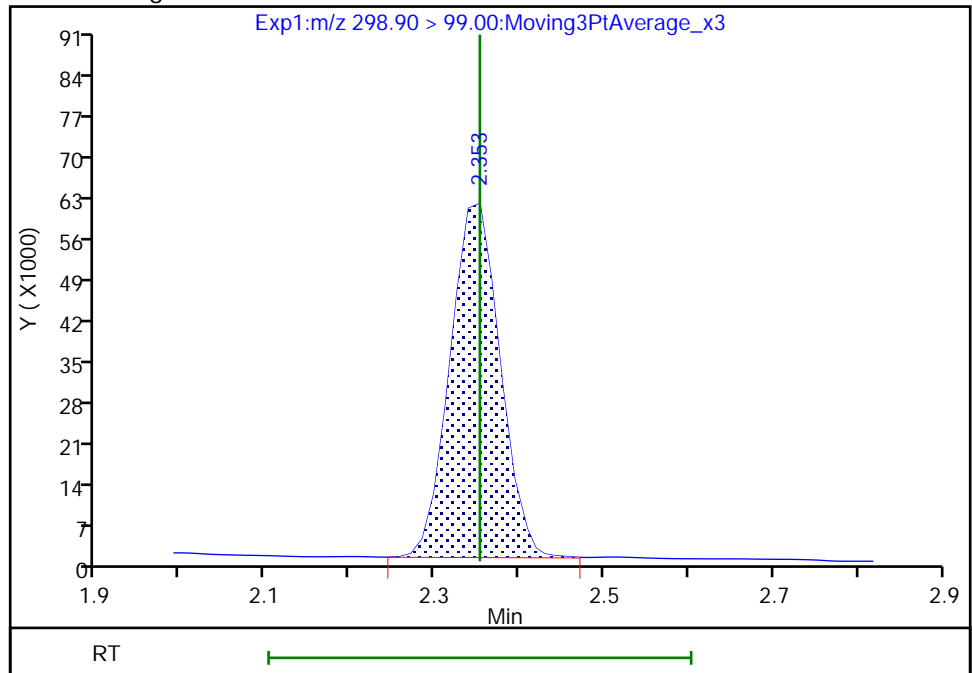
RT: 2.35  
Area: 251275  
Amount: 0.758155  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 250601  
Amount: 0.755393  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:05:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

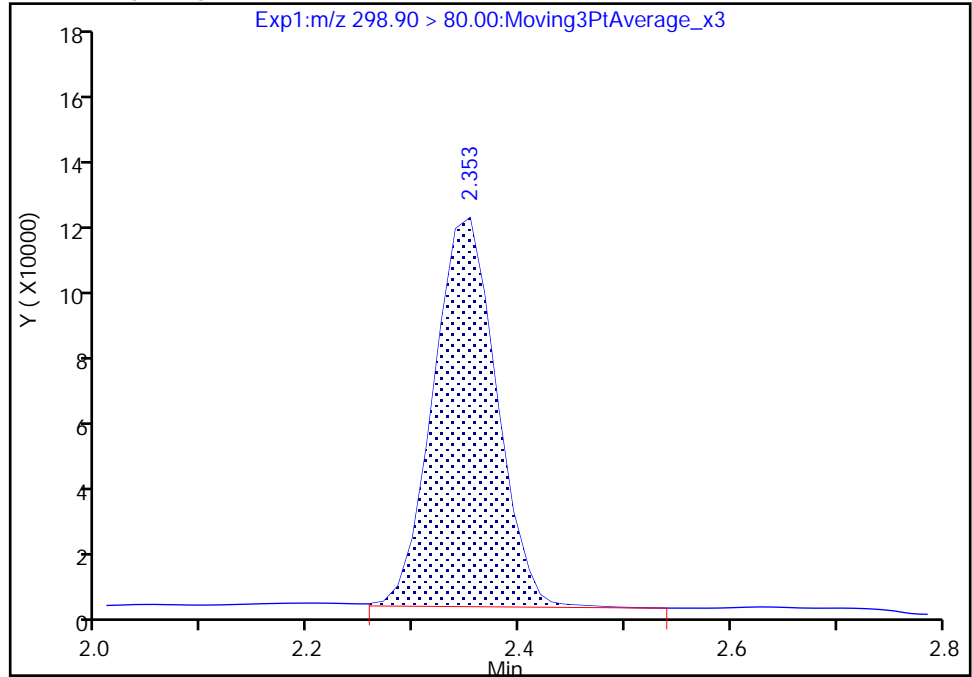
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

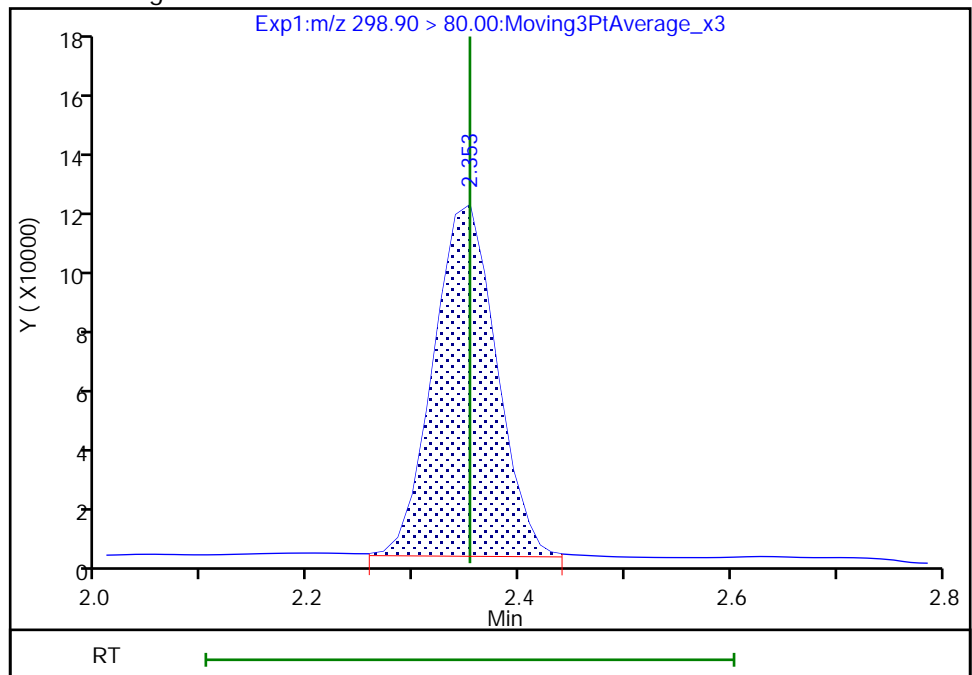
RT: 2.35  
Area: 477926  
Amount: 0.758155  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 476185  
Amount: 0.755393  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:05:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

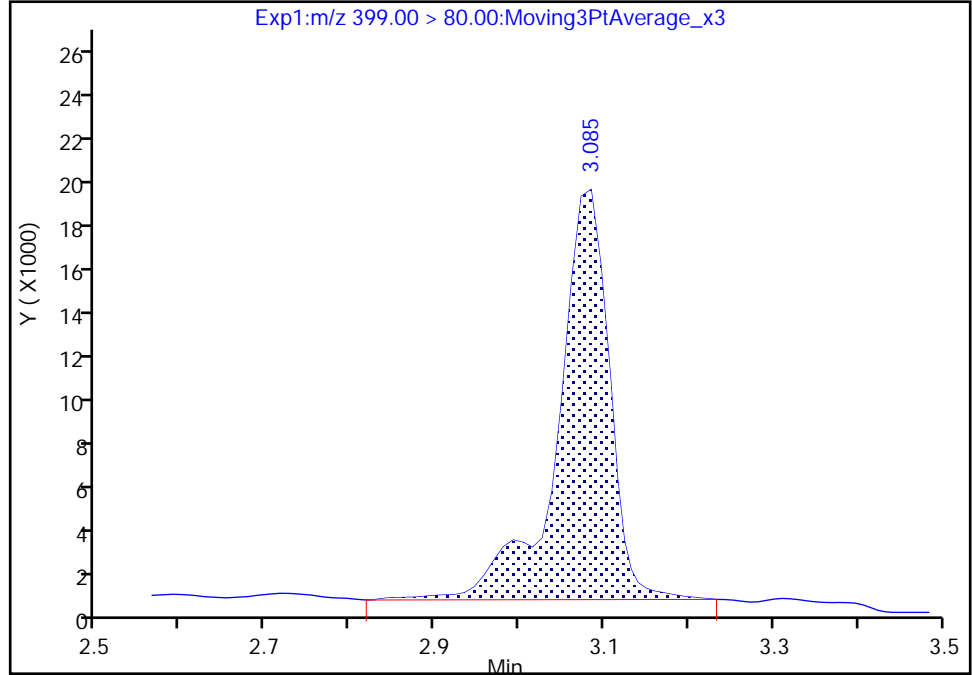
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

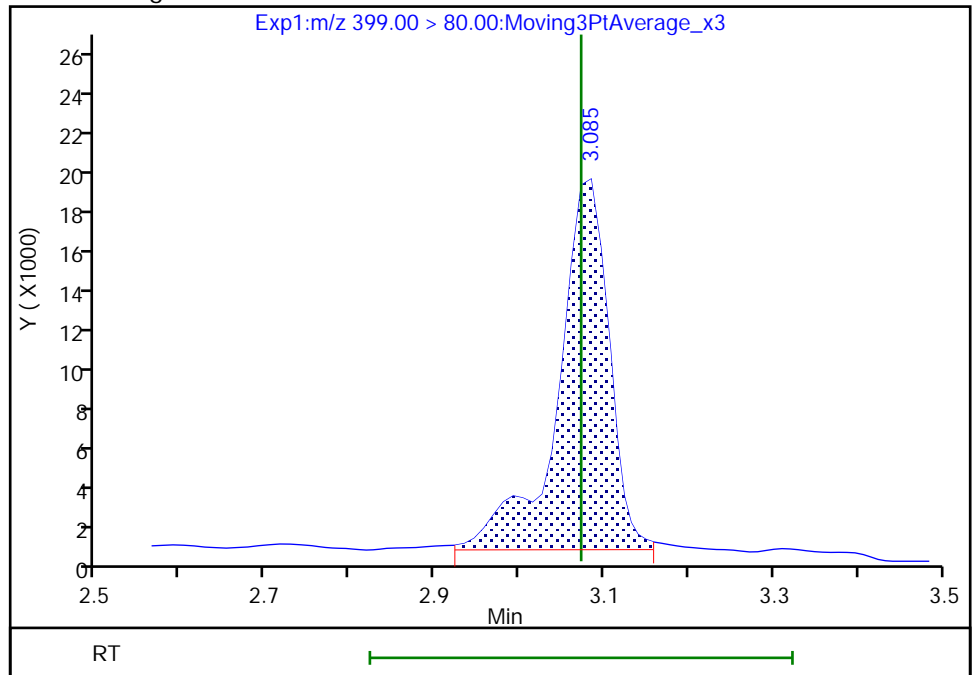
RT: 3.08  
Area: 79733  
Amount: 0.149305  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 78252  
Amount: 0.146531  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:06:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

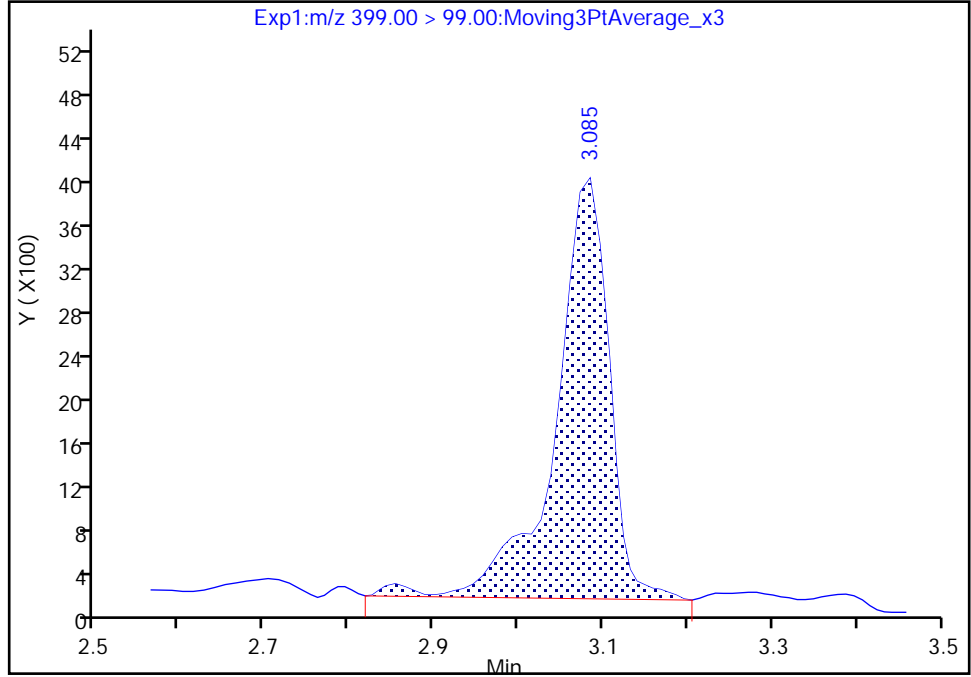
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

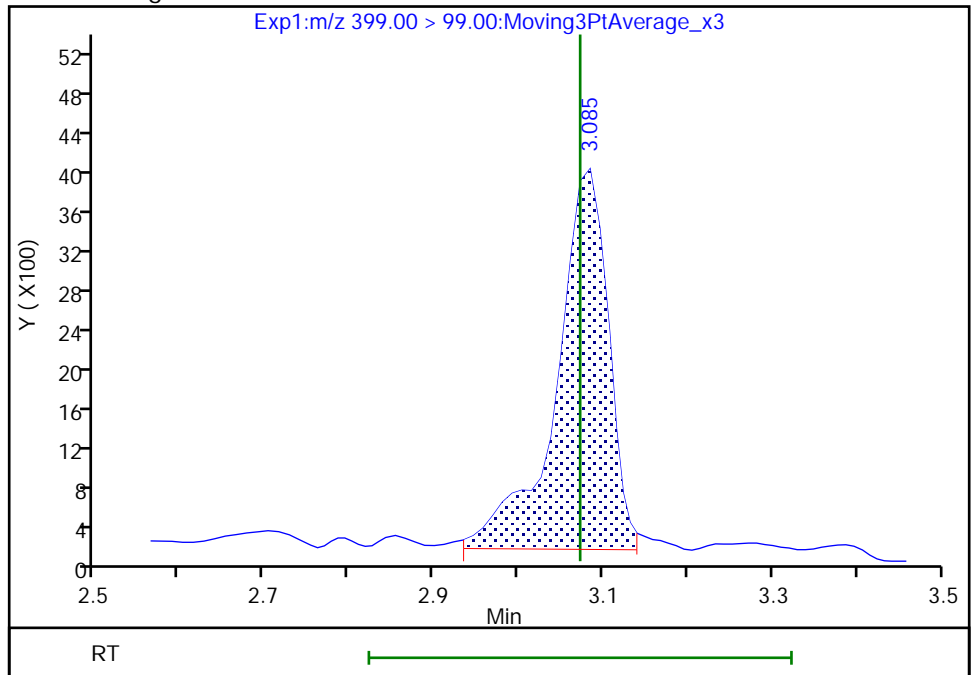
RT: 3.08  
Area: 17182  
Amount: 0.149305  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 16598  
Amount: 0.146531  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:06:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

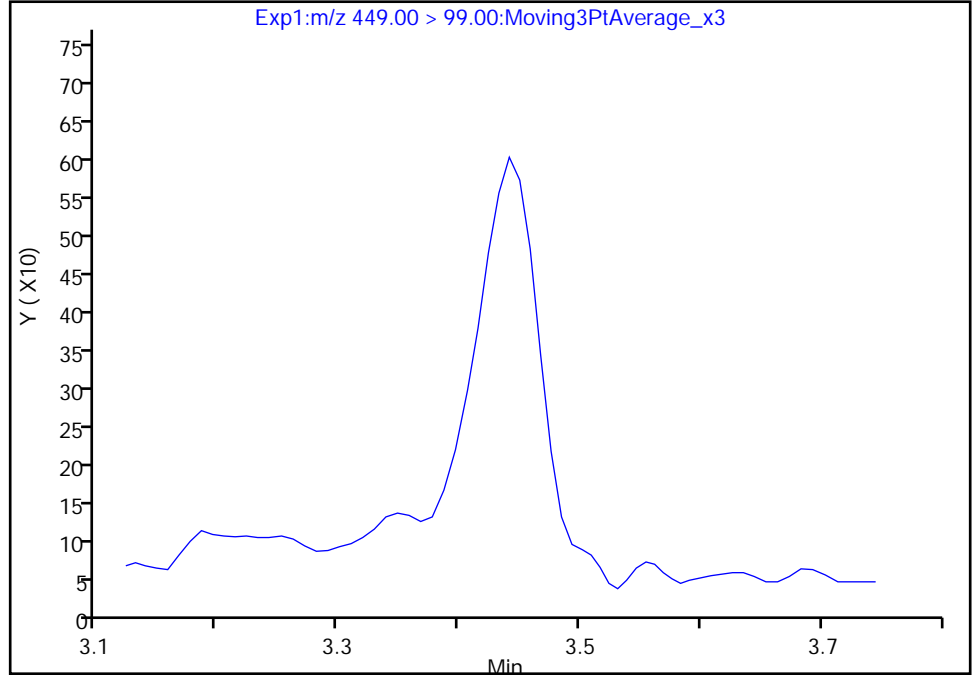
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

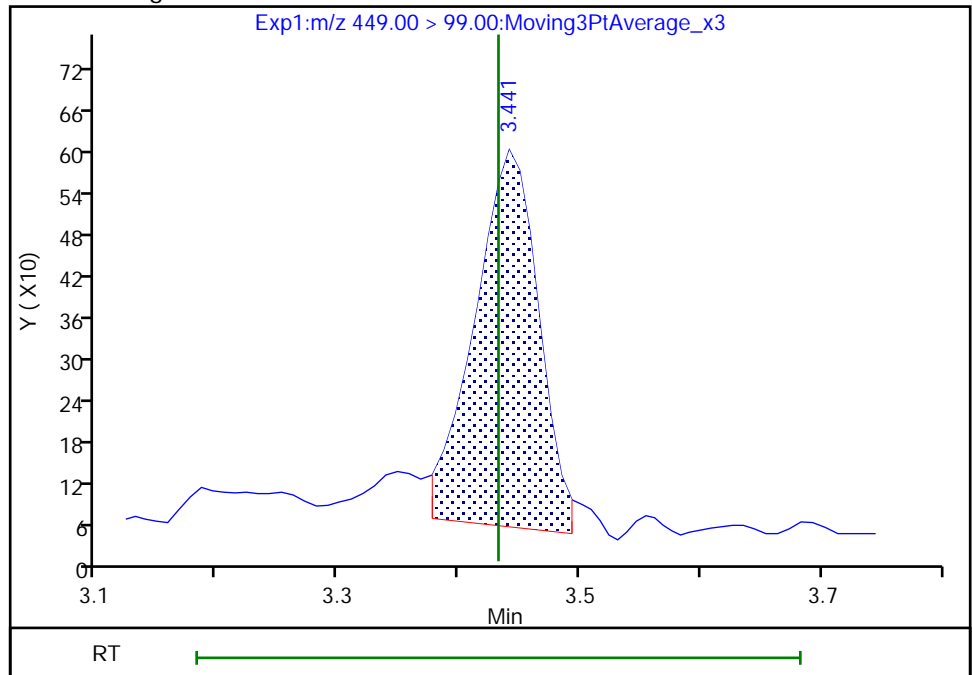
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 2007  
Amount: 0.038685  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:07:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

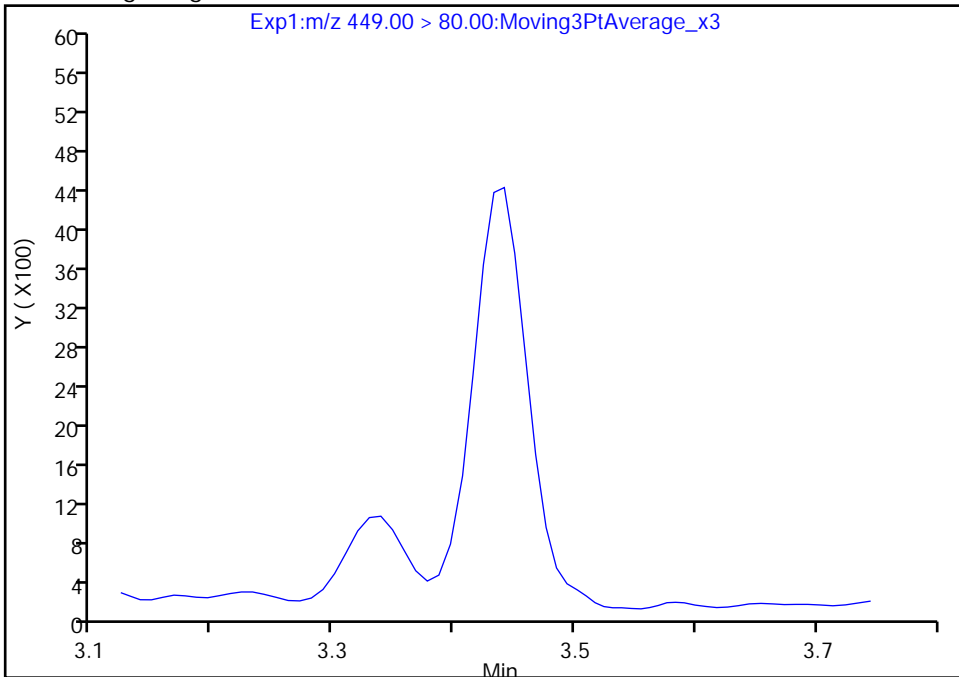
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

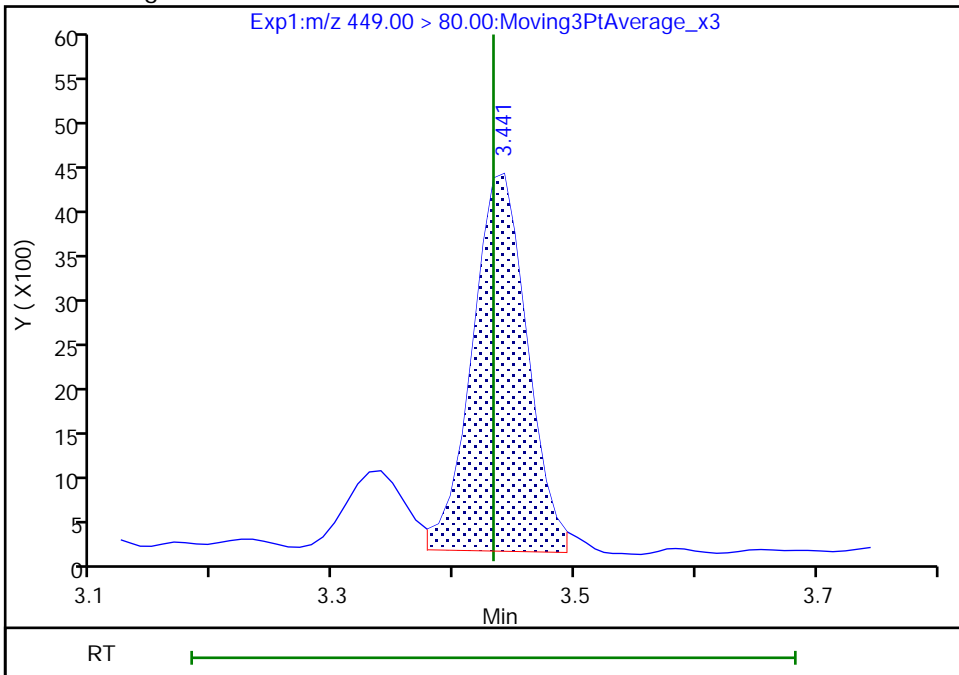
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 13254  
Amount: 0.038685  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

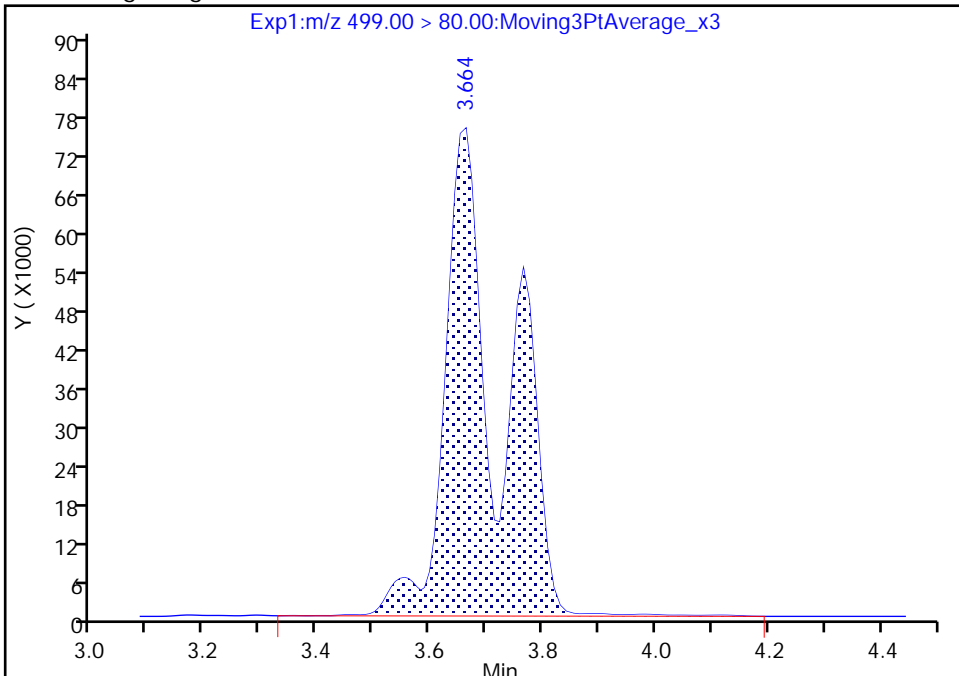
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

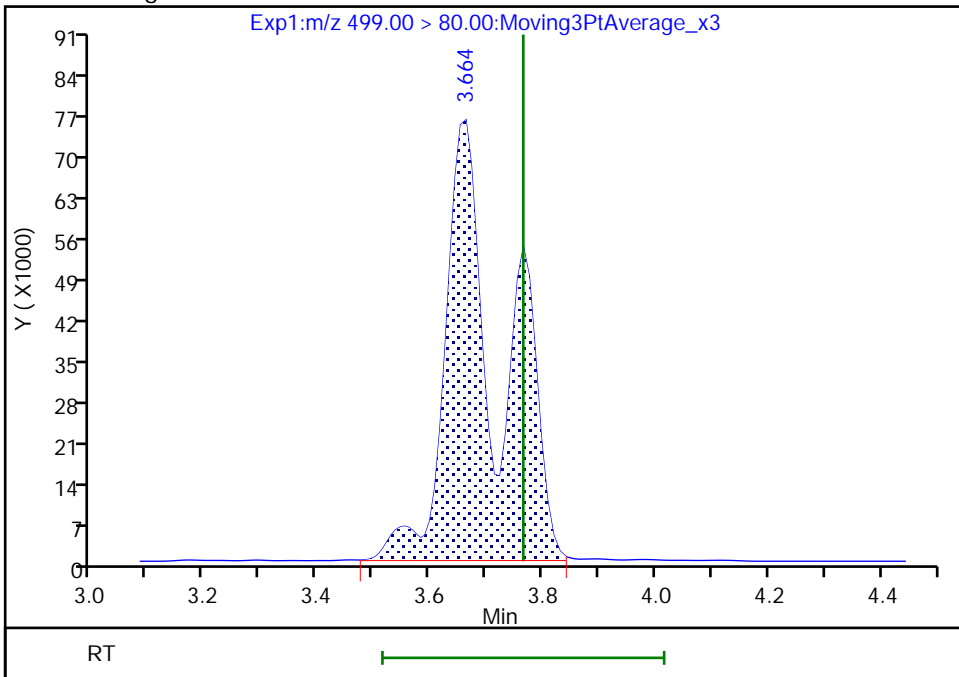
RT: 3.66  
Area: 528909  
Amount: 1.645839  
Amount Units: ng/ml

Processing Integration Results



RT: 3.66  
Area: 522888  
Amount: 1.627103  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:08:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

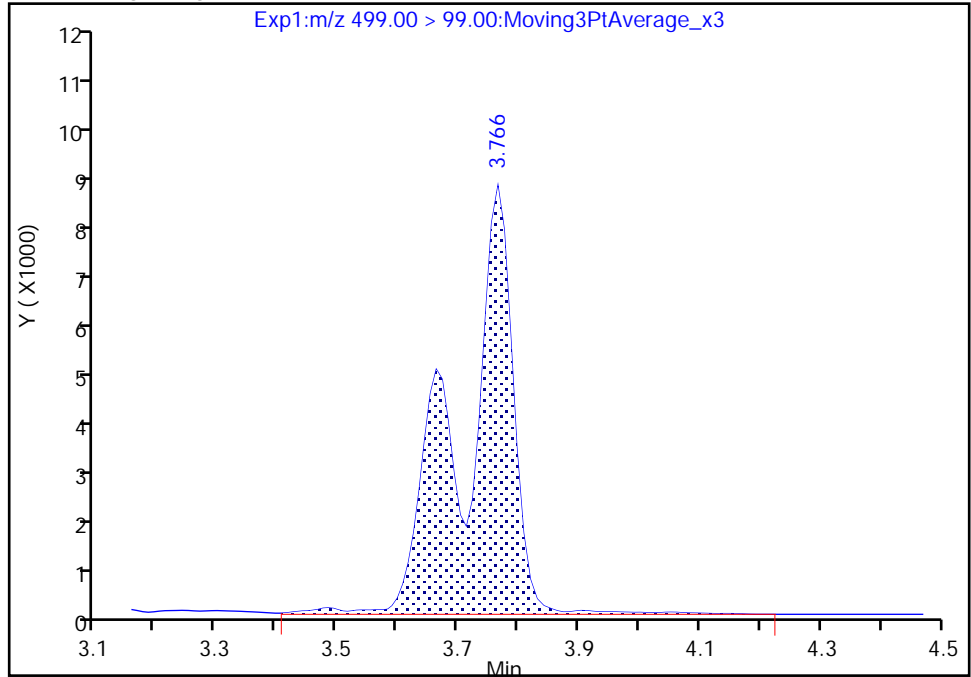
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

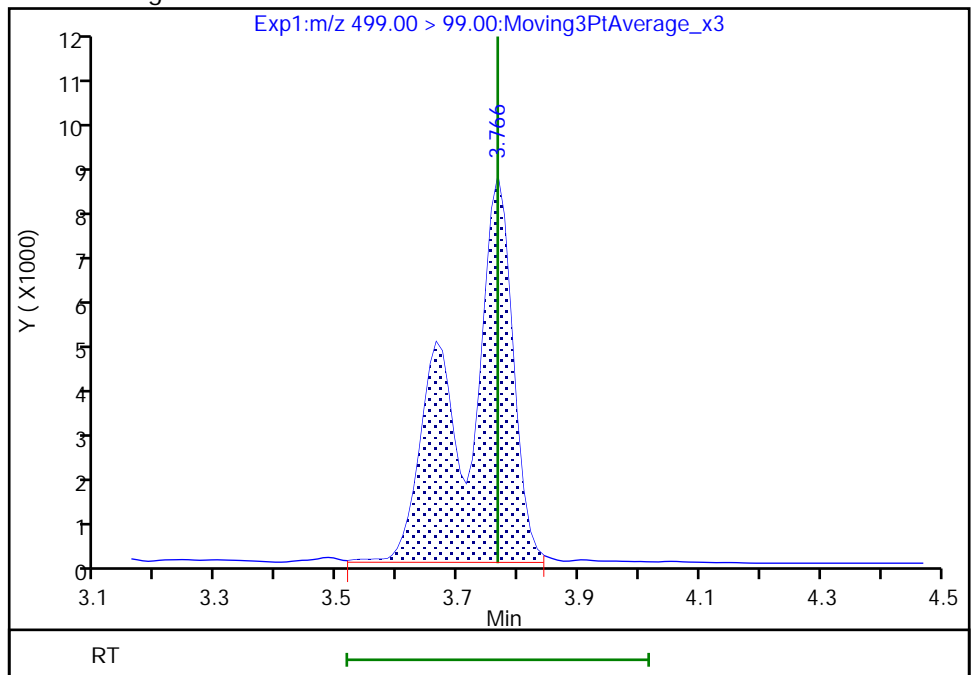
RT: 3.77  
Area: 52464  
Amount: 1.645839  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 50744  
Amount: 1.627103  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:08:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

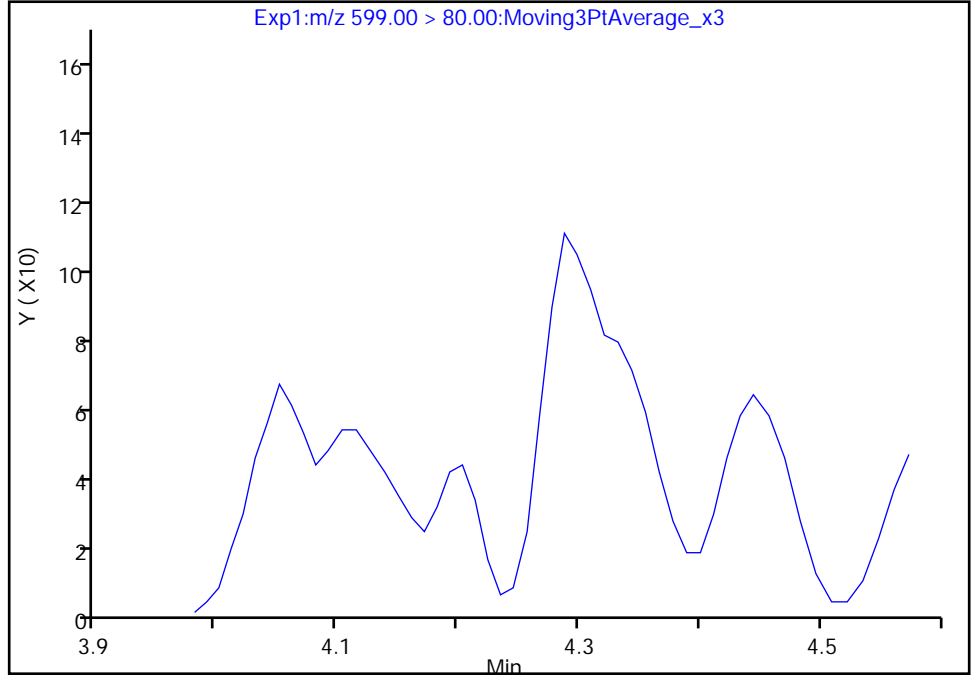
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

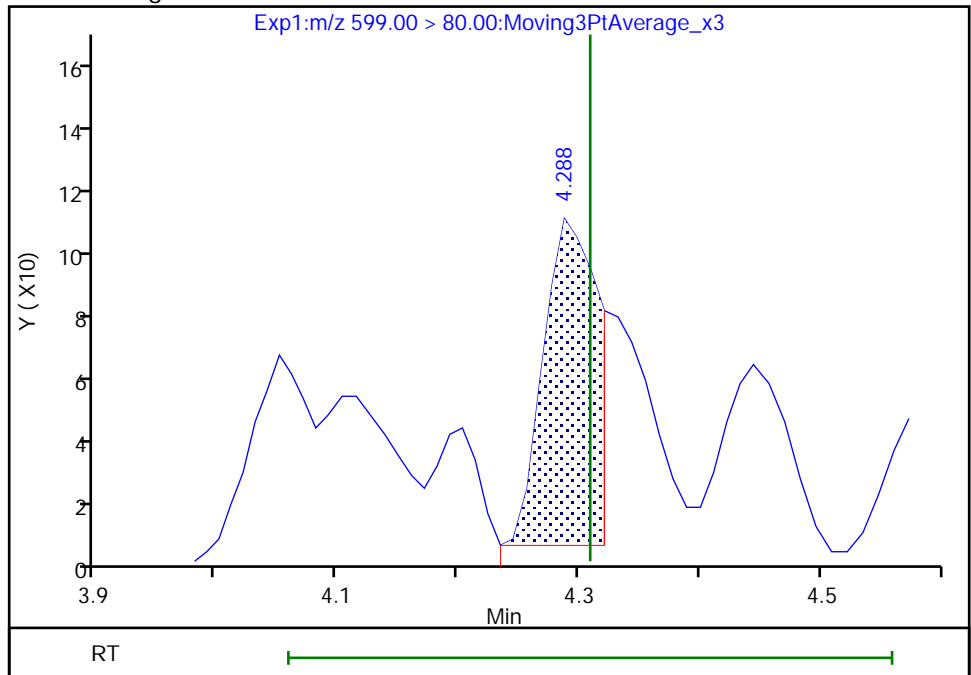
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.29  
Area: 306  
Amount: 0.001440  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:10:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

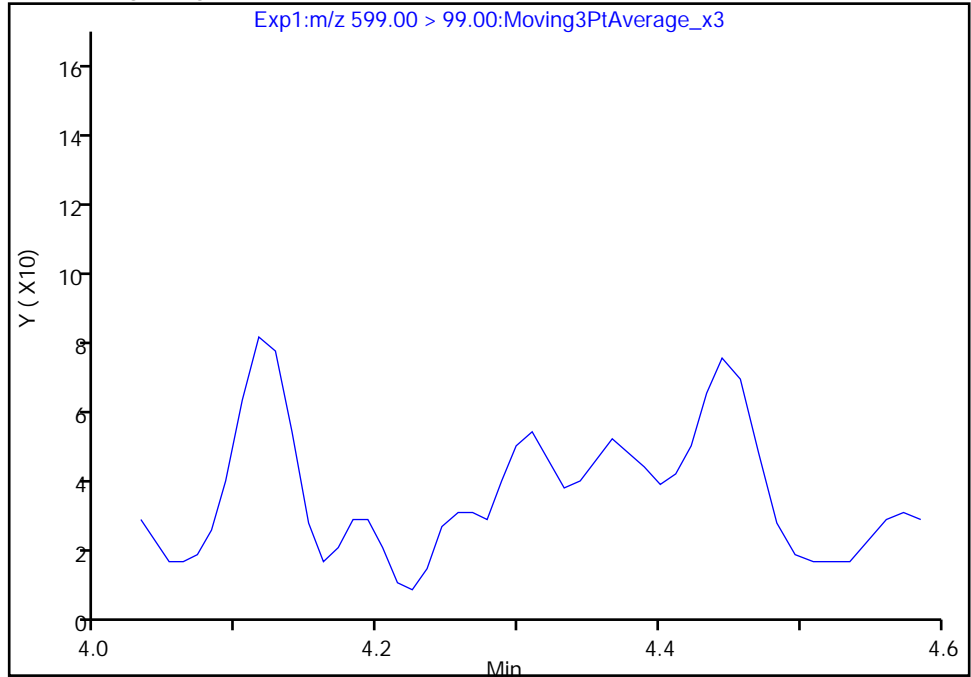
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

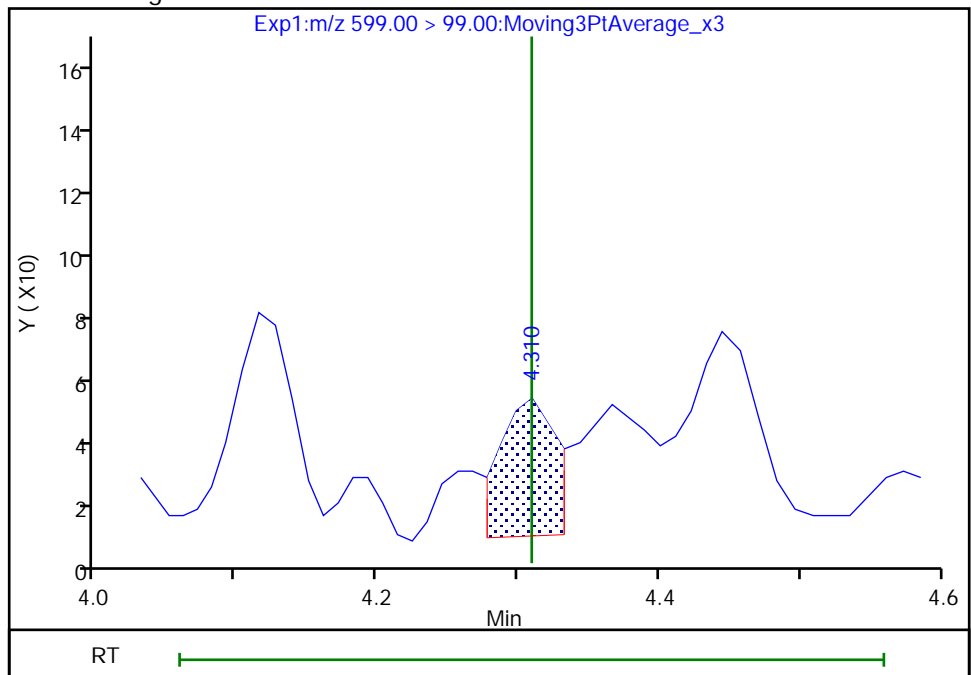
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 112  
Amount: 0.001440  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:10:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

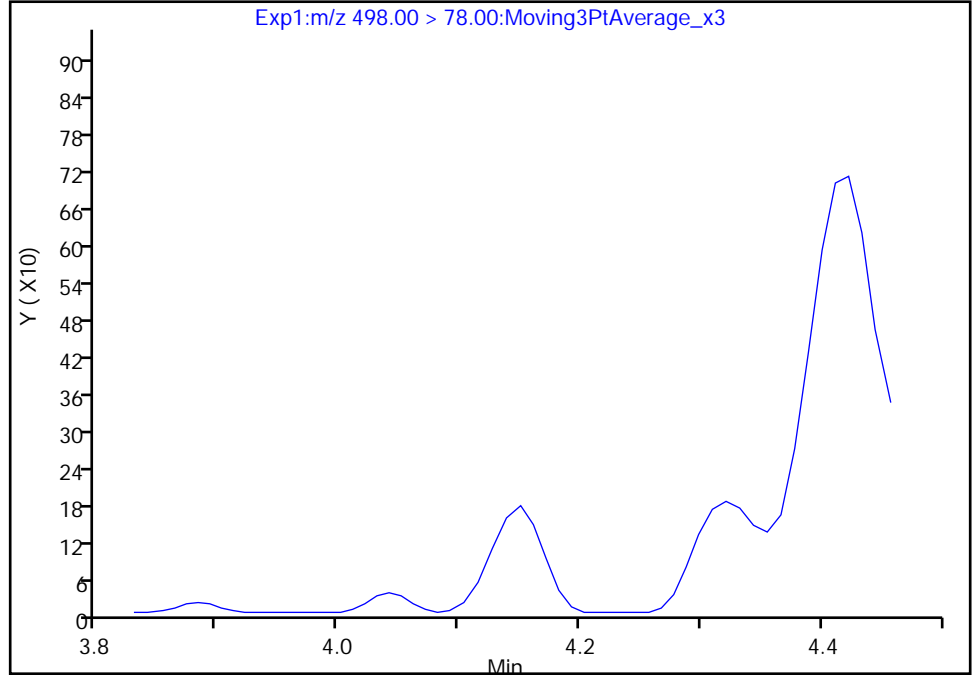
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

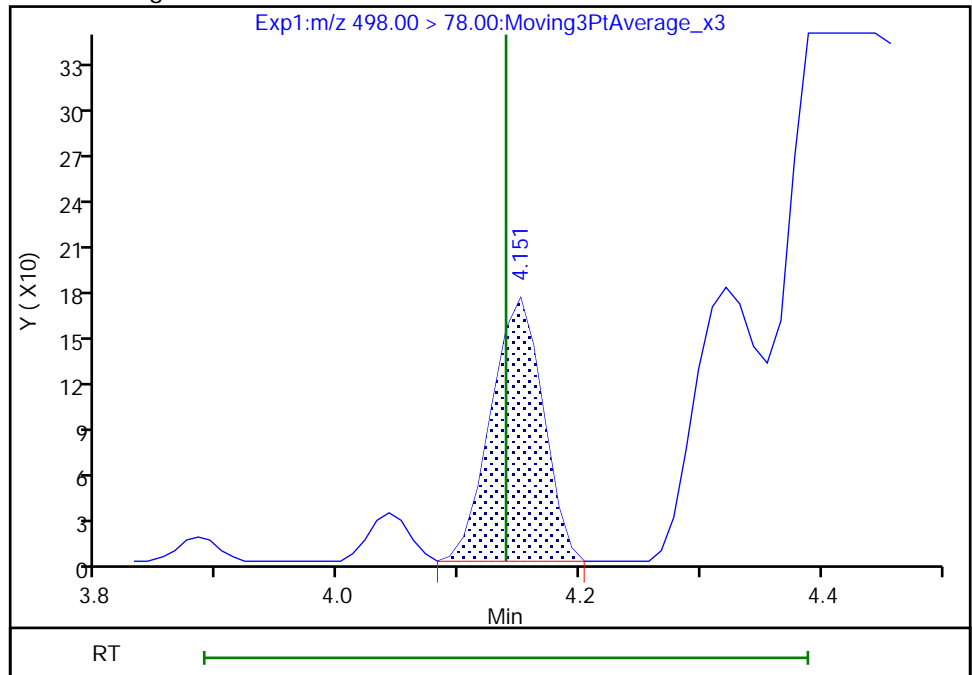
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.15  
Area: 520  
Amount: 0.001416  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:09:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

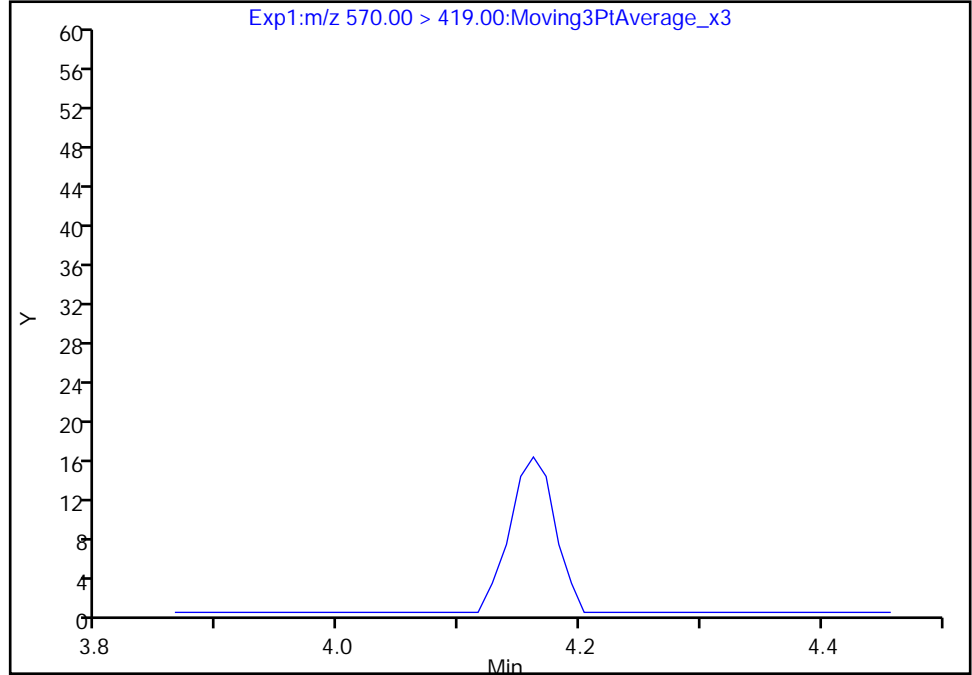
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

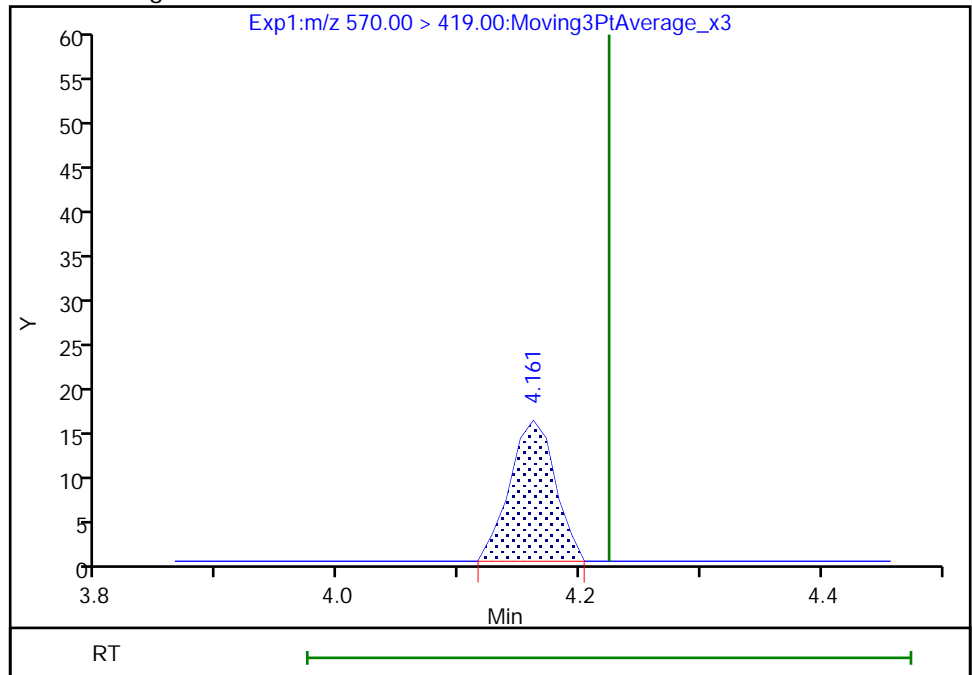
Not Detected  
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.16  
Area: 41  
Amount: 0.002429  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:10:04  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

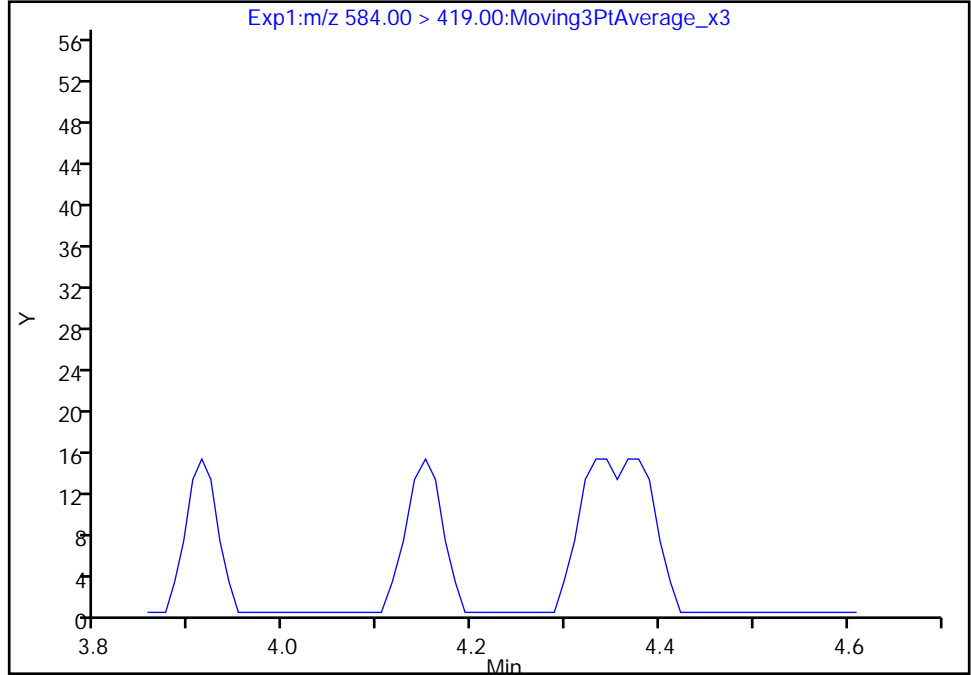
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

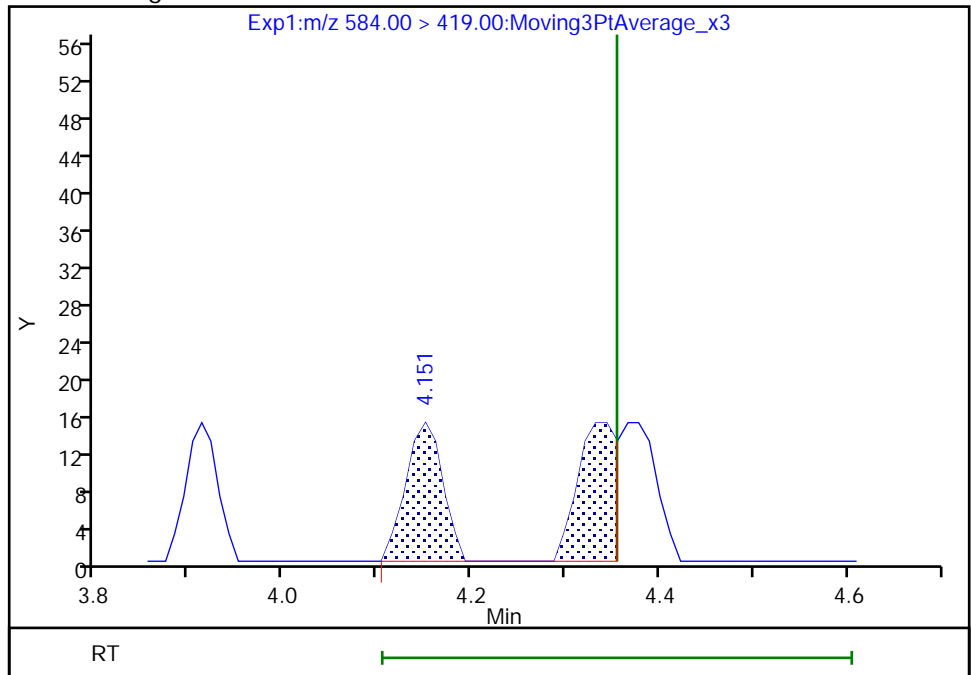
Not Detected  
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.15  
Area: 81  
Amount: 0.004791  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:11:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

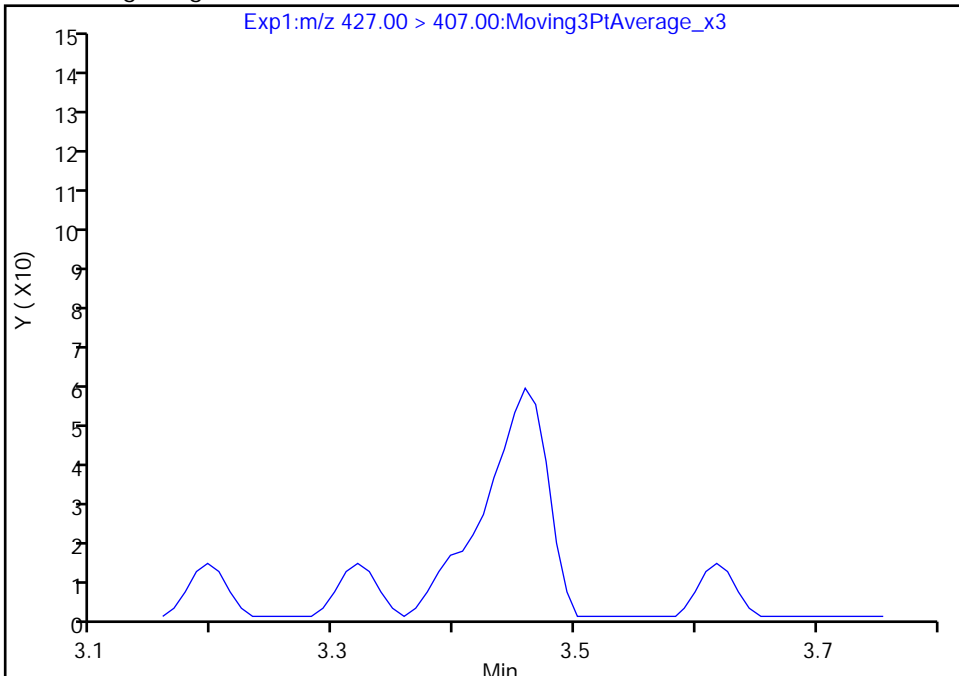
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

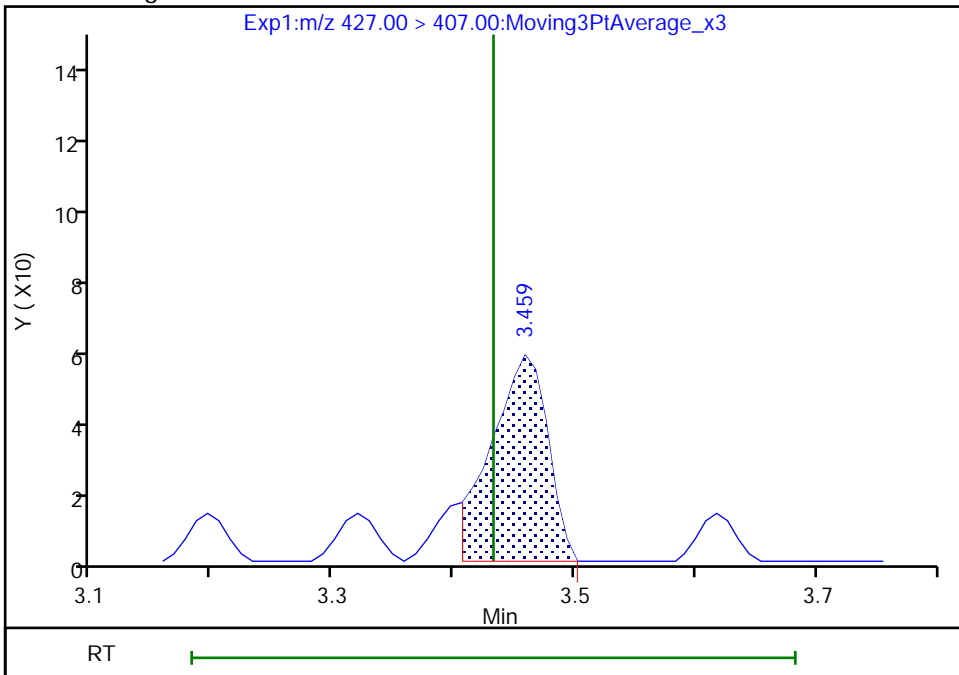
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.46  
Area: 180  
Amount: 0.003245  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:07:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

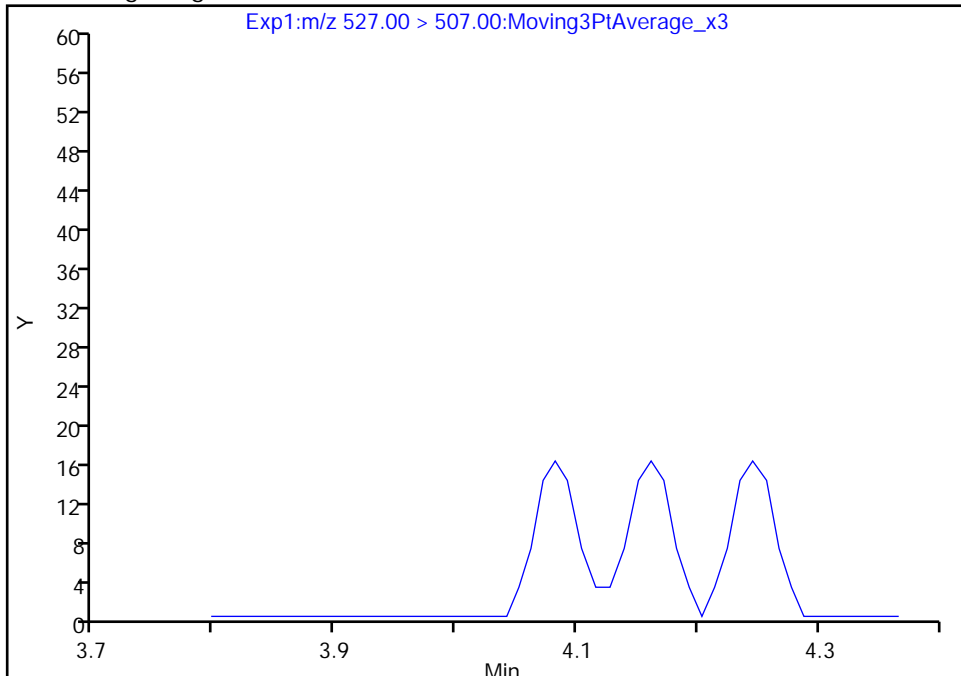
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B21.d  
Injection Date: 30-Sep-2020 21:00:13 Instrument ID: LC812  
Lims ID: 480-175657-C-5-A Lab Sample ID: 200-175657-5  
Client ID: MW-5  
Operator ID: lc812tech ALS Bottle#: 21 Worklist Smp#: 21  
Injection Vol: 20.0 ul Dil. 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

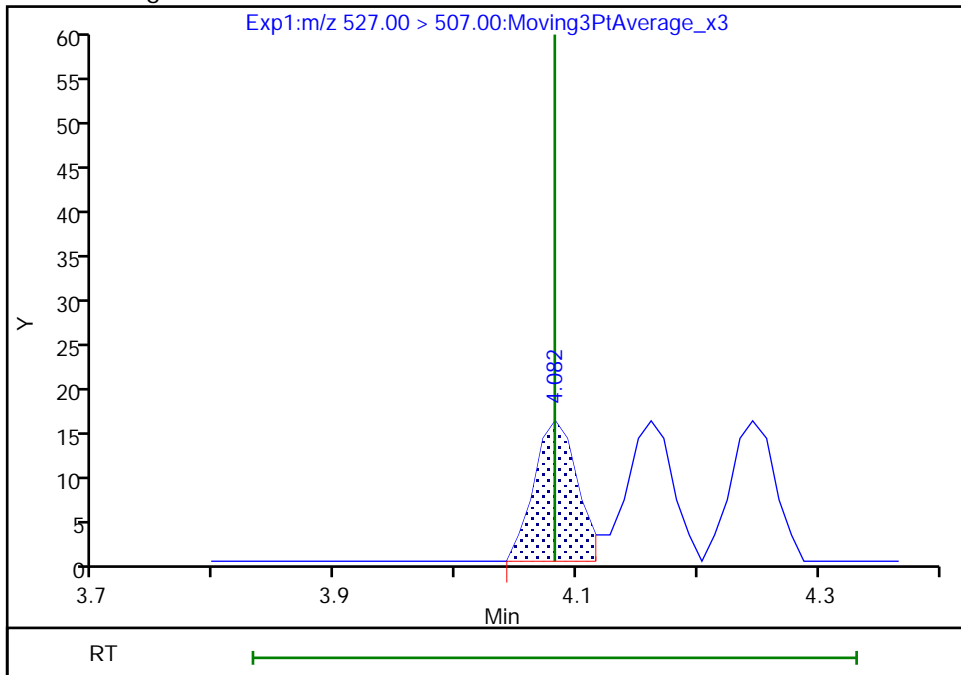
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 39  
Amount: 0.001696  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:09:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B Lab Sample ID: 480-175657-6  
 Matrix: Water Lab File ID: PA200930B22.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 09:56  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 301.4 (mL) Date Analyzed: 09/30/2020 21:08  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	16		4.1	0.94
2706-90-3	Perfluoropentanoic acid (PFPeA)	16		1.7	0.90
307-24-4	Perfluorohexanoic acid (PFHxA)	13		1.7	0.69
375-85-9	Perfluoroheptanoic acid (PFHpA)	12		1.7	0.38
335-67-1	Perfluorooctanoic acid (PFOA)	39		1.7	0.81
375-95-1	Perfluorononanoic acid (PFNA)	5.3		1.7	0.48
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.38
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.61
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.38
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.36
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.49
375-73-5	Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.52
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	3.1		1.7	0.56
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	0.49	J	1.7	0.32
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	30		1.7	0.72
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.40
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.66
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.77
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.92	J	4.1	0.60
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.55

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B Lab Sample ID: 480-175657-6  
 Matrix: Water Lab File ID: PA200930B22.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 09:56  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 301.4 (mL) Date Analyzed: 09/30/2020 21:08  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	97		50-150
STL01892	13C4 PFHpA	96		50-150
STL00990	13C4 PFOA	96		50-150
STL00991	13C4 PFOS	84		50-150
STL00995	13C5 PFNA	83		50-150
STL00992	13C4 PFBA	86		25-150
STL00993	13C2 PFHxA	96		50-150
STL00996	13C2 PFDA	81		50-150
STL00997	13C2 PFUnA	80		50-150
STL00998	13C2 PFDoA	77		50-150
STL01056	13C8 FOSA	55		25-150
STL01893	13C5 PFPeA	95		25-150
STL02116	13C2 PFTeDA	71		50-150
STL02118	d3-NMeFOSAA	68		50-150
STL02117	d5-NEtFOSAA	78		50-150
STL02279	M2-6:2 FTS	102		25-150
STL02280	M2-8:2 FTS	86		25-150
STL02337	13C3 PFBS	93		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
 Lims ID: 480-175657-C-6-A  
 Client ID: MW-5B  
 Sample Type: Client  
 Inject. Date: 30-Sep-2020 21:08:31 ALS Bottle#: 22 Worklist Smp#: 22  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-6-A  
 Misc. Info.: 200-0043035-022 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 15:22:48

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	1.990	-0.009	0.574	804984	1.07	85.5	11674	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.005	288564	0.4794		77.3		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	643810	1.19	95.4	1477	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	257474	0.4734		10.2		M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	714223	1.09	93.5	33303	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.339	2.353	-0.014	1.000	310191	0.5067	Target=2.07	32.1		M
298.90 > 99.00	2.339	2.353	-0.014	1.000	155847		1.99(1.04-3.11)	59.6		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.665	2.665	0.0	0.773	60687	1.23	105	12.4	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.653	2.665	-0.012	0.995	53	0.000631		1.0		M
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.784	669758	1.21	96.4	2793	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	211090	0.3912	Target=12.44	21.0		M
313.00 > 119.00	2.703	2.703	0.0	1.000	17249		12.24(6.22-18.66)	19.3		M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.703	2.703	0.0	0.880	8594	0.0159	Target=3.64	2.6		M
349.00 > 99.00	2.703	2.703	0.0	0.880	2844		3.02(1.82-5.46)	2.8		M
D 64 13C3 HFPO-DA	332.10 > 287.00	2.810	2.810	0.0	0.815	77283	1.49	119	802	

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	3.073	3.073	0.0	0.891	538300	1.14		96.6	2140	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	46841	0.0932	Target=4.60		19.9	M
399.00 > 99.00	3.084	3.073	0.011	1.004	9209		5.09(2.30-6.91)		13.7	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.084	0.0	0.894	607296	1.20		96.1	4196	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	177249	0.3641	Target=3.34		28.3	M
363.00 > 169.00	3.084	3.084	0.0	1.000	48916		3.62(1.67-5.01)		92.0	M
77 DONA										M
377.00 > 251.00	3.115	3.115	0.0	0.827	256	0.000256	Target=2.44		0.9	M
377.00 > 85.00	3.073	3.115	-0.042	0.816	138		1.86(1.22-3.67)		0.3	M
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.433	0.009	0.914	5600	0.0149	Target=7.08		8.6	M
449.00 > 99.00	3.441	3.433	0.009	0.914	901		6.22(3.54-10.63)		4.8	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.009	1.000	1429	0.0277			52.3	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.997	76697	1.22		102	160	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	621338	1.20		96.1	5030	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		656758	1.25			3750	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	601273	1.17	Target=2.29		165	M
413.00 > 169.00	3.450	3.450	0.0	1.000	284492		2.11(1.14-3.43)		575	M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	387273	1.00		84.0	786	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	320699	0.9106	Target=7.10		305	M
499.00 > 99.00	3.765	3.765	0.0	1.000	36417		8.81(3.55-10.64)		221	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	454863	1.04		83.5	4424	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.786	3.786	0.0	1.000	59125	0.1596	Target=5.83		22.3	M
463.00 > 169.00	3.786	3.786	0.0	1.000	8549		6.92(2.91-8.74)		77.0	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.903	3.922	-0.019	1.036	20	0.00006453			0.6	M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	424411	1.02		81.2	5352	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.071	4.082	-0.011	0.998	1152	0.003429	Target=6.81		1.8	M
513.00 > 169.00	4.082	4.082	0.0	1.000	217		5.31(3.41-10.22)		4.1	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.092	4.082	0.010	1.000	82	0.003227				M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	768698	1.04		86.5	531	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.139	0.011	1.203	461389	0.6850		54.8	2451	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.139	0.0	0.997	1600	0.004637		4.5		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.224	20299	0.8530		68.2	501	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.288	4.309	-0.021	1.139	110	0.000472	Target=3.31	0.7		RM
599.00 > 99.00	4.298	4.309	-0.011	1.141	130		0.85(1.66-4.97)	1.4		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	315301	1.00		79.9	7446	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.343	0.0	1.000	838	0.003368	Target=6.57	1.2		RM
563.00 > 169.00	4.343	4.343	0.0	1.000	37		22.65(3.28-9.85)	1.7		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	24839	0.9709		77.7	382	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.214	4.355	-0.141	0.968	38	0.002089		1.5		M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.177	111	0.000415		4.7		M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	320585	0.9613		76.9	3367	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.585	4.573	0.012	1.003	452	0.001807	Target=5.16	0.8		M
613.00 > 169.00	4.561	4.573	-0.012	0.997	148		3.05(2.58-7.75)	6.7		M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.763	4.736	0.027	1.265	152	0.002034	Target=0.45	1.3		RM
699.00 > 99.00	4.709	4.736	-0.027	1.251	129		1.18(0.22-0.67)	1.7		M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.763	4.772	-0.009	1.042	253	0.001191	Target=3.30	0.5		M
663.00 > 169.00	4.772	4.772	0.0	1.044	63		4.02(1.65-4.95)	1.9		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.969	0.009	1.443	212049	0.8926		71.4	2598	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.978	4.969	0.009	1.000	56	0.001441	Target=1.06	3.0		M
713.00 > 219.00	4.978	4.969	0.009	1.000	87		0.64(0.53-1.59)	5.2		M
D 44 13C2 PFHxDA										
815.00 > 770.00	5.340	5.329	0.011	1.548	186466	0.6926		55.4	2775	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.329	0.021	1.002	2566	-0.003627	Target=3.06	2.4		M
813.00 > 169.00	5.350	5.329	0.021	1.002	698		3.68(1.53-4.58)	35.2		M
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.685	5.694	-0.009	1.065	36	0.000323	Target=2.82	0.2		M
913.00 > 169.00	5.694	5.694	0.0	1.066	20		1.80(1.41-4.24)	2.3		M



**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d

Injection Date: 30-Sep-2020 21:08:31

Instrument ID: LC812

Lims ID: 480-175657-C-6-A

Lab Sample ID: 200-175657-6

Client ID: MW-5B

Operator ID: lc812tech

ALS Bottle#: 22

Worklist Smp#: 22

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

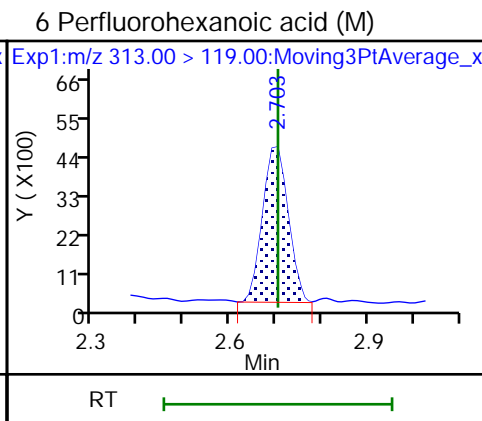
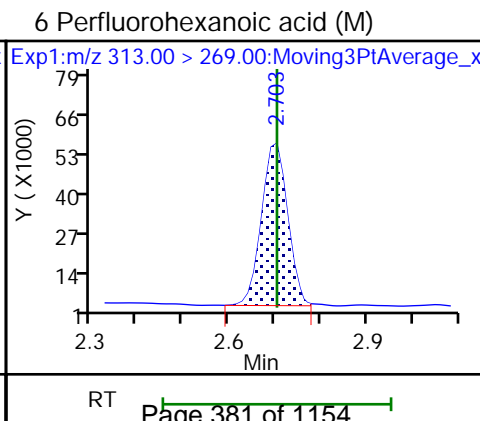
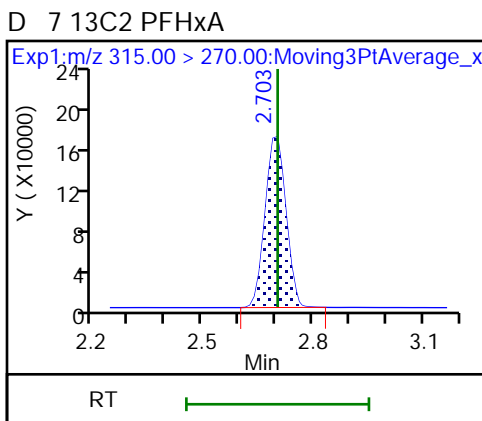
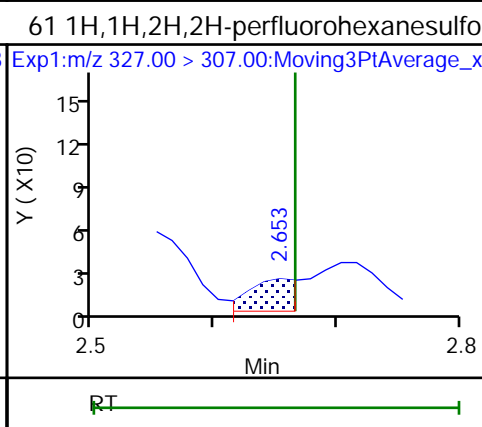
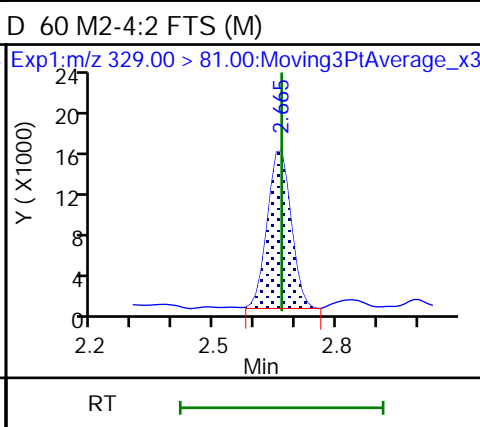
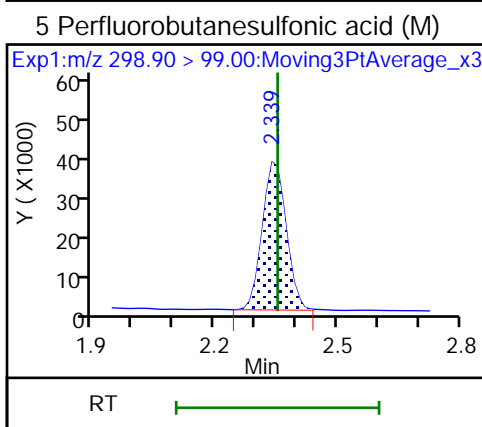
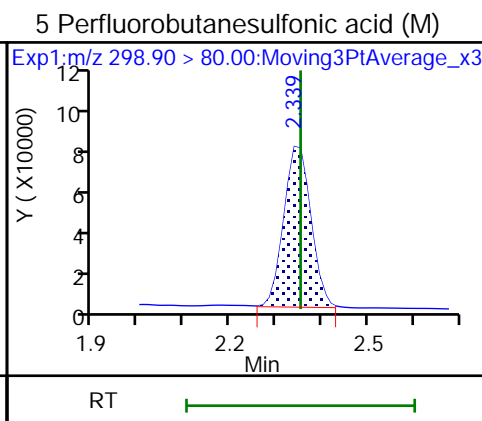
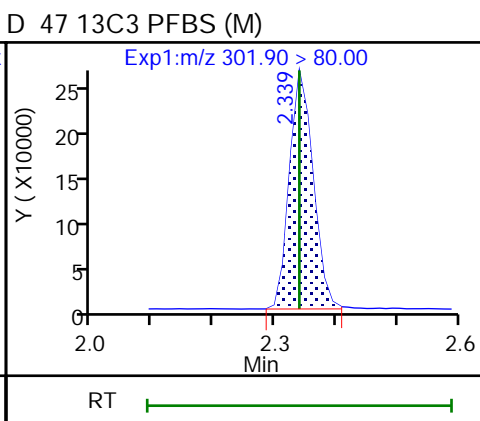
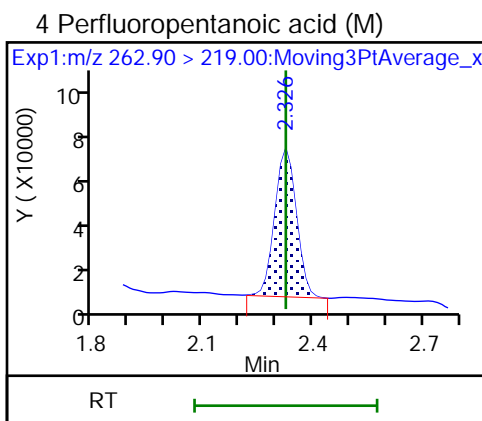
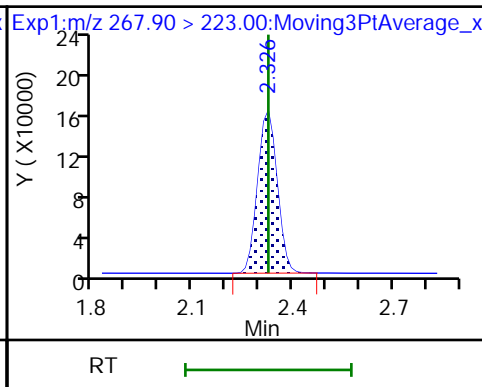
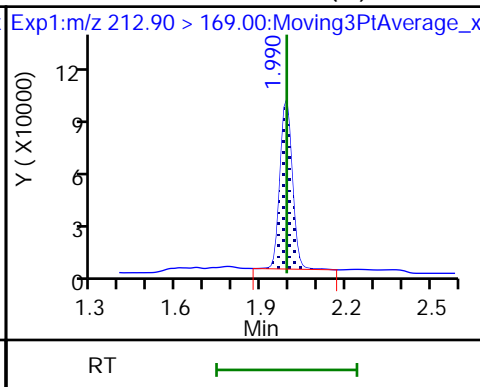
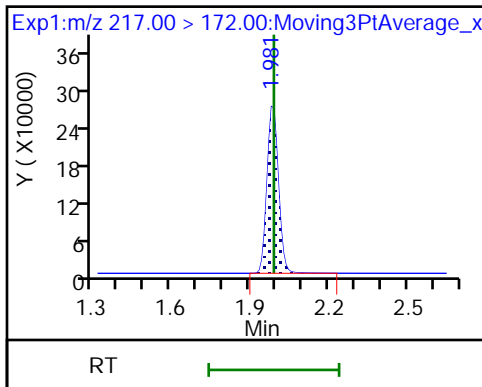
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

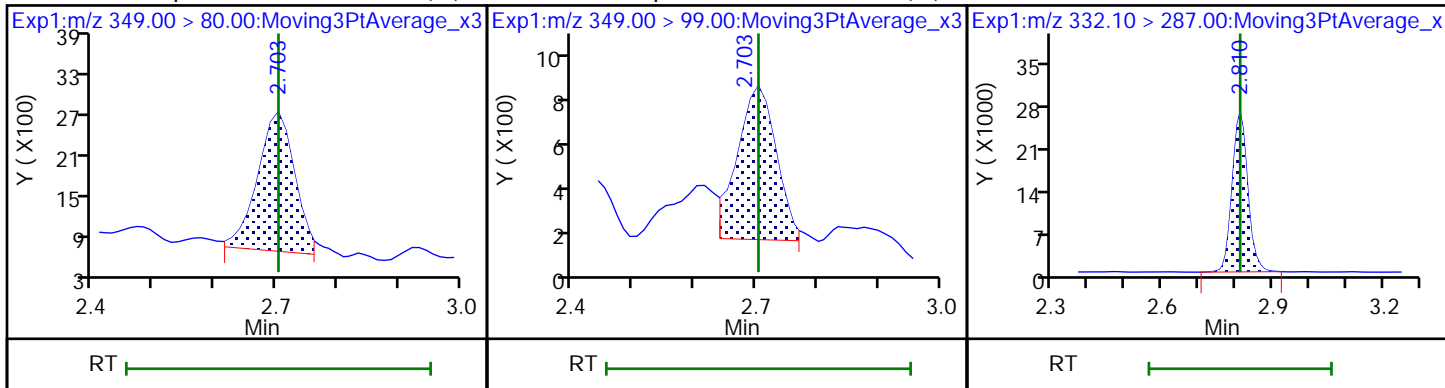
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

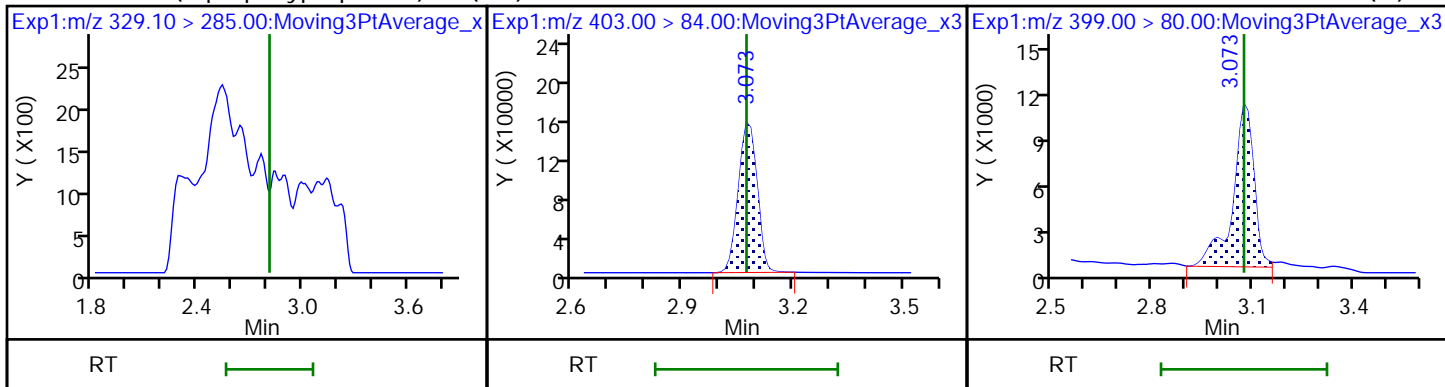
D 3 13C5 PFPeA



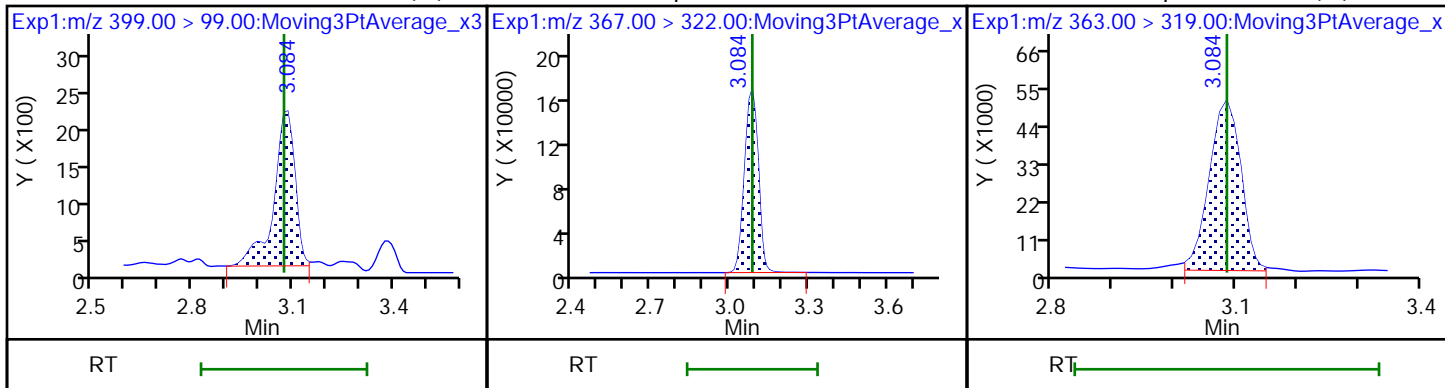
70 Perfluoropentanesulfonic acid (M) 70 Perfluoropentanesulfonic acid (M) D 64 13C3 HFPO-DA



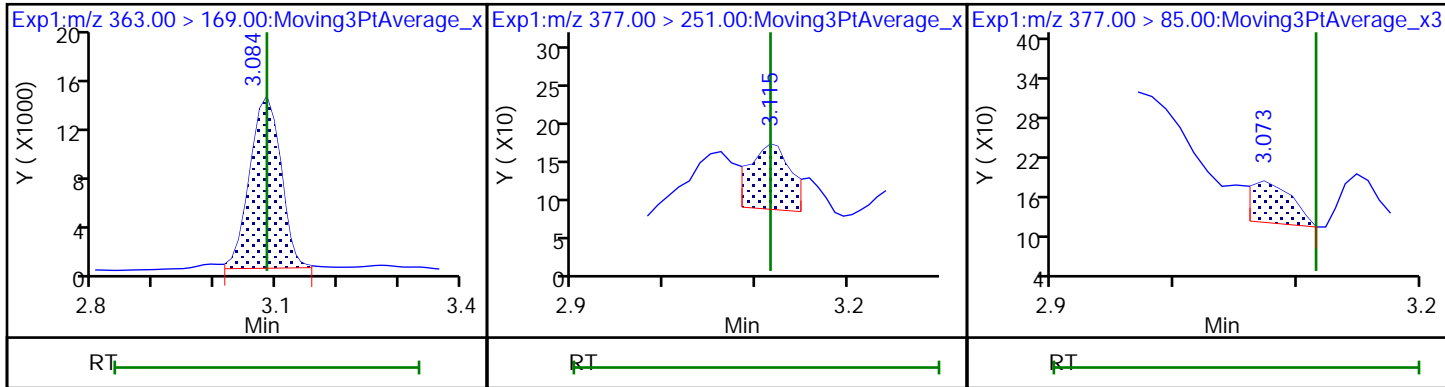
67 Perfluoro(2-propoxypropanoic) ac (ND)11 18O2 PFHxS 8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M) D 9 13C4 PFHpA 10 Perfluoroheptanoic acid (M)



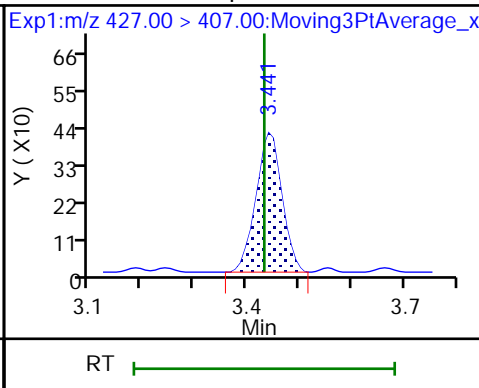
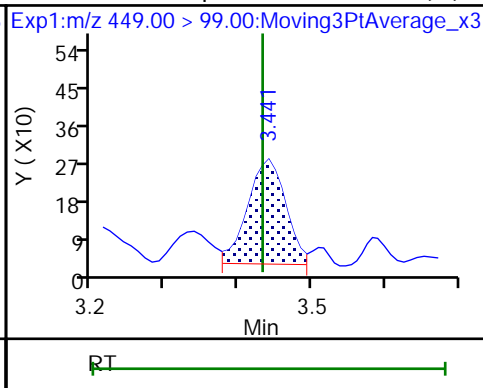
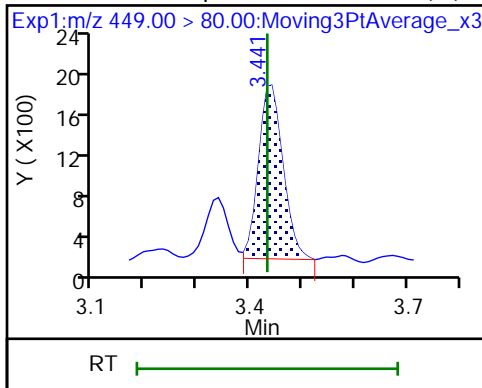
10 Perfluoroheptanoic acid (M) 77 DONA (M) 77 DONA (M)



16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

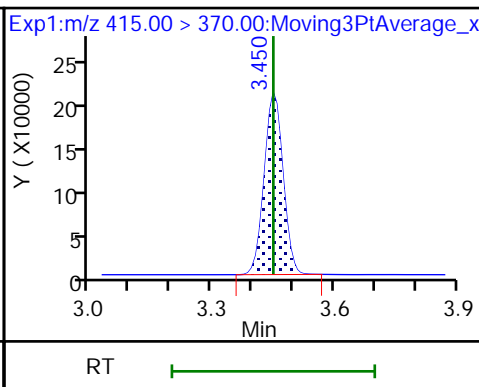
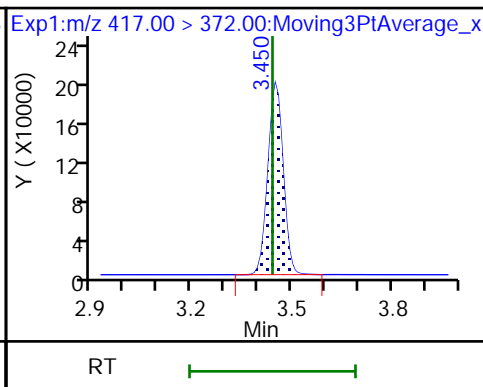
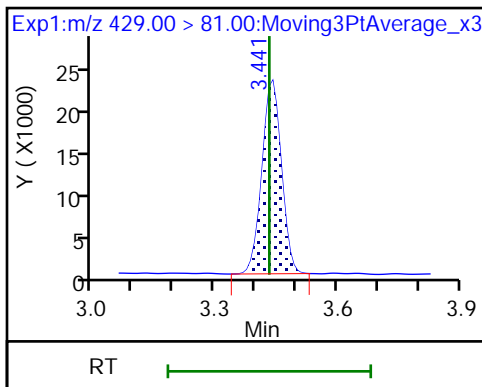
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



D 12 M2-6:2 FTS

D 14 13C4 PFOA

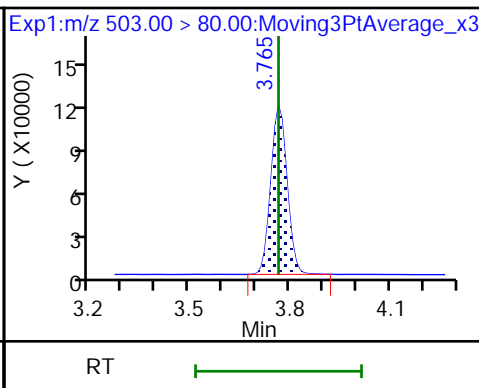
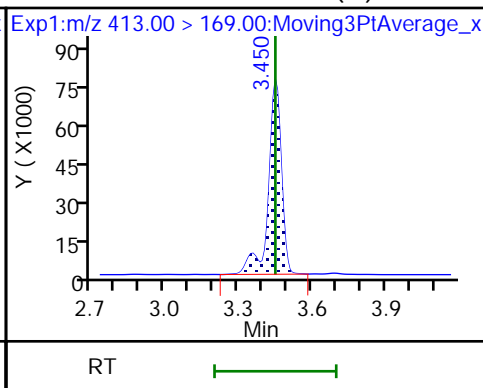
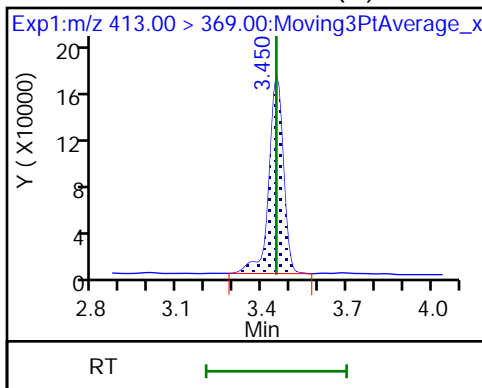
\* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

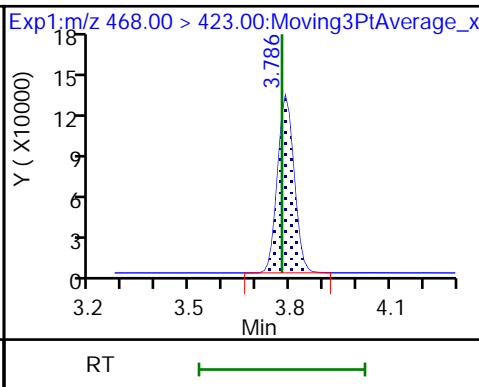
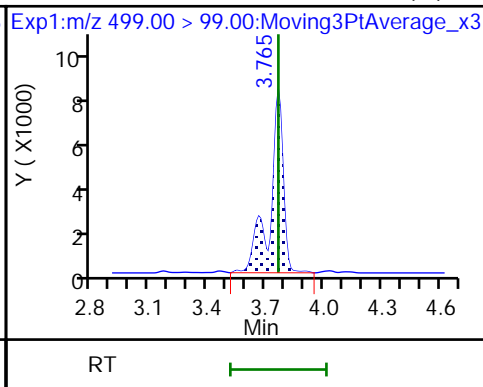
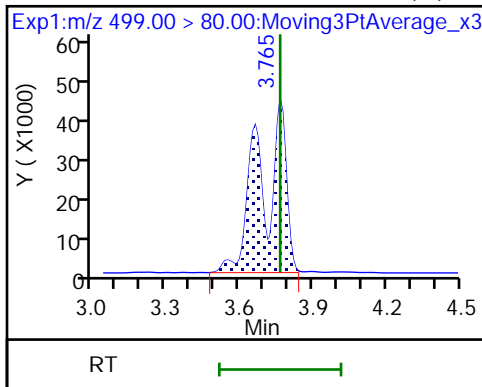
D 18 13C4 PFOS

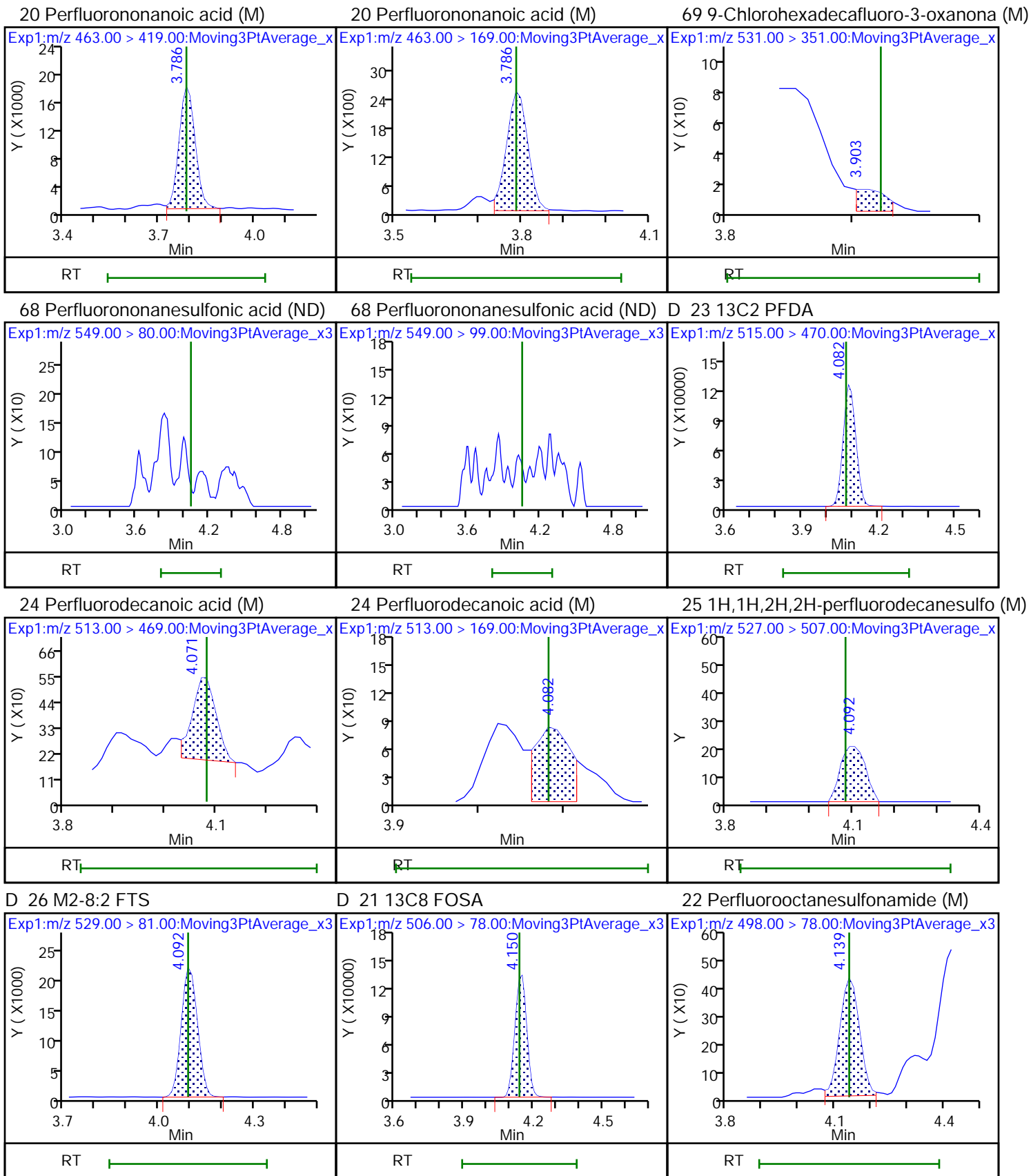


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

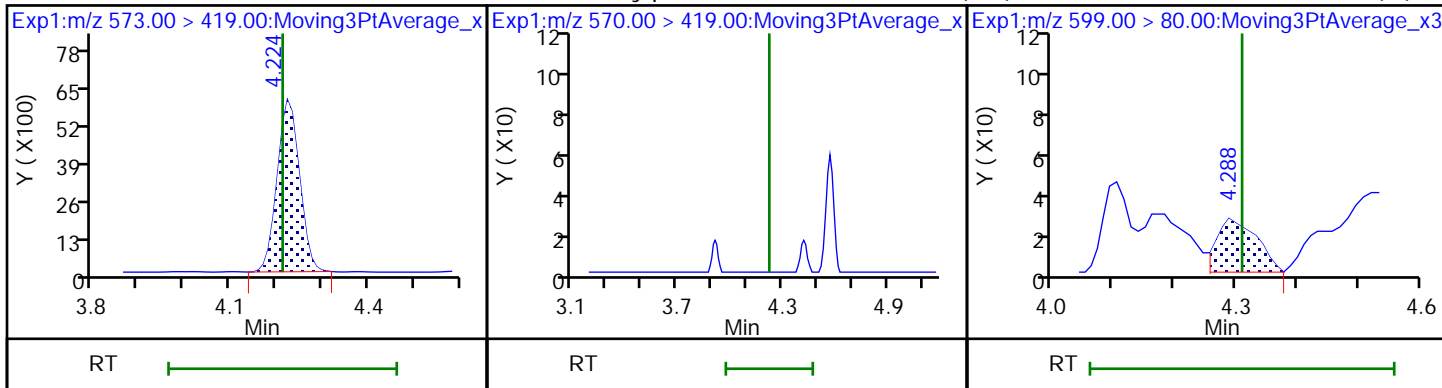
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

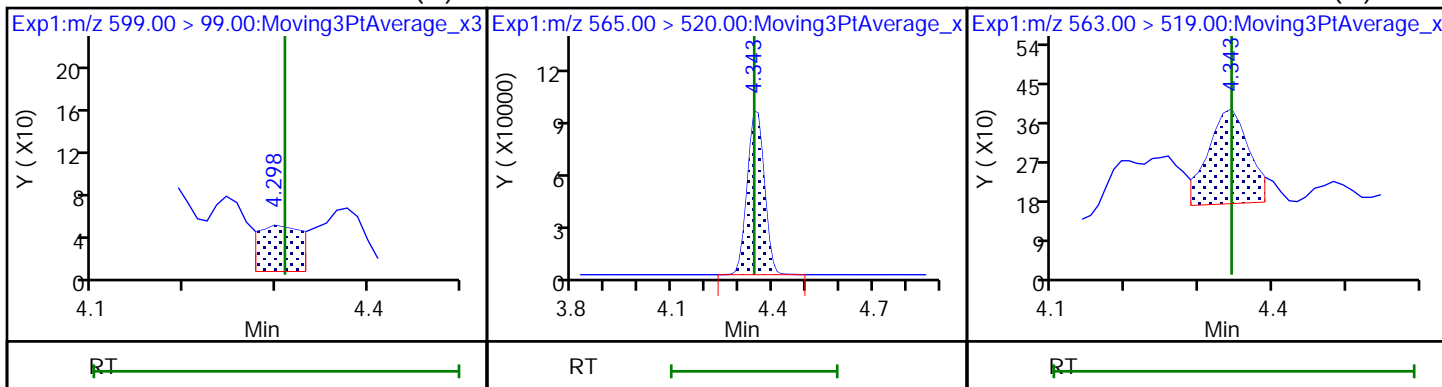
28 N-methylperfluorooctanesulfonami (ND) Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

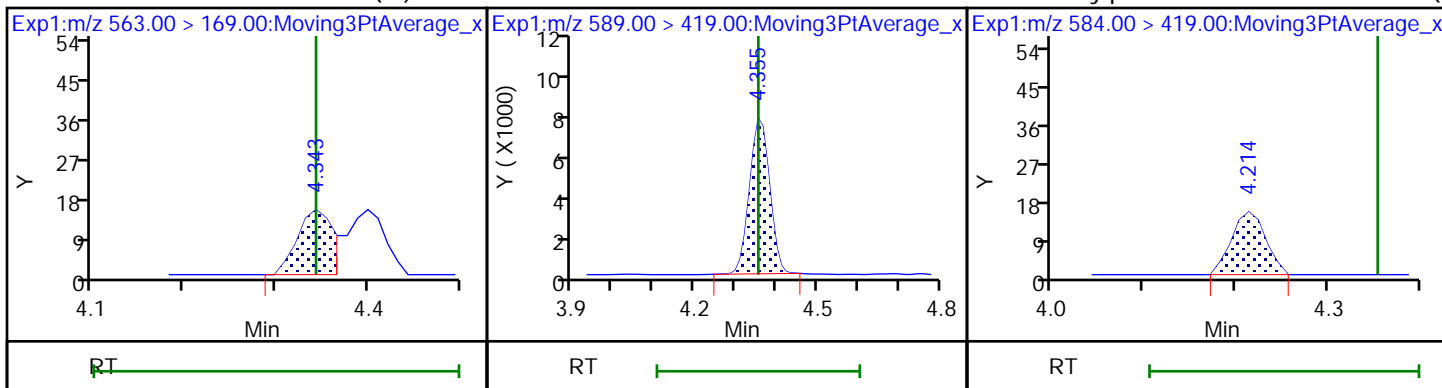
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

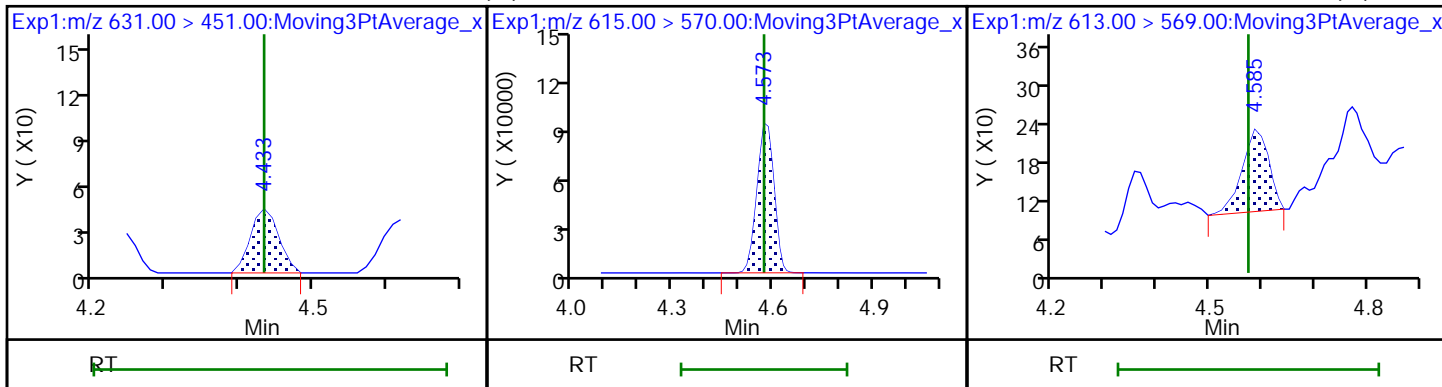
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec (M)

36 13C2 PFDoA

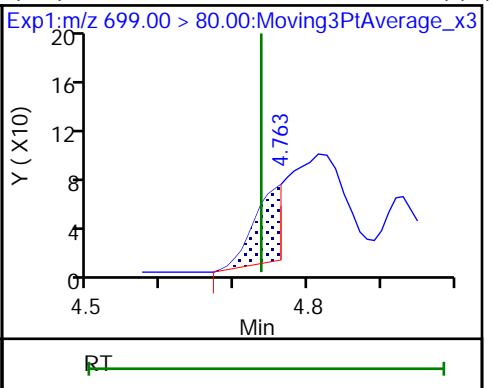
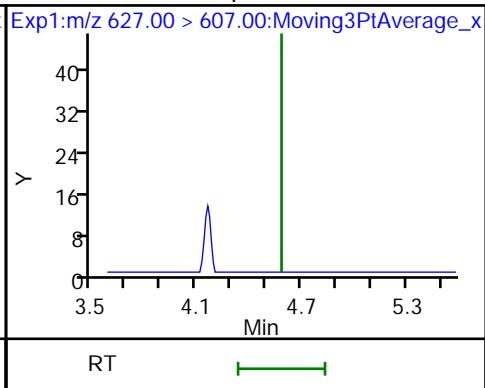
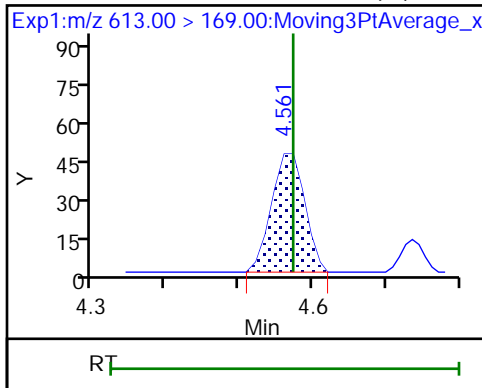
37 Perfluorododecanoic acid (M)



37 Perfluorododecanoic acid (M)

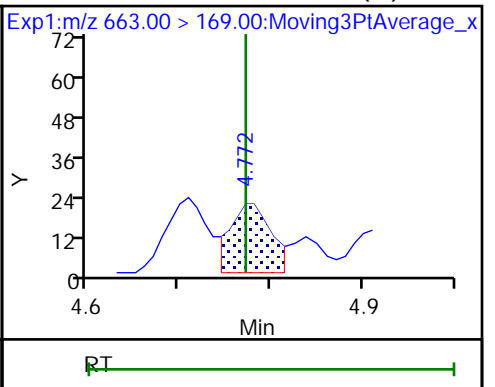
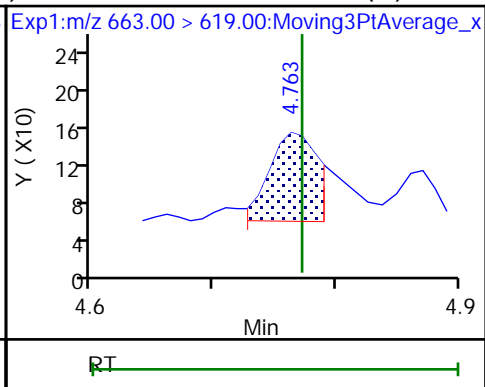
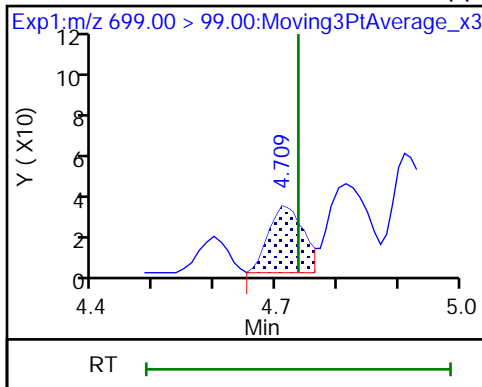
74 1H,1H,2H,2H-perfluorododecanesul (M)

15 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M)

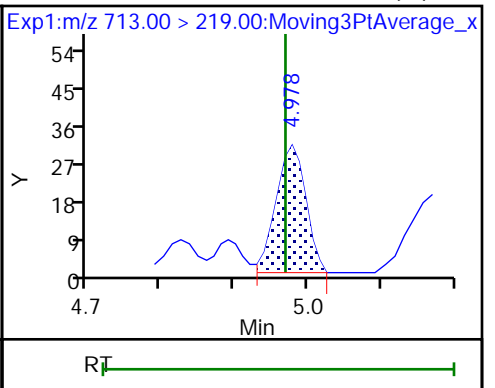
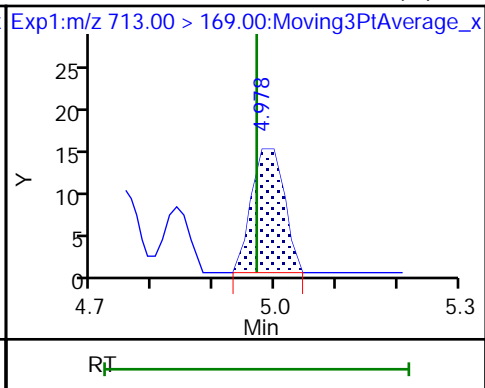
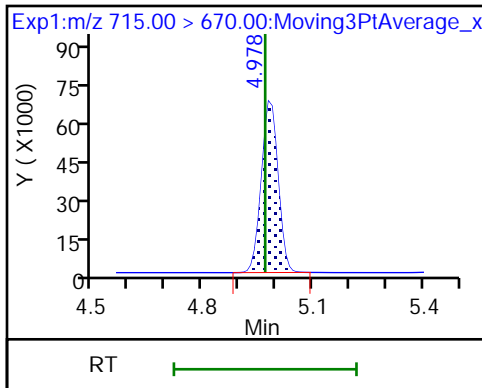
41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

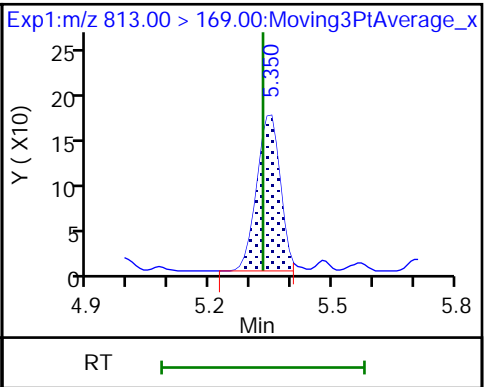
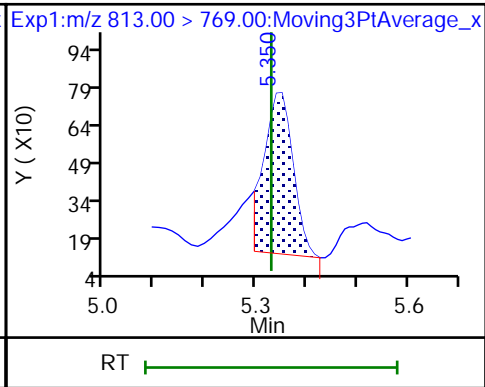
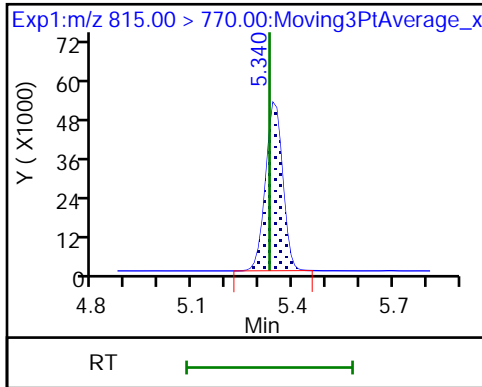
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

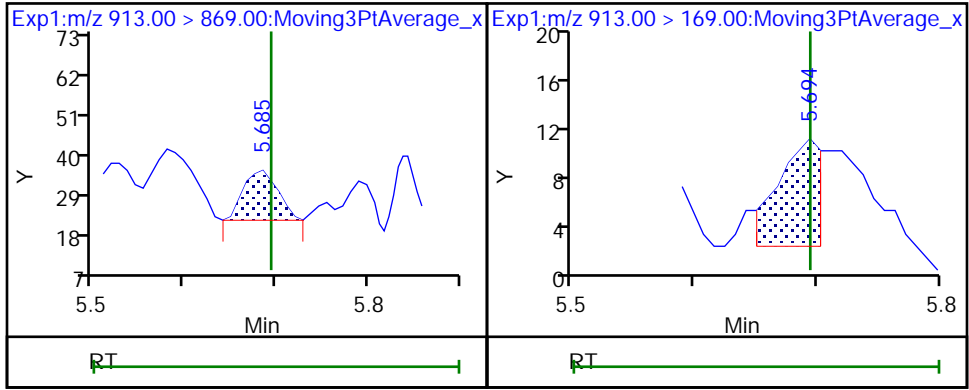
45 Perfluorohexadecanoic acid (M)

45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)





Eurofins TestAmerica, Burlington

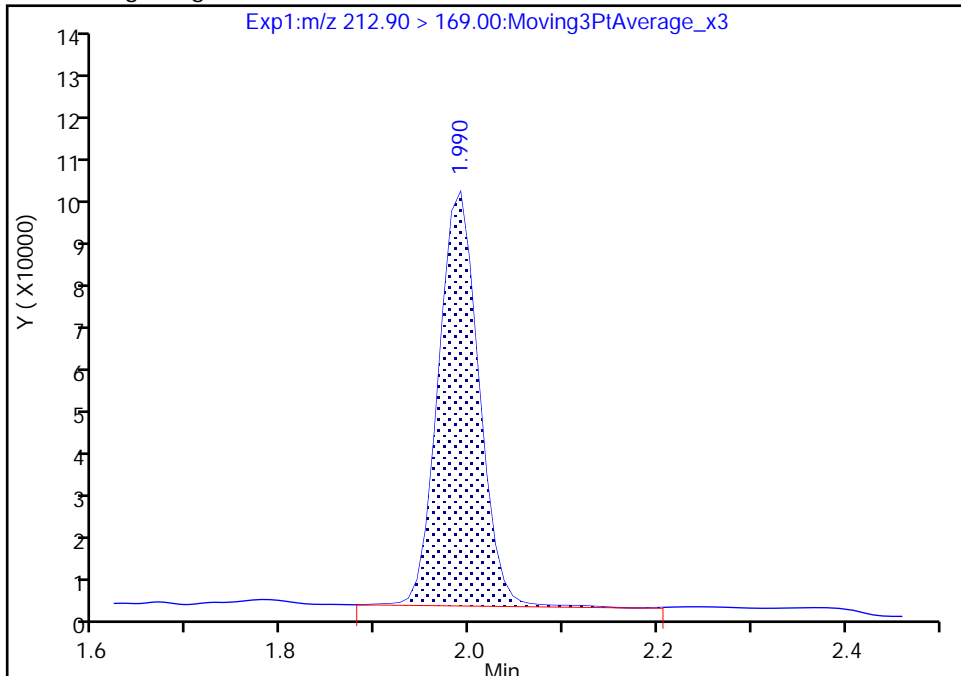
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

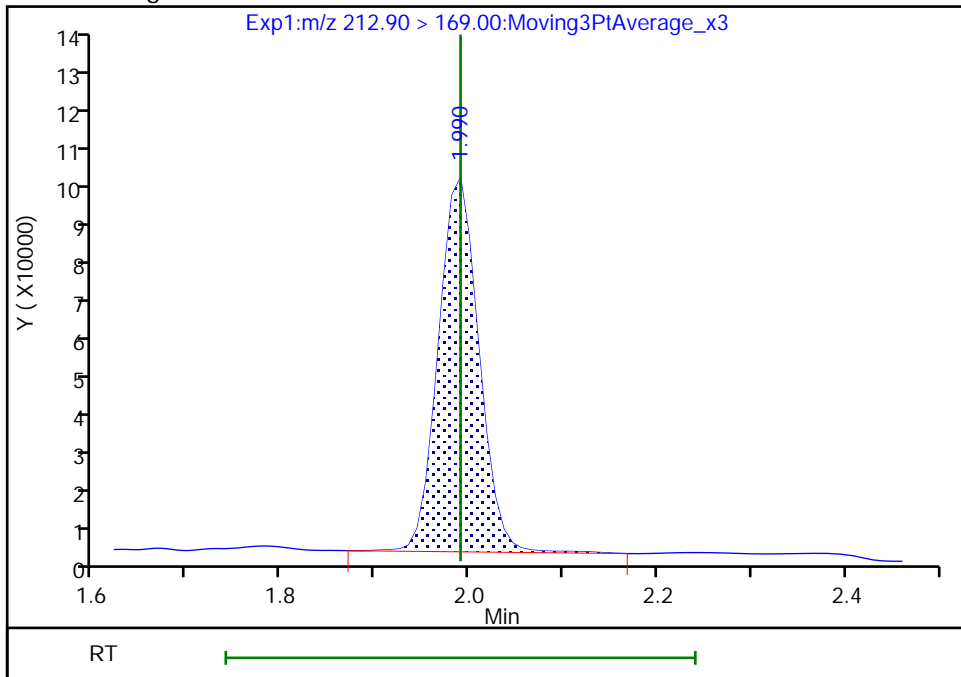
RT: 1.99  
Area: 288772  
Amount: 0.479719  
Amount Units: ng/ml

Processing Integration Results



RT: 1.99  
Area: 288564  
Amount: 0.479373  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:13:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

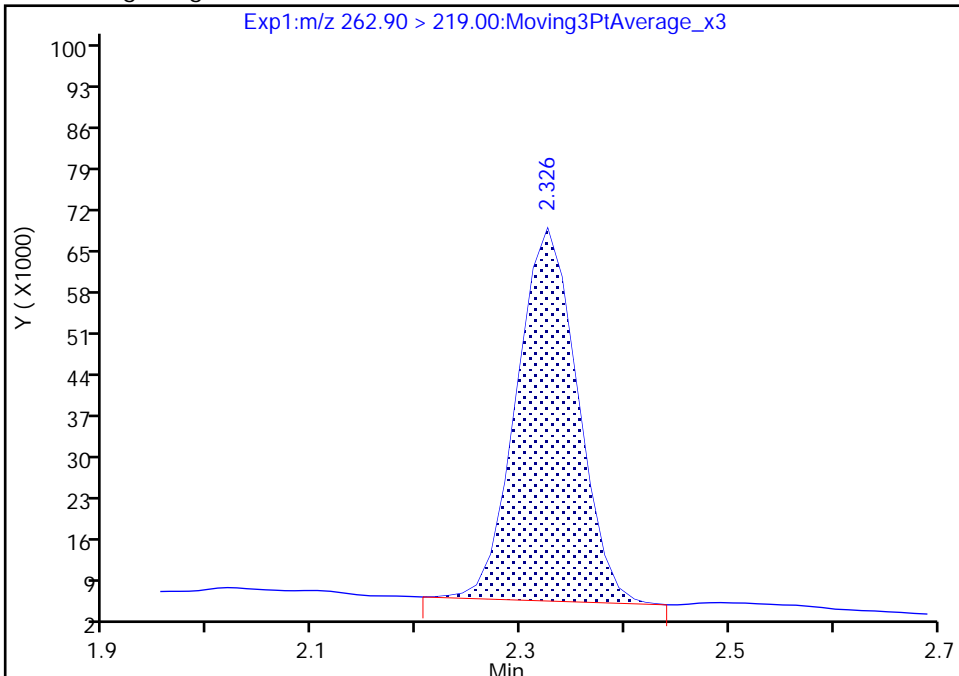
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

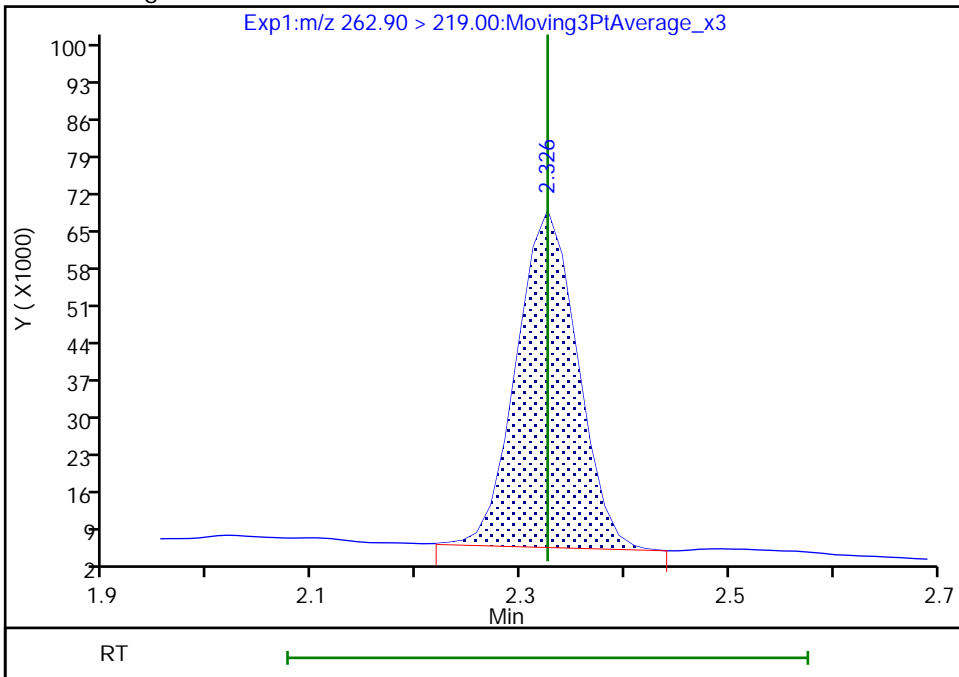
RT: 2.33  
Area: 257153  
Amount: 0.472766  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 257474  
Amount: 0.473356  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:13:28  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

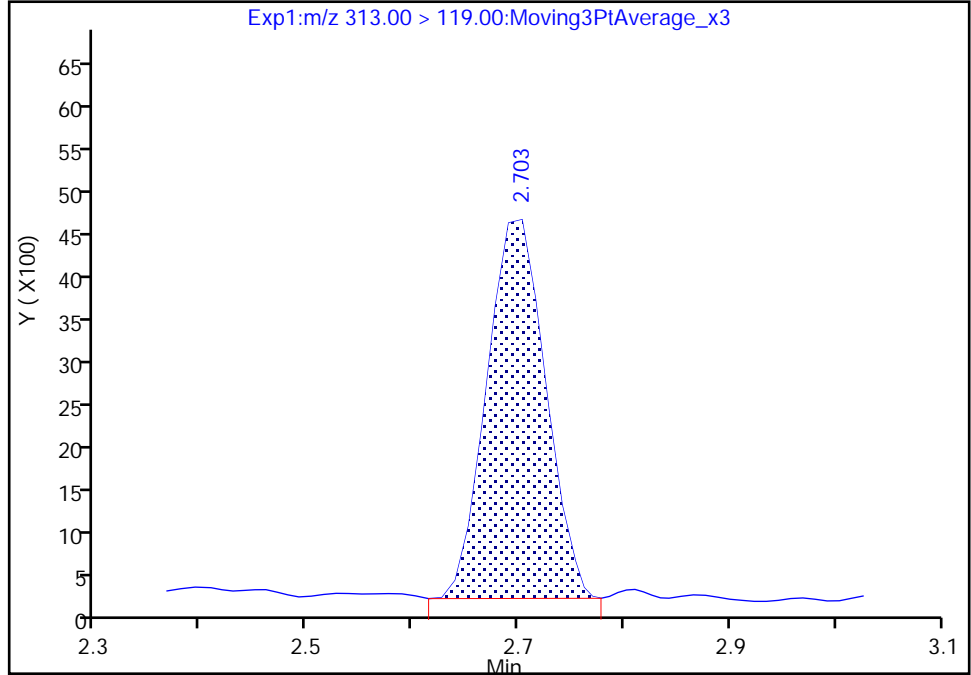
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

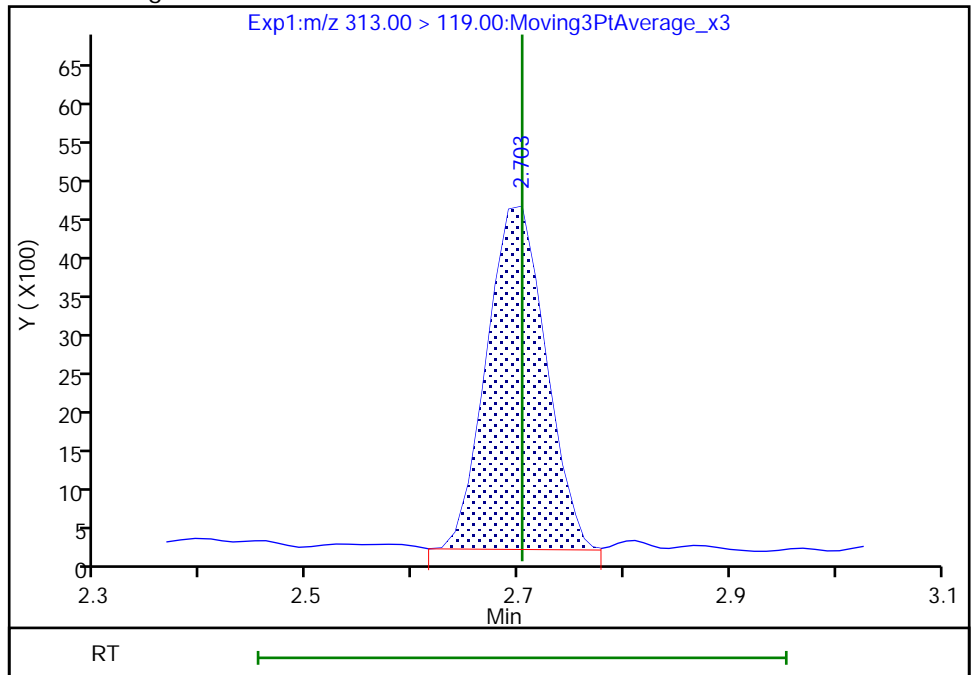
RT: 2.70  
Area: 17151  
Amount: 0.393260  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 17249  
Amount: 0.391249  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:14:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

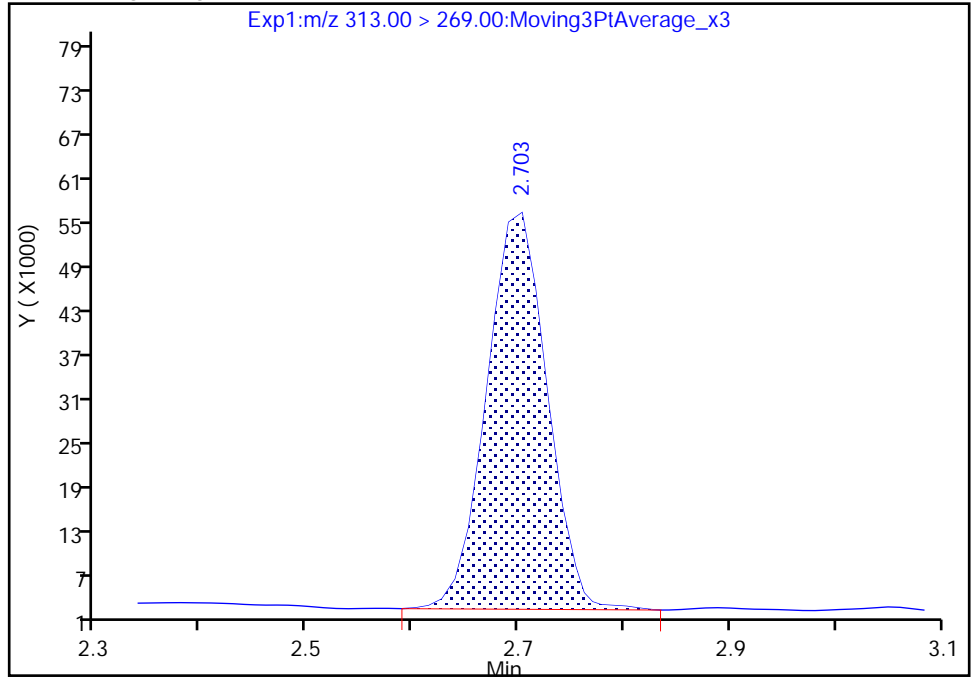
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

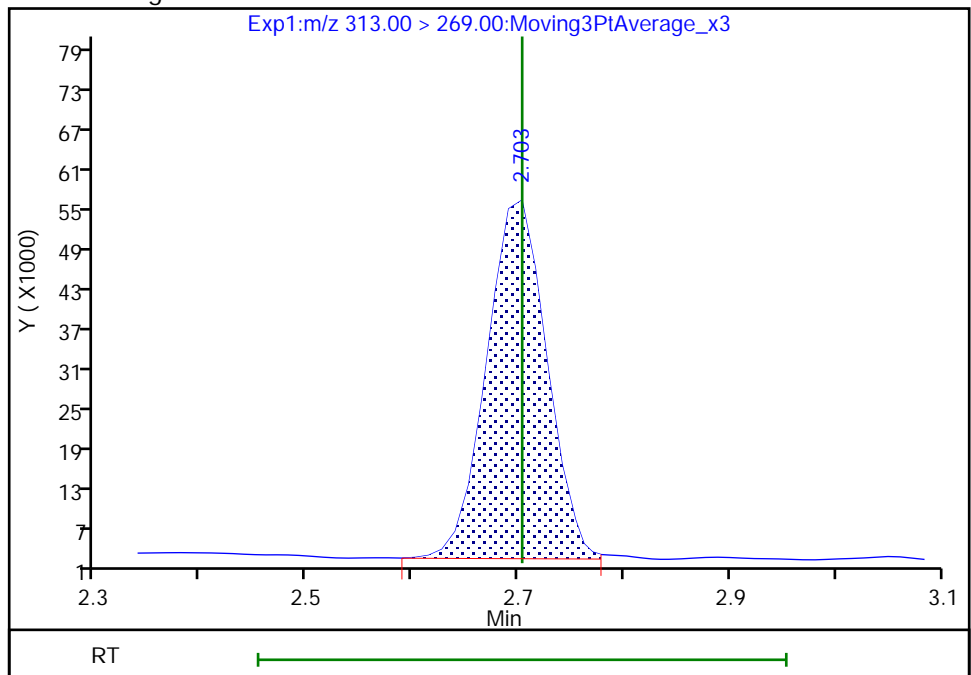
RT: 2.70  
Area: 212175  
Amount: 0.393260  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 211090  
Amount: 0.391249  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:14:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

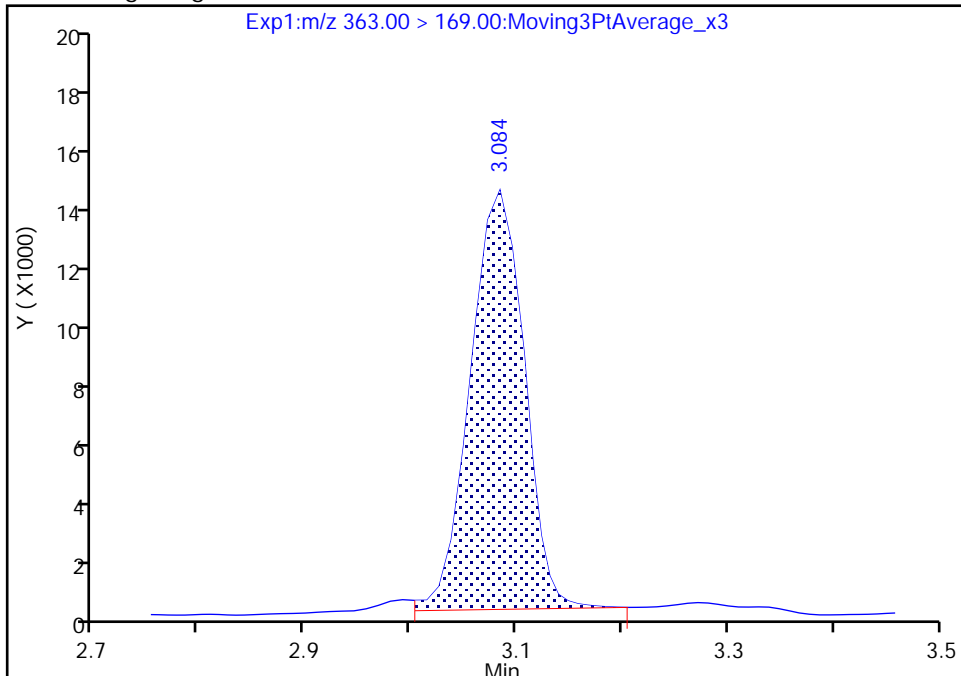
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

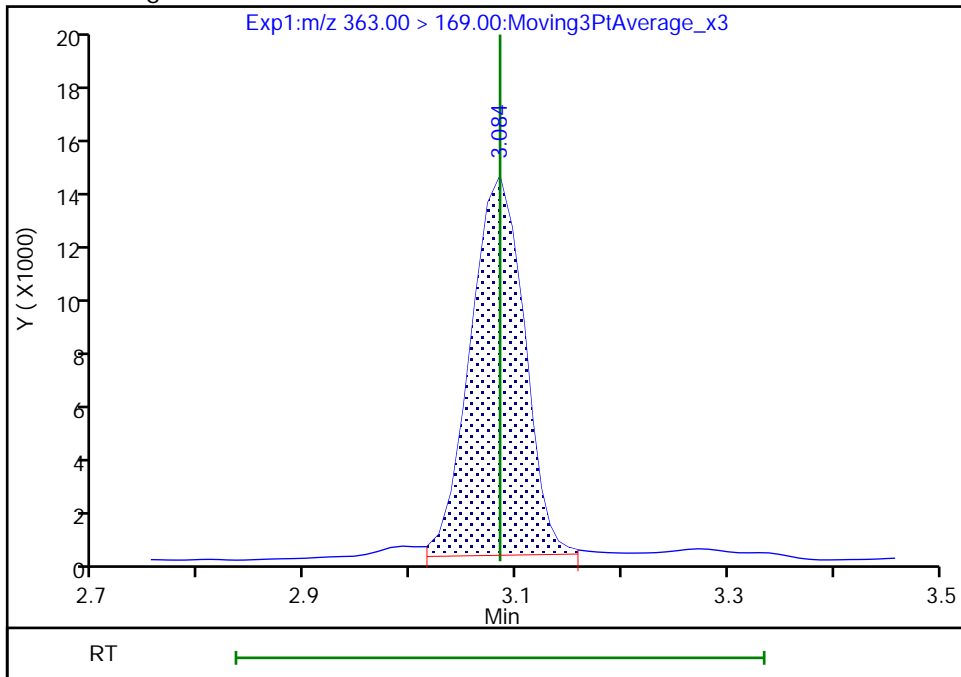
RT: 3.08  
Area: 49187  
Amount: 0.366323  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 48916  
Amount: 0.364082  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:15:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

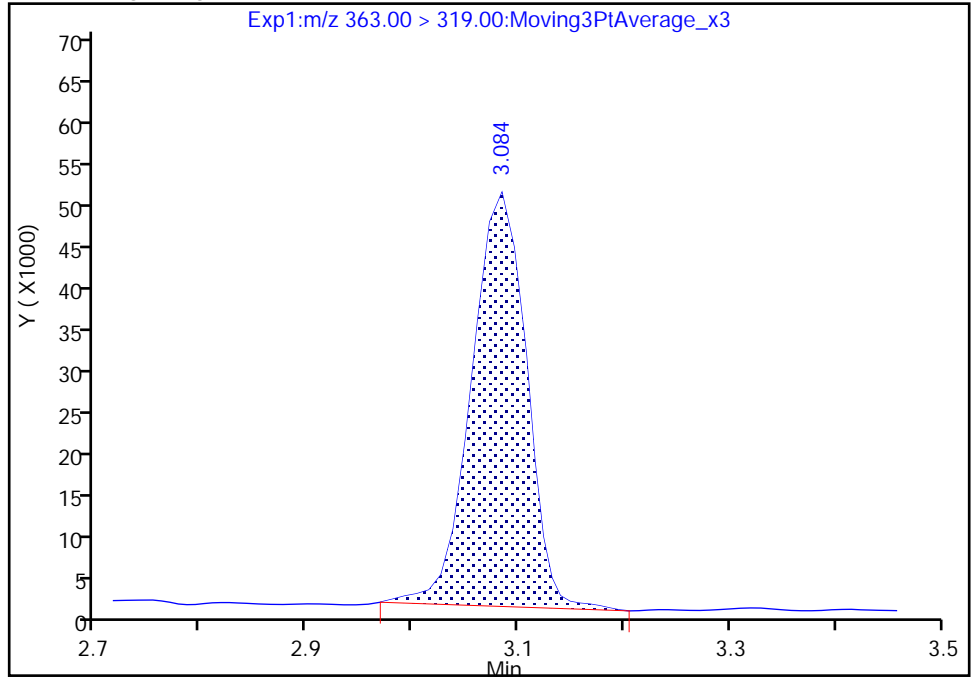
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

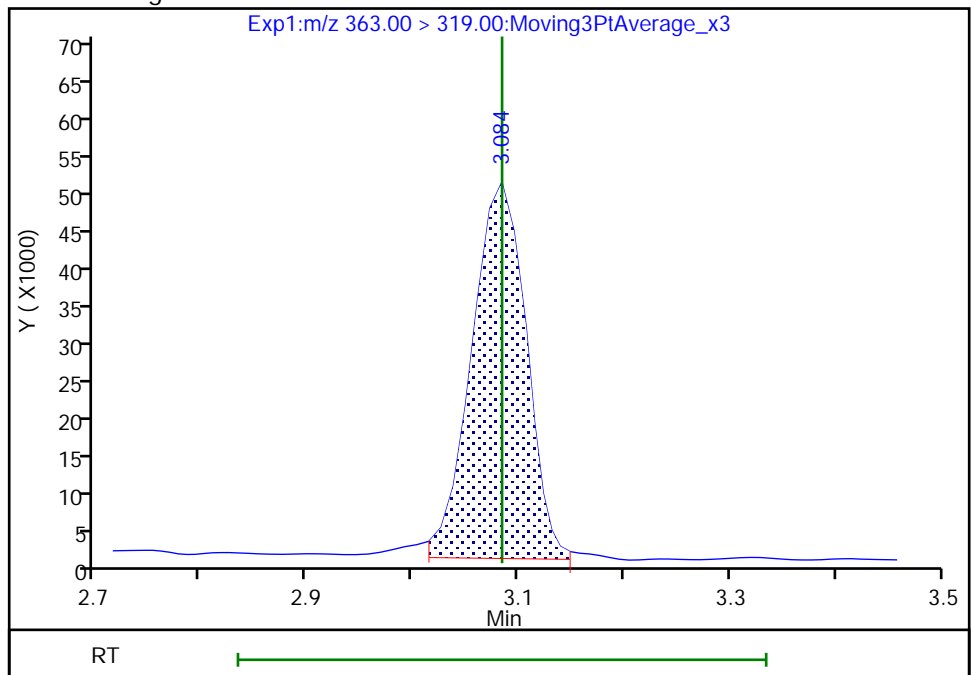
RT: 3.08  
Area: 178340  
Amount: 0.366323  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 177249  
Amount: 0.364082  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:16:00

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

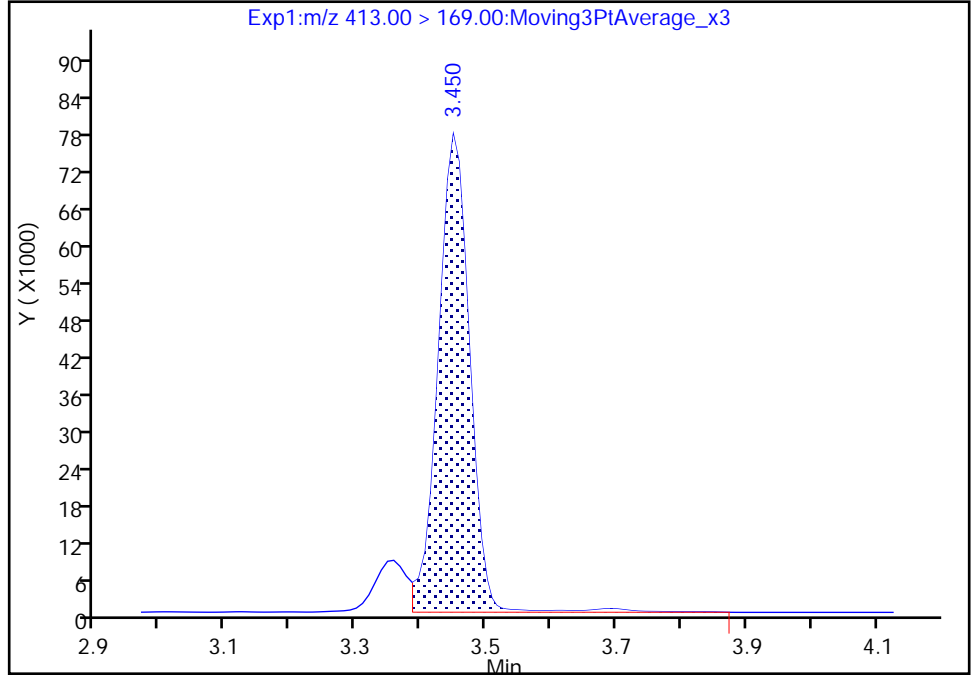
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

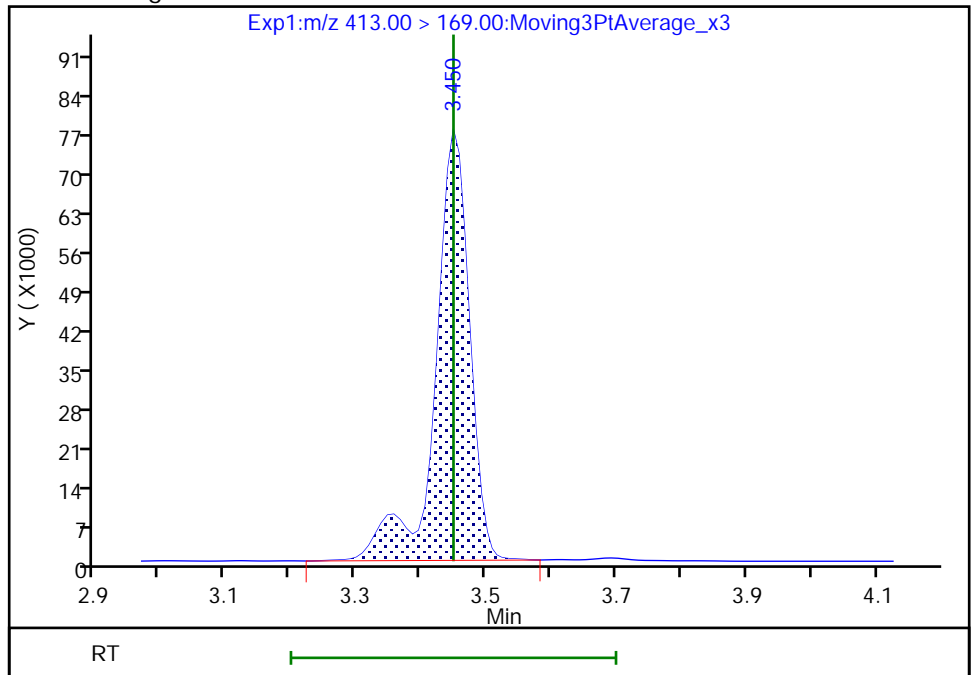
RT: 3.45  
Area: 261511  
Amount: 1.169586  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 284492  
Amount: 1.171644  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:17:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

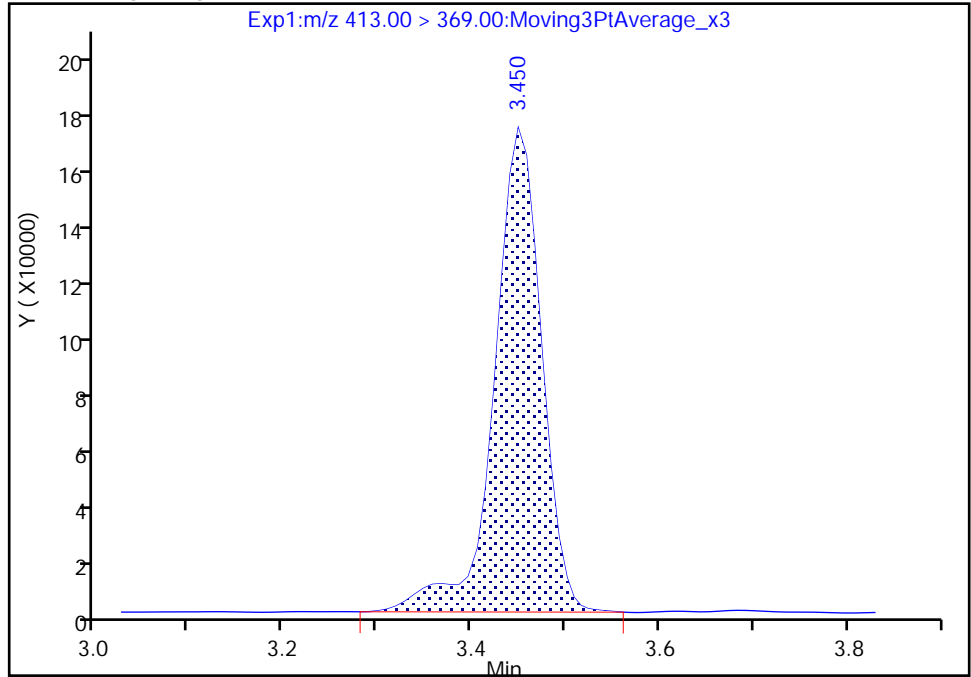
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

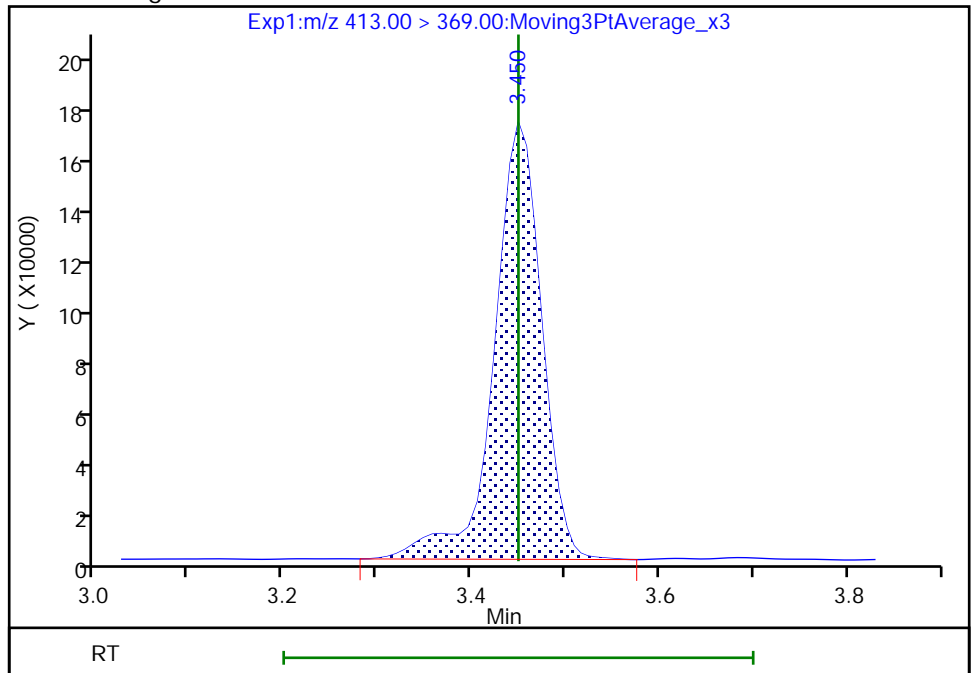
RT: 3.45  
Area: 600217  
Amount: 1.169586  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 601273  
Amount: 1.171644  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:17:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

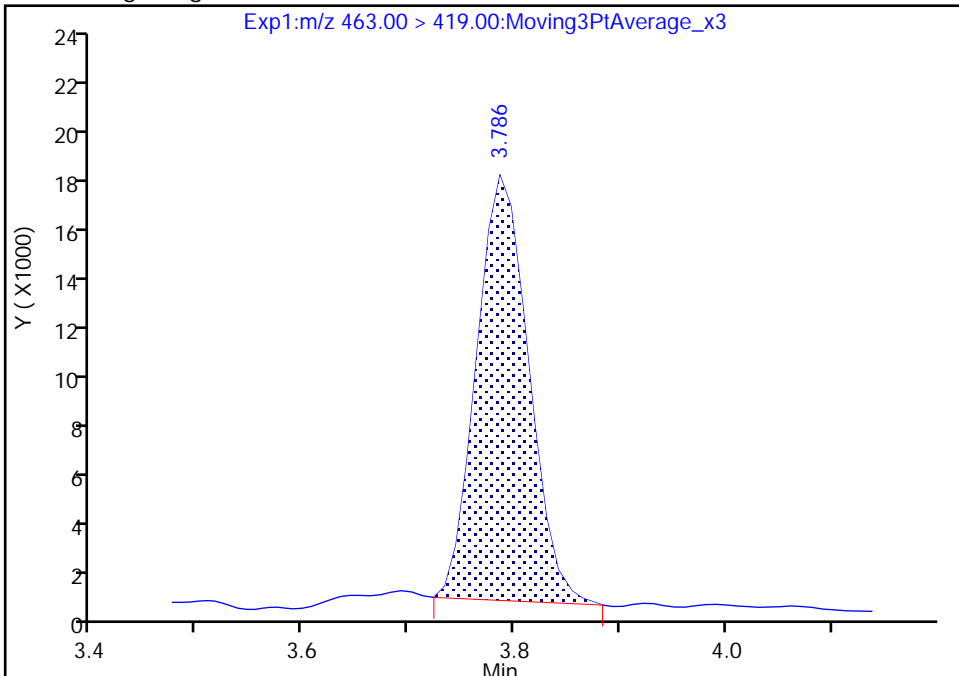
Data File:	\\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d				
Injection Date:	30-Sep-2020 21:08:31	Instrument ID:	LC812		
Lims ID:	480-175657-C-6-A	Lab Sample ID:	200-175657-6		
Client ID:	MW-5B				
Operator ID:	lc812tech	ALS Bottle#:	22	Worklist Smp#:	22
Injection Vol:	20.0 ul	Dil. 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

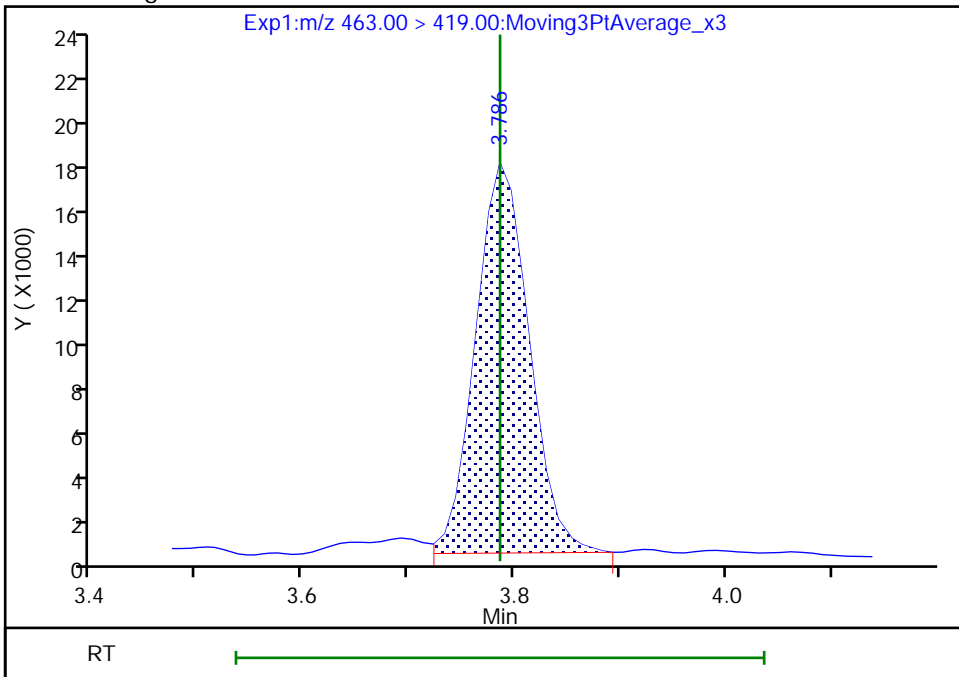
RT: 3.79  
Area: 56871  
Amount: 0.153470  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 59125  
Amount: 0.159553  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:18:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

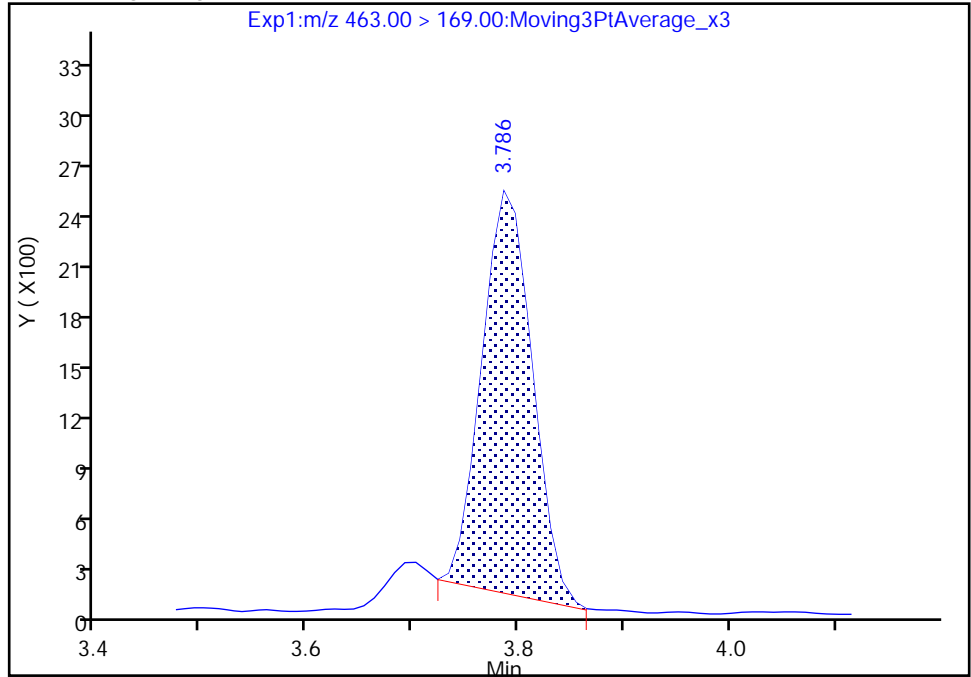
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

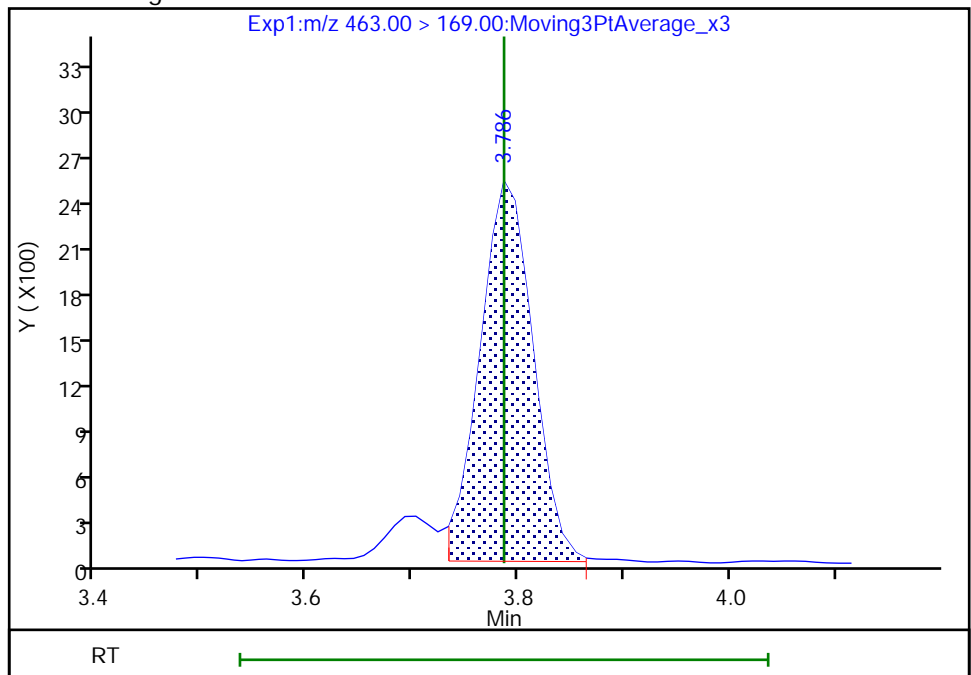
RT: 3.79  
Area: 7820  
Amount: 0.153470  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 8549  
Amount: 0.159553  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:18:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

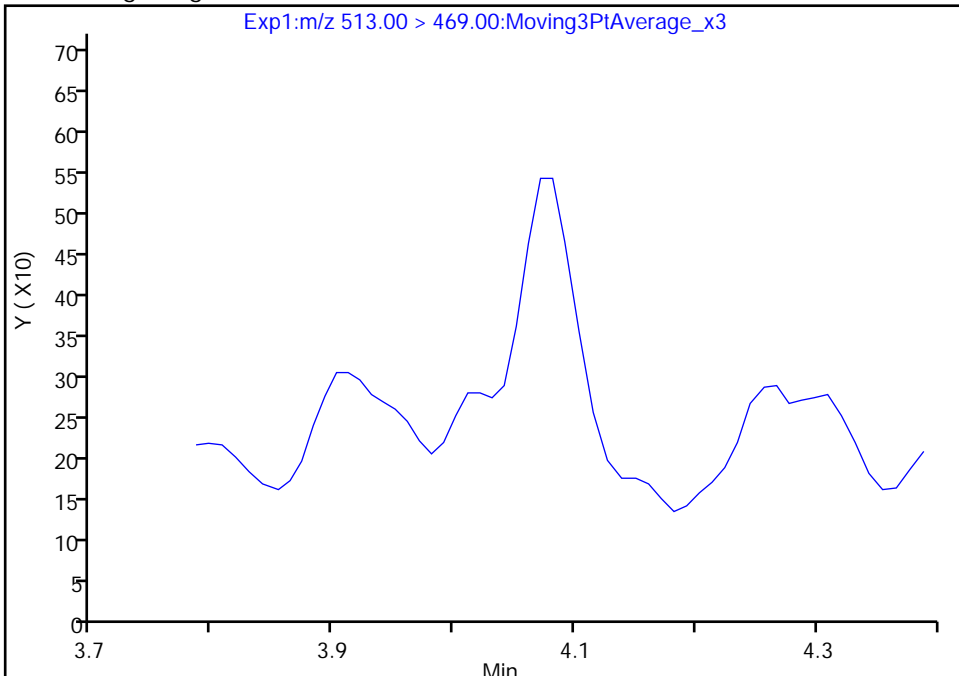
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

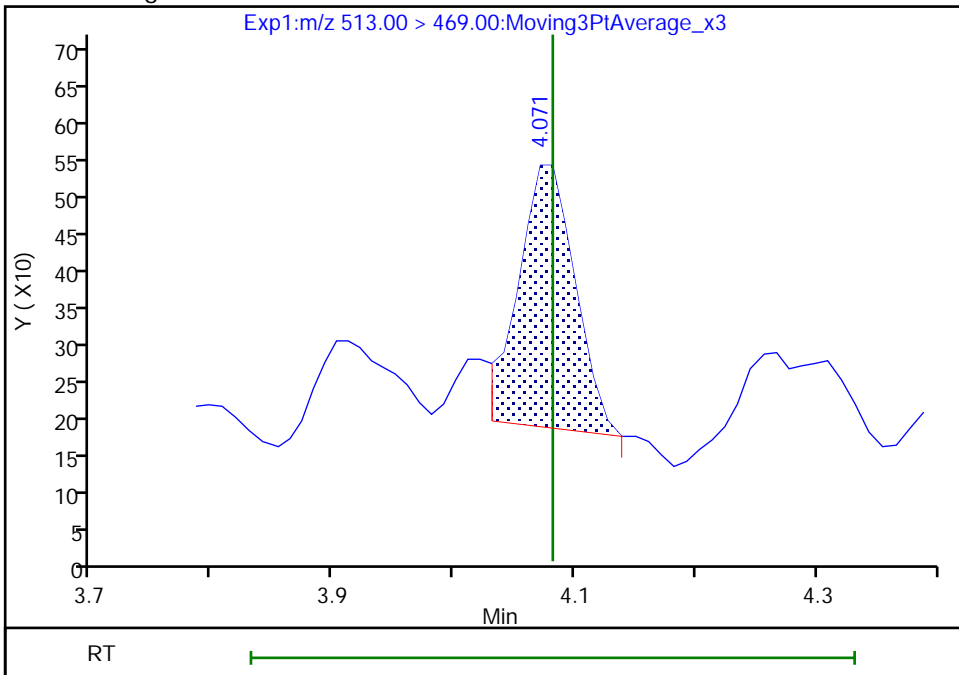
Signal: 1

Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 4.07  
Area: 1152  
Amount: 0.003429  
Amount Units: ng/ml

Reviewer: manopan, 01-Oct-2020 15:19:06  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

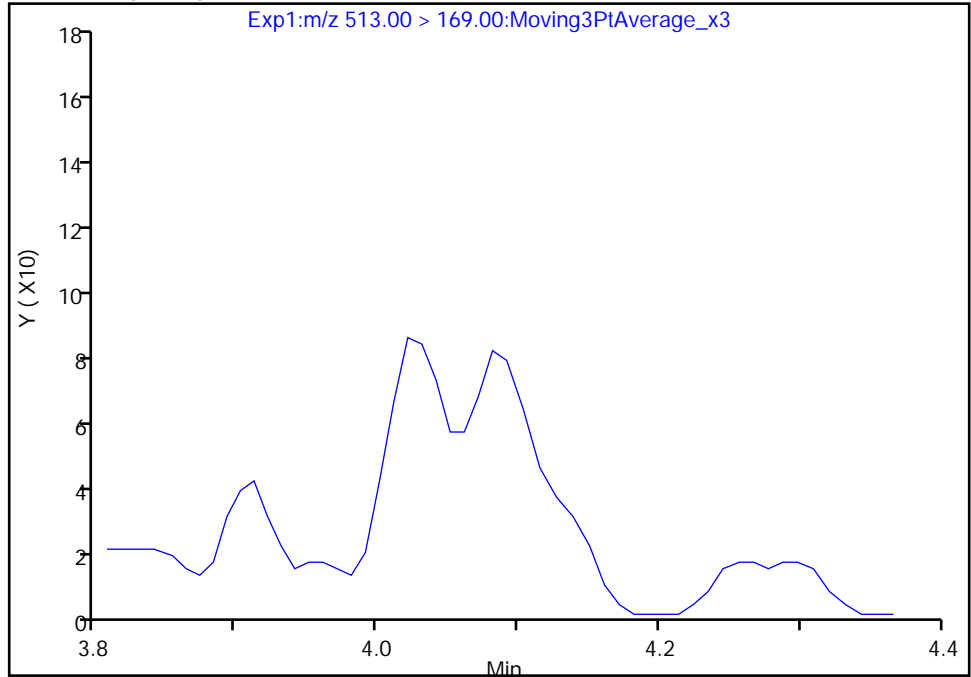
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

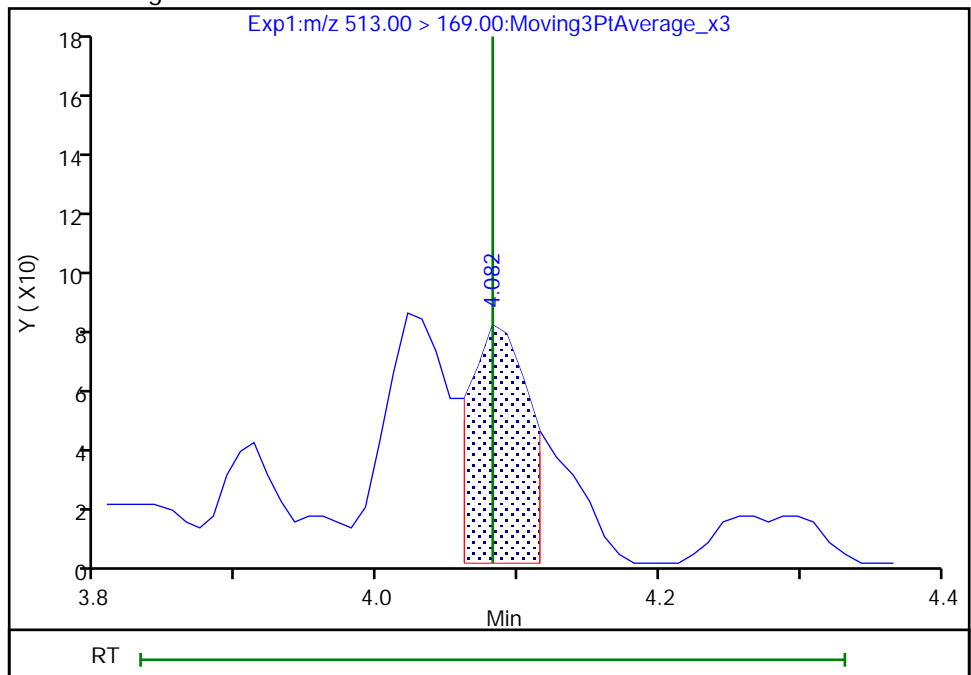
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 217  
Amount: 0.003429  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:19:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

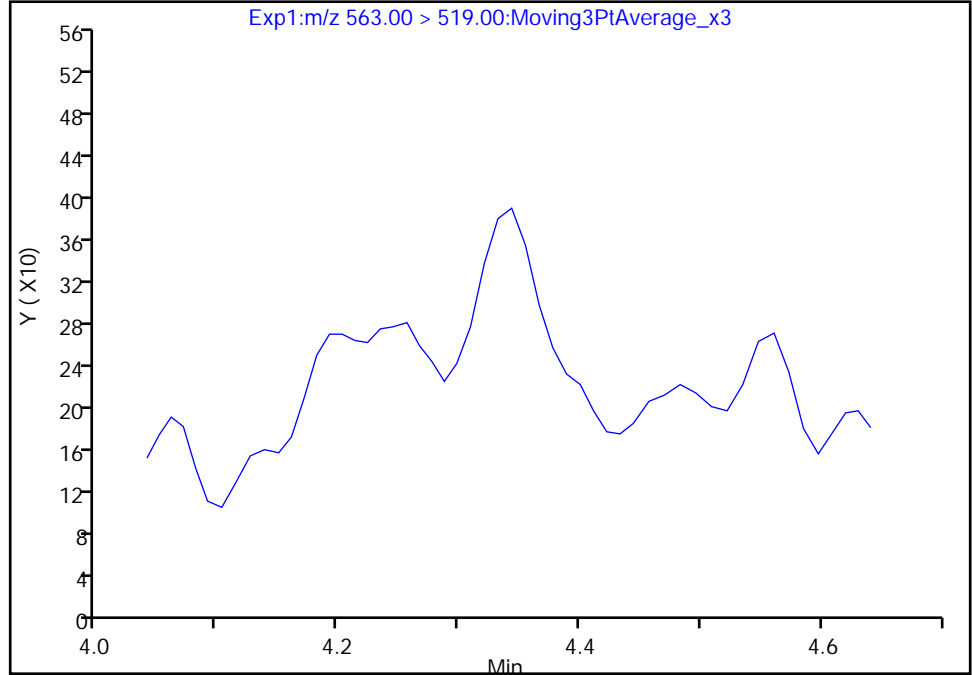
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

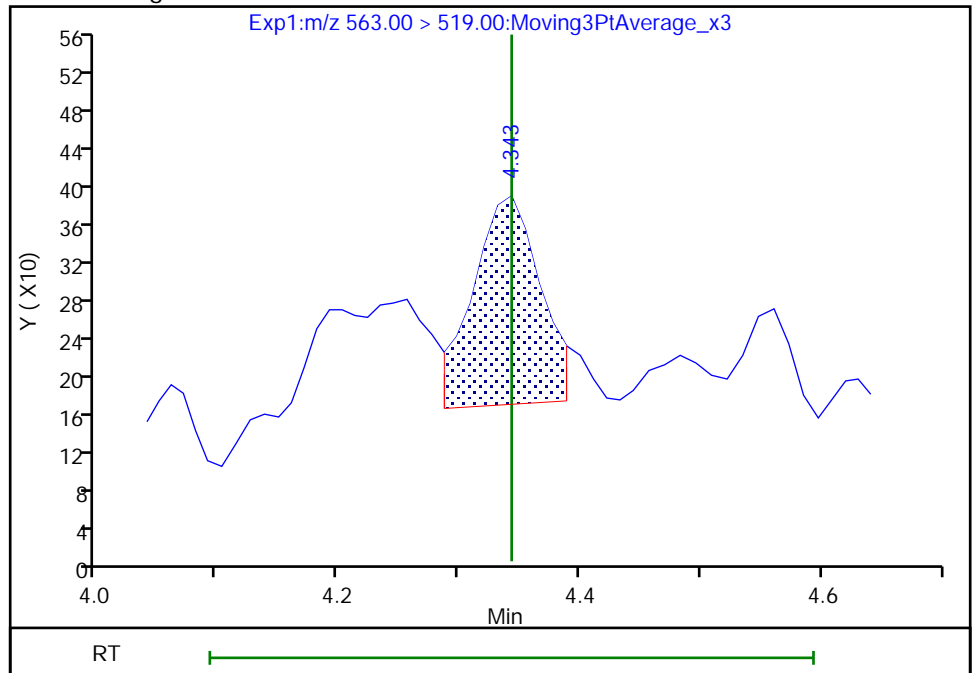
Not Detected  
Expected RT: 4.34

Processing Integration Results



RT: 4.34  
Area: 838  
Amount: 0.003368  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:20:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

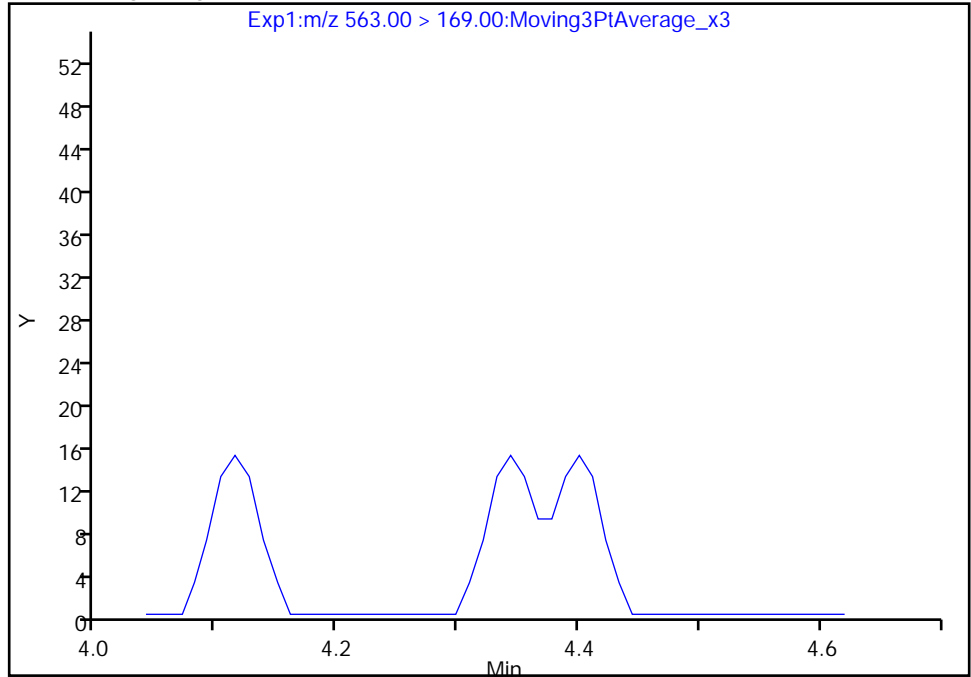
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

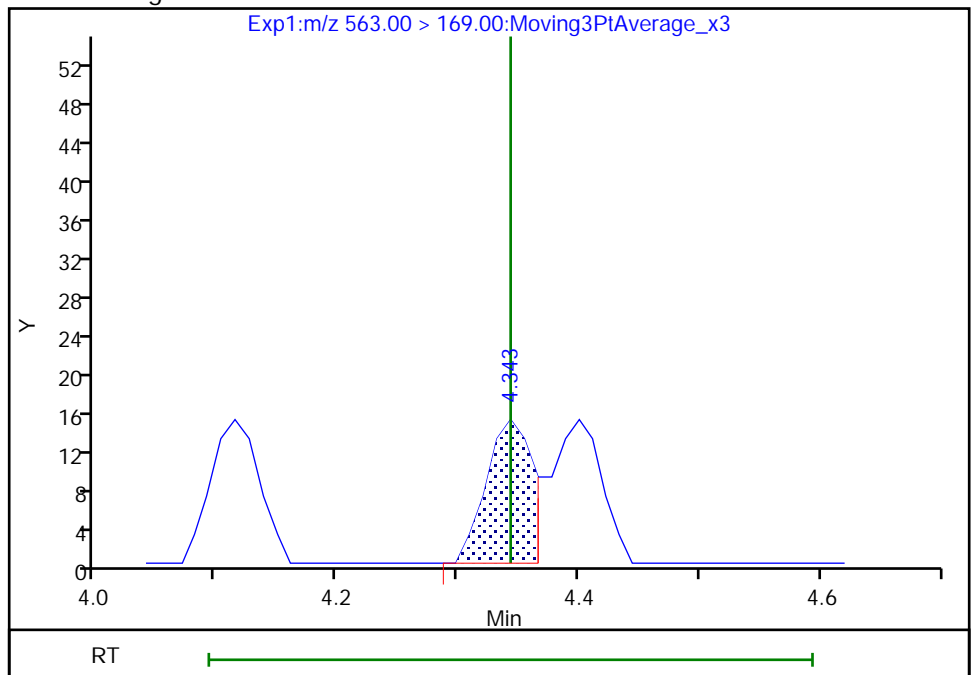
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 37  
Amount: 0.003368  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:20:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

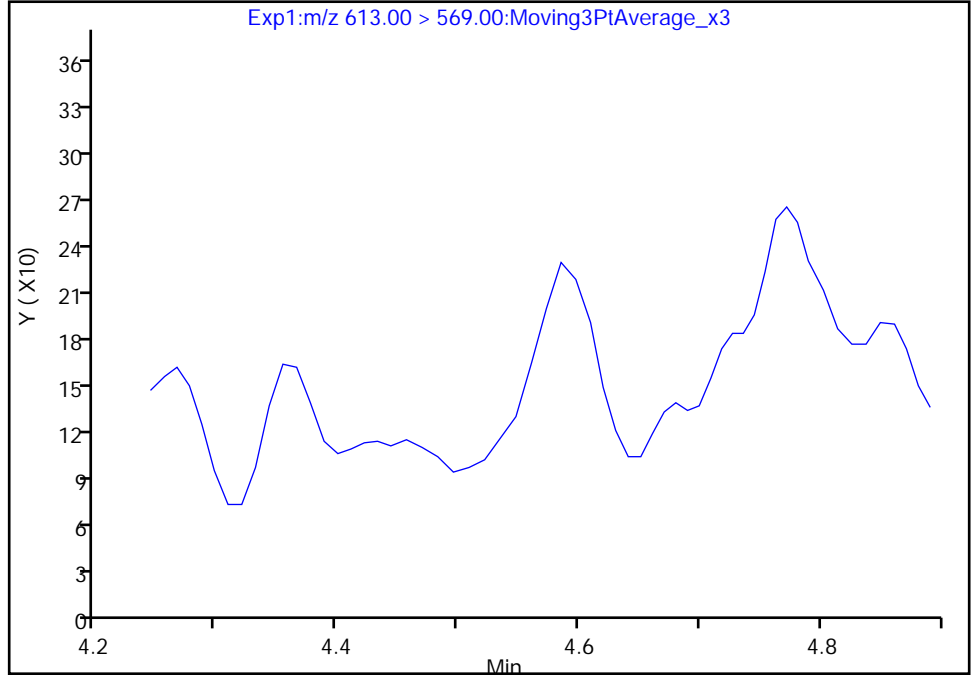
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

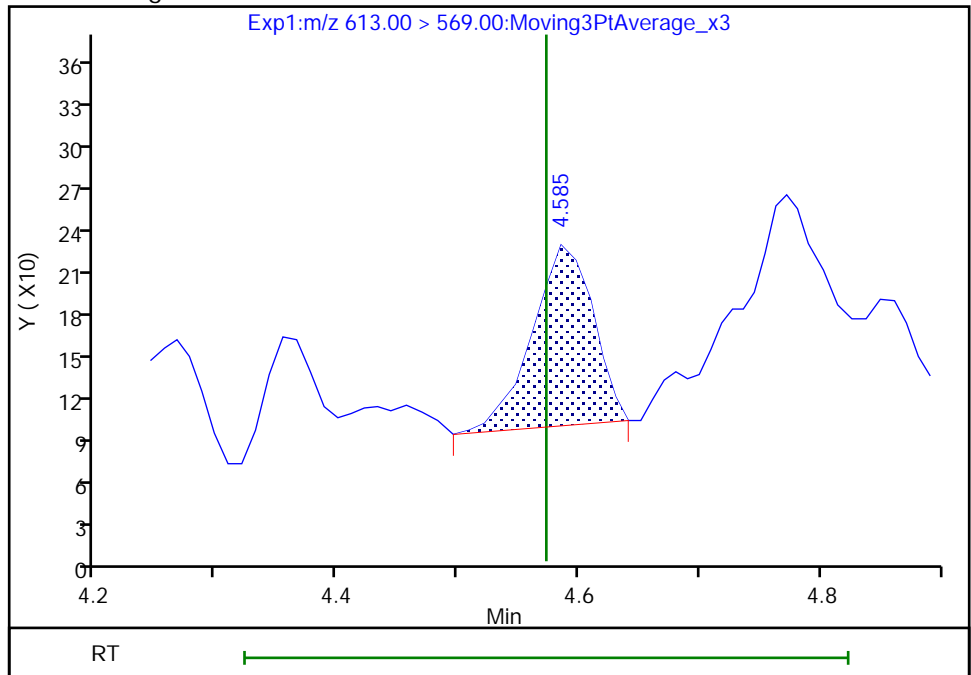
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.59  
Area: 452  
Amount: 0.001807  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:20:46  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

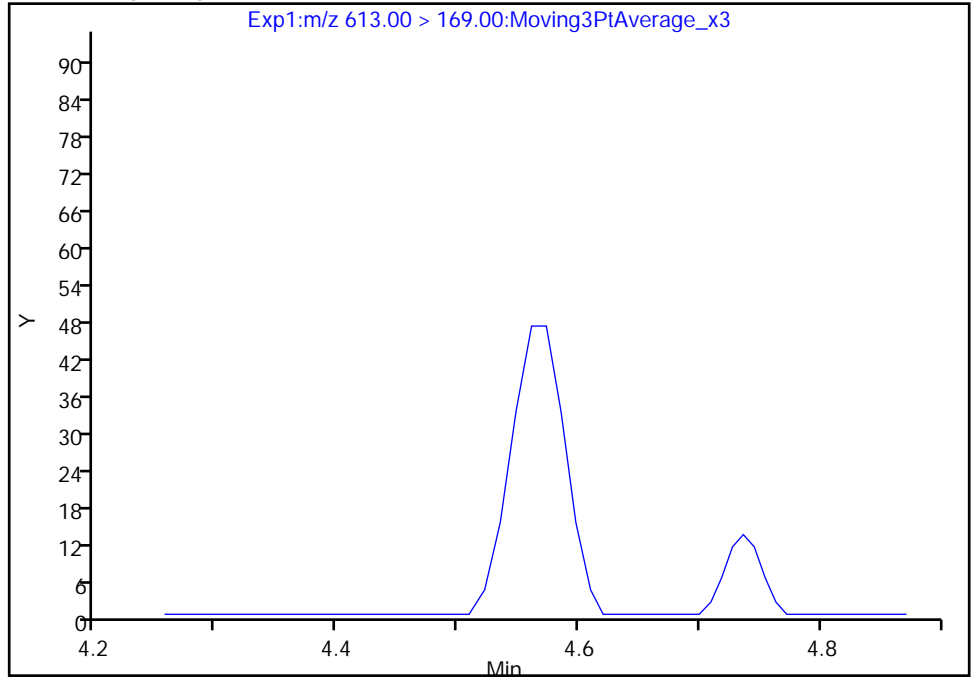
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

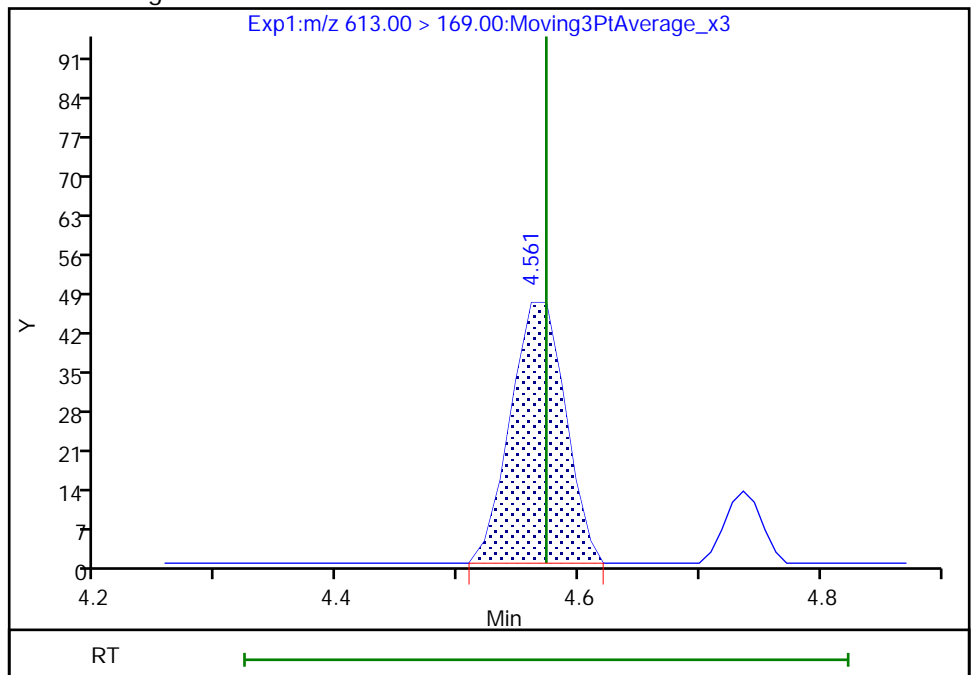
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.56  
Area: 148  
Amount: 0.001807  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:20:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

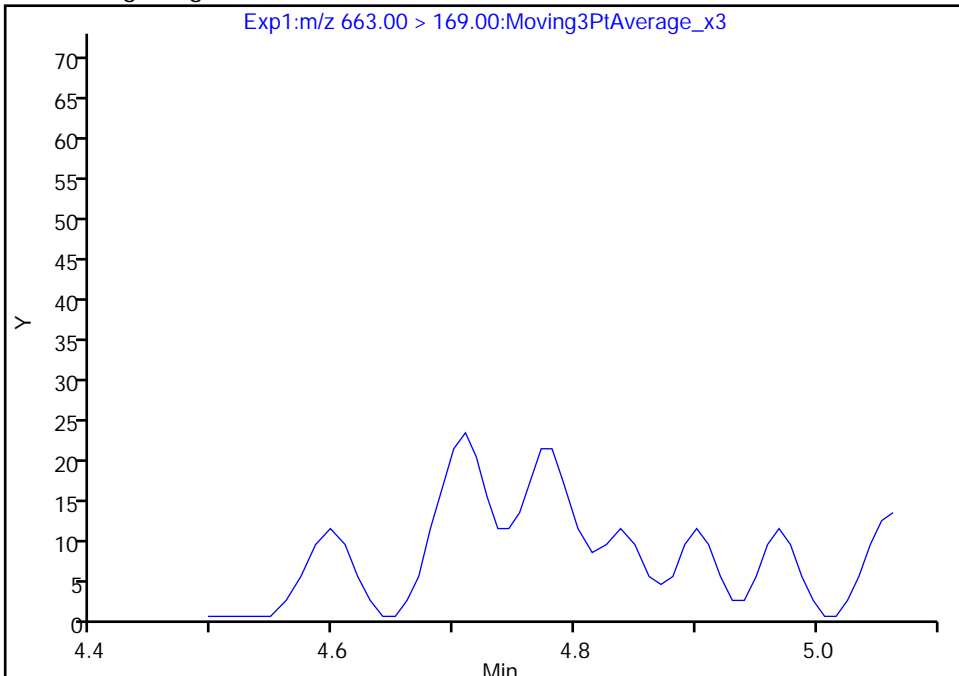
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

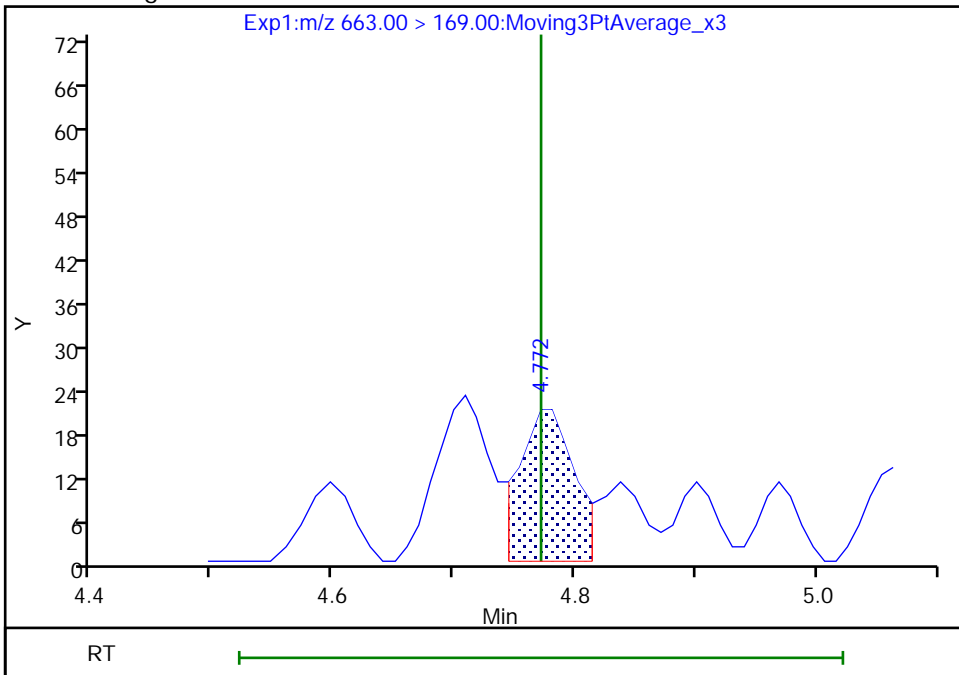
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.77  
Area: 63  
Amount: 0.001191  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:21:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

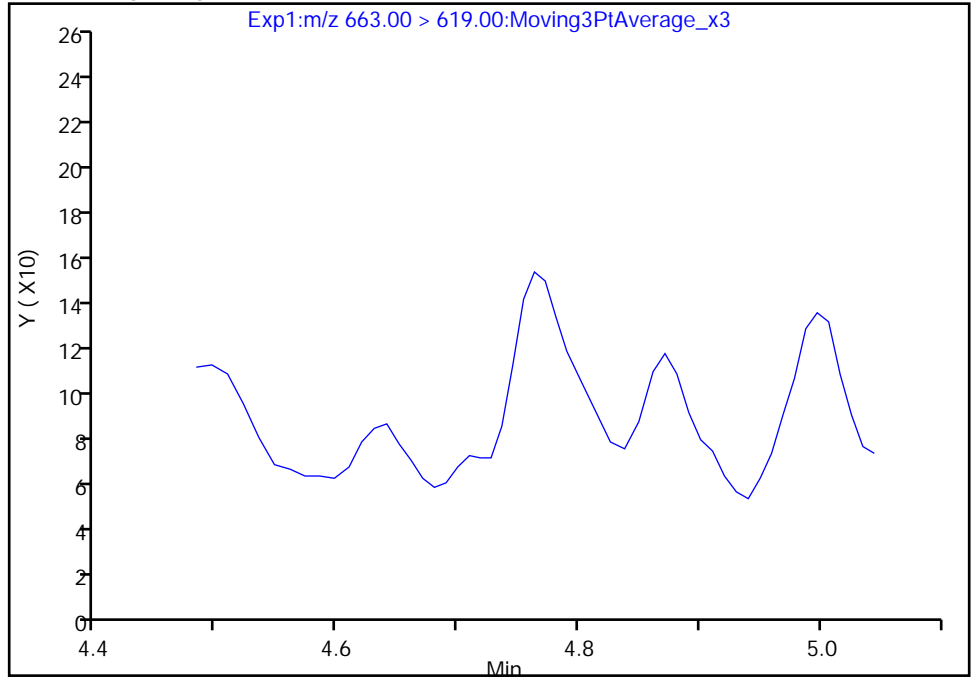
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

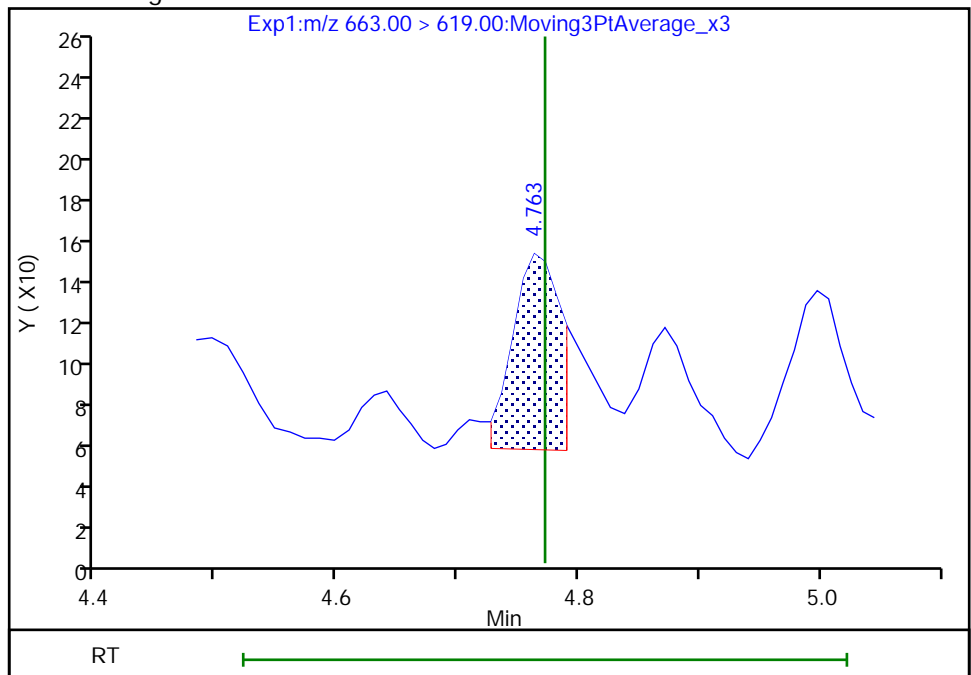
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.76  
Area: 253  
Amount: 0.001191  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

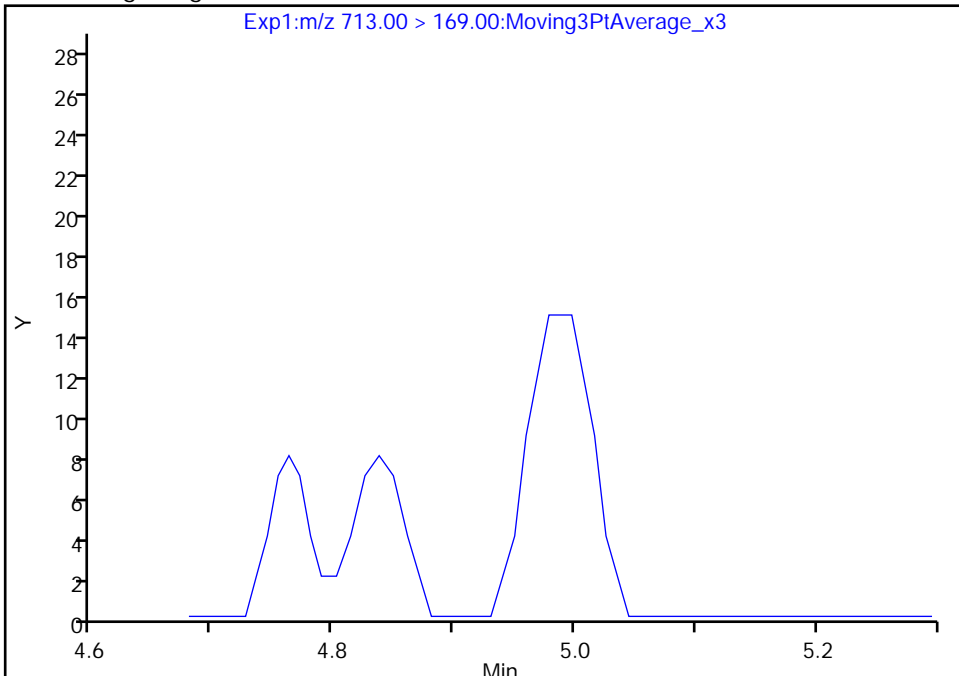
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

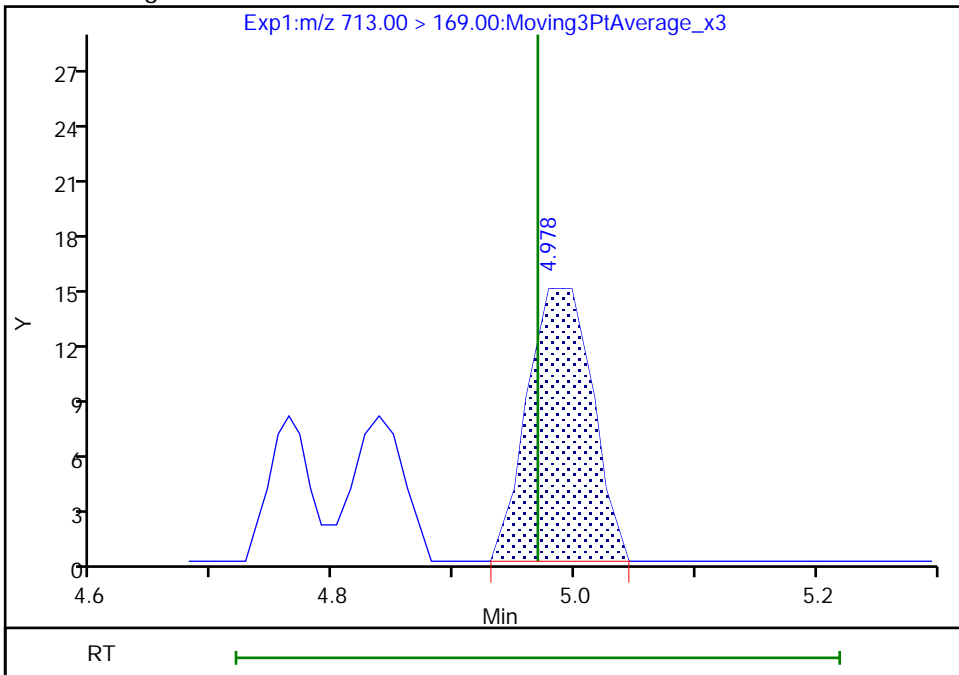
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 56  
Amount: 0.001441  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:21:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

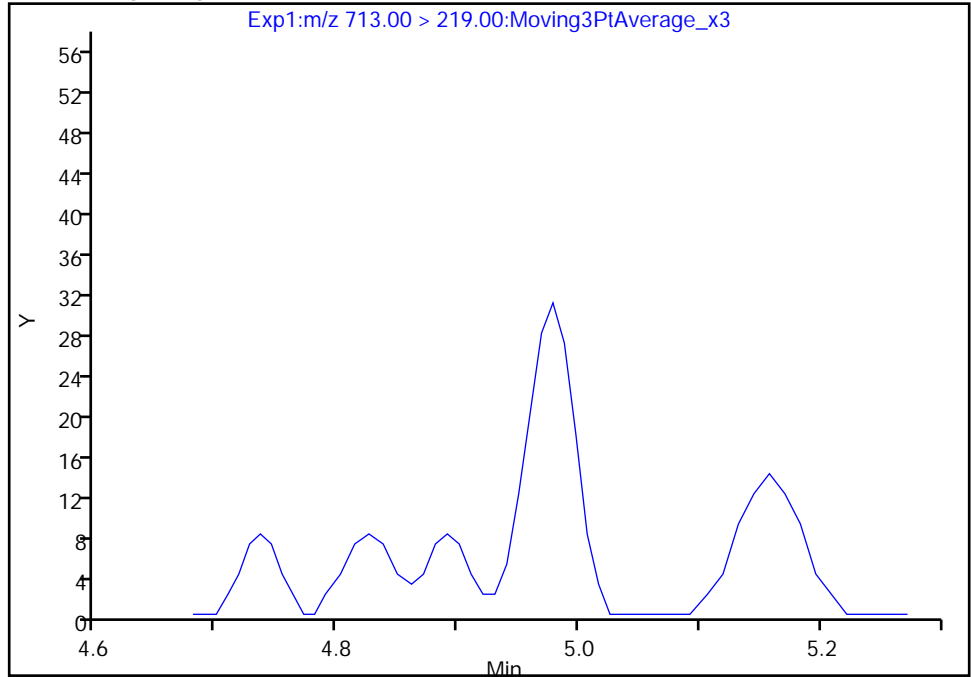
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

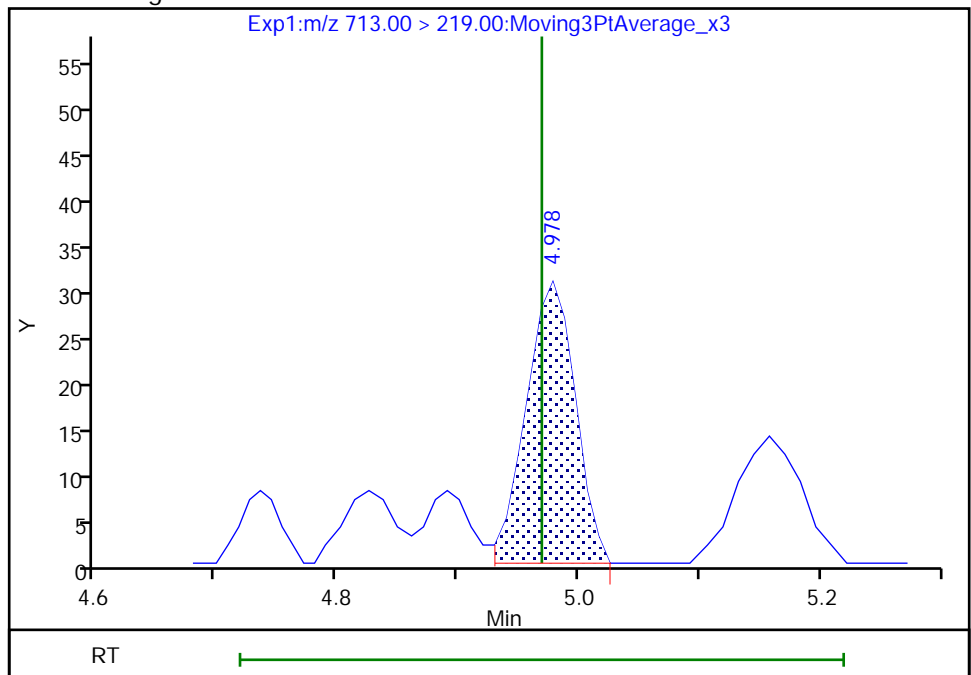
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 87  
Amount: 0.001441  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

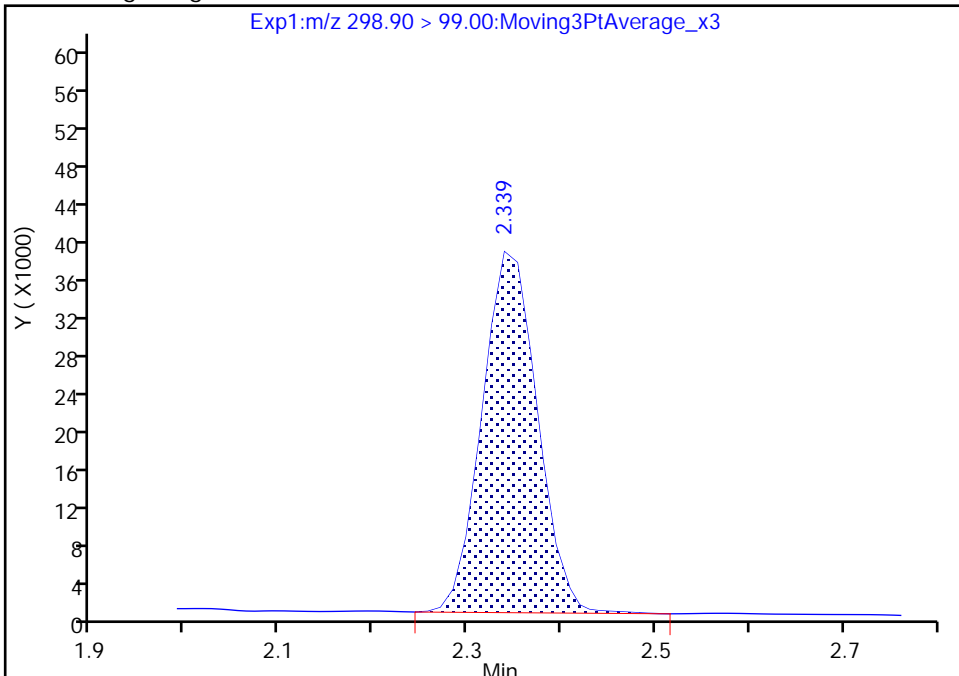
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

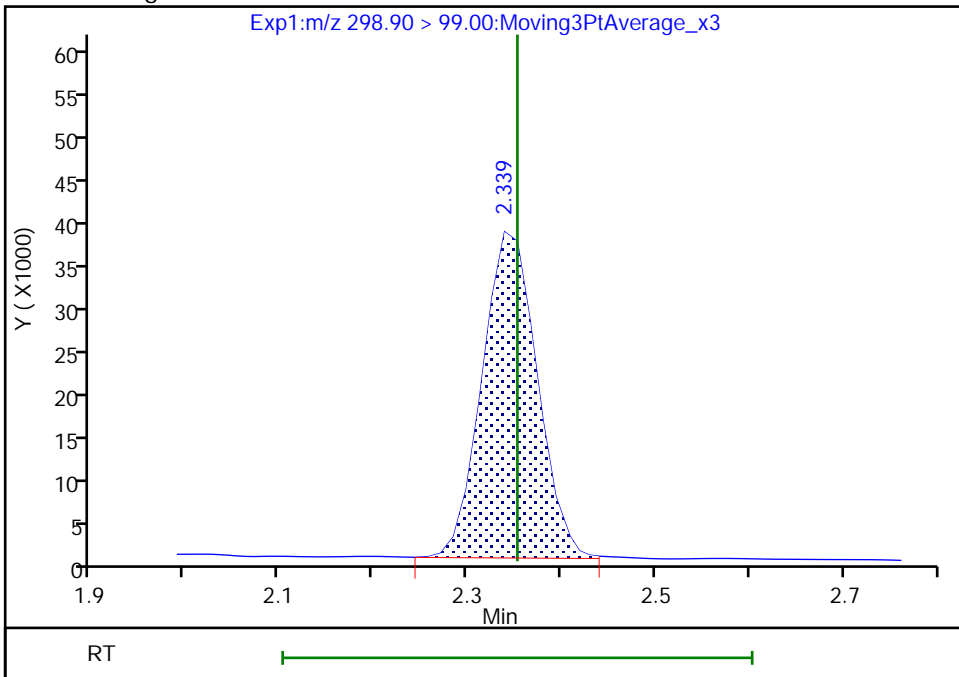
RT: 2.34  
Area: 156250  
Amount: 0.508186  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 155847  
Amount: 0.506698  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:13:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

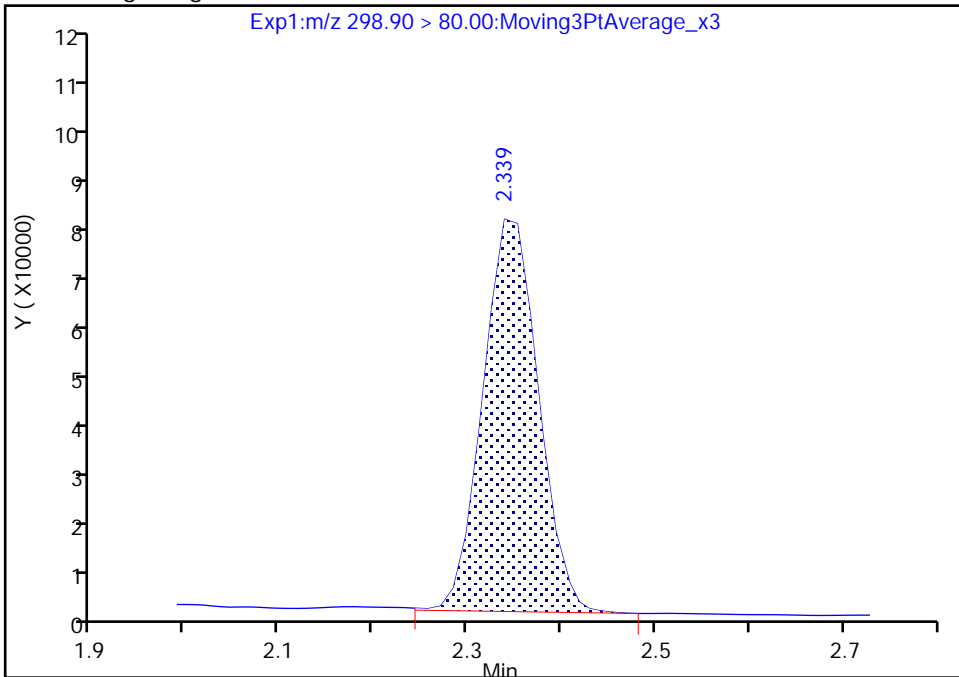
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

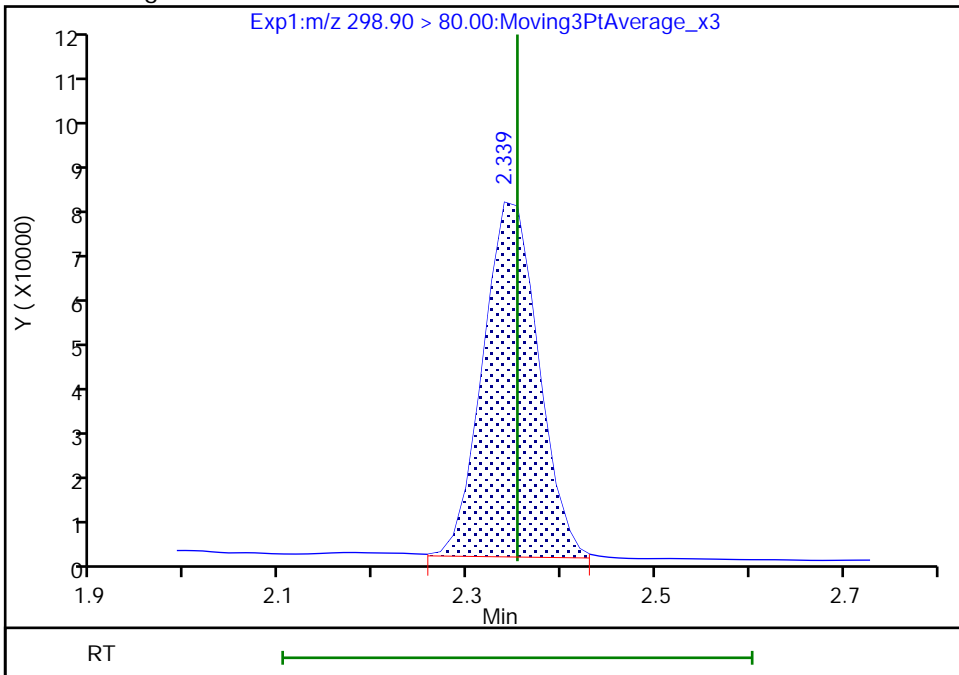
RT: 2.34  
Area: 311102  
Amount: 0.508186  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 310191  
Amount: 0.506698  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:13:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

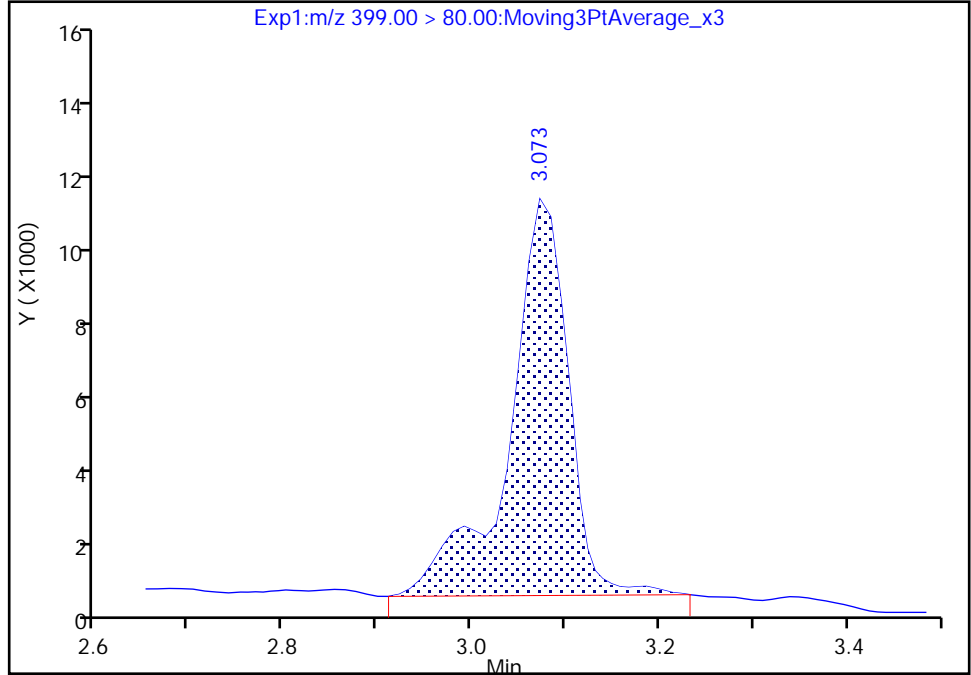
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

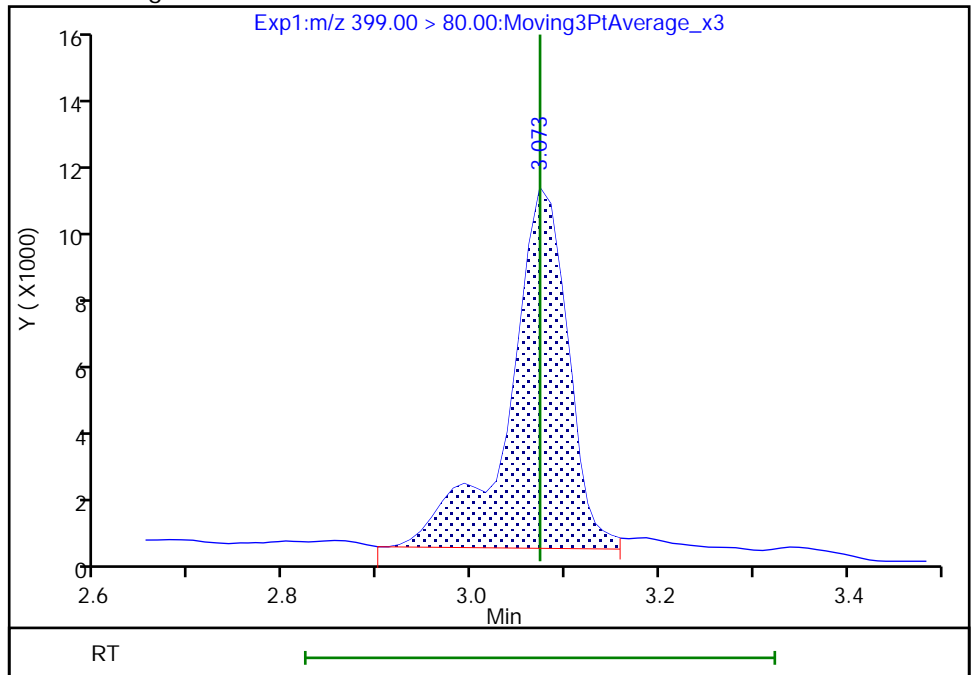
RT: 3.07  
Area: 46714  
Amount: 0.092917  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 46841  
Amount: 0.093169  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:15:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

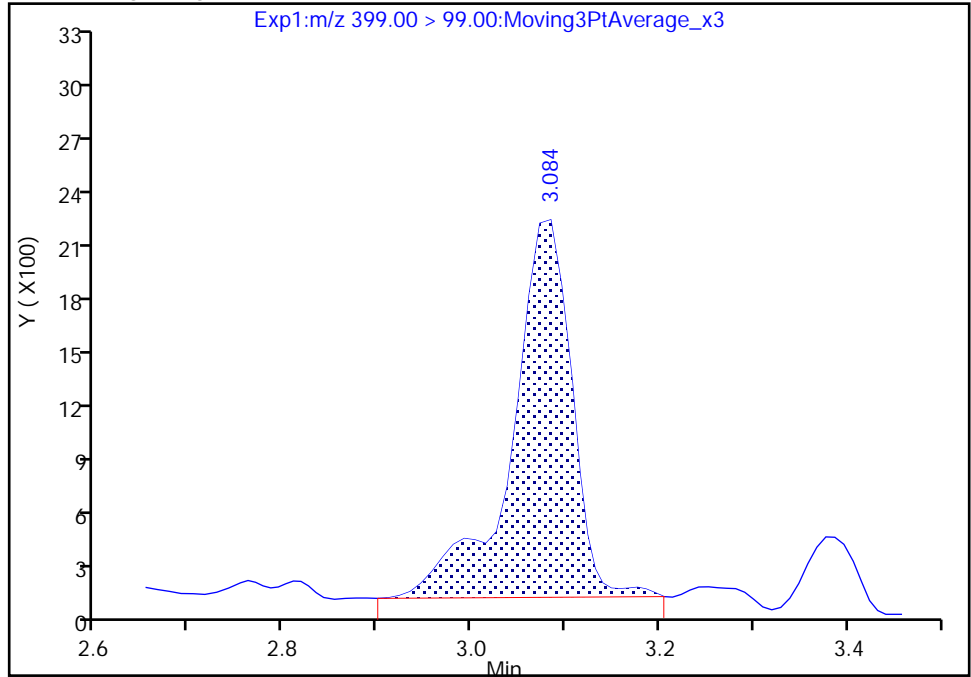
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

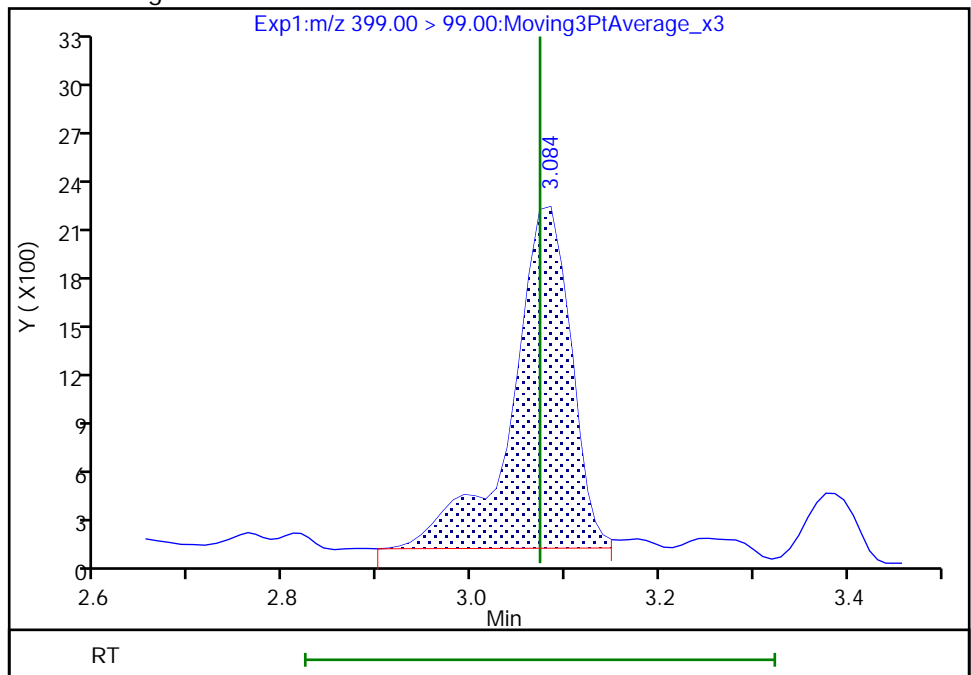
RT: 3.08  
Area: 9314  
Amount: 0.092917  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 9209  
Amount: 0.093169  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:15:32

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

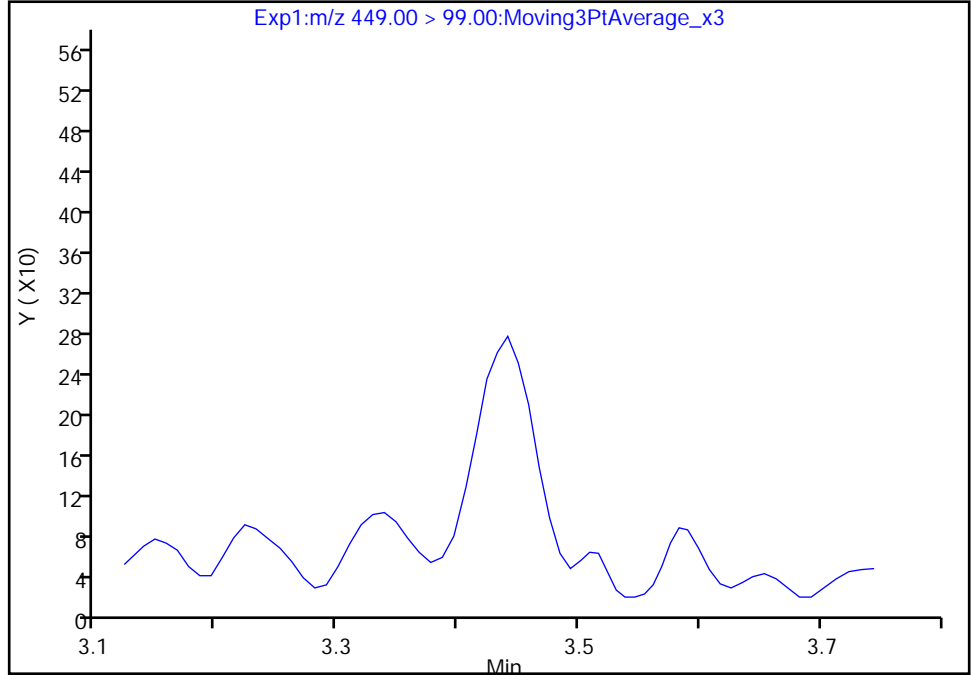
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

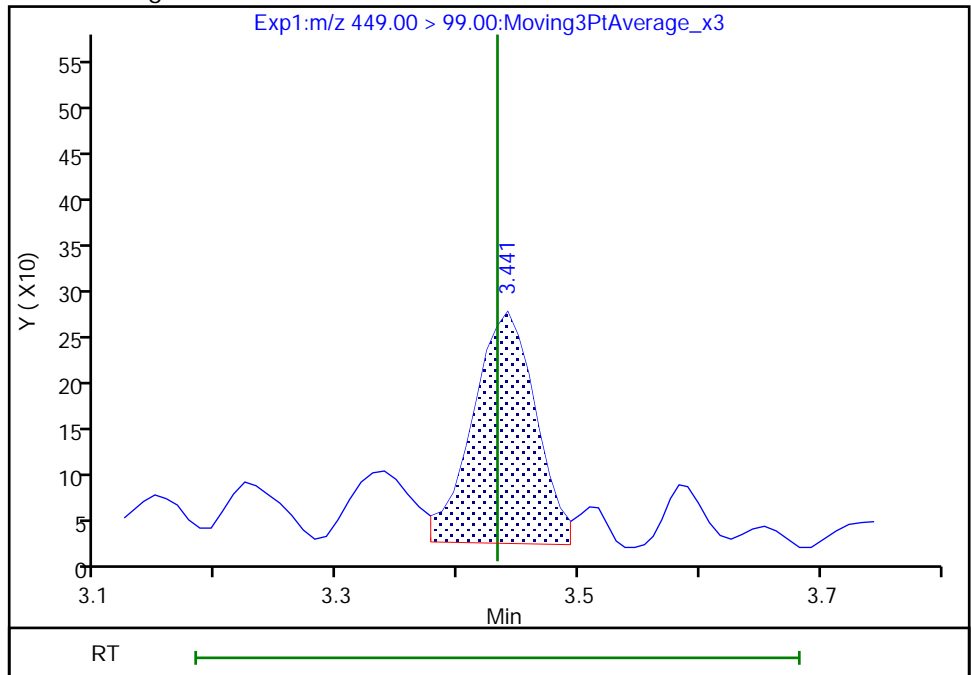
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 901  
Amount: 0.014915  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:16:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

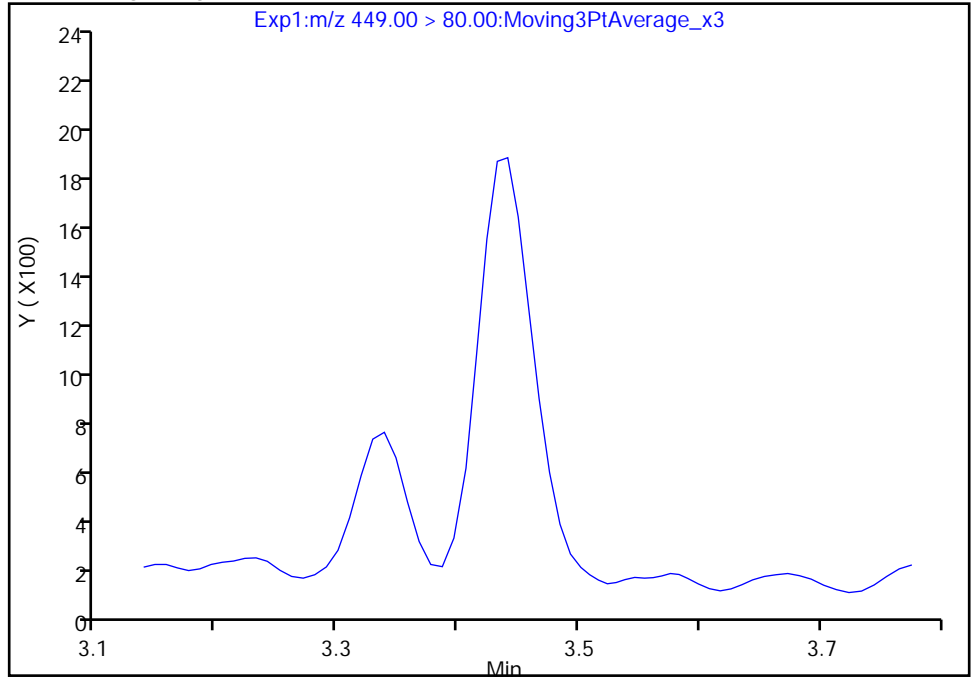
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

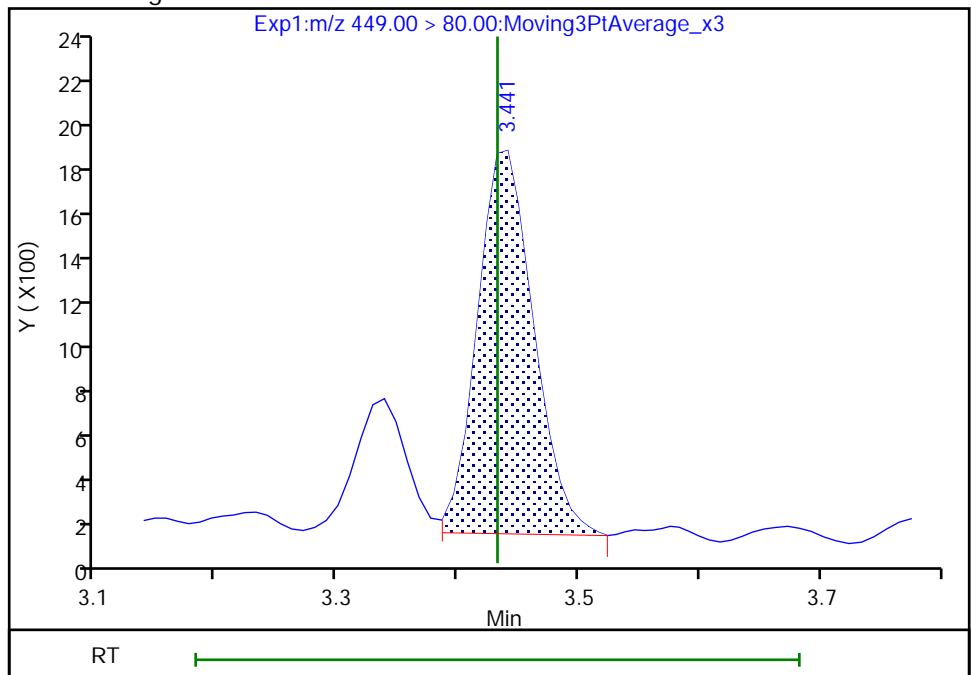
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 5600  
Amount: 0.014915  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:16:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

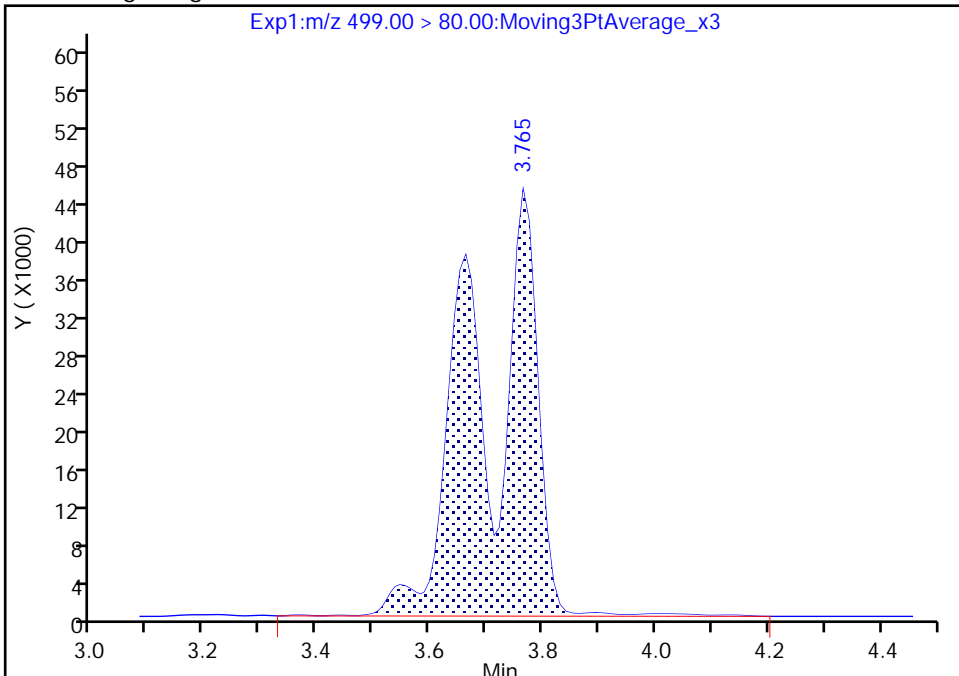
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

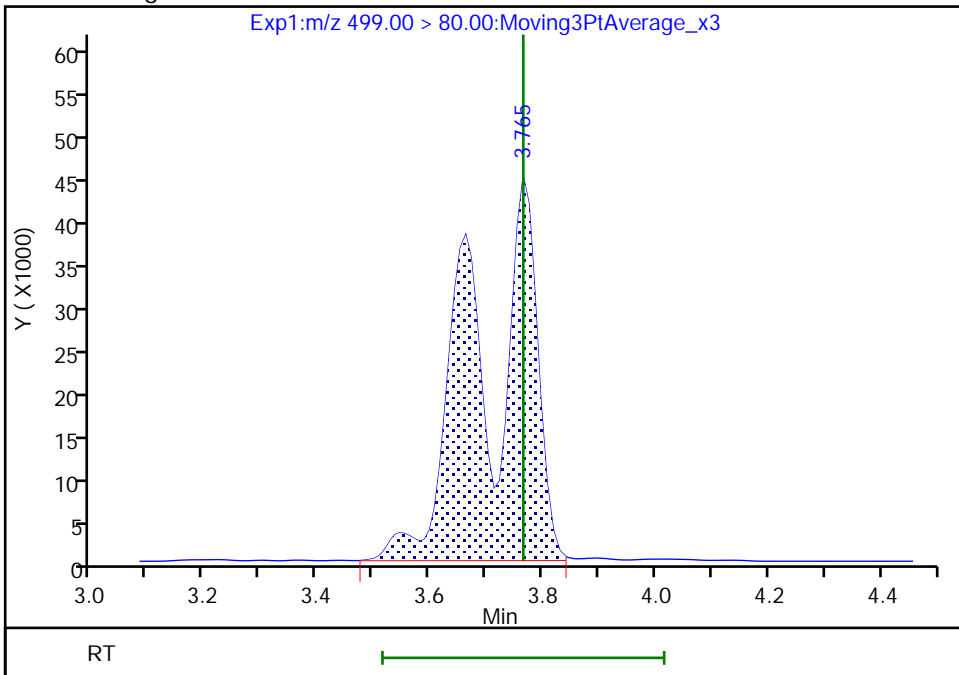
RT: 3.77  
Area: 325812  
Amount: 0.925149  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 320699  
Amount: 0.910631  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:17:43  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

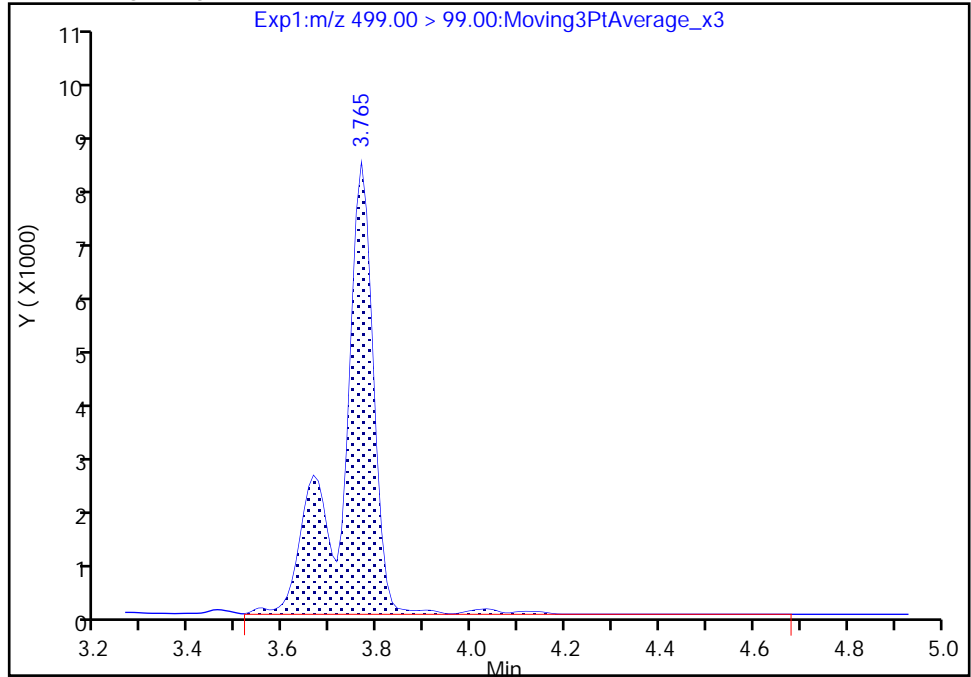
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

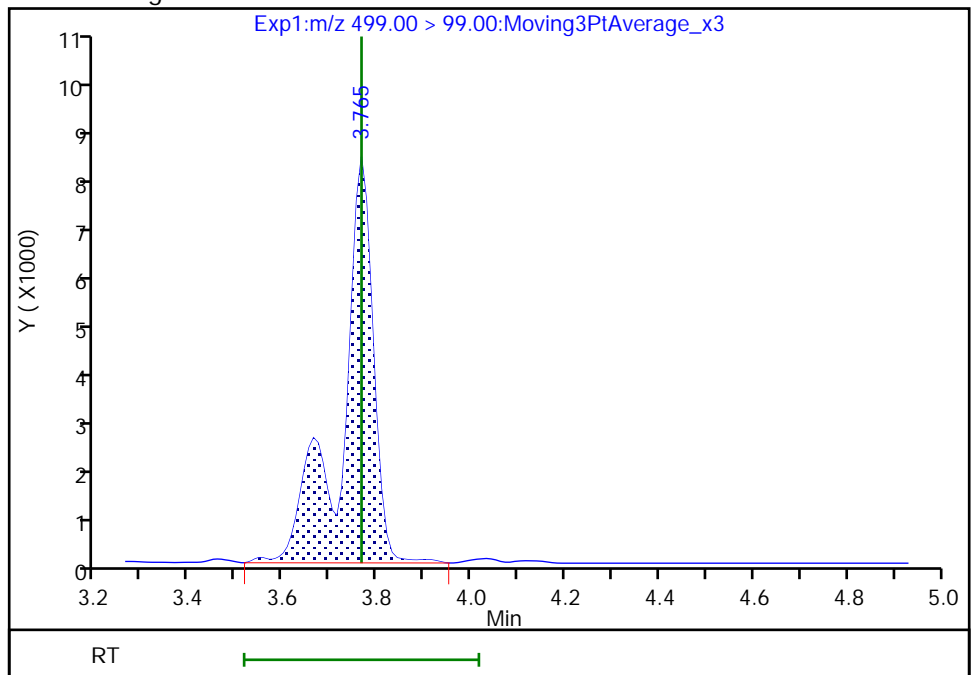
RT: 3.77  
Area: 37144  
Amount: 0.925149  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 36417  
Amount: 0.910631  
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 01-Oct-2020 17:13:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

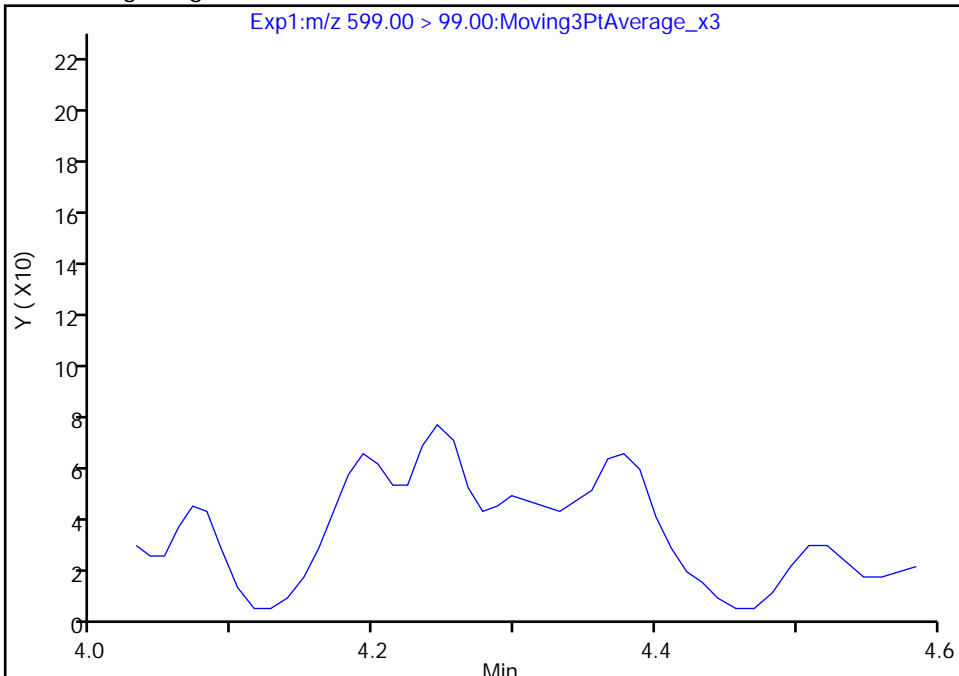
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

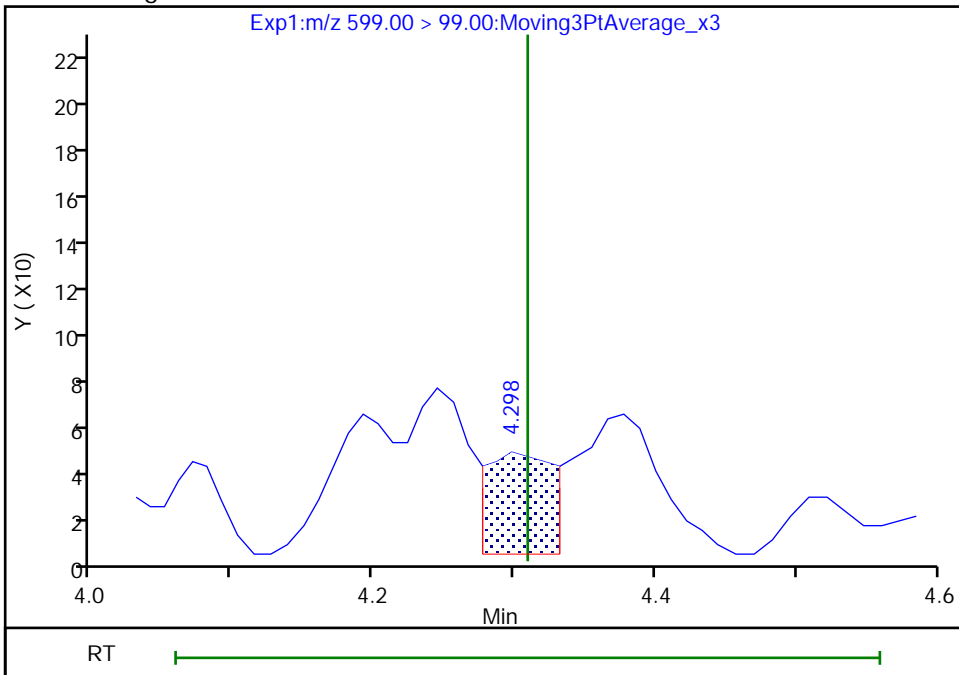
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.30  
Area: 130  
Amount: 0.000472  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:19:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

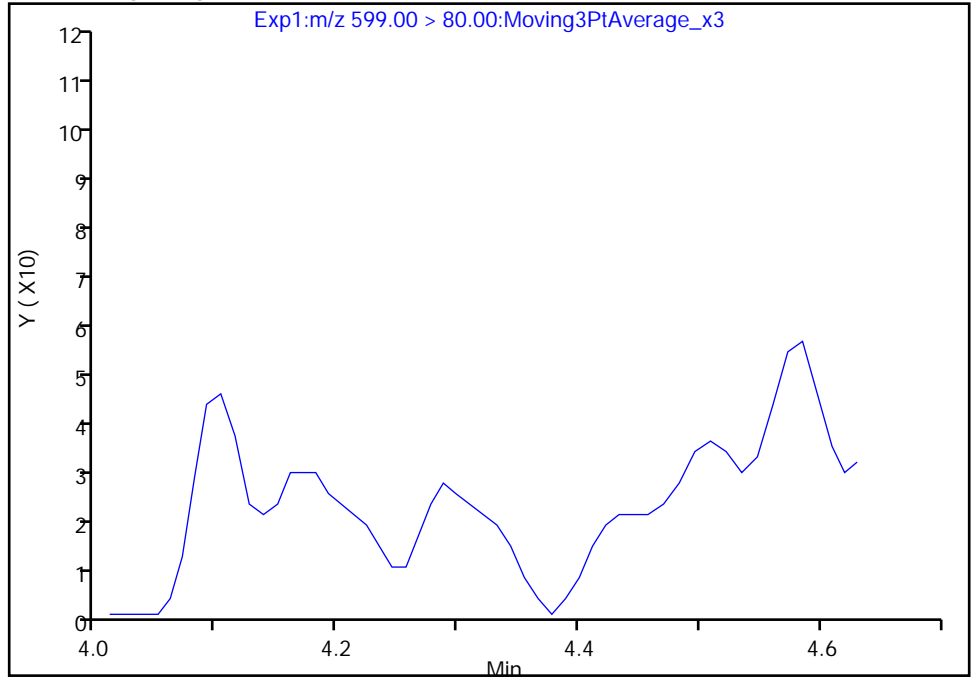
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

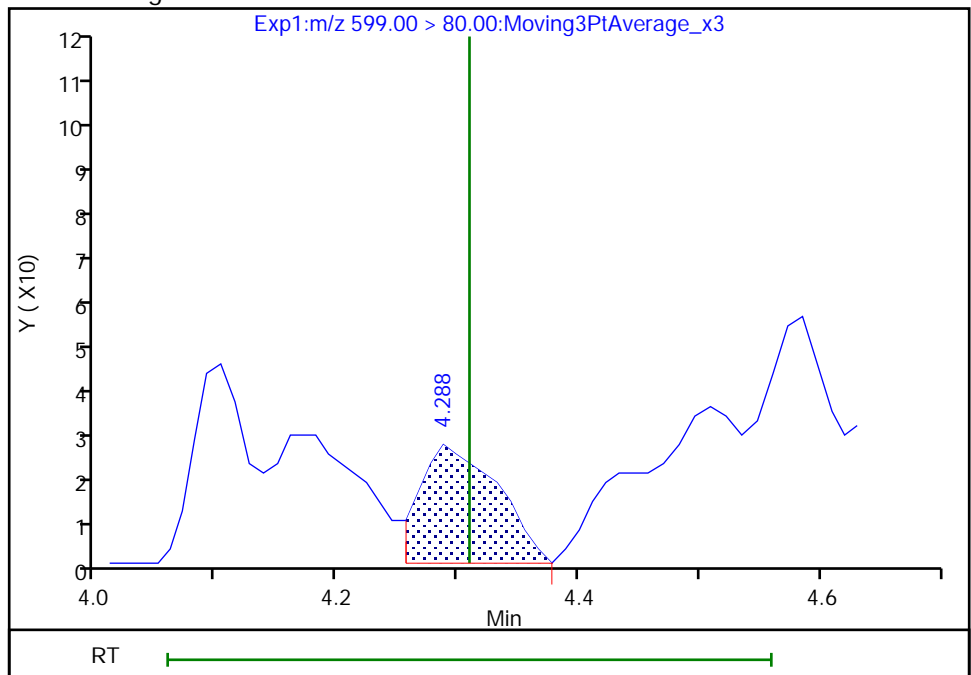
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.29  
Area: 110  
Amount: 0.000472  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

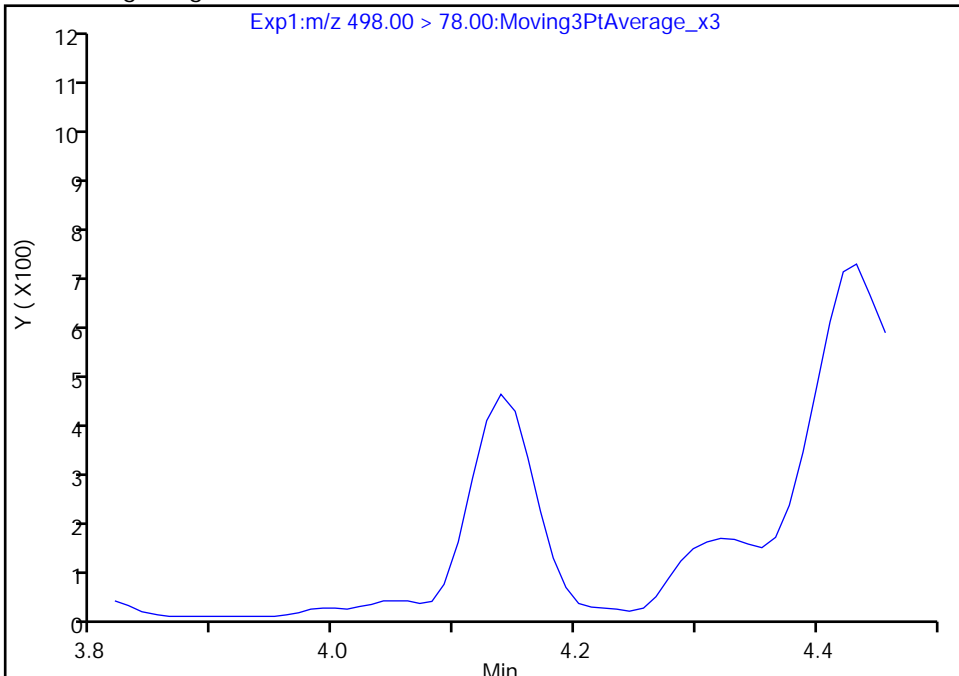
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

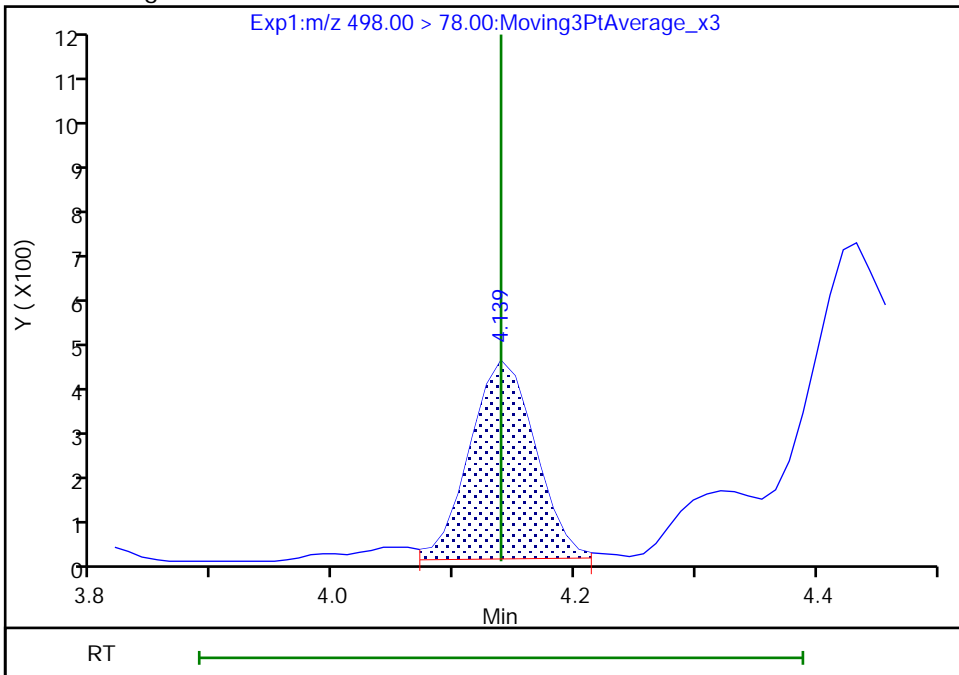
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14  
Area: 1600  
Amount: 0.004637  
Amount Units: ng/ml



Reviewer: deannd, 01-Oct-2020 17:14:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

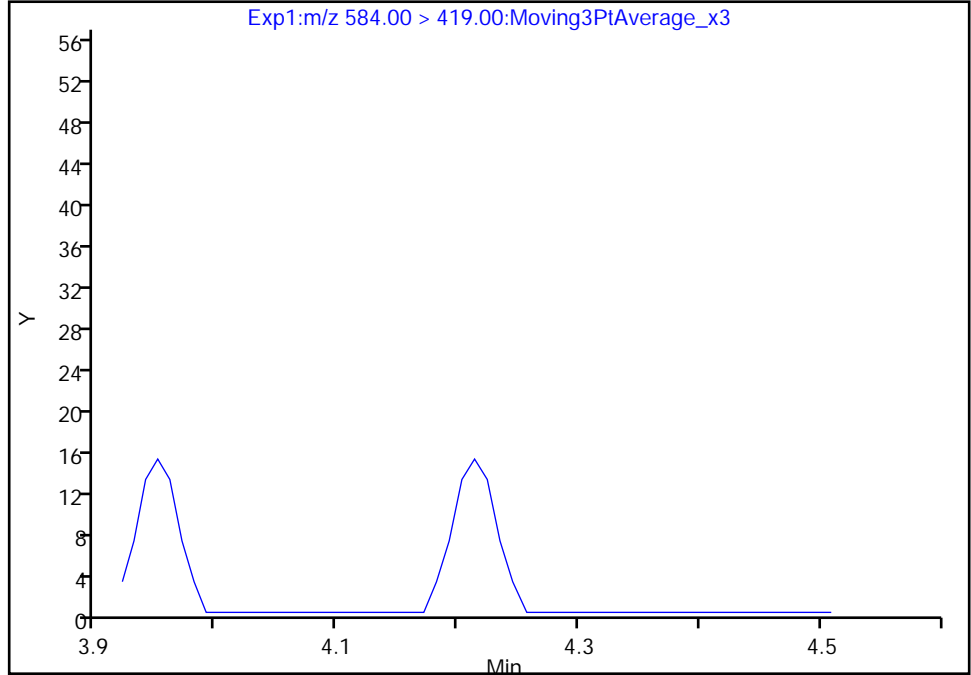
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

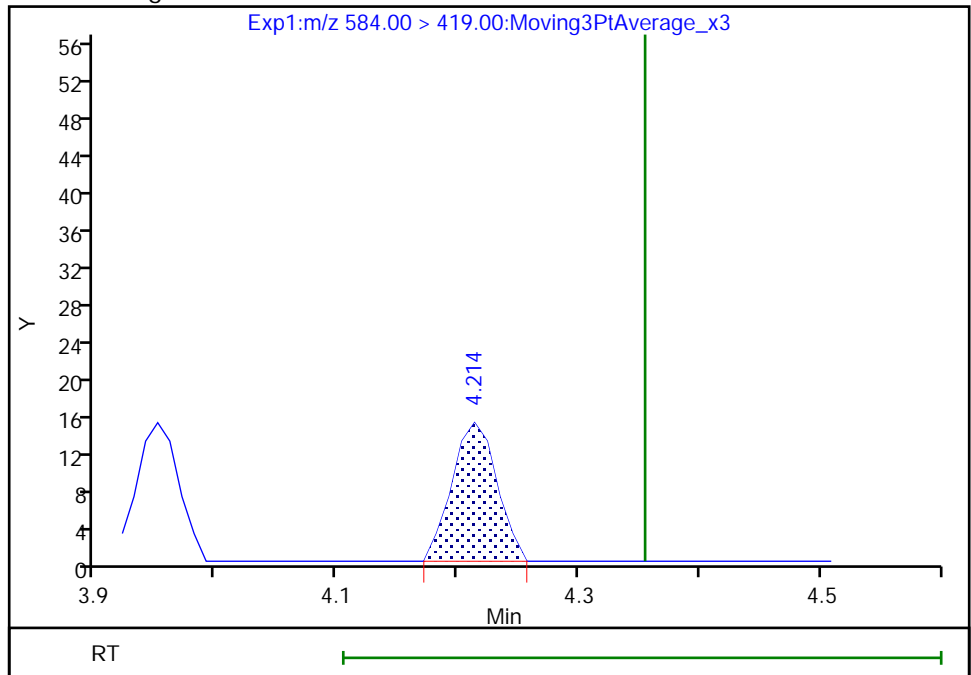
Not Detected  
Expected RT: 4.35

Processing Integration Results



RT: 4.21  
Area: 38  
Amount: 0.002089  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:20:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

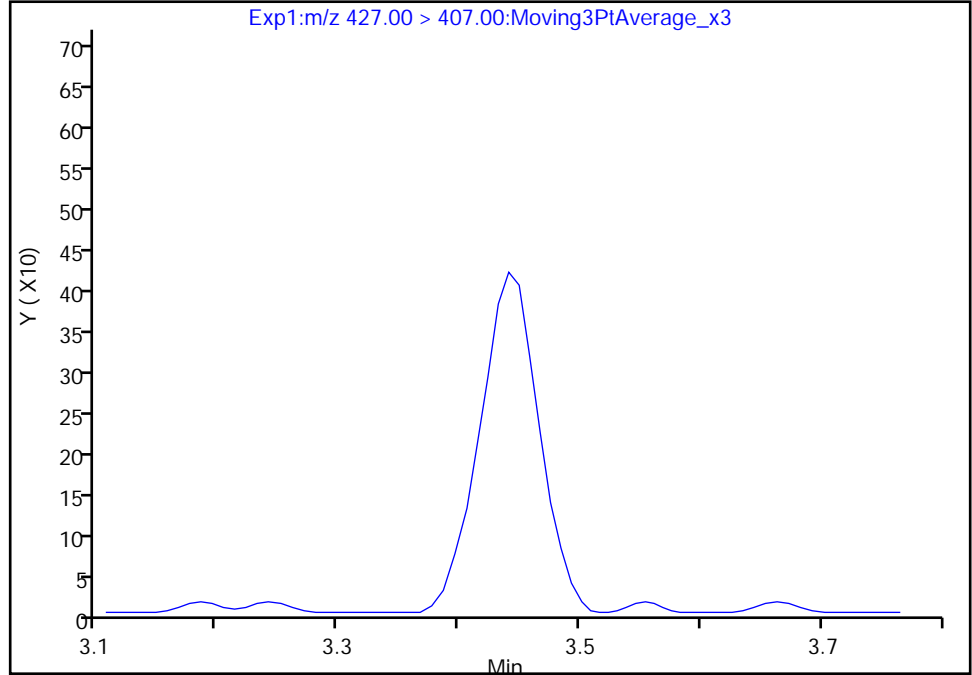
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

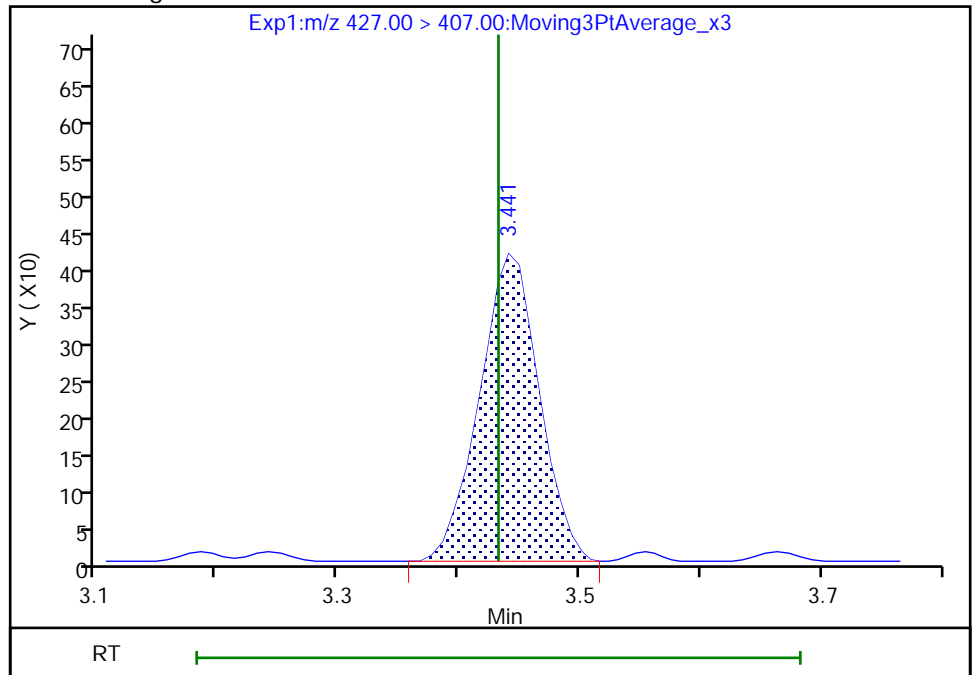
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 1429  
Amount: 0.027723  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:16:55  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

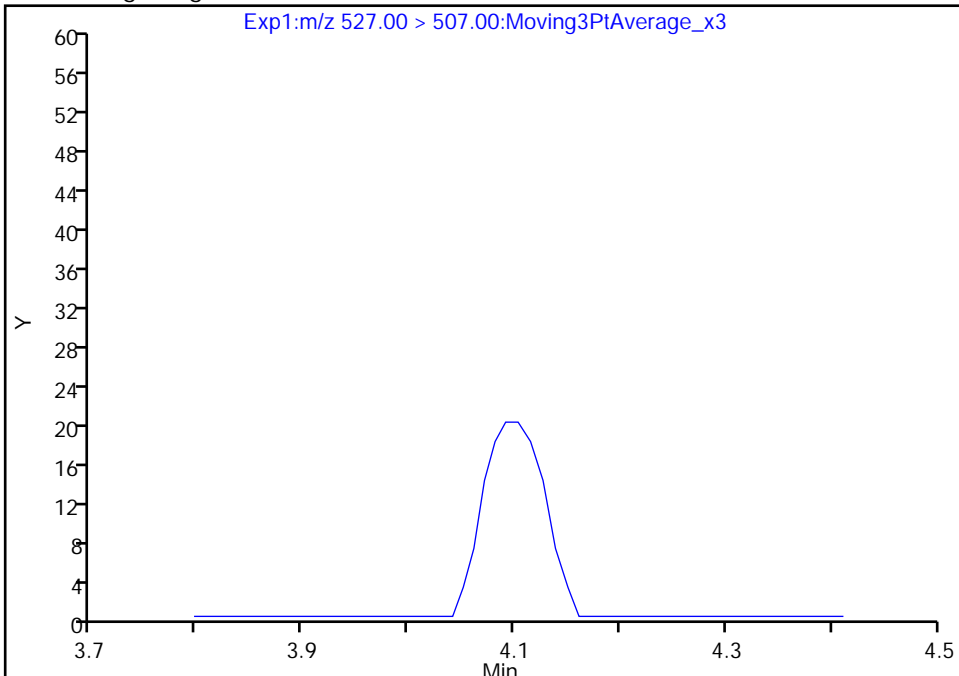
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection Vol: 20.0 ul Dil. 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

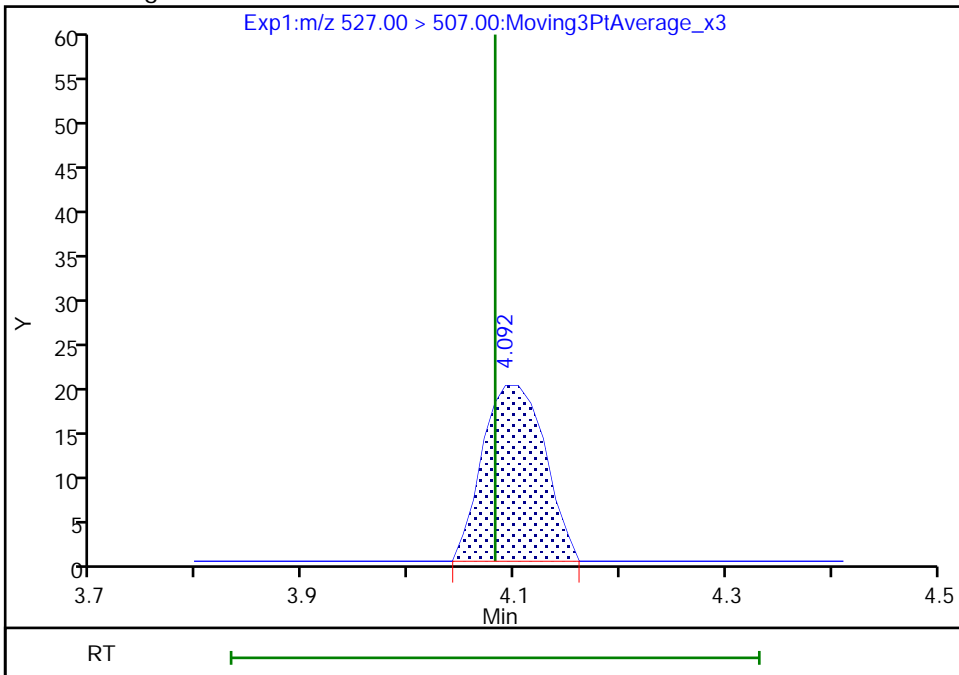
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.09  
Area: 82  
Amount: 0.003227  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:19:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

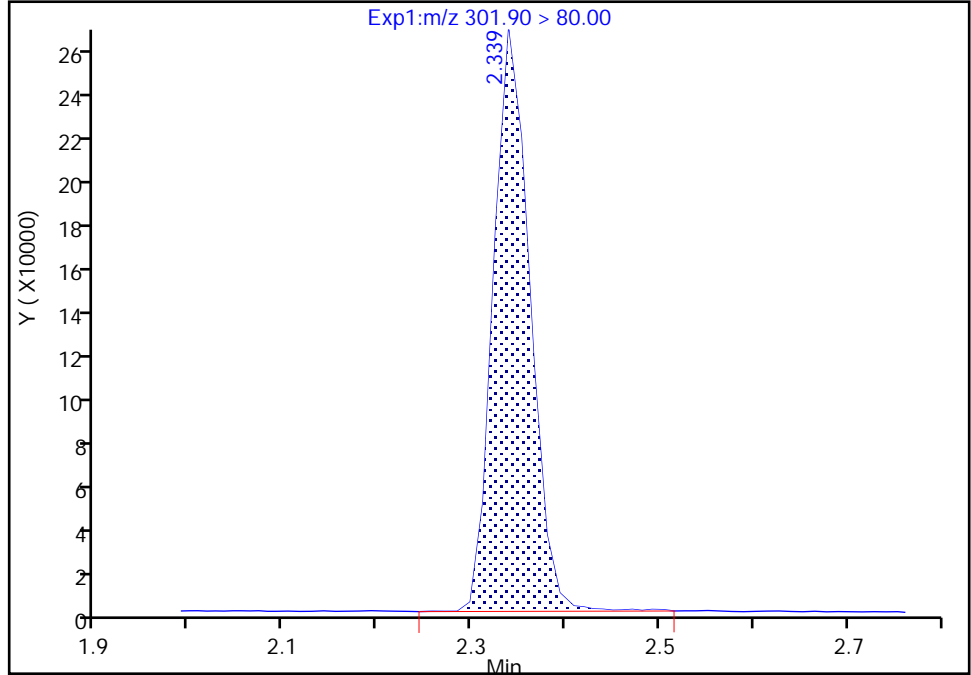
Euofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B22.d  
Injection Date: 30-Sep-2020 21:08:31 Instrument ID: LC812  
Lims ID: 480-175657-C-6-A Lab Sample ID: 200-175657-6  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 22 Worklist Smp#: 22  
Injection 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

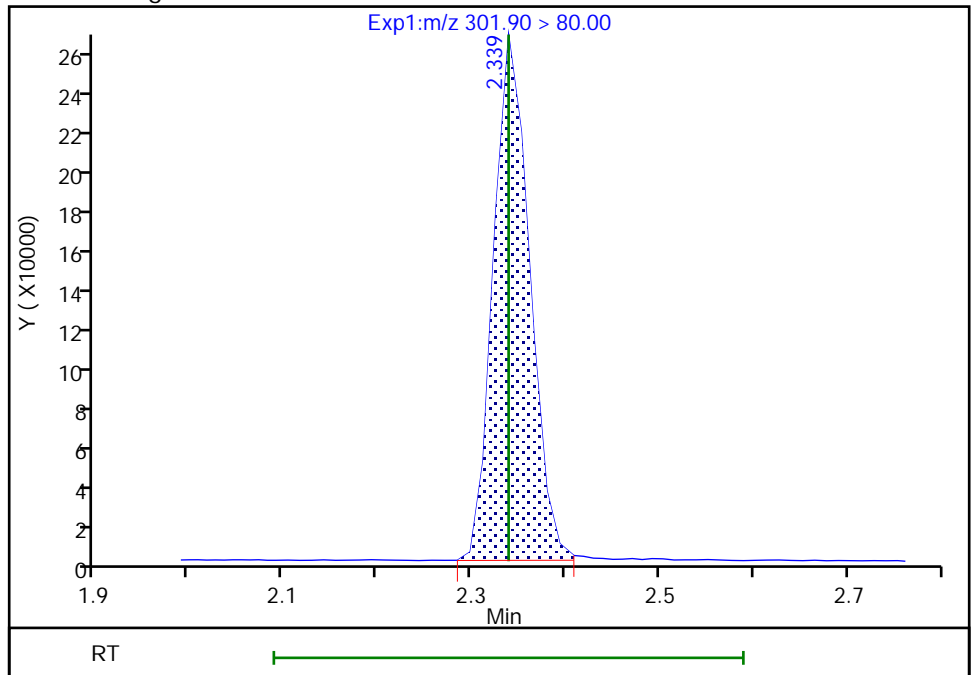
RT: 2.34  
Area: 719871  
Amount: 1.095484  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 714223  
Amount: 1.086889  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:12:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: DUPLICATE Lab Sample ID: 480-175657-7  
 Matrix: Water Lab File ID: PA200930B25.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 12:05  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 290.9(mL) Date Analyzed: 09/30/2020 21:33  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	20		4.3	0.97
2706-90-3	Perfluoropentanoic acid (PFPeA)	22		1.7	0.93
307-24-4	Perfluorohexanoic acid (PFHxA)	17		1.7	0.71
375-85-9	Perfluoroheptanoic acid (PFHpA)	14		1.7	0.40
335-67-1	Perfluorooctanoic acid (PFOA)	51		1.7	0.84
375-95-1	Perfluorononanoic acid (PFNA)	3.0		1.7	0.50
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.7	0.40
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.63
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.7	0.40
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.51
375-73-5	Perfluorobutanesulfonic acid (PFBS)	28		1.7	0.54
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	5.2		1.7	0.58
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	1.1	J	1.7	0.34
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	51		1.7	0.75
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.68
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.80
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.62
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.57

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: DUPLICATE Lab Sample ID: 480-175657-7  
 Matrix: Water Lab File ID: PA200930B25.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 12:05  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 290.9(mL) Date Analyzed: 09/30/2020 21:33  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	96		50-150
STL01892	13C4 PFHpA	91		50-150
STL00990	13C4 PFOA	96		50-150
STL00991	13C4 PFOS	88		50-150
STL00995	13C5 PFNA	94		50-150
STL00992	13C4 PFBA	71		25-150
STL00993	13C2 PFHxA	97		50-150
STL00996	13C2 PFDA	88		50-150
STL00997	13C2 PFUnA	76		50-150
STL00998	13C2 PFDoA	74		50-150
STL01056	13C8 FOSA	54		25-150
STL01893	13C5 PFPeA	87		25-150
STL02116	13C2 PFTeDA	75		50-150
STL02118	d3-NMeFOSAA	74		50-150
STL02117	d5-NEtFOSAA	67		50-150
STL02279	M2-6:2 FTS	109		25-150
STL02280	M2-8:2 FTS	96		25-150
STL02337	13C3 PFBS	93		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
 Lims ID: 480-175657-C-7-A  
 Client ID: DUPLICATE  
 Sample Type: Client  
 Inject. Date: 30-Sep-2020 21:33:21 ALS Bottle#: 25 Worklist Smp#: 25  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-7-A  
 Misc. Info.: 200-0043035-025 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 15:43:50  
 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	1.981	1.990	-0.009	0.574	659781	0.8912	71.3	5348	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.981	1.990	-0.009	1.000	282279	0.5721		20.4		M
D 3 13C5 PFPeA	267.90 > 223.00	2.312	2.326	-0.014	0.670	577970	1.09	87.1	375	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.006	309984	0.6348		2.8		M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	696189	1.08	92.7	31261	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.339	2.353	-0.014	1.000	478706	0.8022	Target=2.07	41.7		M
298.90 > 99.00	2.339	2.353	-0.014	1.000	256323		1.87(1.04-3.11)	52.3		M
D 7 13C2 PFHxA	315.00 > 270.00	2.691	2.703	-0.012	0.780	660026	1.21	96.6	4246	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.691	2.703	-0.012	1.000	255900	0.4813	Target=12.44	10.4		M
313.00 > 119.00	2.691	2.703	-0.012	1.000	19154		13.36(6.22-18.66)	19.9		M
D 11 18O2 PFHxS	403.00 > 84.00	3.073	3.073	0.0	0.891	525782	1.13	95.9	2306	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	73863	0.1504	Target=4.60	27.2		M
399.00 > 99.00	3.073	3.073	0.0	1.000	14882		4.96(2.30-6.91)	19.3		M
D 9 13C4 PFHpA	367.00 > 322.00	3.084	3.084	0.0	0.894	565786	1.14	91.1	2602	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	184457	0.4067	Target=3.34	9.5		M
363.00 > 169.00	3.073	3.084	-0.011	0.996	57403		3.21(1.67-5.01)	101		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.432	3.433	0.0	0.912	12859	0.0332	Target=7.08	16.0		
449.00 > 99.00	3.432	3.433	0.0	0.912	1945		6.61(3.54-10.63)	6.9		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.009	1.003	208	0.003860		5.6		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.433	0.0	0.995	80174	1.29		109	95.3	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	609154	1.20		95.8	3767	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		645841	1.25		4199		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	750151	1.49	Target=2.29	97.8		
413.00 > 169.00	3.450	3.450	0.0	1.000	343633		2.18(1.14-3.43)	690		M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	399317	1.05		88.1	645	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.653	3.765	-0.112	0.970	539274	1.49	Target=7.10	375		M
499.00 > 99.00	3.765	3.765	0.0	1.000	56841		9.49(3.55-10.64)	201		M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	505627	1.18		94.4	5117	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.786	3.786	0.0	1.000	36358	0.0883	Target=5.83	9.1		M
463.00 > 169.00	3.786	3.786	0.0	1.000	6206		5.86(2.91-8.74)	28.4		
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.072	0.009	1.183	452422	1.10		88.1	3916	
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.071	4.082	-0.011	0.998	1402	0.003915	Target=6.81	1.0		M
513.00 > 169.00	4.081	4.082	-0.001	1.000	234		5.99(3.41-10.22)	2.5		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.091	4.092	-0.001	1.186	83852	1.15		95.9	285	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	445703	0.6729		53.8	2799	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.139	4.139	0.0	1.000	1021	0.003063		4.1		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.224	21780	0.9307		74.5	452	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.182	4.224	-0.042	0.990	81	0.004926		1.0		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.320	4.309	0.011	1.147	527	0.002195	Target=3.31	3.6		M
599.00 > 99.00	4.287	4.309	-0.022	1.139	273		1.93(1.66-4.97)	2.8		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	295004	0.9507		76.1	1482	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.343	4.343	0.0	1.000	1635	0.007024	Target=6.57	1.5		M
563.00 > 169.00	4.343	4.343	0.0	1.000	306		5.34(3.28-9.85)	4.9		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	21025	0.8357		66.9	417	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.245	4.355	-0.110	0.975	39	0.002533			1.3	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	302804	0.9233		73.9	3061	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	1073	0.004542	Target=5.16		1.2	M
613.00 > 169.00	4.561	4.573	-0.012	0.997	254		4.22(2.58-7.75)		6.2	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.790	4.772	0.018	1.047	1150	0.005732	Target=3.30		1.0	RM
663.00 > 169.00	4.781	4.772	0.009	1.045	50		23.00(1.65-4.95)		2.2	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.969	0.009	1.443	217963	0.9330		74.6	2992	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.988	4.969	0.019	1.002	138	0.003455	Target=1.06		5.6	M
713.00 > 219.00	4.978	4.969	0.009	1.000	156		0.88(0.53-1.59)		4.9	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\20200930-43035.b\PA200930B25.d

Injection Date: 30-Sep-2020 21:33:21

Instrument ID: LC812

Lims ID: 480-175657-C-7-A

Lab Sample ID: 200-175657-7

Client ID: DUPLICATE

Operator ID: lc812tech

ALS Bottle#: 25

Worklist Smp#: 25

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

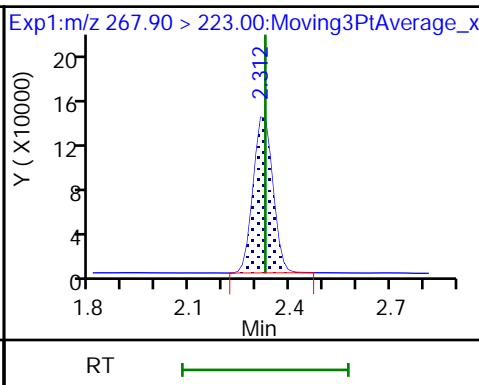
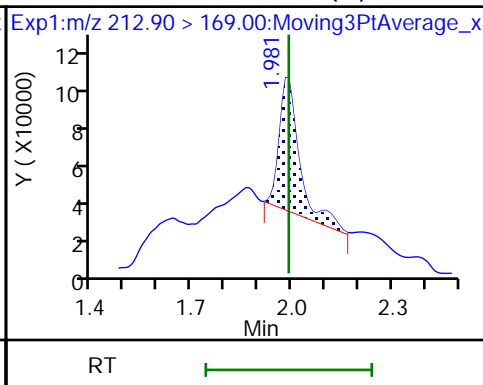
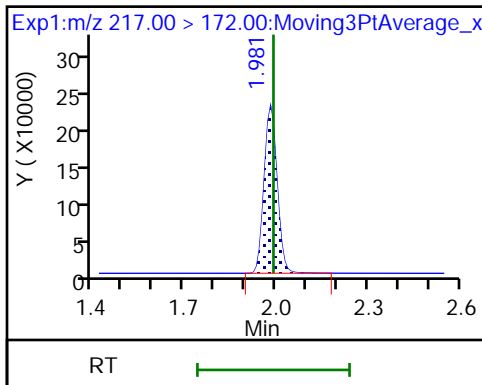
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

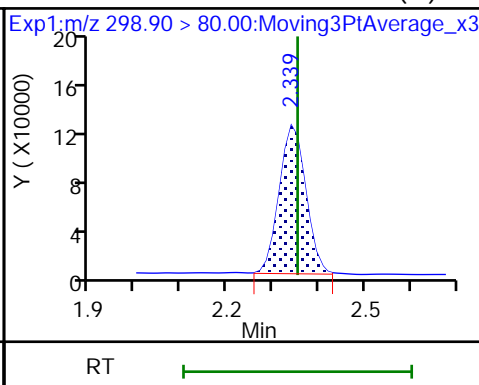
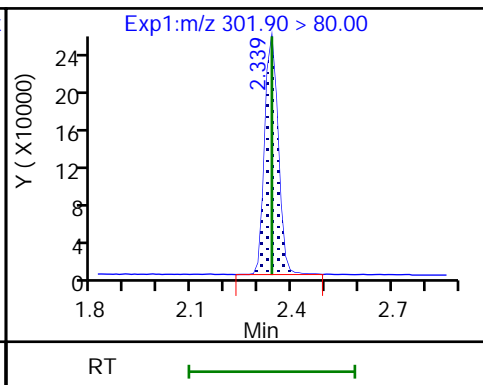
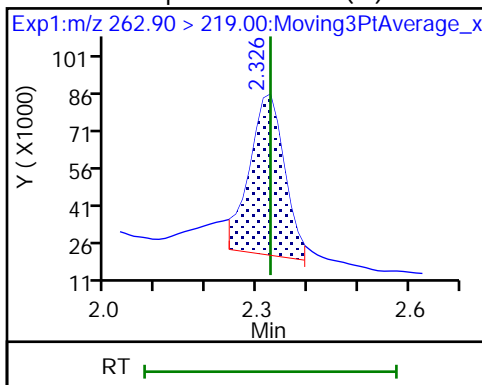
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

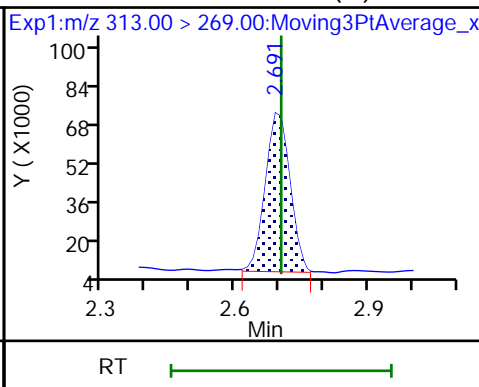
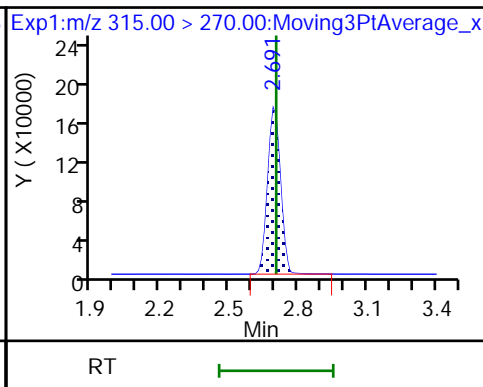
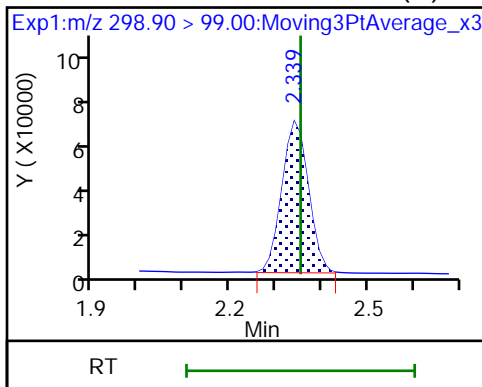
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

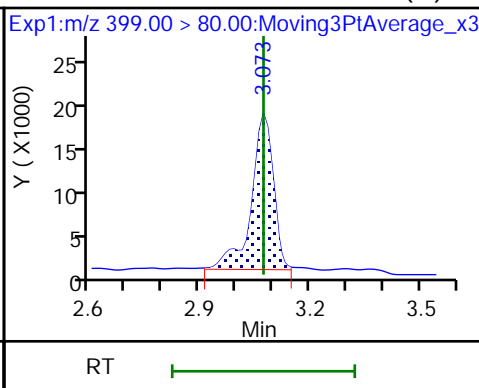
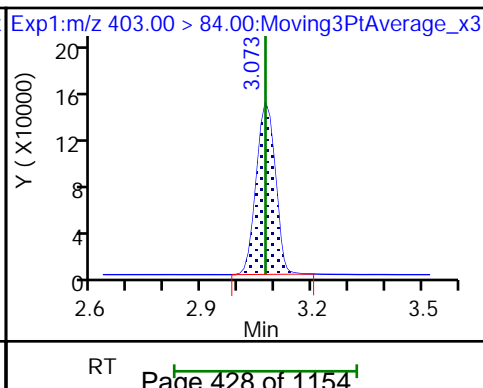
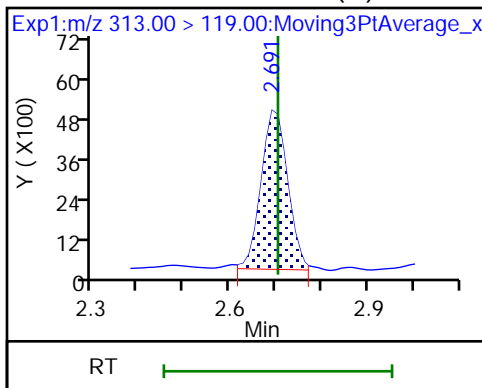
6 Perfluorohexanoic acid (M)



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

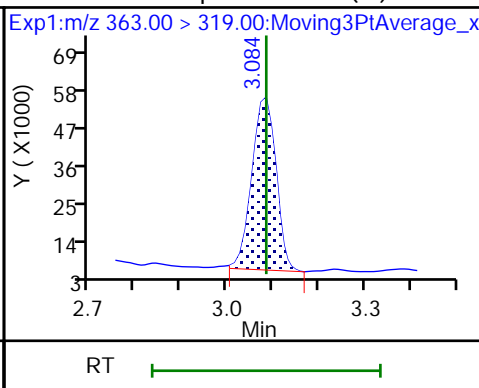
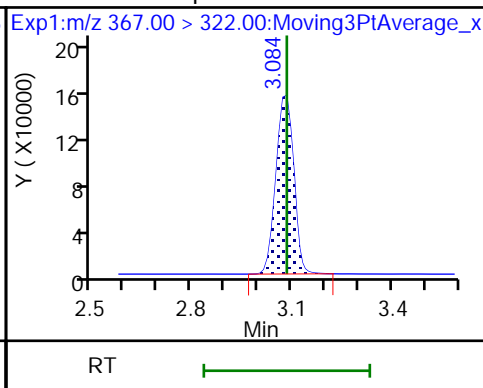
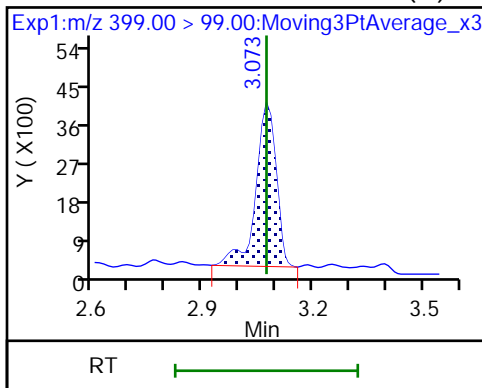
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

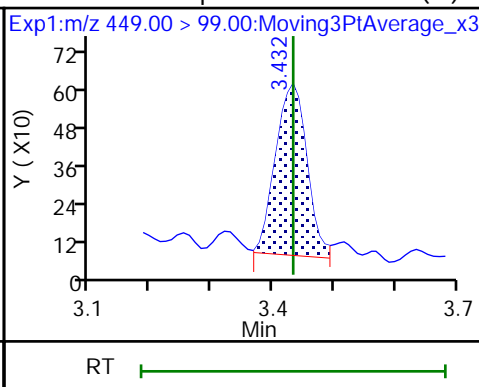
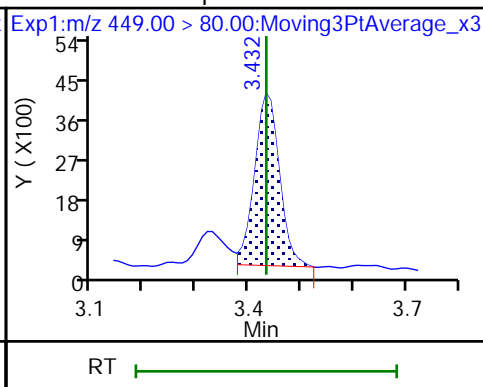
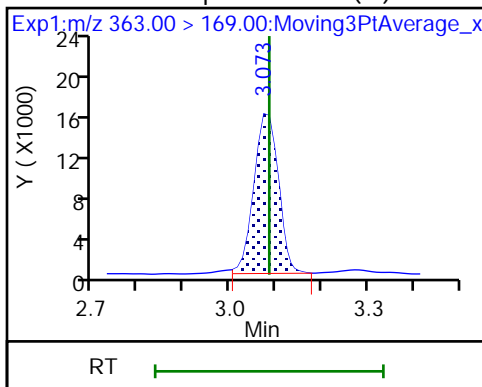
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid

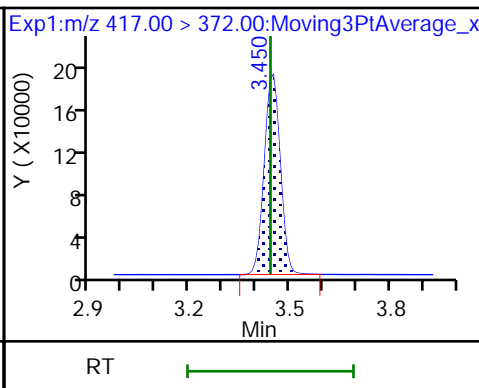
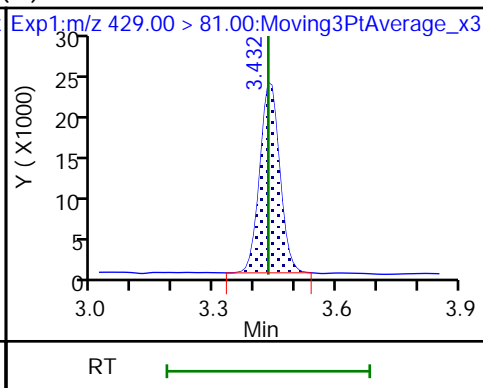
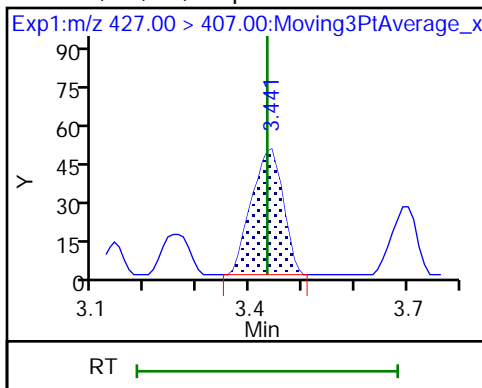
16 Perfluoroheptanesulfonic acid (M)



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

D 12 M2-6:2 FTS

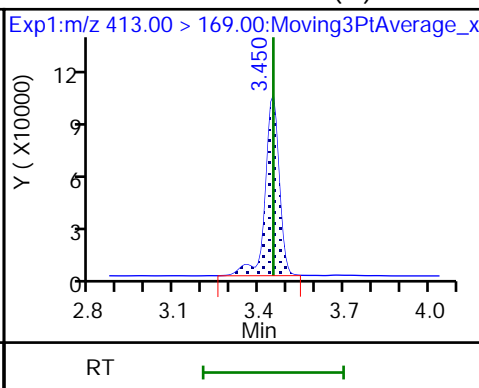
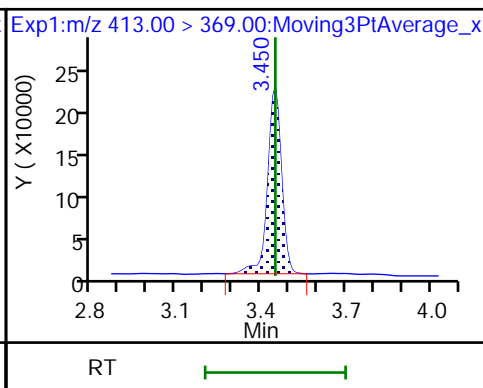
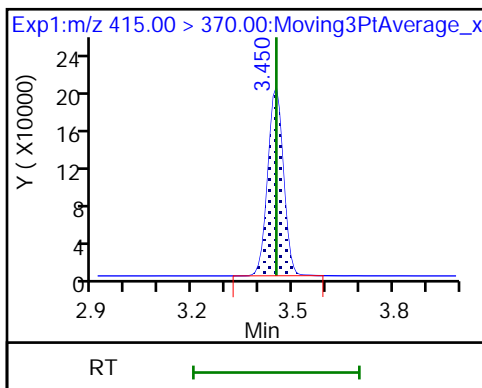
D 14 13C4 PFOA



\* 62 13C2 PFOA

15 Perfluorooctanoic acid

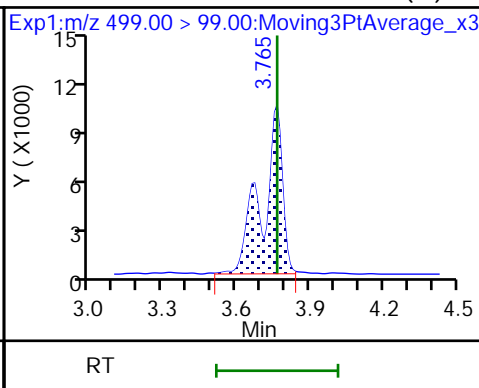
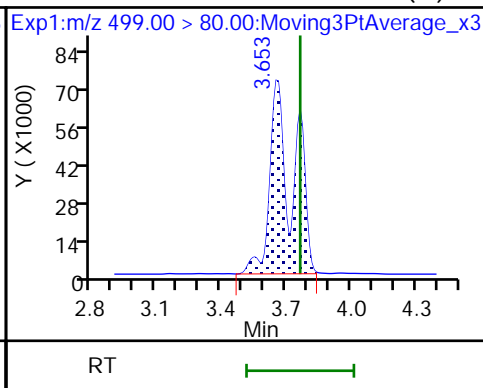
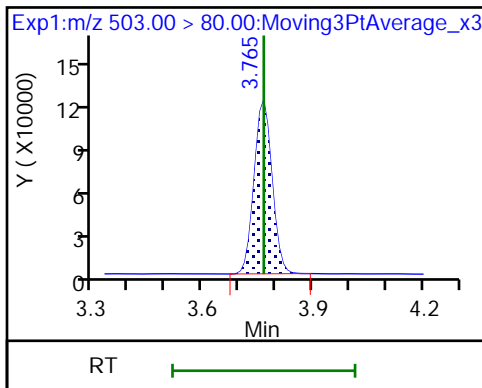
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

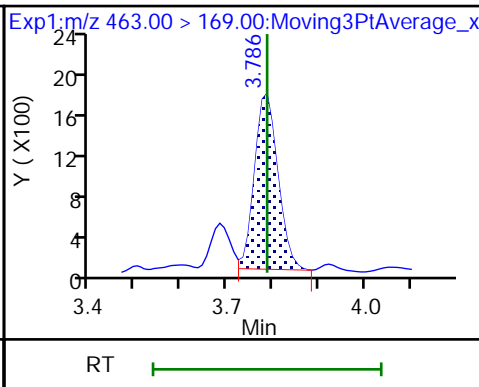
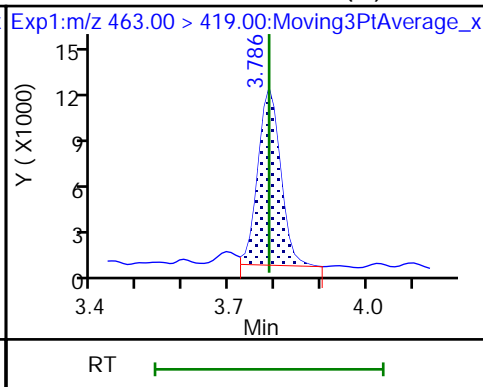
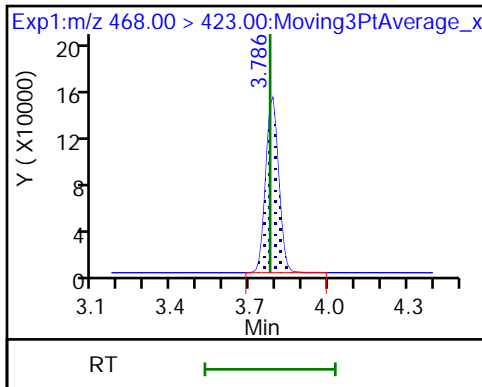
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

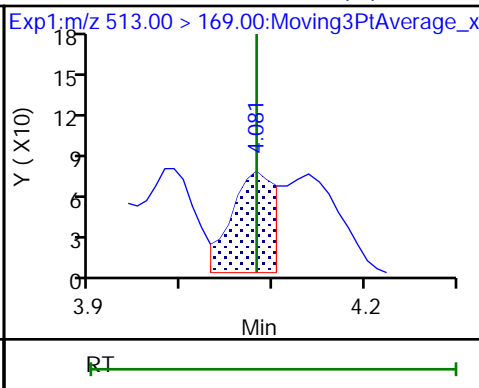
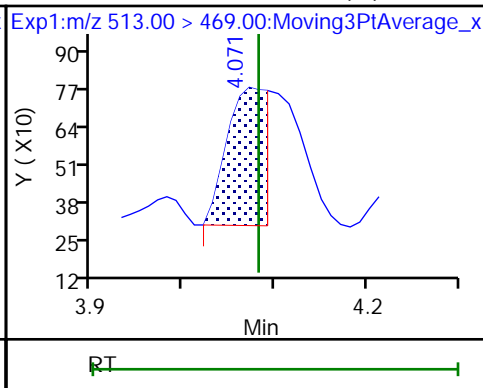
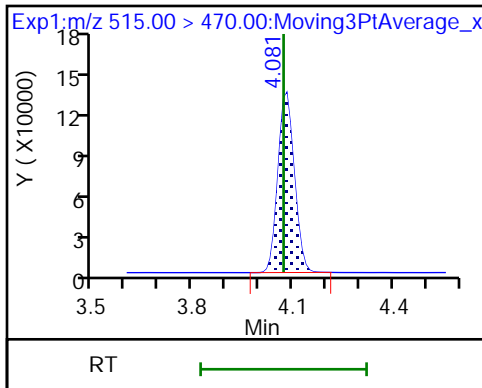
20 Perfluorononanoic acid



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

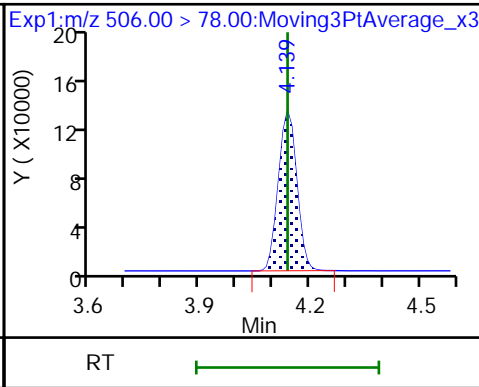
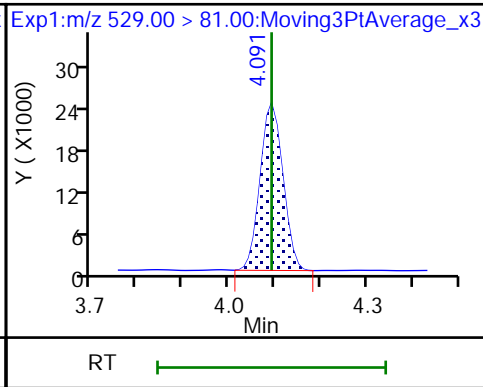
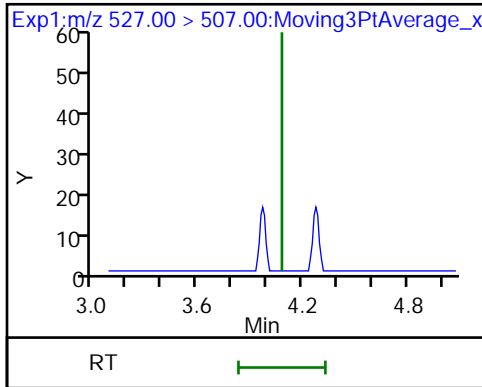
24 Perfluorodecanoic acid (M)

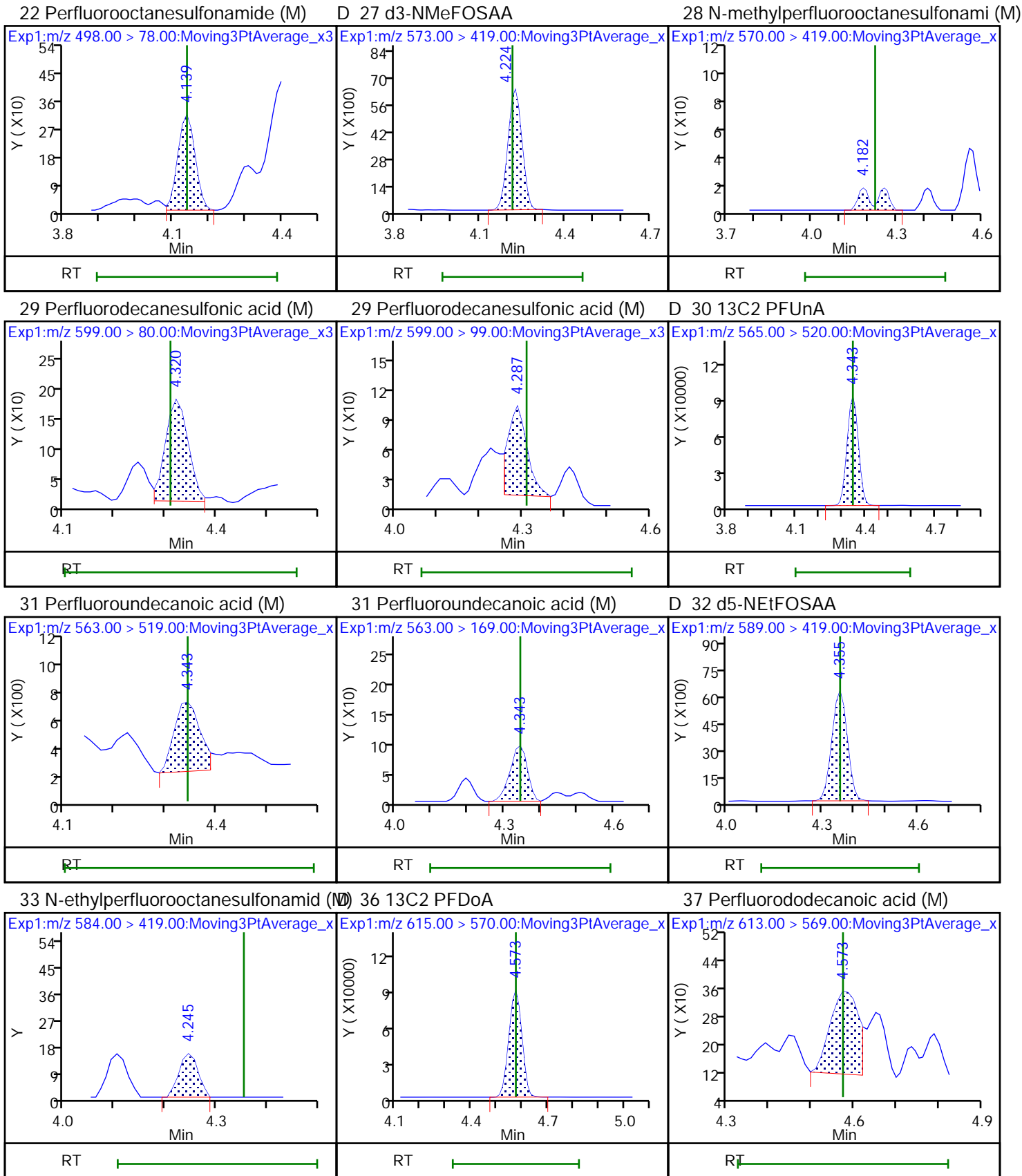


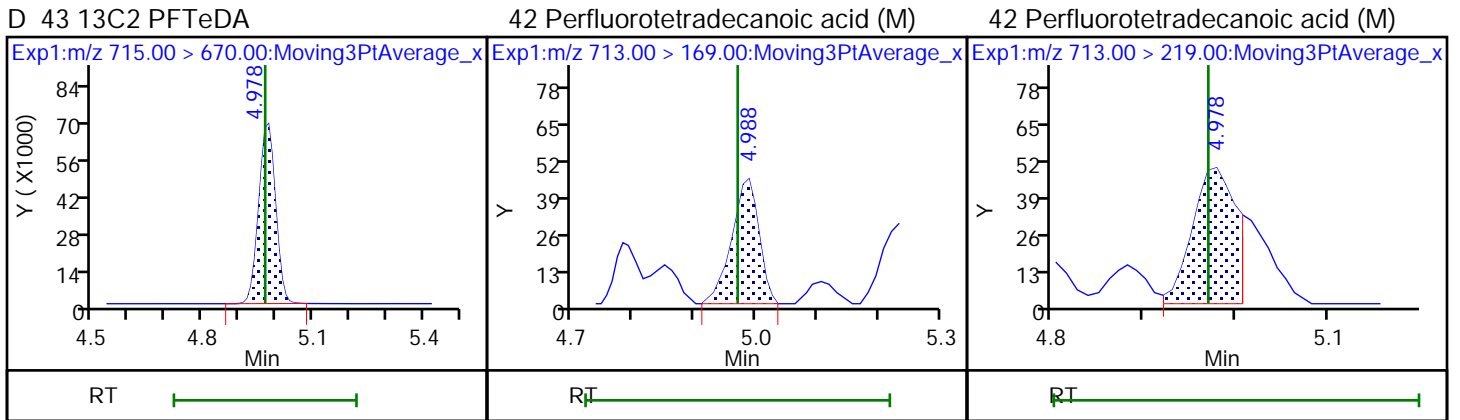
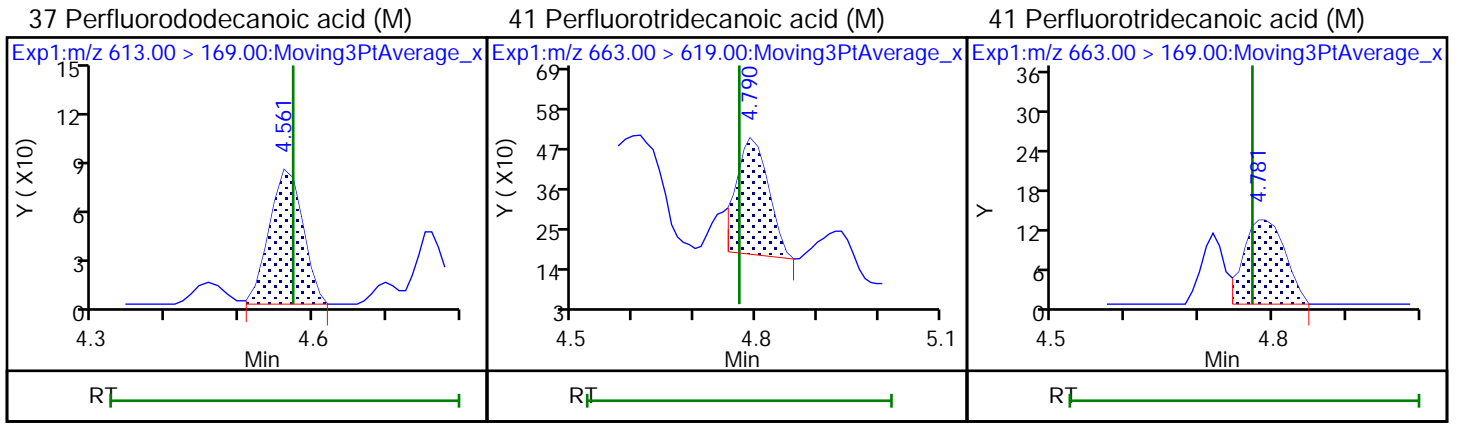
25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

ND6 M2-8:2 FTS

D 21 13C8 FOSA







Eurofins TestAmerica, Burlington

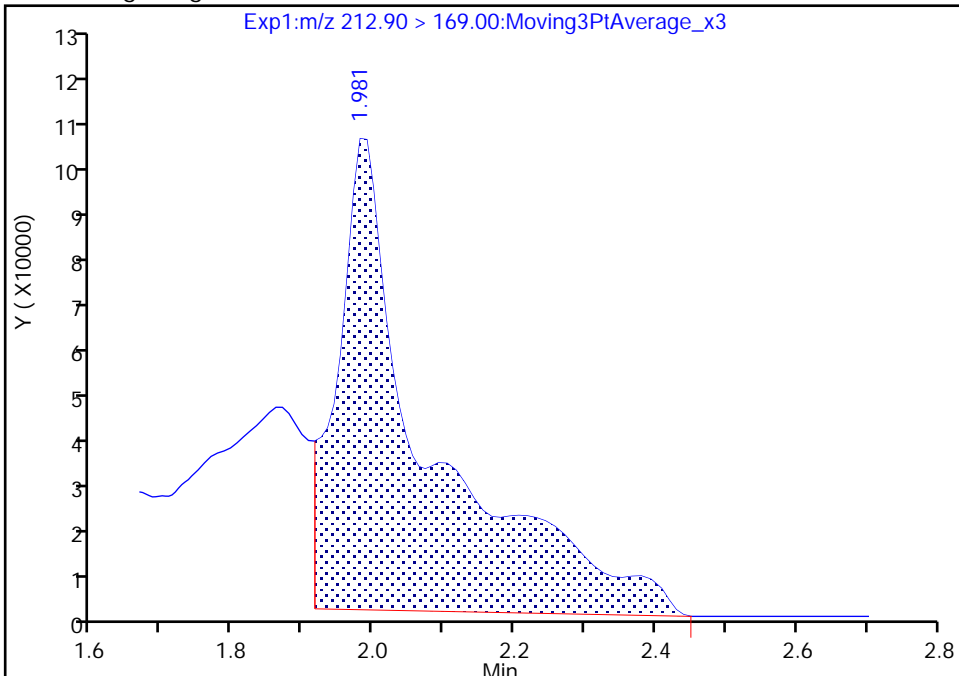
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

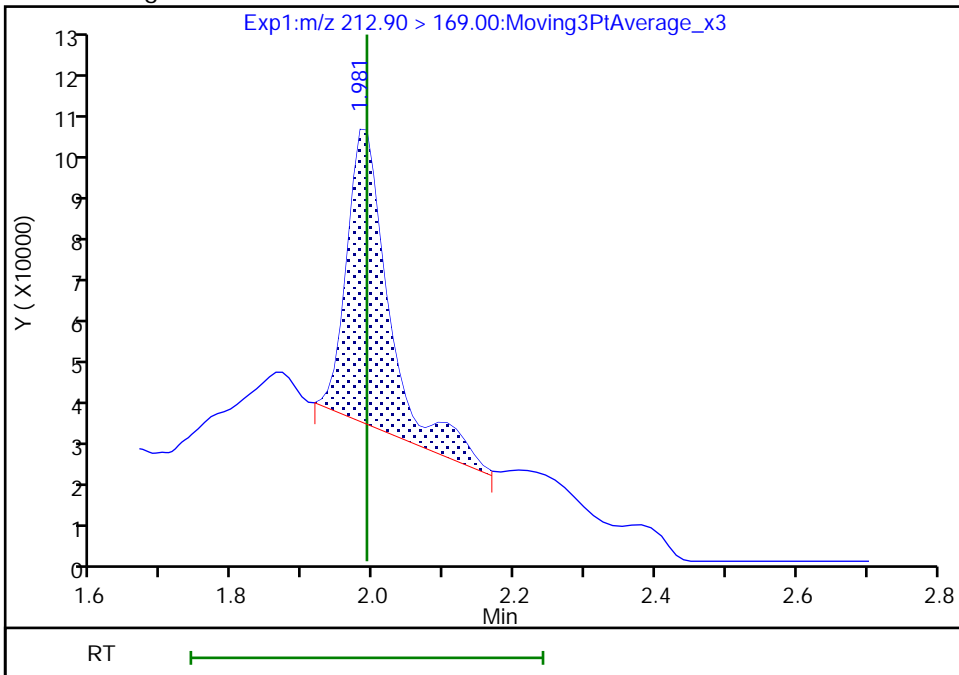
RT: 1.98  
Area: 891101  
Amount: 1.806117  
Amount Units: ng/ml

Processing Integration Results



RT: 1.98  
Area: 282279  
Amount: 0.572134  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:38:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

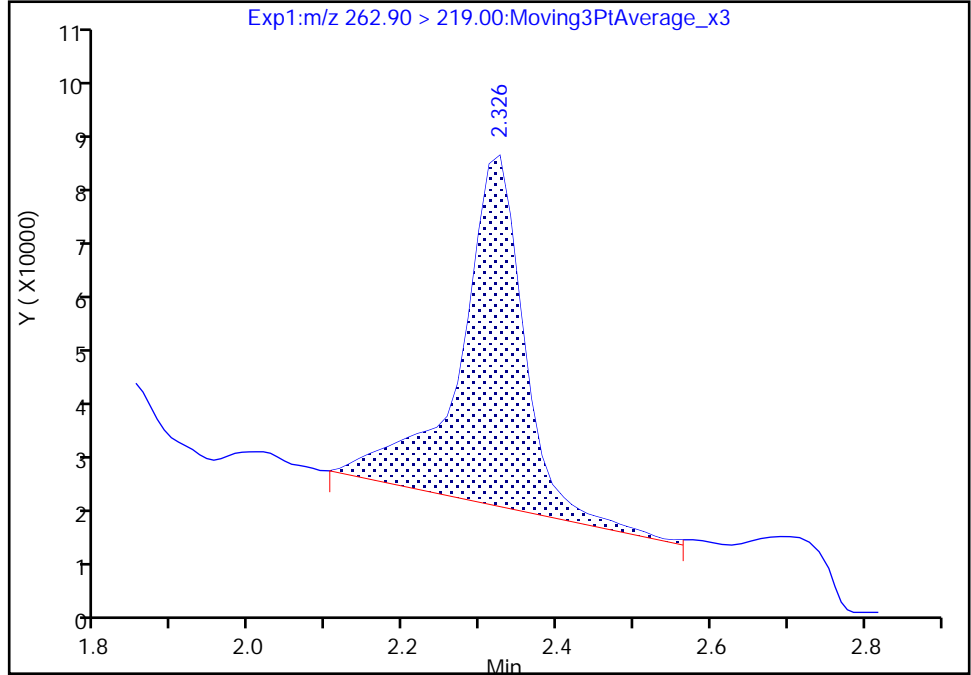
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

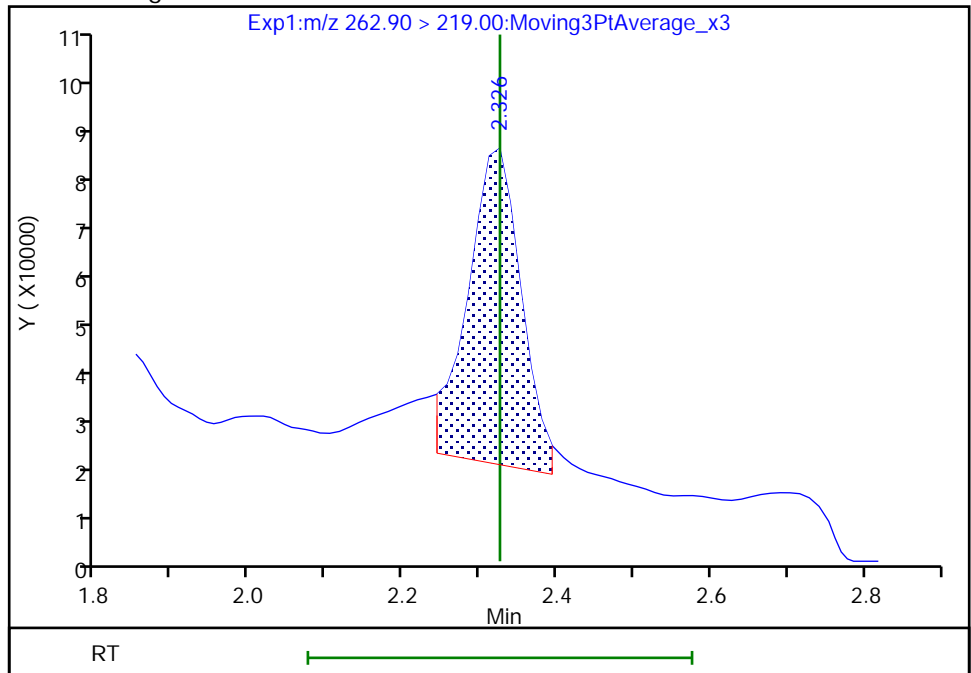
RT: 2.33  
Area: 381832  
Amount: 0.781951  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 309984  
Amount: 0.634814  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:38:38  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

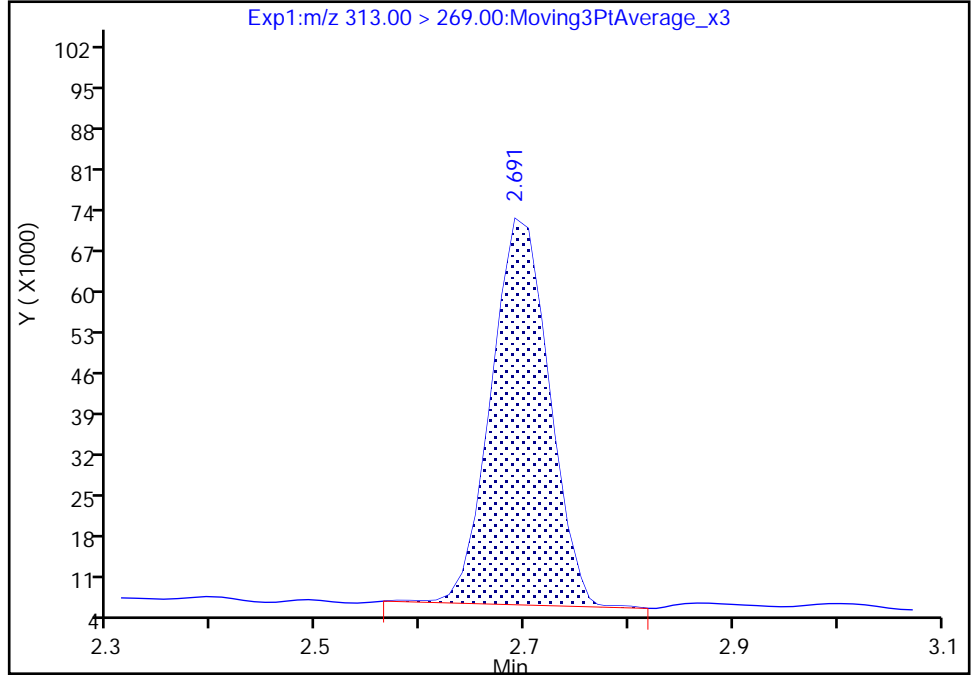
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

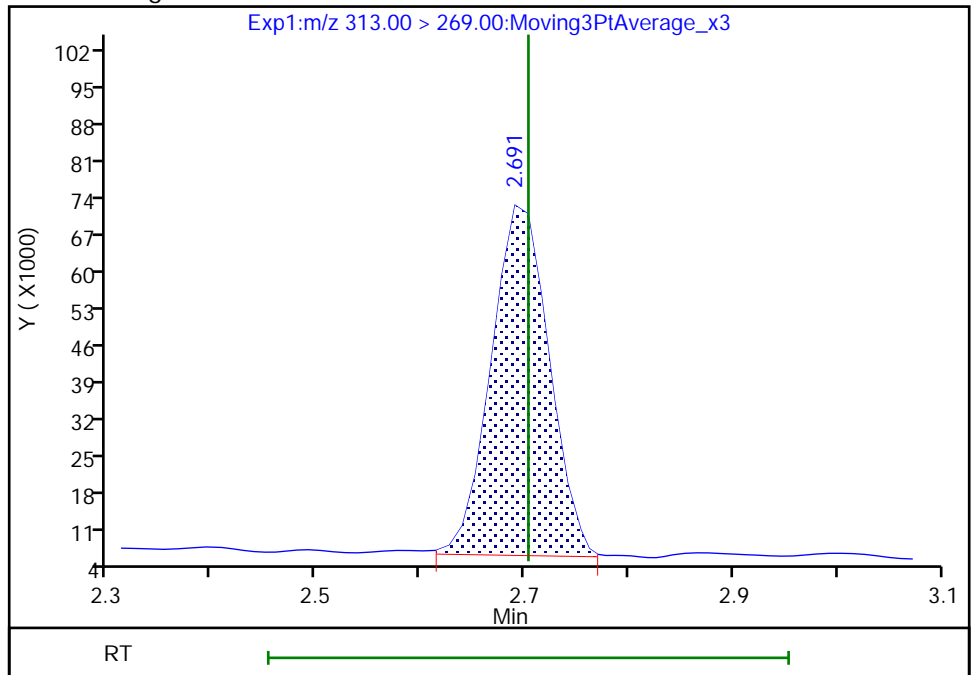
RT: 2.69  
Area: 255366  
Amount: 0.480292  
Amount Units: ng/ml

Processing Integration Results



RT: 2.69  
Area: 255900  
Amount: 0.481296  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:39:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

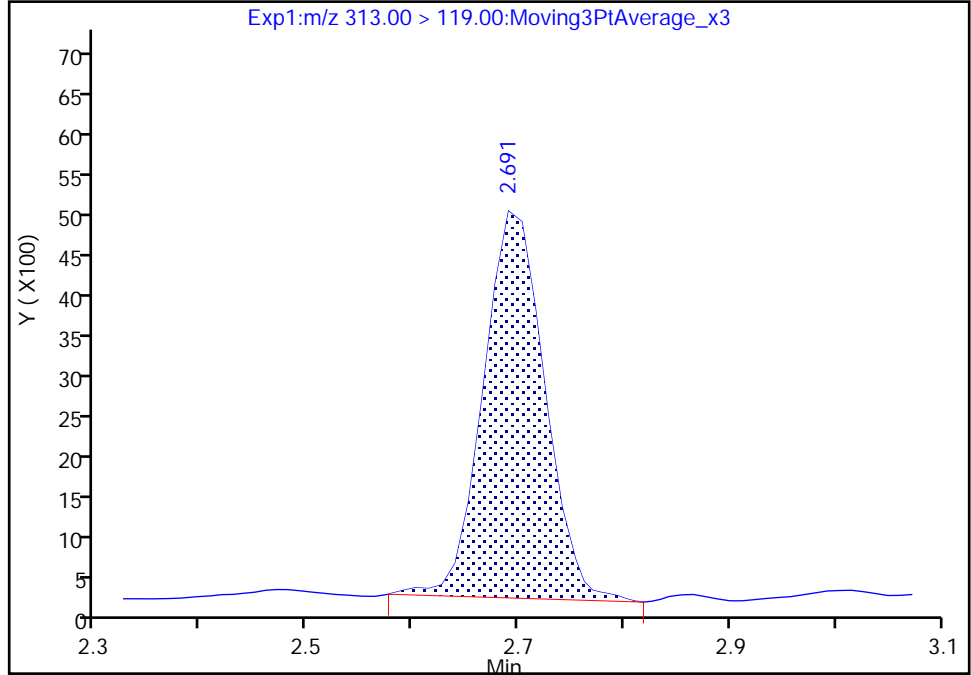
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

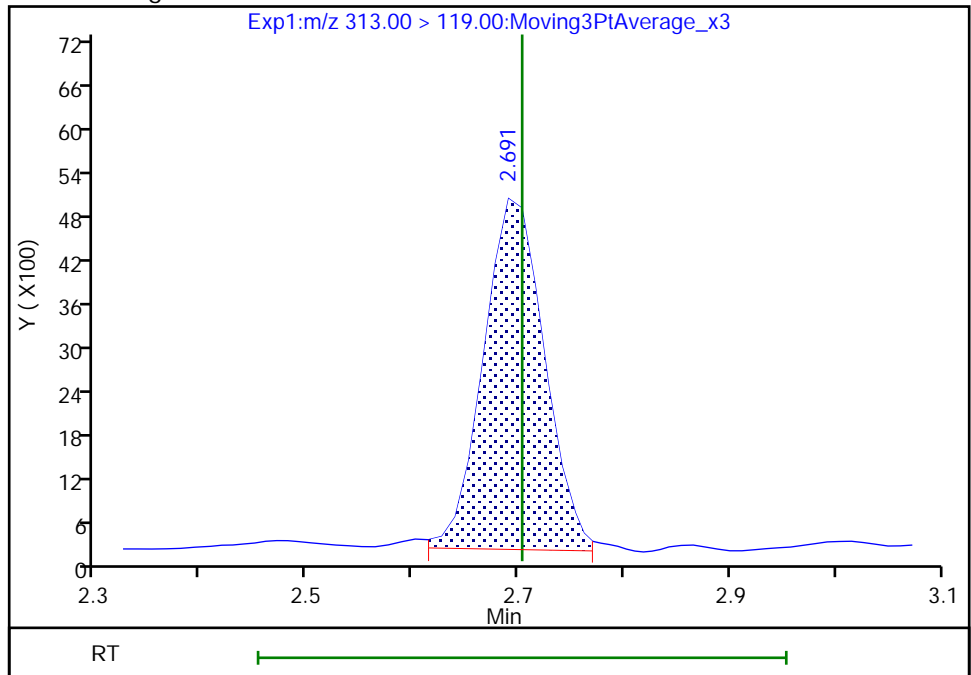
RT: 2.69  
Area: 19317  
Amount: 0.480292  
Amount Units: ng/ml

Processing Integration Results



RT: 2.69  
Area: 19154  
Amount: 0.481296  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:39:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

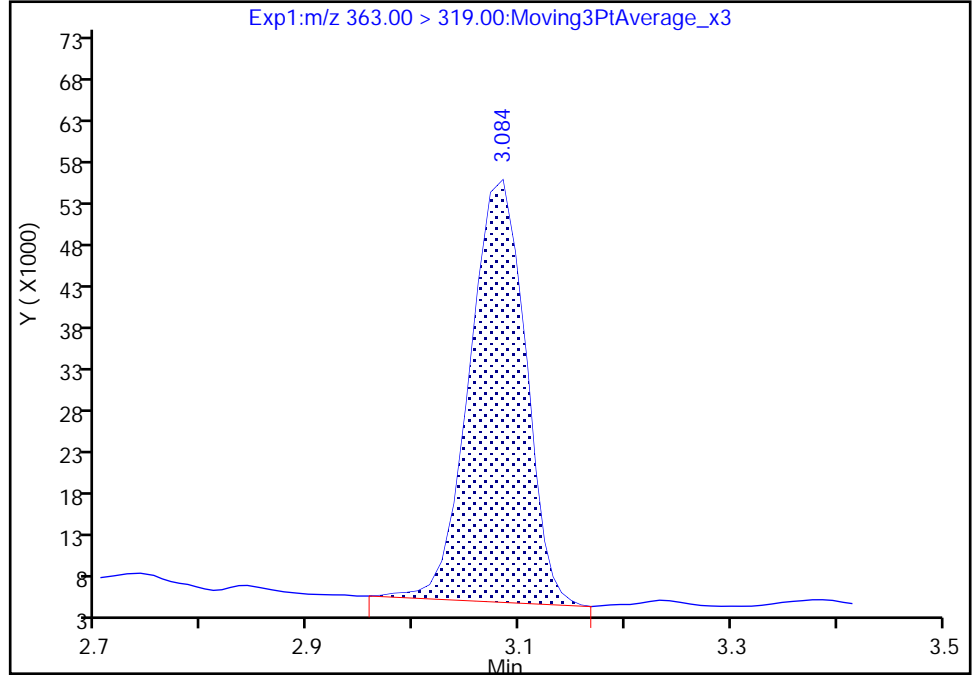
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

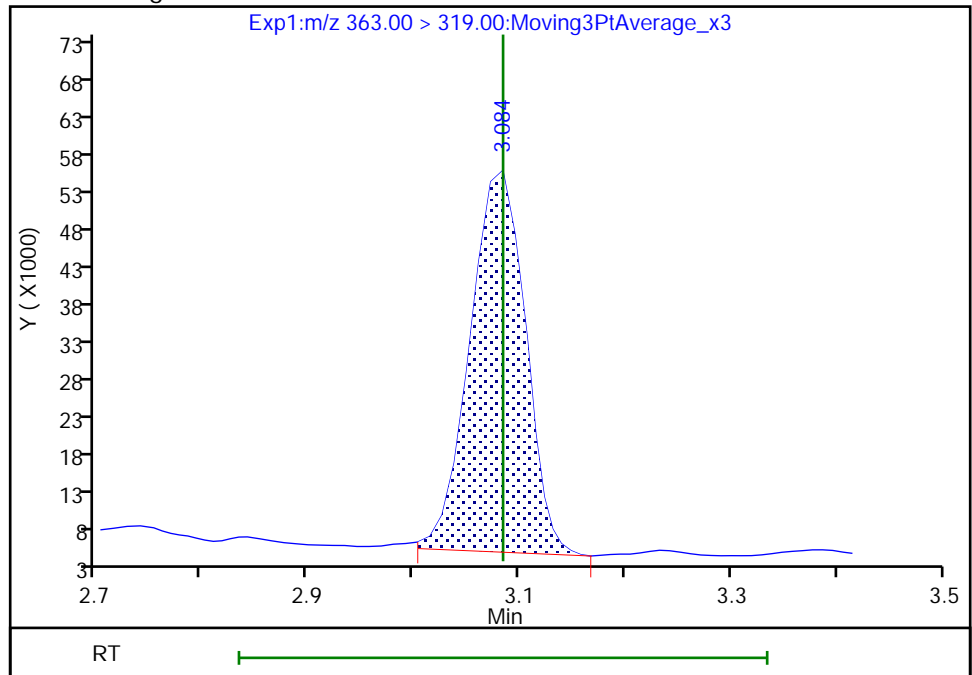
RT: 3.08  
Area: 185577  
Amount: 0.409155  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 184457  
Amount: 0.406686  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:39:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

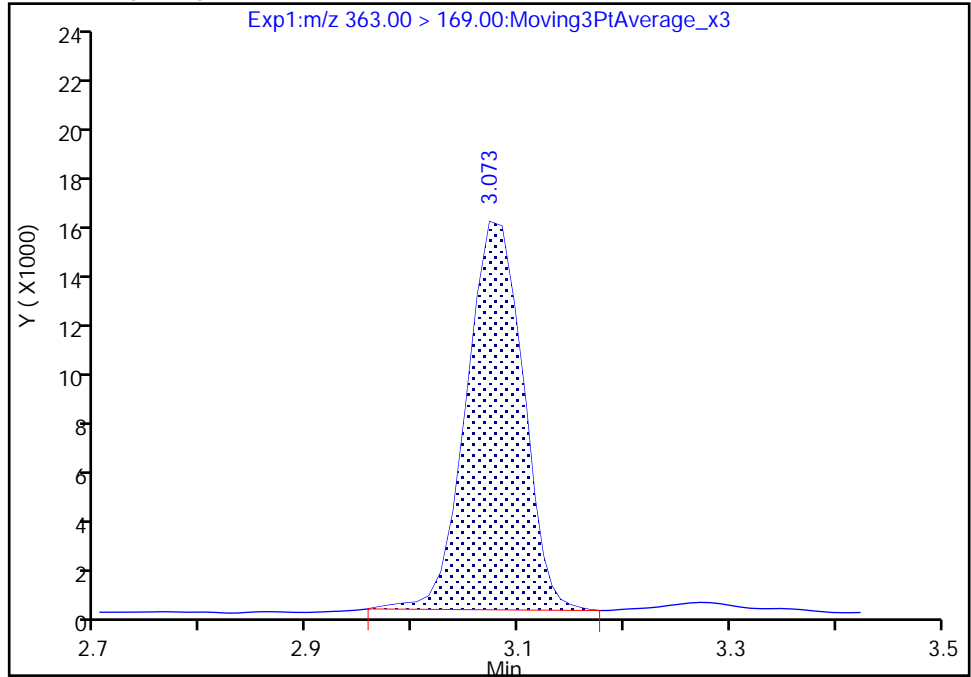
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

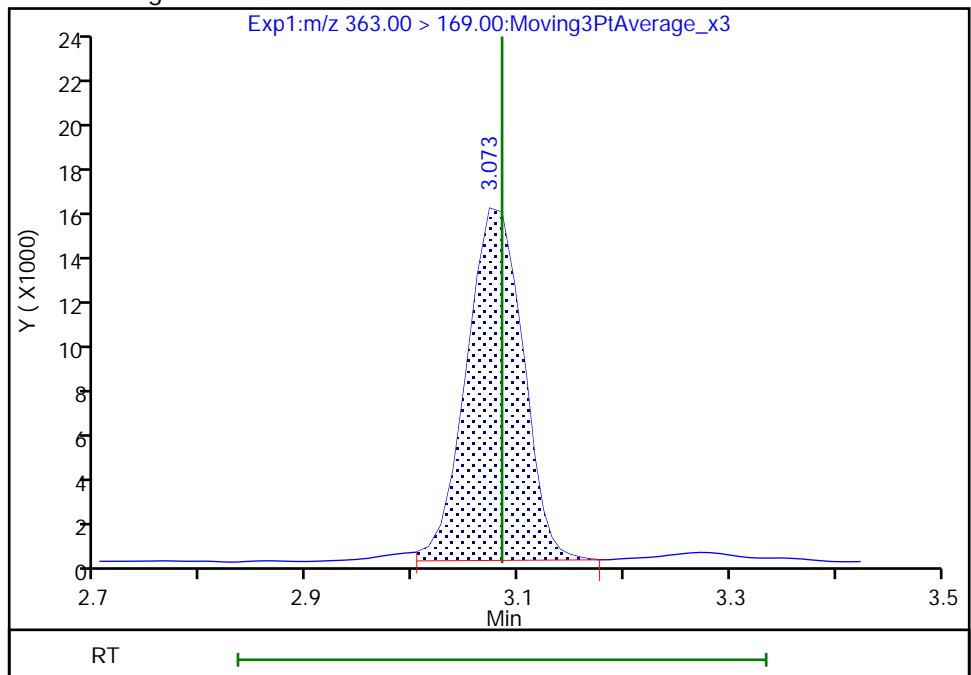
RT: 3.07  
Area: 57335  
Amount: 0.409155  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 57403  
Amount: 0.406686  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:39:41

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

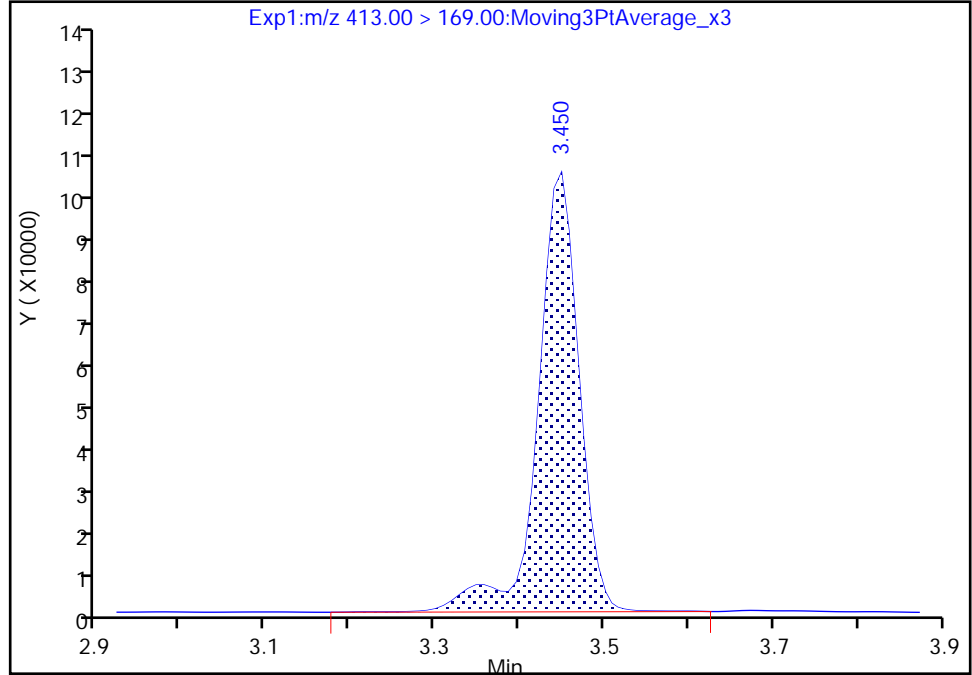
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

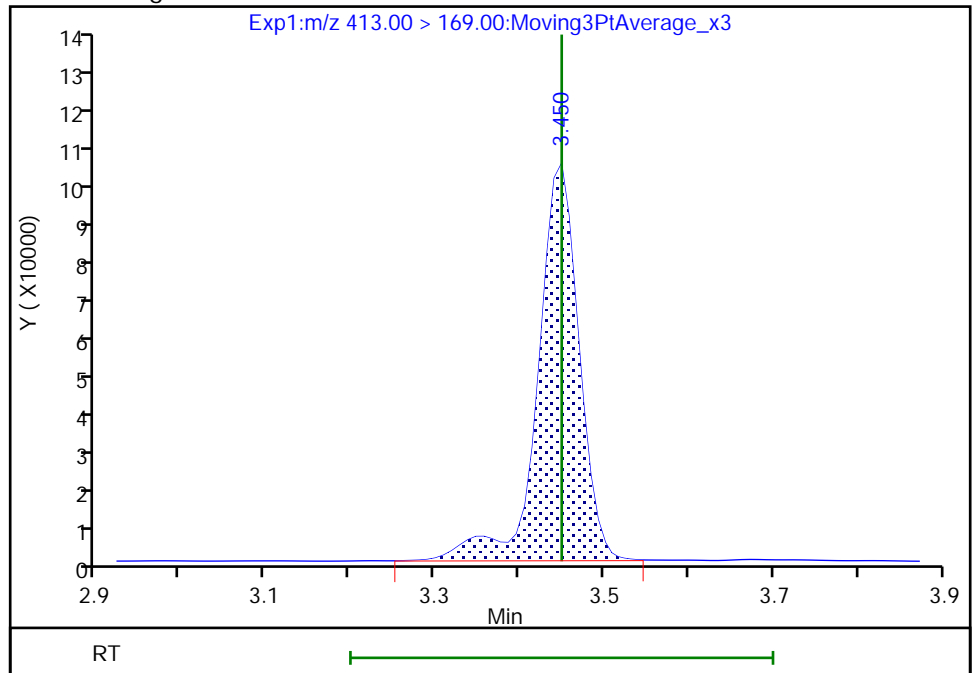
RT: 3.45  
Area: 344345  
Amount: 1.490985  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 343633  
Amount: 1.490985  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:40:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

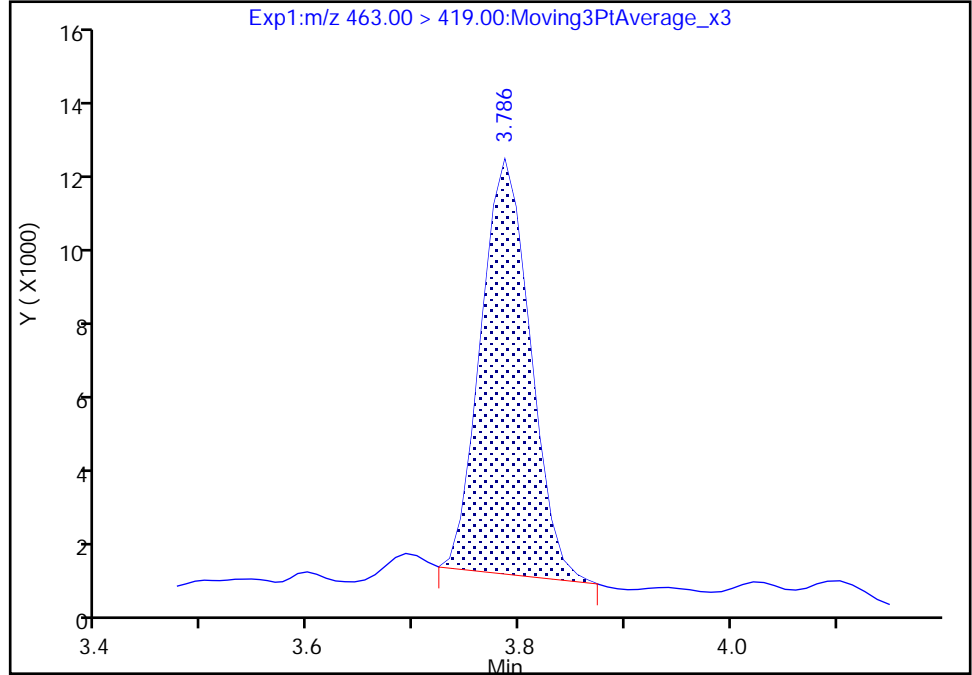
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

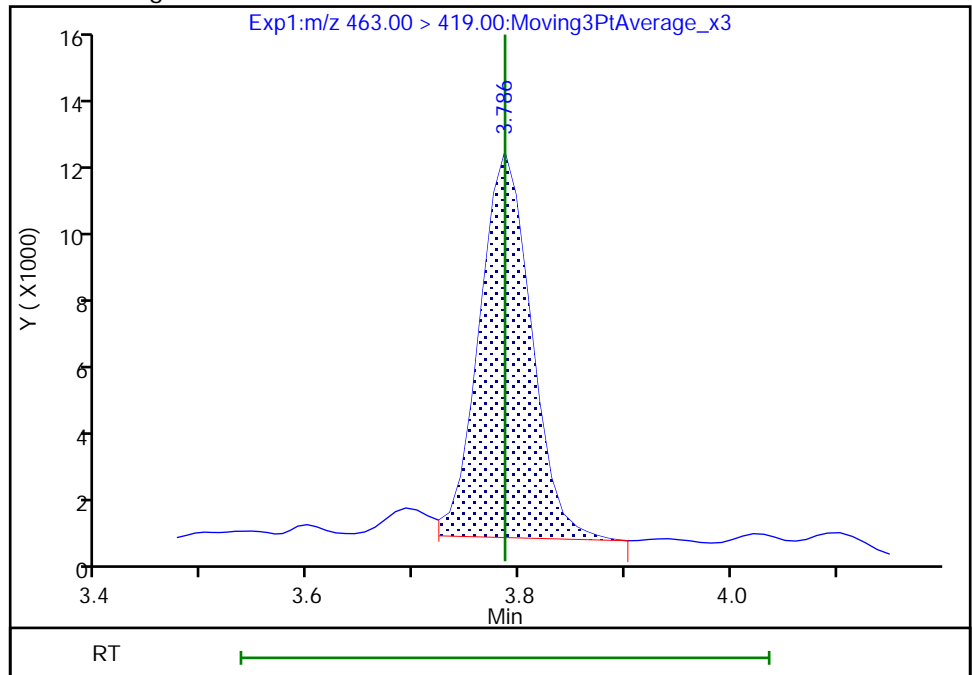
RT: 3.79  
Area: 33779  
Amount: 0.082003  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 36358  
Amount: 0.088264  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:40:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

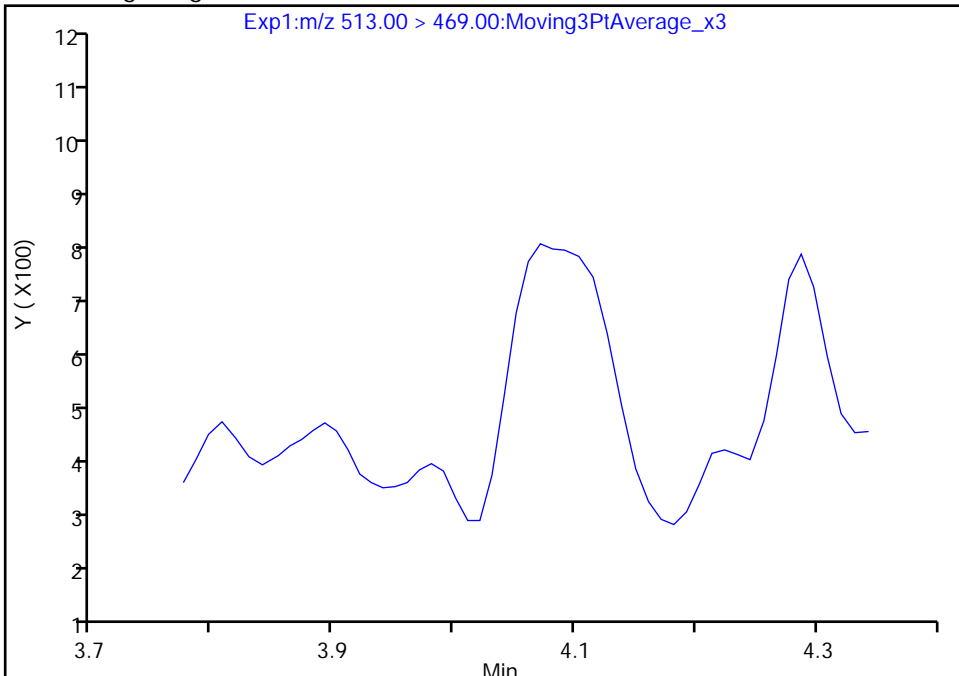
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

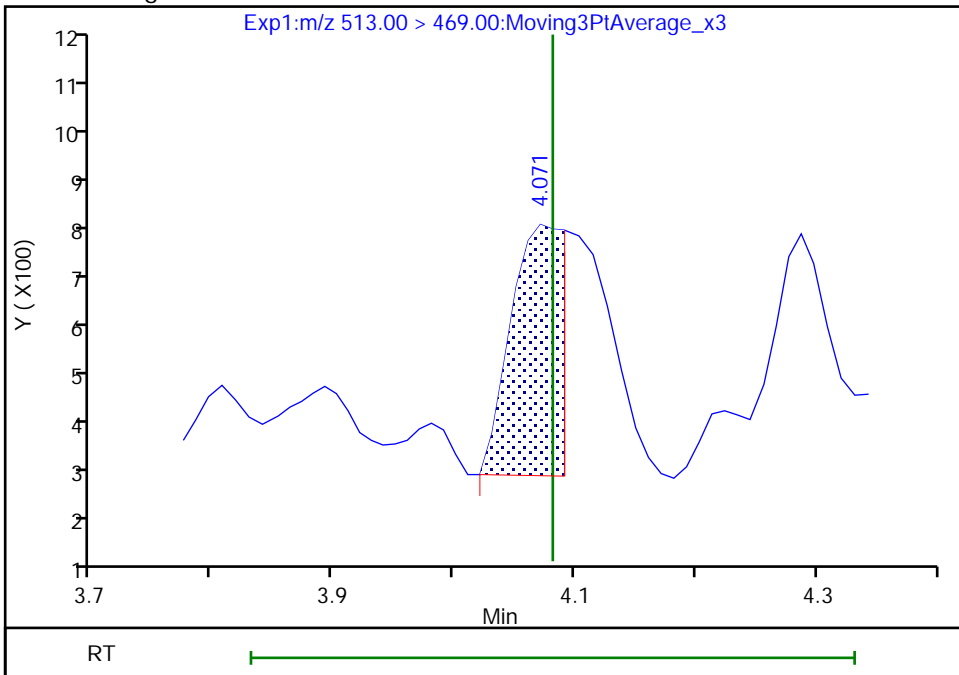
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.07  
Area: 1402  
Amount: 0.003915  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:41:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

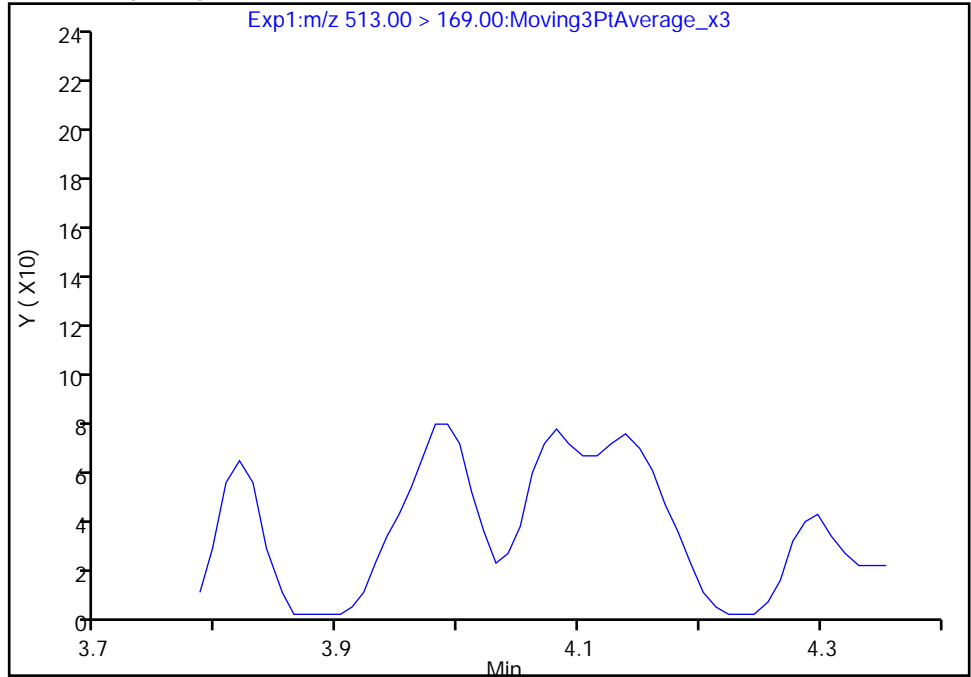
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

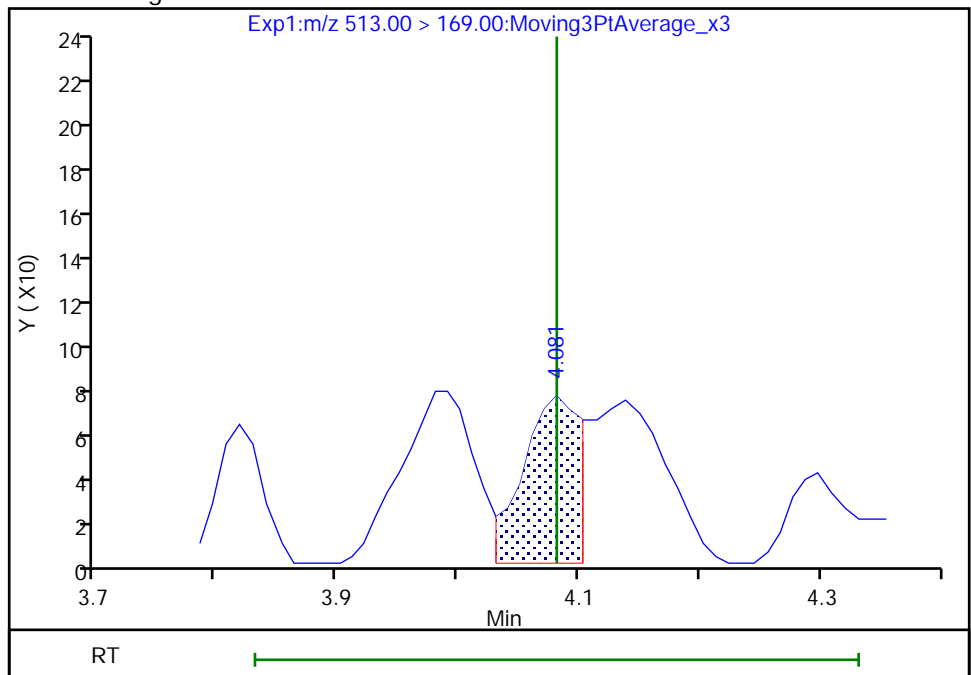
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 234  
Amount: 0.003915  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:41:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

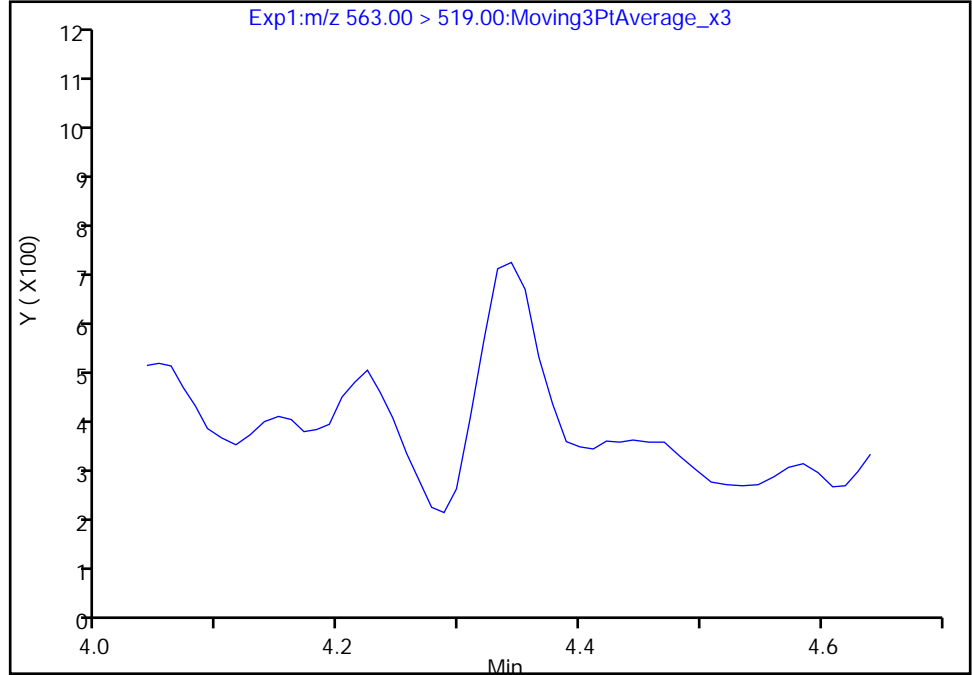
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

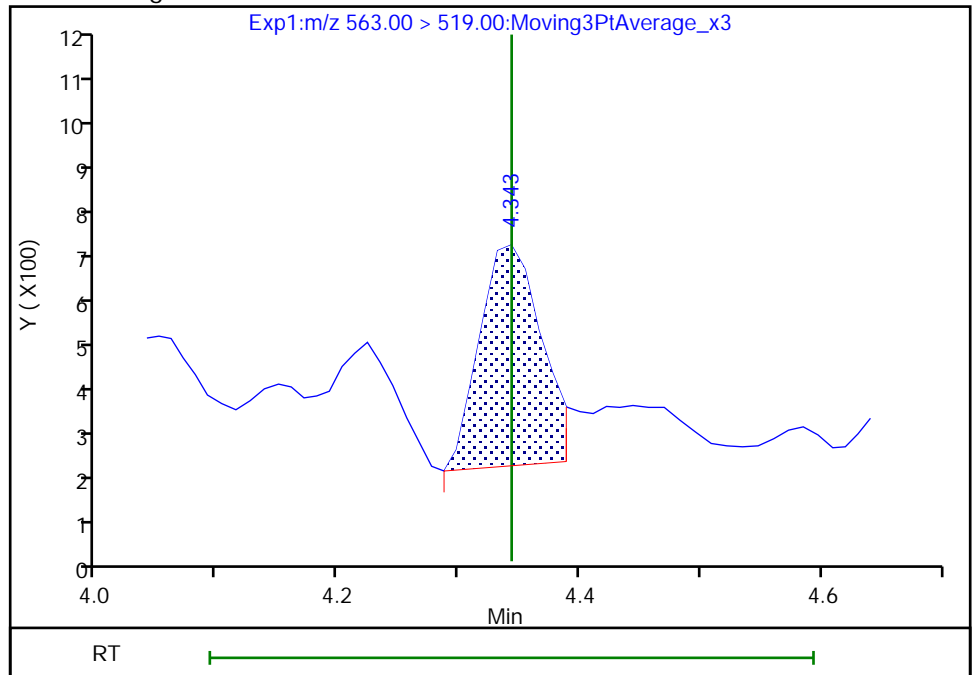
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 1635  
Amount: 0.007024  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:42:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

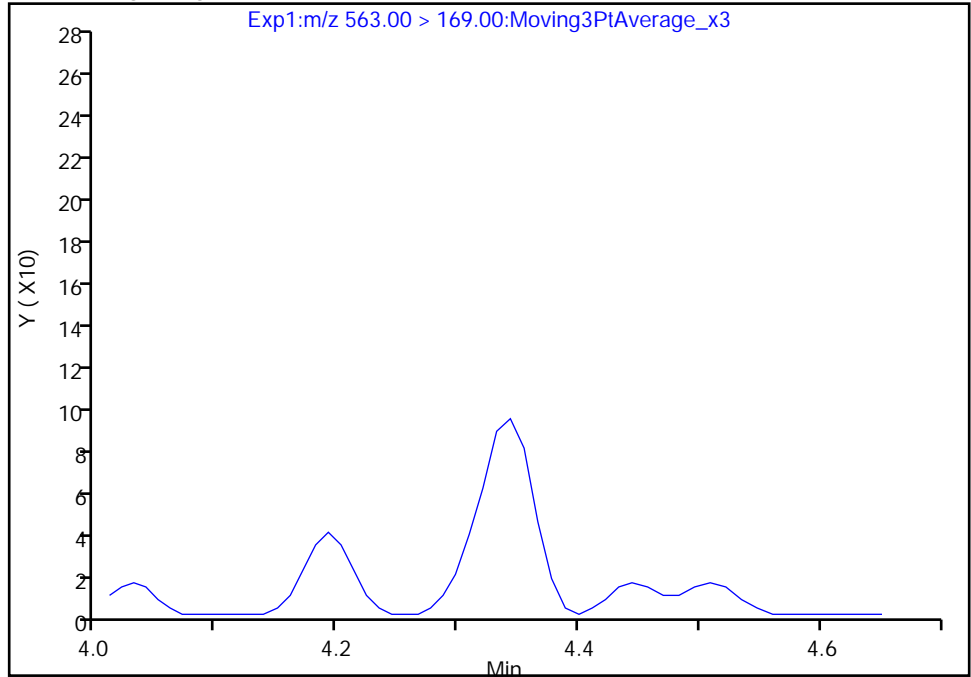
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

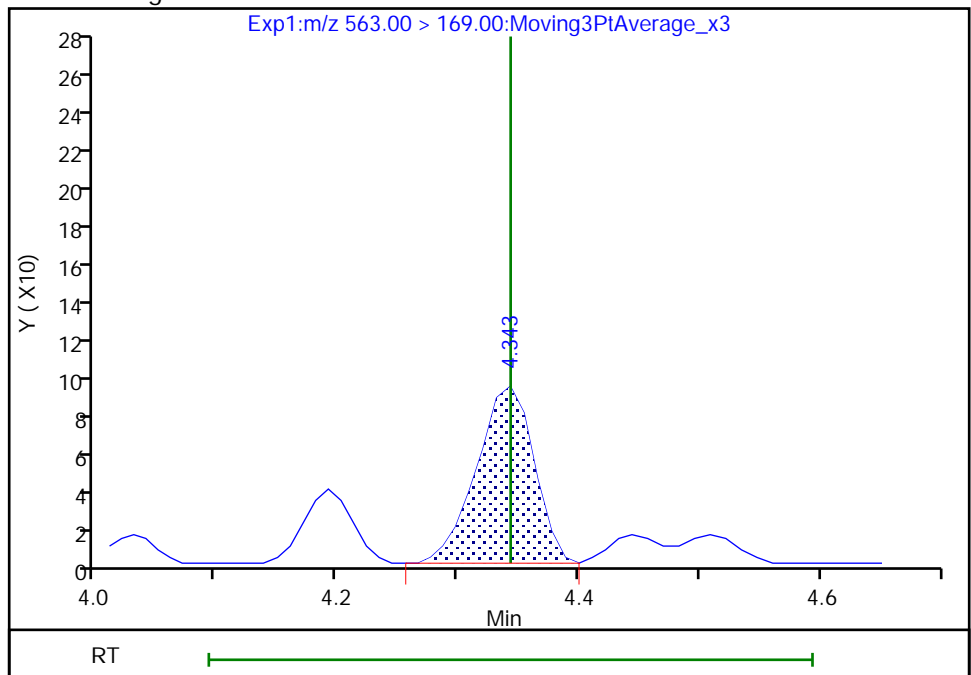
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 306  
Amount: 0.007024  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:42:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

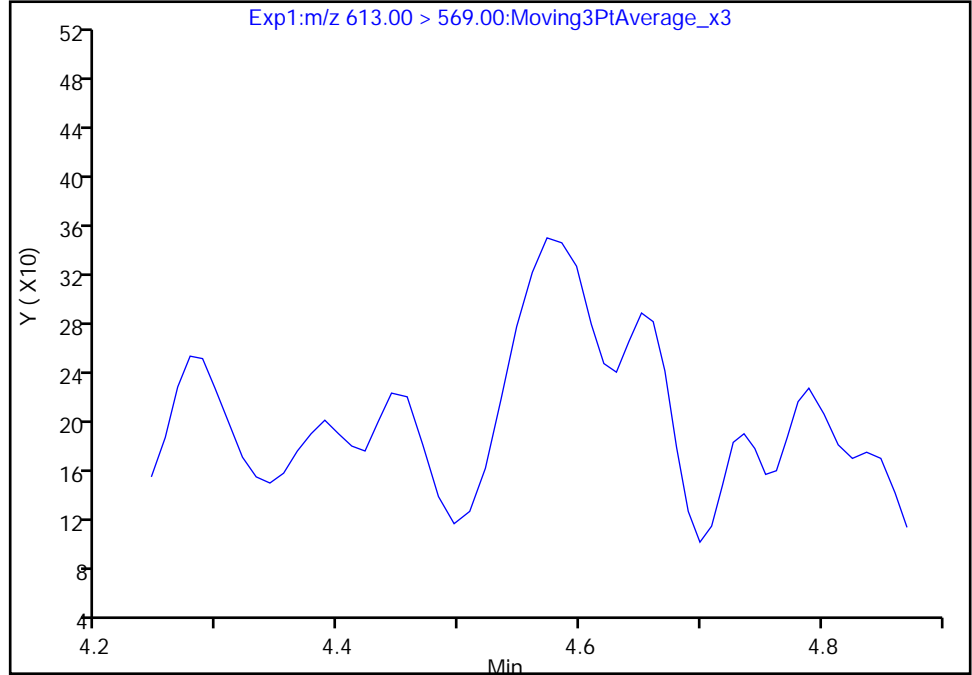
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

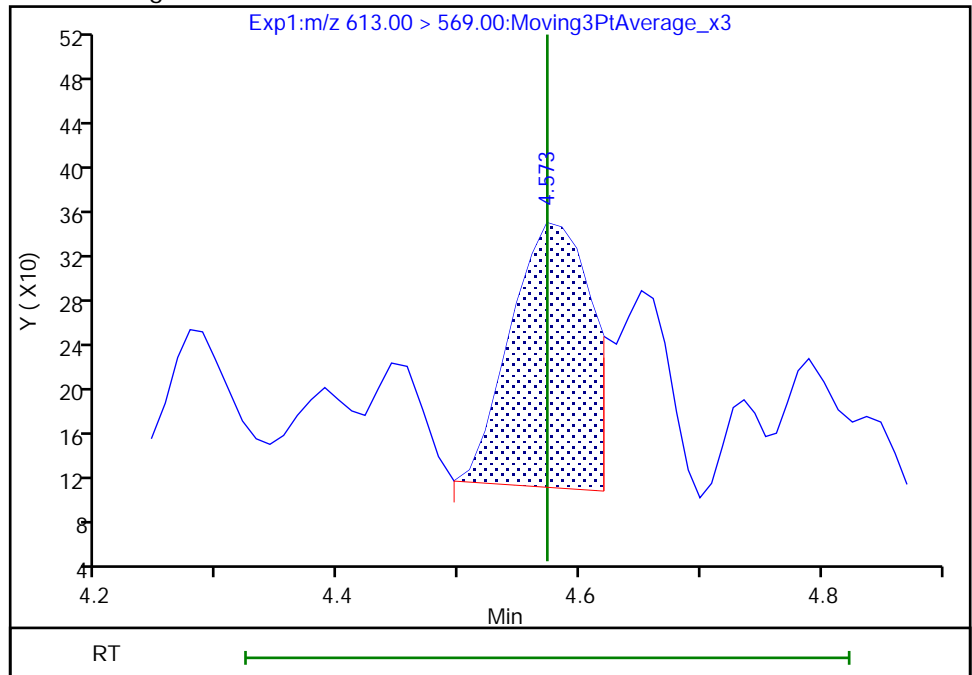
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57  
Area: 1073  
Amount: 0.004542  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:42:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

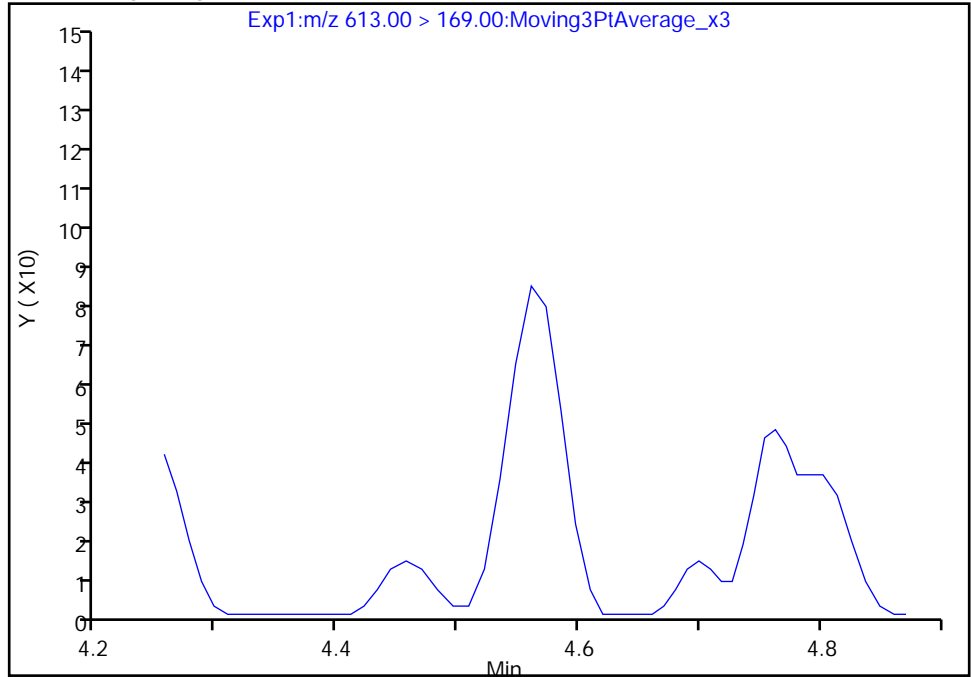
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

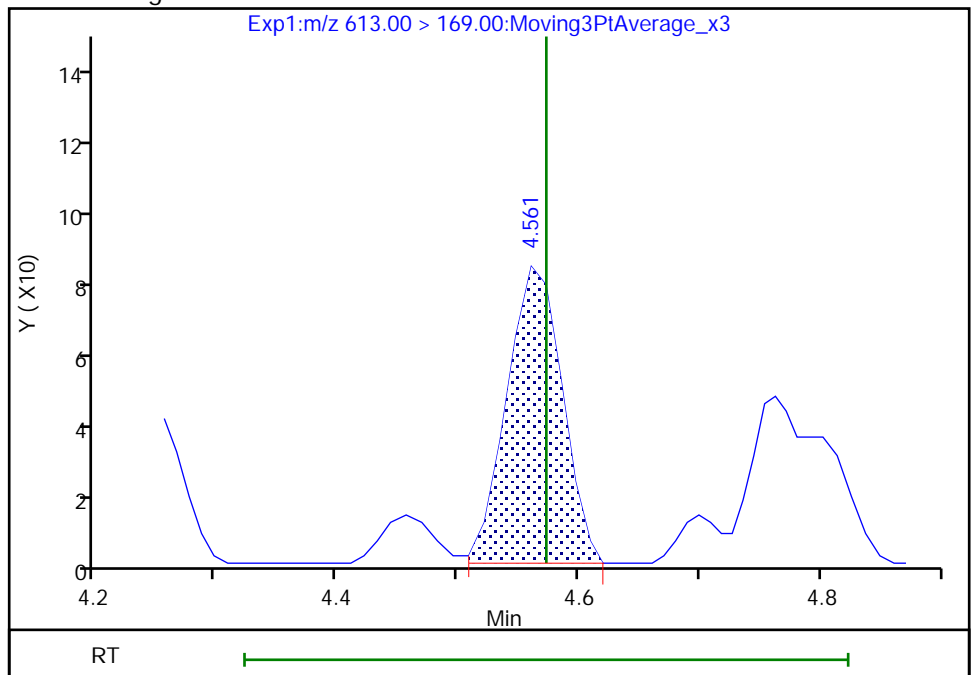
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.56  
Area: 254  
Amount: 0.004542  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:42:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

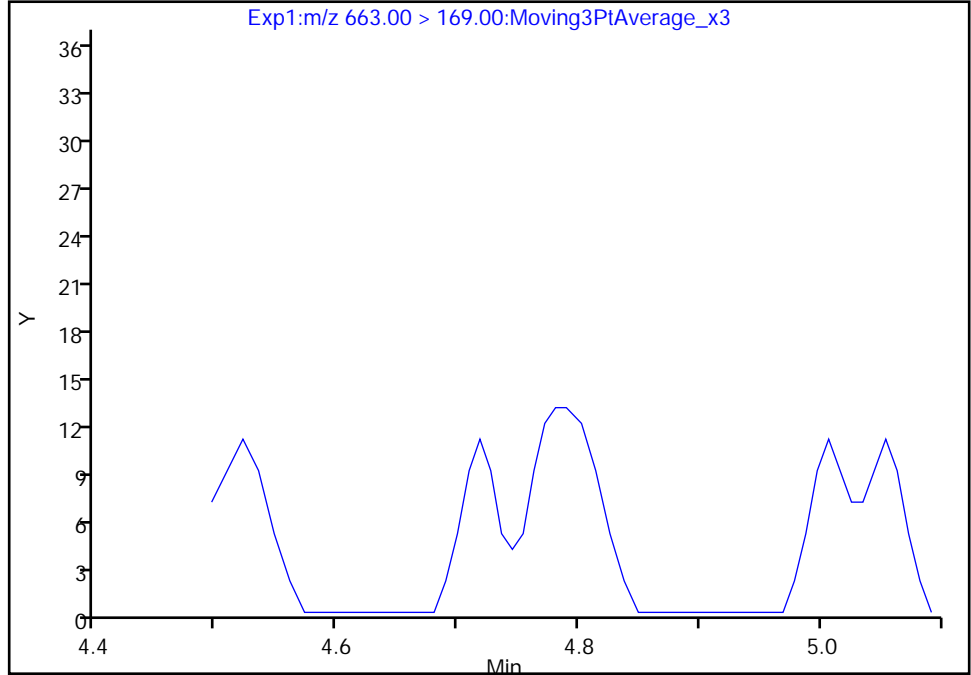
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

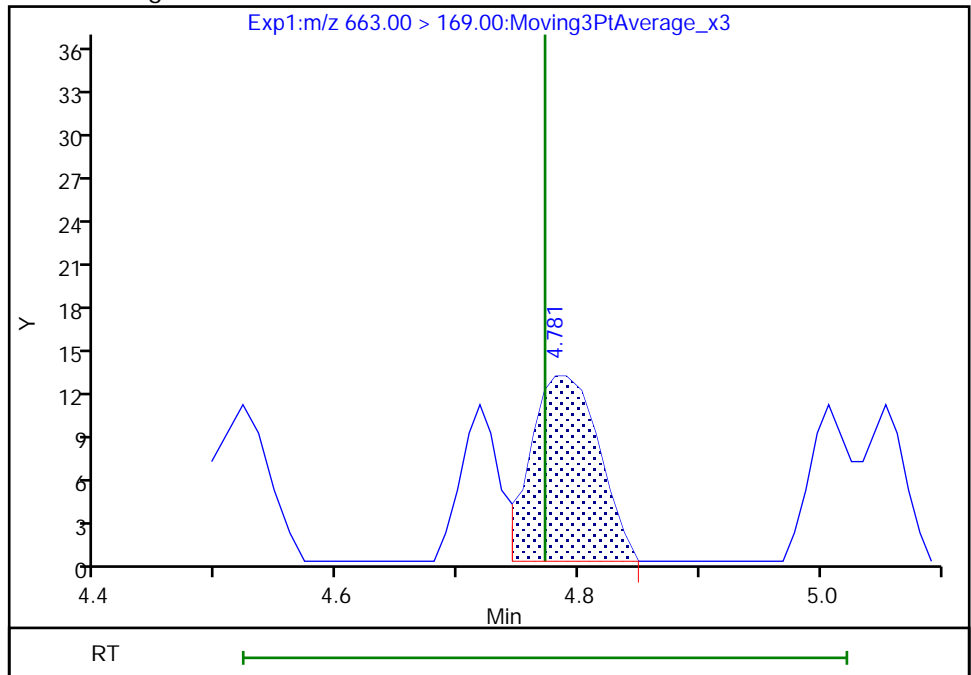
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.78  
Area: 50  
Amount: 0.005732  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:43:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

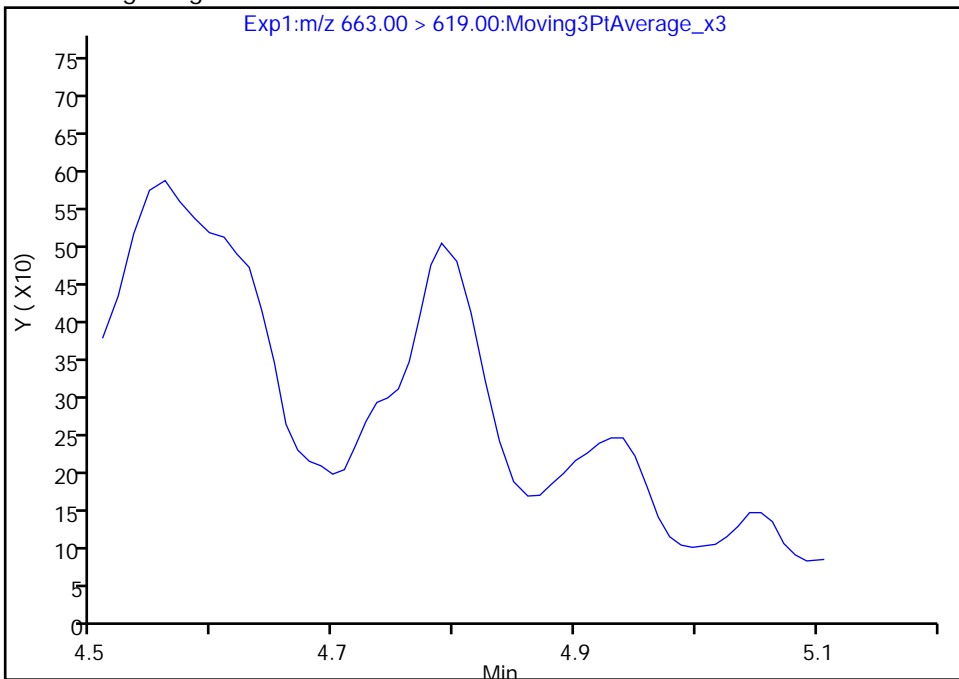
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

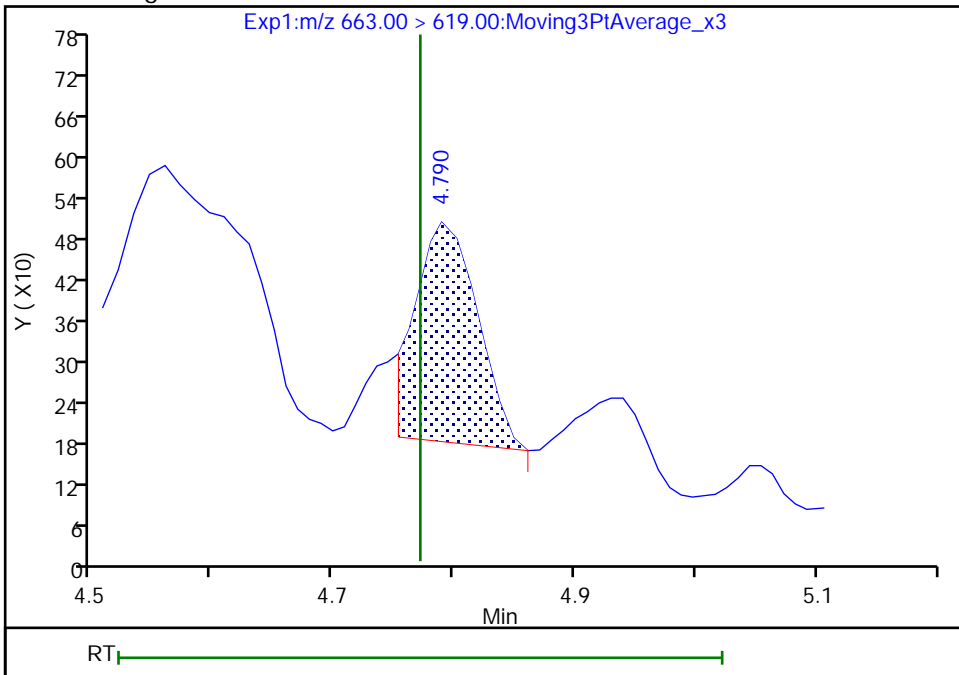
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.79  
Area: 1150  
Amount: 0.005732  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

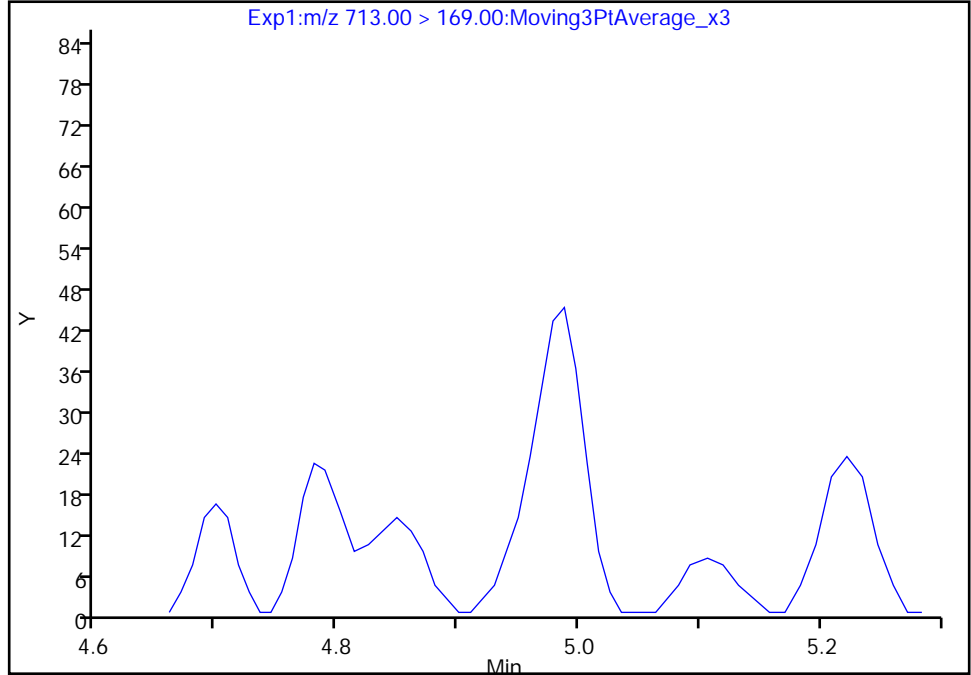
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

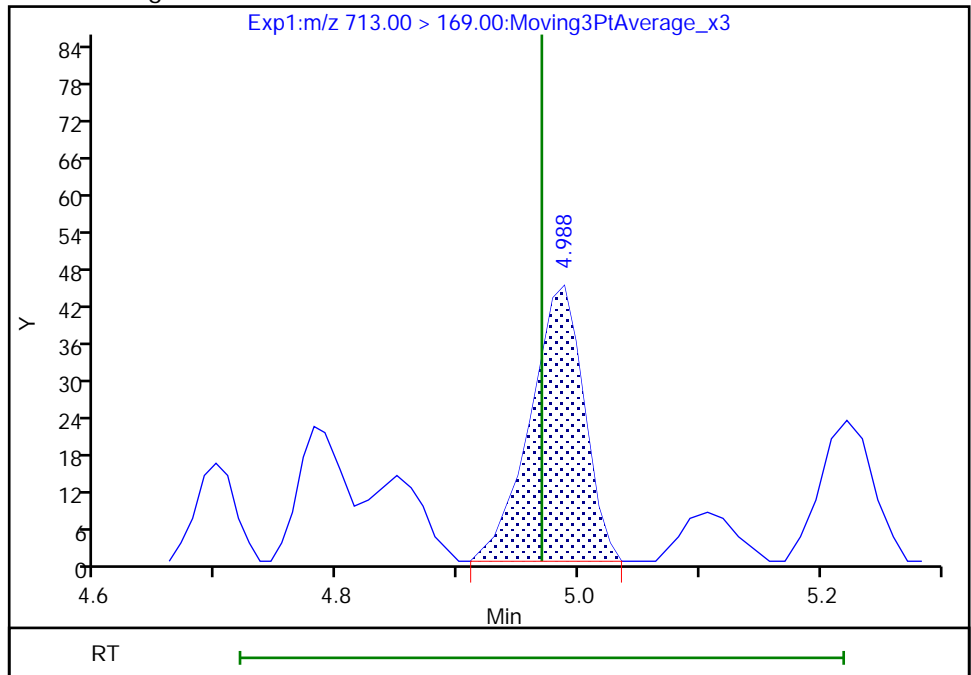
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.99  
Area: 138  
Amount: 0.003455  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:43:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

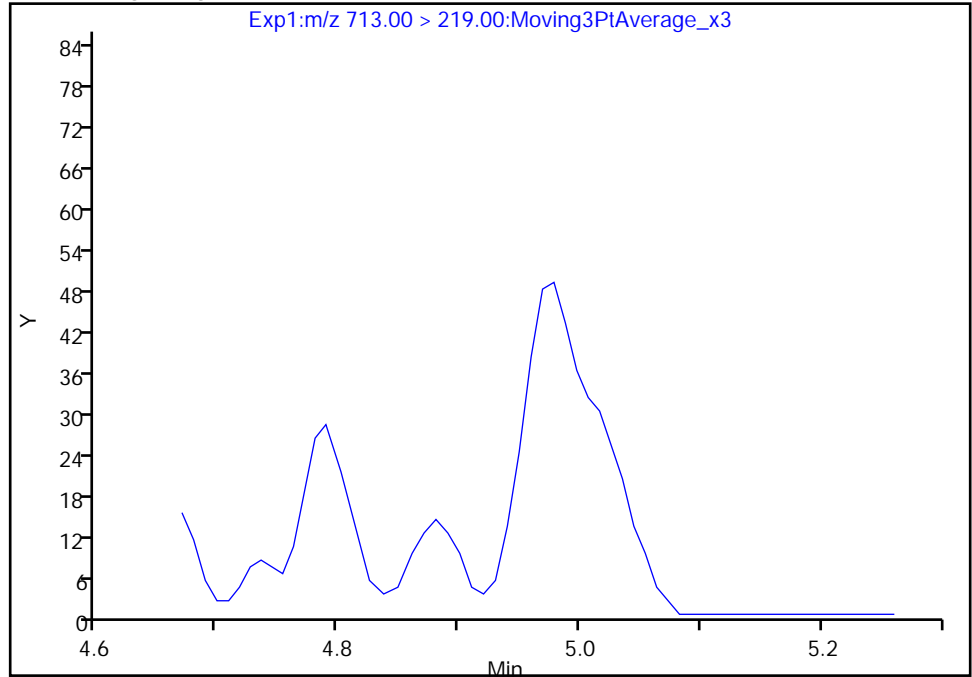
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

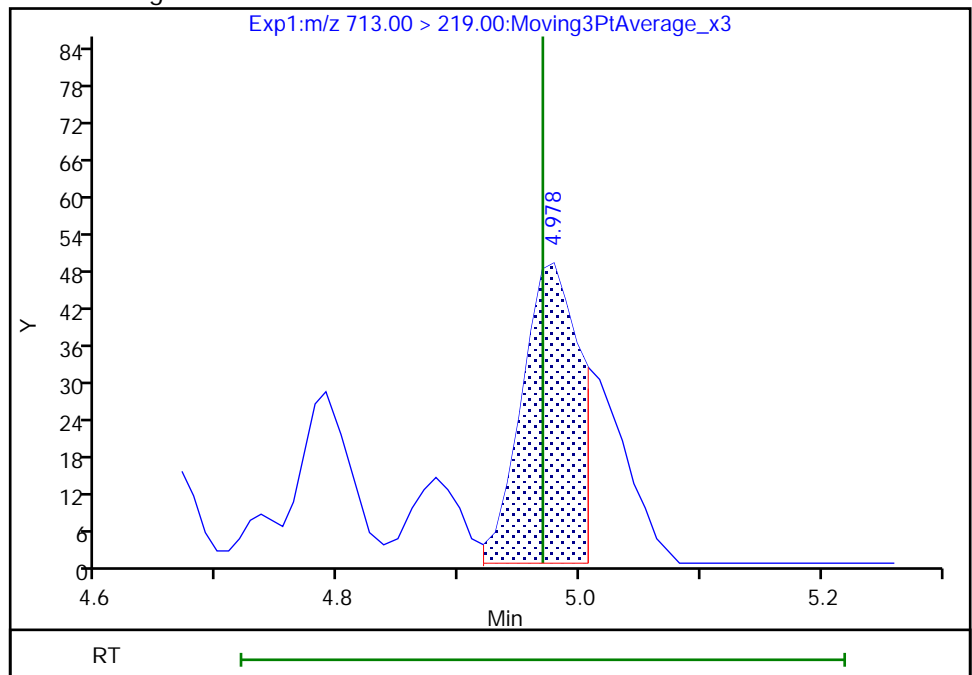
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 156  
Amount: 0.003455  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:43:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

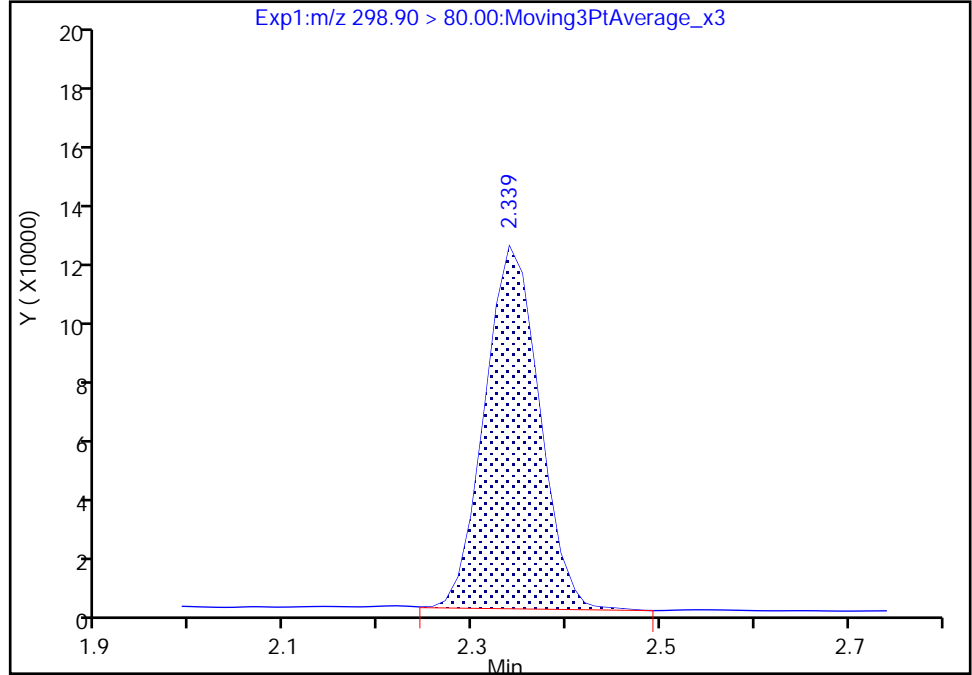
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

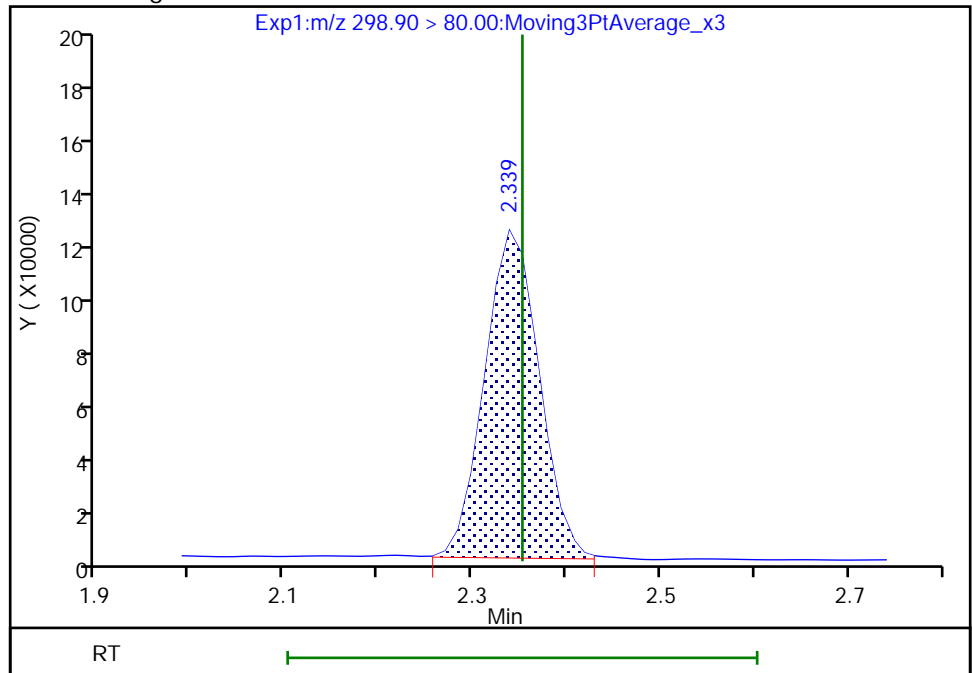
RT: 2.34  
Area: 480716  
Amount: 0.805592  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 478706  
Amount: 0.802223  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:38:52  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

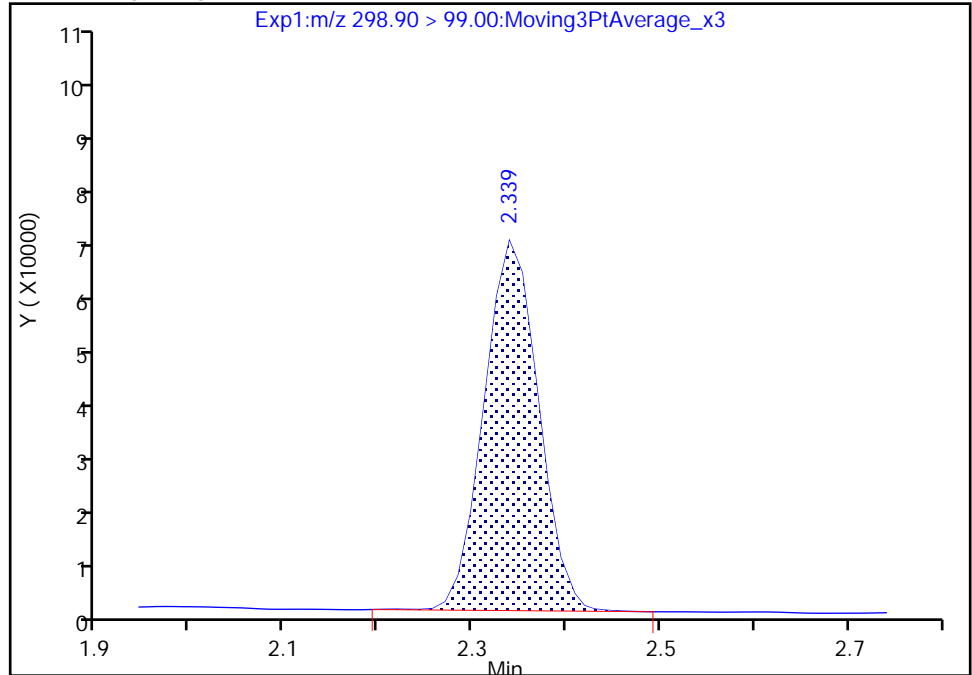
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

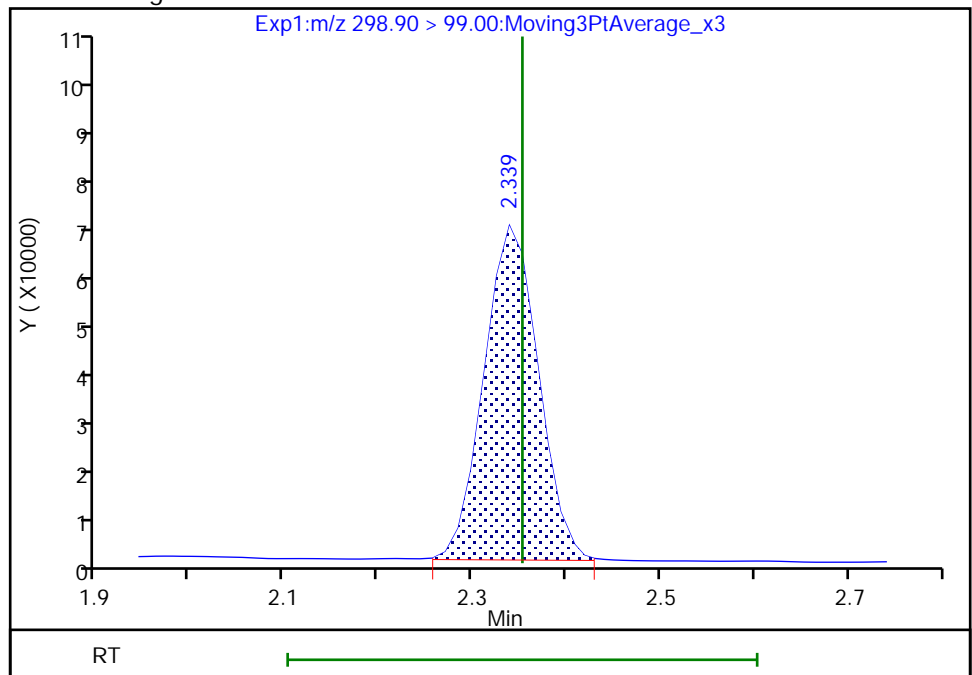
RT: 2.34  
Area: 256794  
Amount: 0.805592  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 256323  
Amount: 0.802223  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:38:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

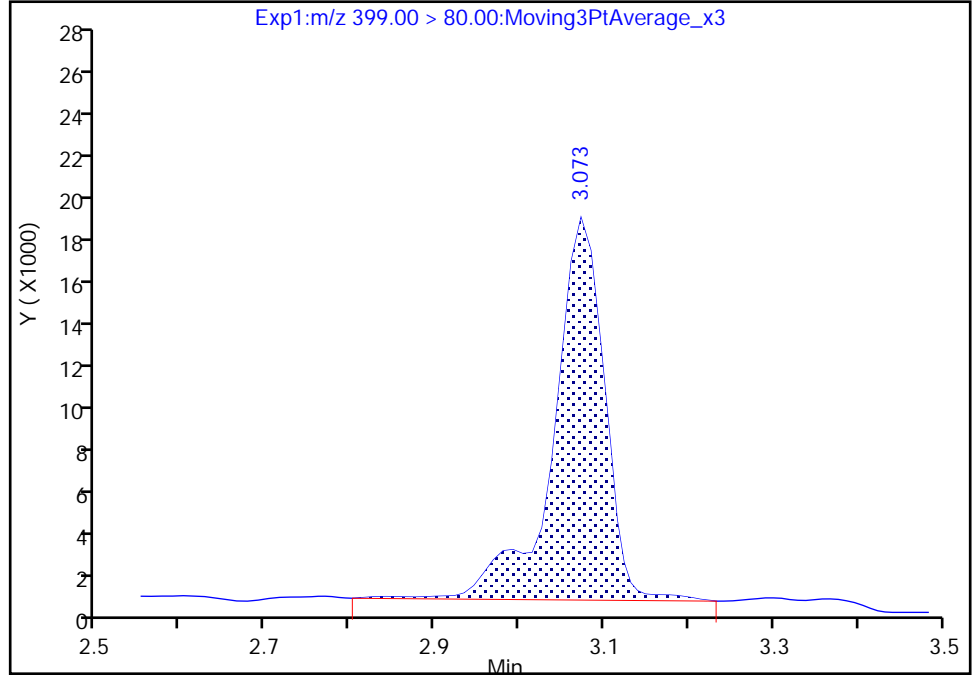
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

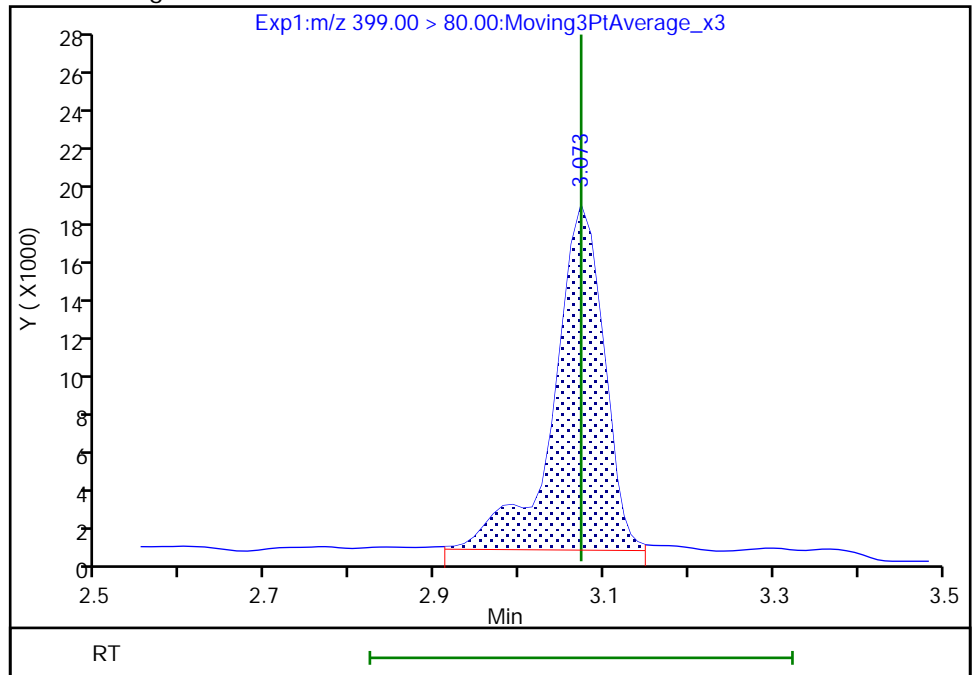
RT: 3.07  
Area: 75281  
Amount: 0.153303  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 73863  
Amount: 0.150416  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:39:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

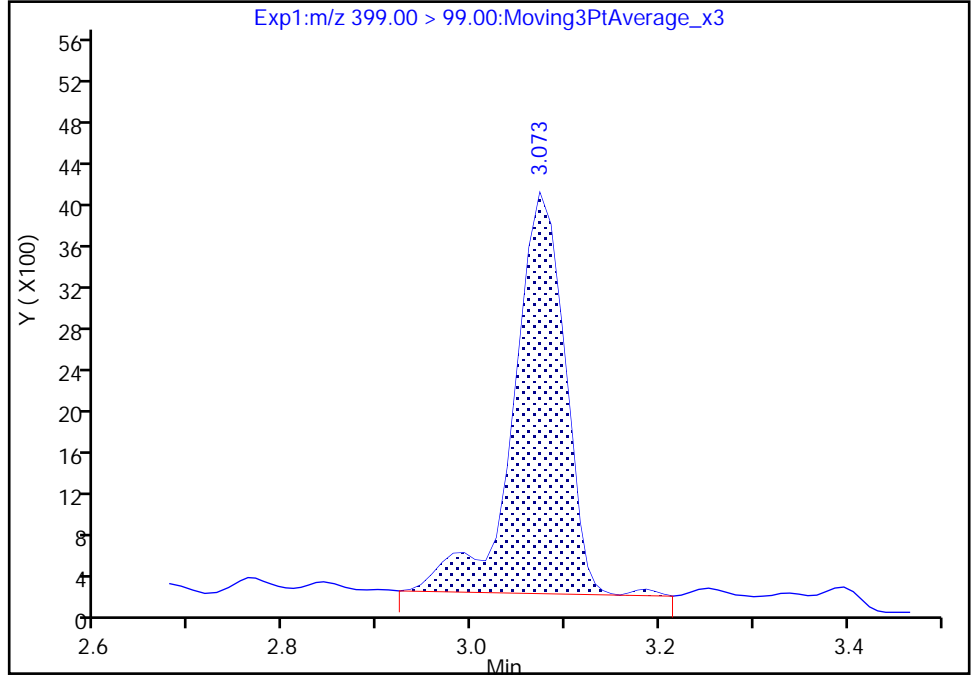
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

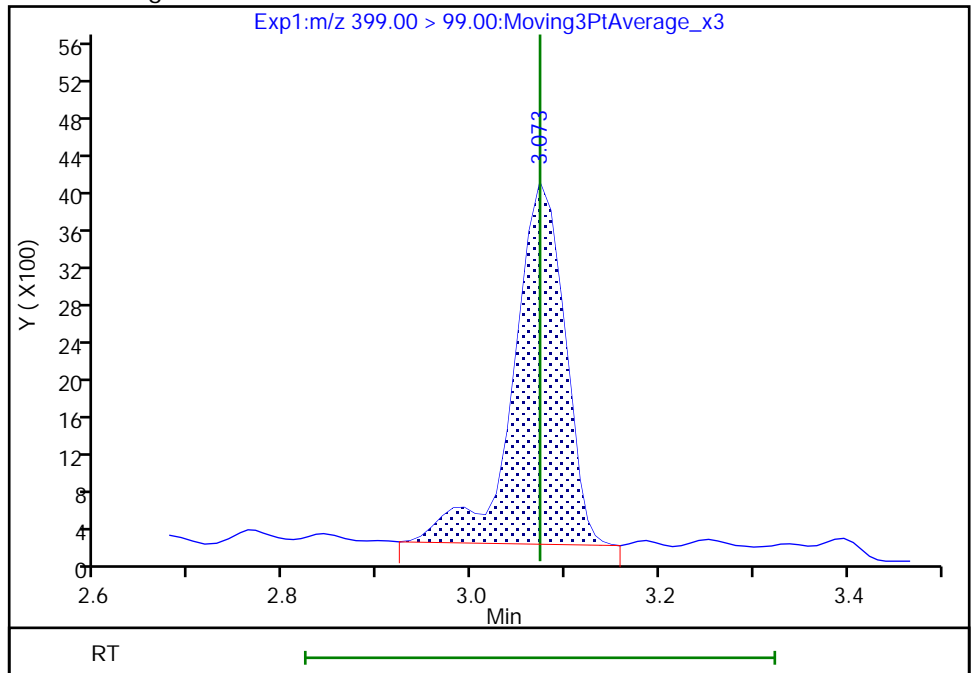
RT: 3.07  
Area: 14995  
Amount: 0.153303  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 14882  
Amount: 0.150416  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

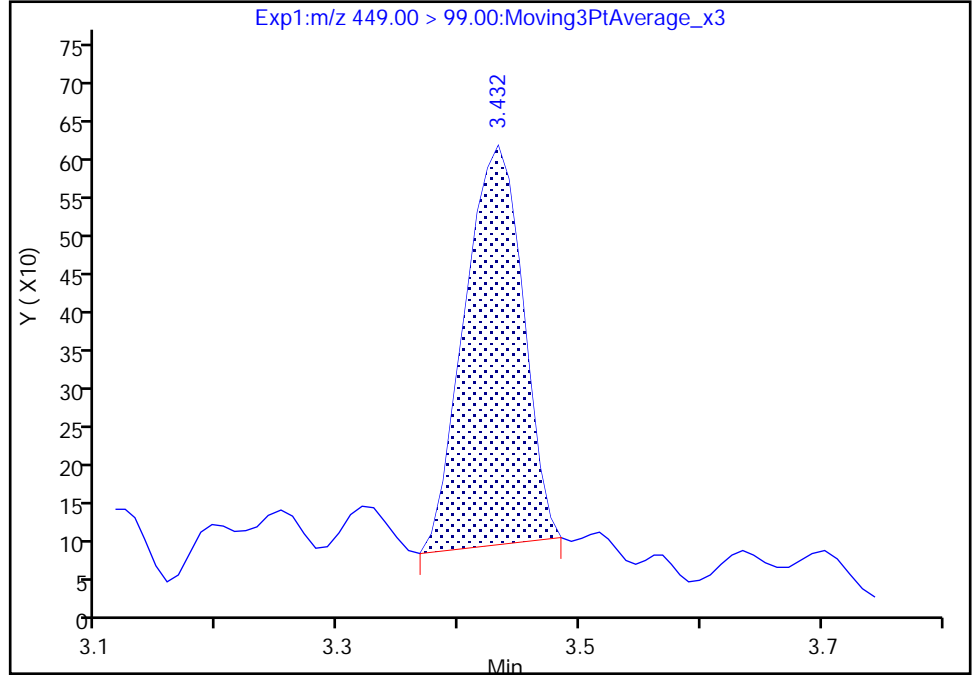
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

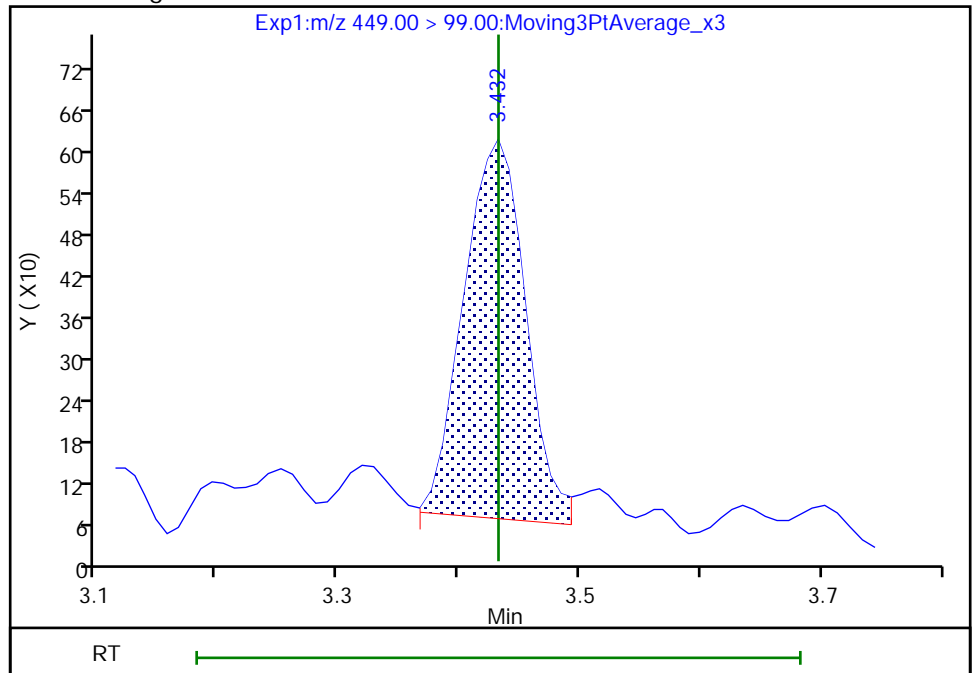
RT: 3.43  
Area: 1749  
Amount: 0.033215  
Amount Units: ng/ml

Processing Integration Results



RT: 3.43  
Area: 1945  
Amount: 0.033215  
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 01-Oct-2020 17:19:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

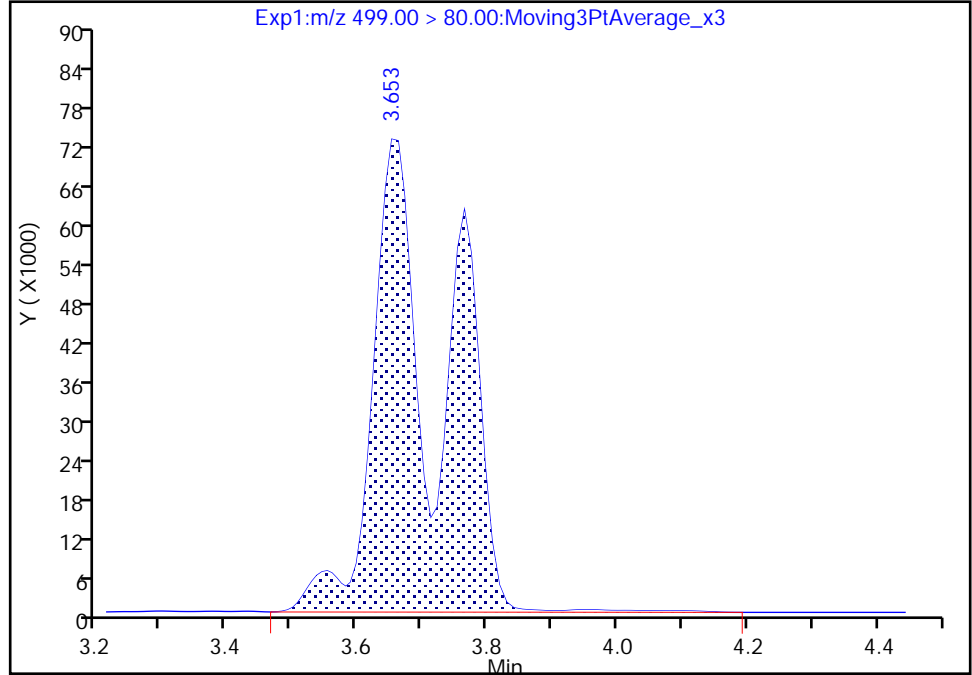
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

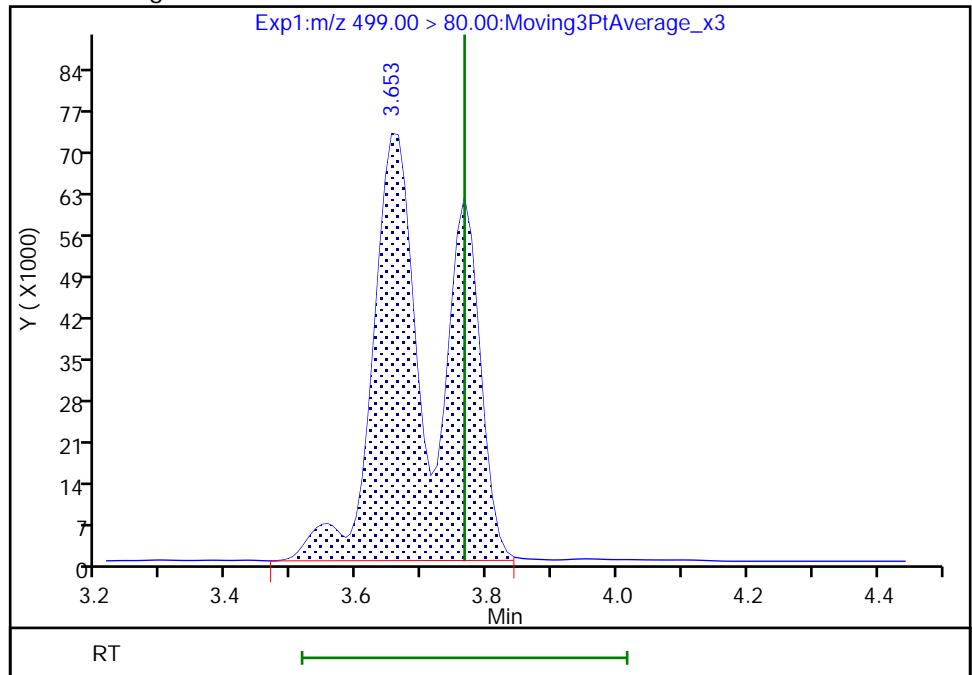
RT: 3.65  
Area: 545578  
Amount: 1.502453  
Amount Units: ng/ml

Processing Integration Results



RT: 3.65  
Area: 539274  
Amount: 1.485093  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:40:44  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

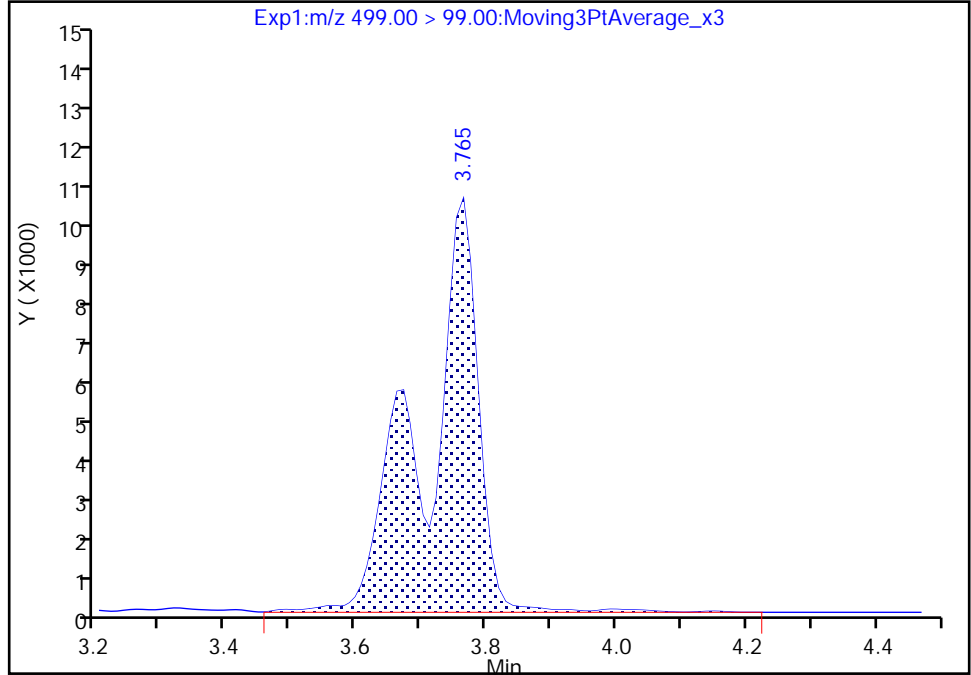
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

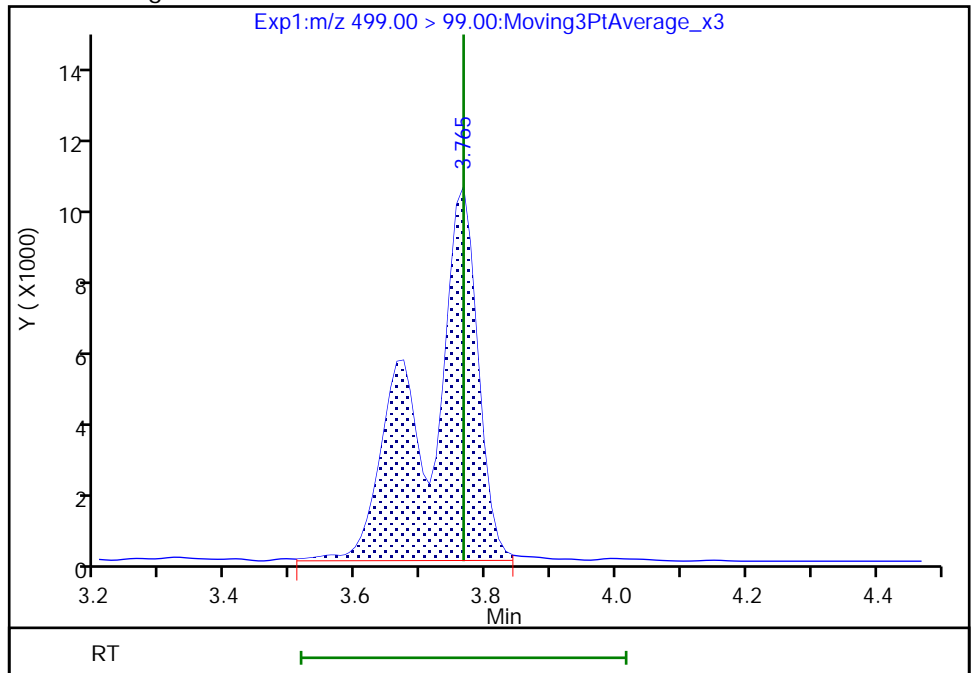
RT: 3.77  
Area: 58297  
Amount: 1.502453  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 56841  
Amount: 1.485093  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:40:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

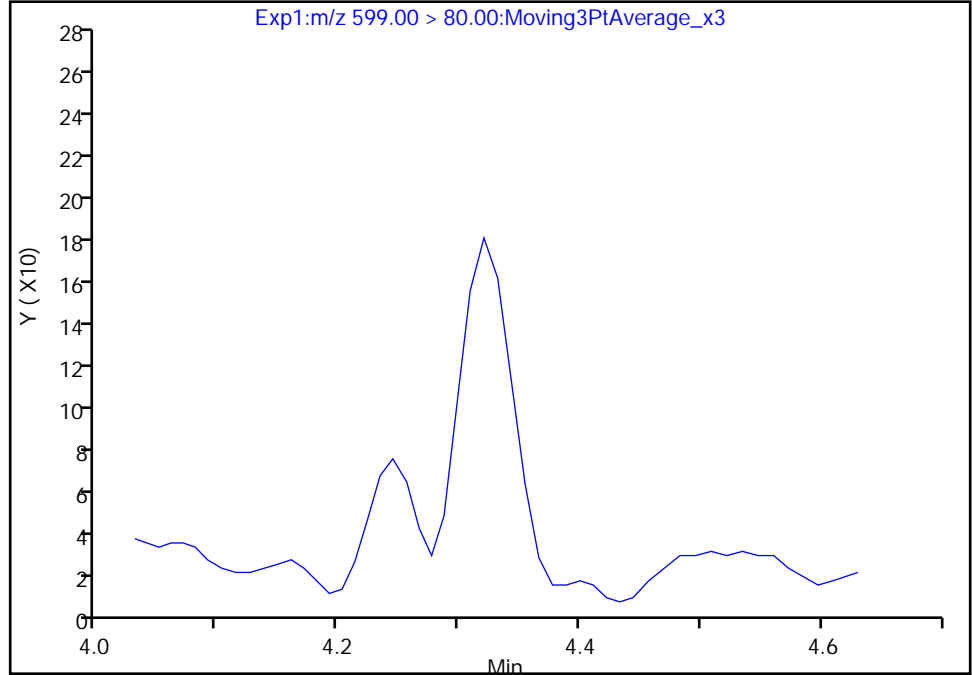
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

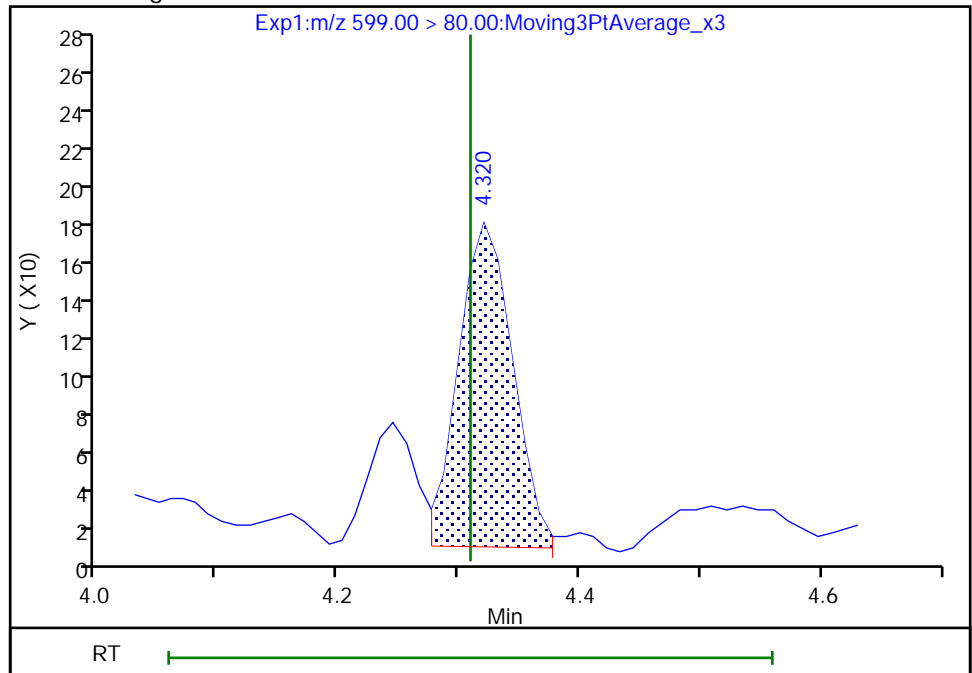
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.32  
Area: 527  
Amount: 0.002195  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:42:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

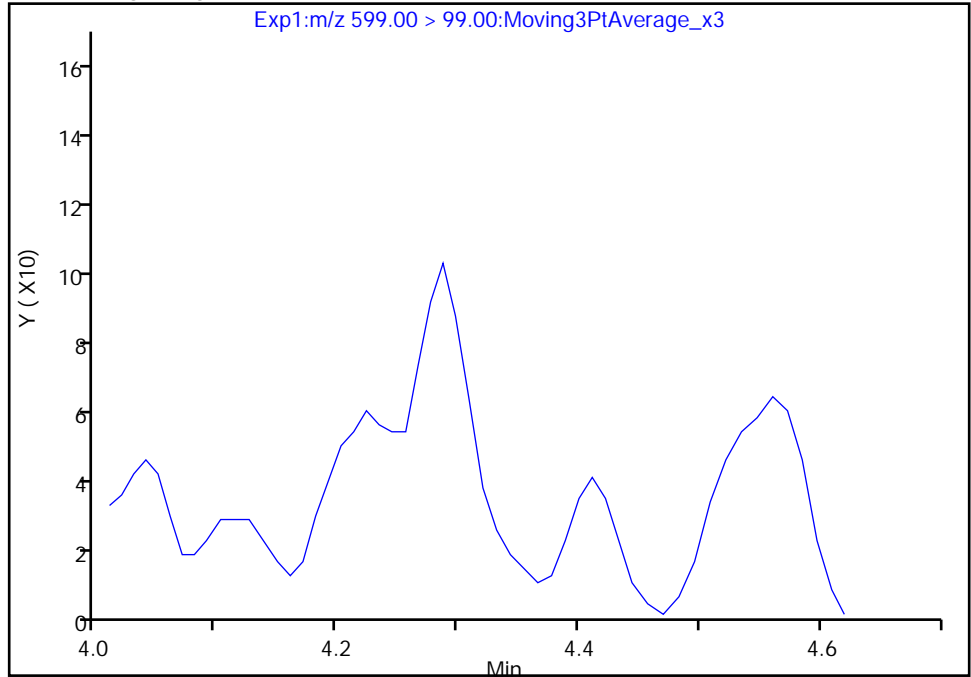
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

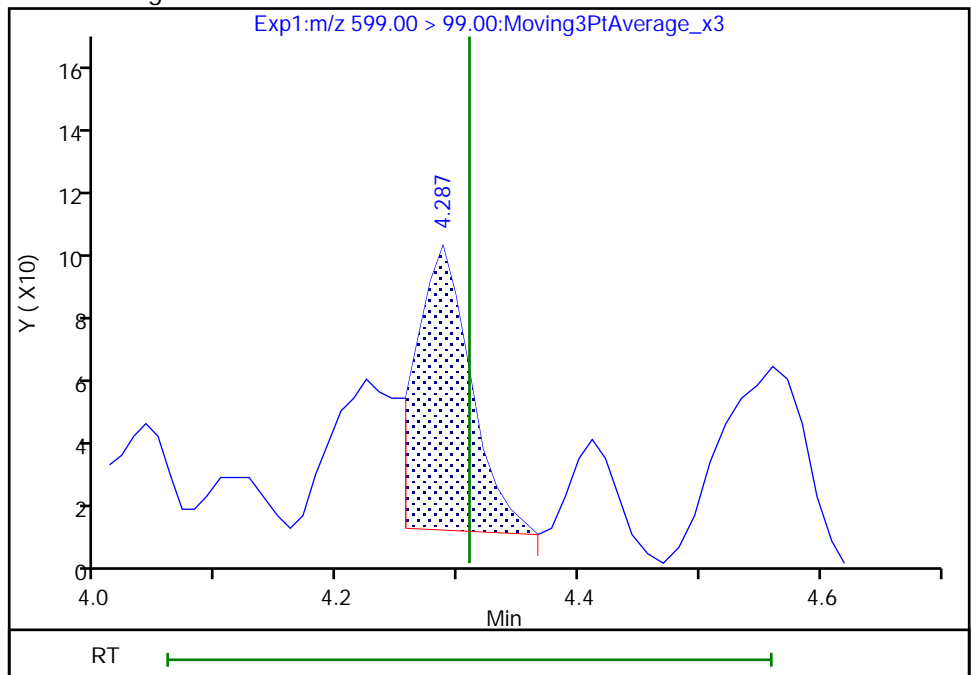
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.29  
Area: 273  
Amount: 0.002195  
Amount Units: ng/ml





Eurofins TestAmerica, Burlington

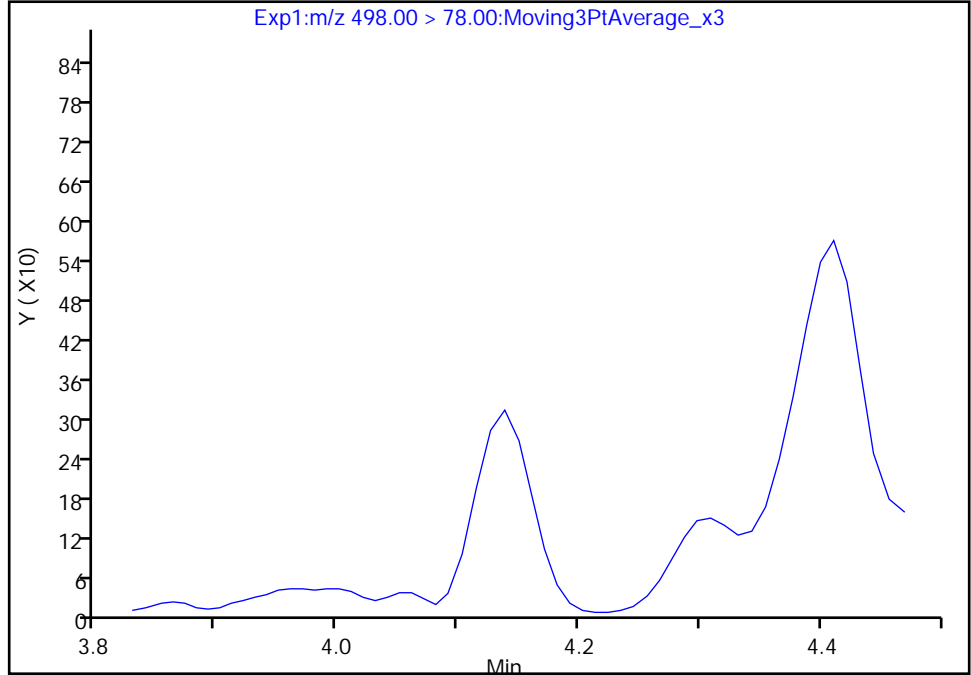
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

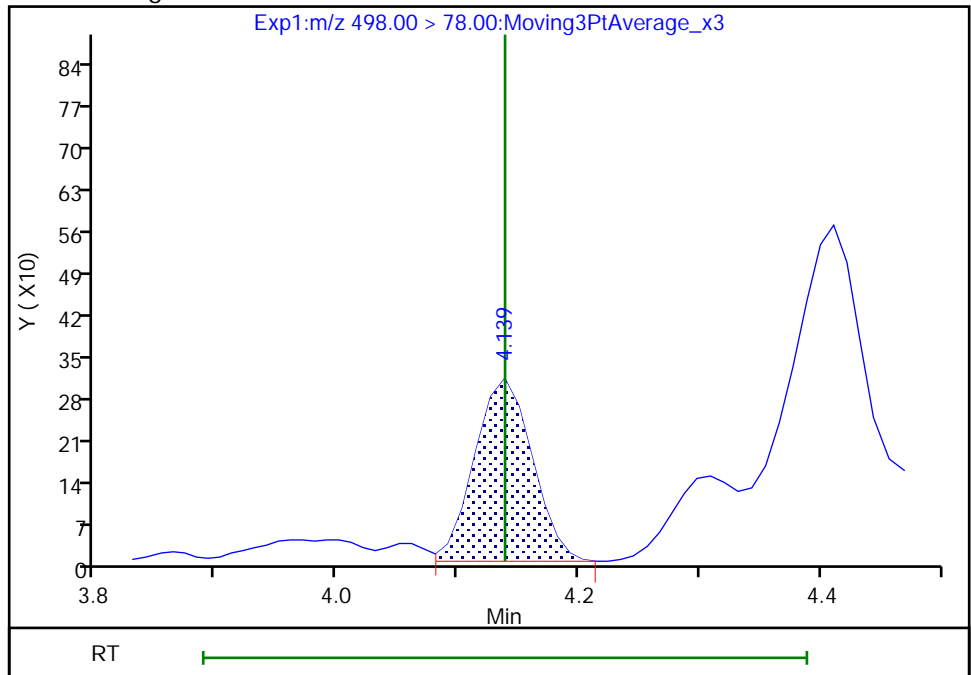
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14  
Area: 1021  
Amount: 0.003063  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:41:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

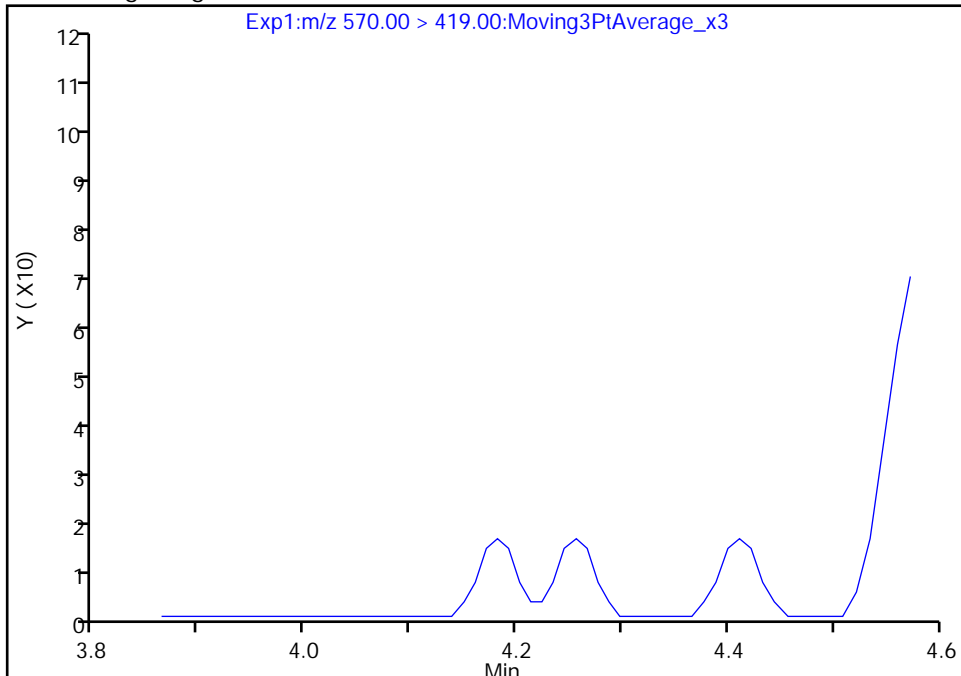
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

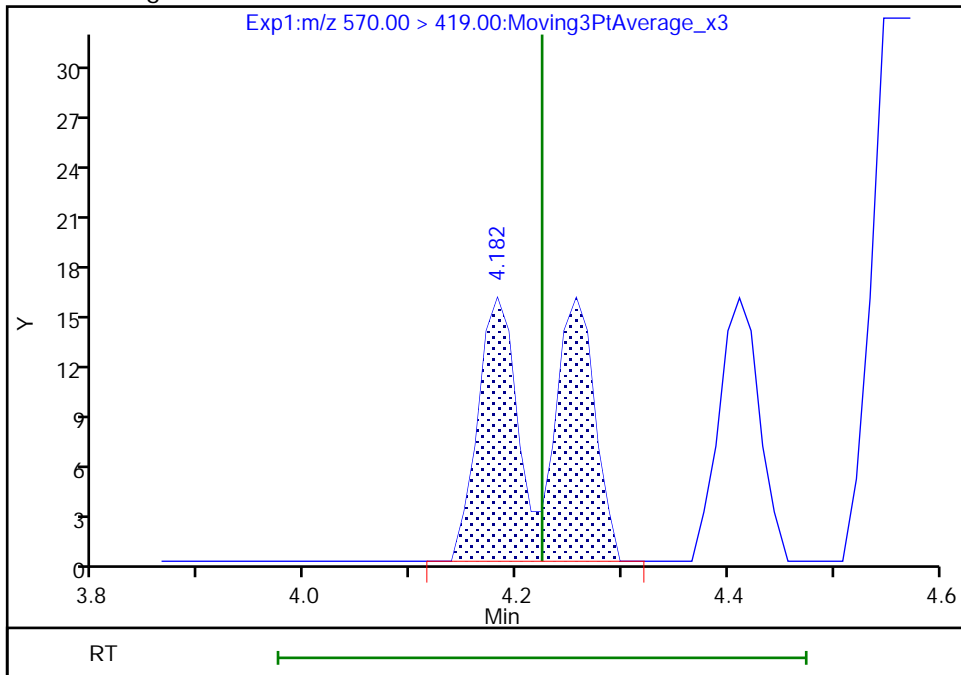
Not Detected  
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.18  
Area: 81  
Amount: 0.004926  
Amount Units: ng/ml



Reviewer: deannd, 01-Oct-2020 17:20:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

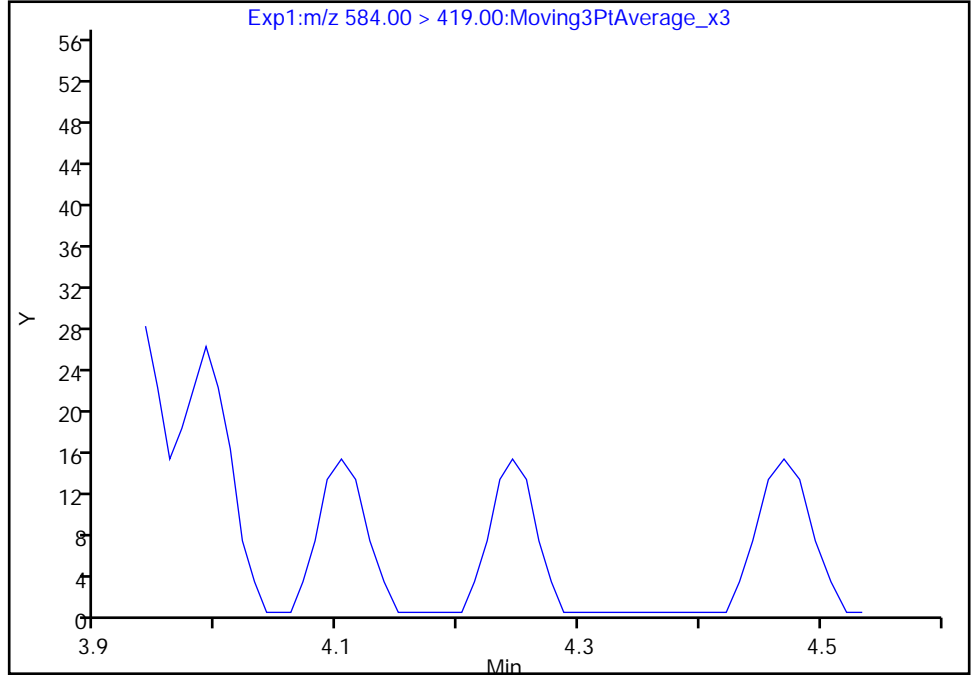
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

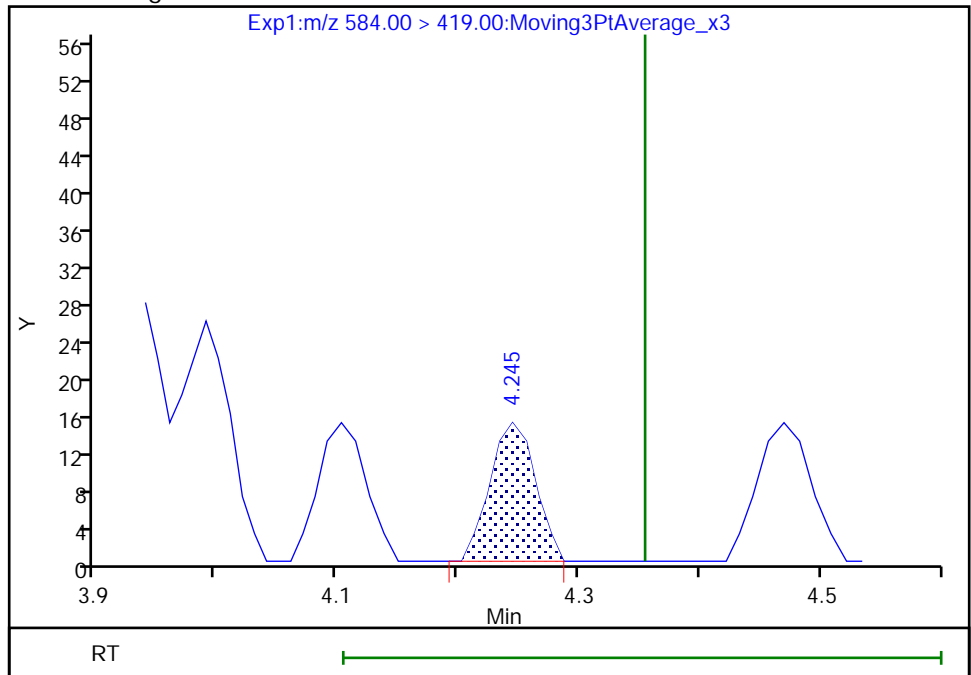
Not Detected  
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.24  
Area: 39  
Amount: 0.002533  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:42:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

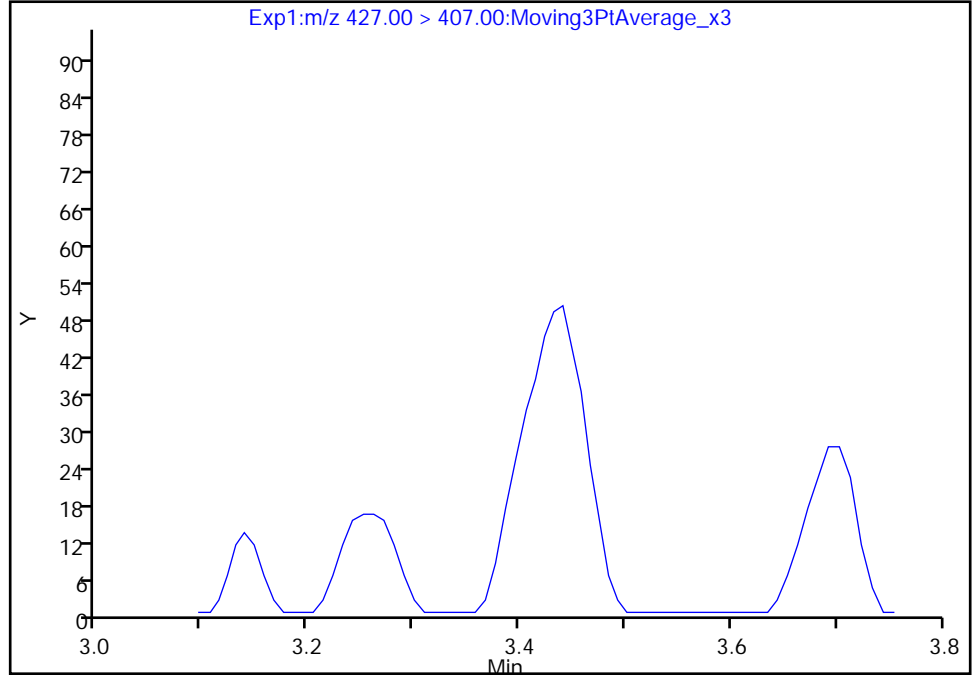
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B25.d  
Injection Date: 30-Sep-2020 21:33:21 Instrument ID: LC812  
Lims ID: 480-175657-C-7-A Lab Sample ID: 200-175657-7  
Client ID: DUPLICATE  
Operator ID: lc812tech ALS Bottle#: 25 Worklist Smp#: 25  
Injection Vol: 20.0 ul 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

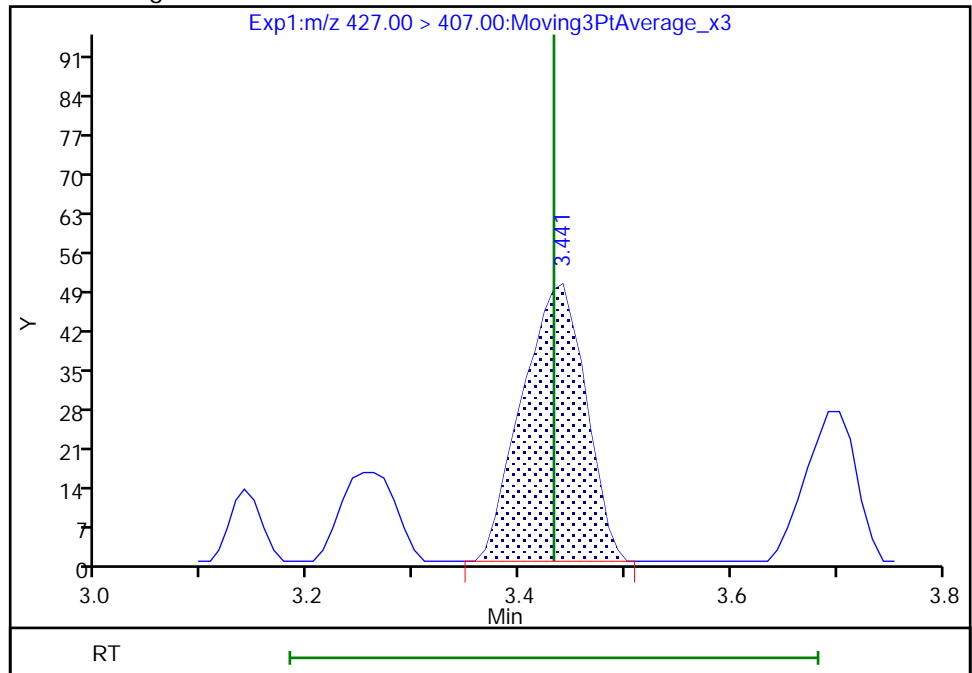
Signal: 1

Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results



RT: 3.44  
Area: 208  
Amount: 0.003860  
Amount Units: ng/ml

Reviewer: manopan, 01-Oct-2020 15:40:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQUIPMENT BLANK Lab Sample ID: 480-175657-8  
 Matrix: Water Lab File ID: PA200930B26.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 13:30  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 304.8 (mL) Date Analyzed: 09/30/2020 21:41  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	ND		4.1	0.93
2706-90-3	Perfluoropentanoic acid (PFPeA)	ND		1.6	0.89
307-24-4	Perfluorohexanoic acid (PFHxA)	ND		1.6	0.68
375-85-9	Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.38
335-67-1	Perfluorooctanoic acid (PFOA)	ND		1.6	0.80
375-95-1	Perfluorononanoic acid (PFNA)	ND		1.6	0.48
335-76-2	Perfluorodecanoic acid (PFDA)	ND		1.6	0.38
2058-94-8	Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.60
307-55-1	Perfluorododecanoic acid (PFDoA)	ND		1.6	0.38
72629-94-8	Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35
376-06-7	Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.52
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.55
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.32
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.71
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39
754-91-6	Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.47
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.65
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.76
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.59
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.54

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: EQUIPMENT BLANK Lab Sample ID: 480-175657-8  
 Matrix: Water Lab File ID: PA200930B26.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 13:30  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 304.8 (mL) Date Analyzed: 09/30/2020 21:41  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	102		50-150
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	98		50-150
STL00991	13C4 PFOS	97		50-150
STL00995	13C5 PFNA	99		50-150
STL00992	13C4 PFBA	112		25-150
STL00993	13C2 PFHxA	107		50-150
STL00996	13C2 PFDA	95		50-150
STL00997	13C2 PFUnA	83		50-150
STL00998	13C2 PFDoA	76		50-150
STL01056	13C8 FOSA	68		25-150
STL01893	13C5 PFPeA	105		25-150
STL02116	13C2 PFTeDA	67		50-150
STL02118	d3-NMeFOSAA	78		50-150
STL02117	d5-NEtFOSAA	91		50-150
STL02279	M2-6:2 FTS	101		25-150
STL02280	M2-8:2 FTS	99		25-150
STL02337	13C3 PFBS	95		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
 Lims ID: 480-175657-C-8-A  
 Client ID: EQUIPMENT BLANK  
 Sample Type: Client  
 Inject. Date: 30-Sep-2020 21:41:39 ALS Bottle#: 26 Worklist Smp#: 26  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-8-A  
 Misc. Info.: 200-0043035-026 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 15:49:40  
 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	1.990	-0.009	0.574	1072452	1.40	112	15218	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.981	1.990	-0.009	1.000	4695	0.005854		1.1		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	720049	1.31	105	2994	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	8110	0.0133		0.4		M
D 47 13C3 PFBS	301.90 > 80.00	2.340	2.339	0.001	0.678	739868	1.10	95.0	281847	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.340	2.353	-0.013	1.000	3819	0.006022	Target=2.07	9.2		M
298.90 > 99.00	2.353	2.353	0.0	1.006	1822		2.10(1.04-3.11)	2.9		M
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.784	759109	1.34	107	3807	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	11418	0.0187	Target=12.44	4.2		M
313.00 > 119.00	2.703	2.703	0.0	1.000	1042		10.96(6.22-18.66)	1.3		M
D 11 18O2 PFHxS	403.00 > 84.00	3.073	3.073	0.0	0.891	577363	1.20	102	1784	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.004	2371	0.004397	Target=4.60	8.6		M
399.00 > 99.00	3.073	3.073	0.0	1.000	739		3.21(2.30-6.91)	2.2		M
D 9 13C4 PFHpA	367.00 > 322.00	3.084	3.084	0.0	0.894	643242	1.25	99.8	2885	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.073	3.084	-0.011	0.996	2444	0.004740	Target=3.34	1.6		M
363.00 > 169.00	3.084	3.084	0.0	1.000	509		4.80(1.67-5.01)	1.0		M

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.009	1.000	152	0.002931			6.1	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.997	77168	1.20		101	856	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	648265	1.23		98.3	2932	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		669780	1.25			3982	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	3654	0.006824	Target=2.29		2.0	M
413.00 > 169.00	3.450	3.450	0.0	1.000	1427		2.56(1.14-3.43)		4.0	M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	454609	1.16		96.7	2194	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	2097	0.005073	Target=7.10		7.2	M
499.00 > 99.00	3.765	3.765	0.0	1.000	547		3.83(3.55-10.64)		3.7	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	548173	1.23		98.7	4488	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.776	3.786	-0.010	0.997	516	0.001155	Target=5.83		0.4	M
463.00 > 169.00	3.797	3.786	0.011	1.003	68		7.59(2.91-8.74)		2.7	M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	506978	1.19		95.1	4703	
24 Perfluorodecanoic acid										RM
513.00 > 469.00	4.082	4.082	0.0	1.000	749	0.001867	Target=6.81		2.1	RM
513.00 > 169.00	4.072	4.082	-0.010	0.998	39		19.21(3.41-10.22)		1.1	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	89358	1.18		98.6	1212	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	582091	0.8474		67.8	3137	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.151	4.139	0.012	1.003	338	0.000776			1.3	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.224	23597	0.9723		77.8	761	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.214	4.224	-0.010	0.998	40	0.002245			0.9	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	332965	1.03		82.8	3464	
31 Perfluoroundecanoic acid										RM
563.00 > 519.00	4.332	4.343	-0.011	0.997	807	0.003072	Target=6.57		1.5	RM
563.00 > 169.00	4.343	4.343	0.0	1.000	250		3.23(3.28-9.85)		5.5	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	29691	1.14		91.0	468	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.389	4.355	0.034	1.008	41	0.001885			1.4	M
D 36 13C2 PFDoA										
615.00 > 570.00	4.573	4.573	0.0	1.326	323607	0.9515		76.1	2861	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.610	4.573	0.037	1.008	1067	0.004226	Target=5.16		1.5	M
613.00 > 169.00	4.585	4.573	0.012	1.003	145		7.36(2.58-7.75)		5.0	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.772	4.772	0.0	1.044	312	0.001455	Target=3.30		0.6	M
663.00 > 169.00	4.781	4.772	0.009	1.045	133		2.35(1.65-4.95)		4.8	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.969	0.010	1.443	202387	0.8354		66.8	2564	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.988	4.969	0.019	1.002	70	0.001888	Target=1.06		3.4	M
713.00 > 219.00	4.979	4.969	0.010	1.000	54		1.30(0.53-1.59)		3.3	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\20200930-43035.b\PA200930B26.d

Injection Date: 30-Sep-2020 21:41:39

Instrument ID: LC812

Lims ID: 480-175657-C-8-A

Lab Sample ID: 200-175657-8

Client ID: EQUIPMENT BLANK

Operator ID: lc812tech

ALS Bottle#: 26

Worklist Smp#: 26

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

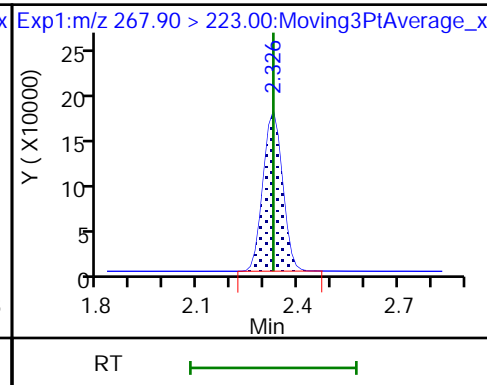
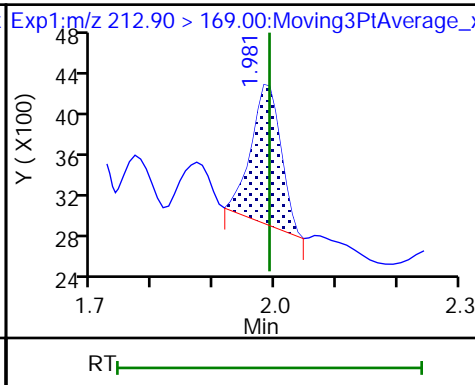
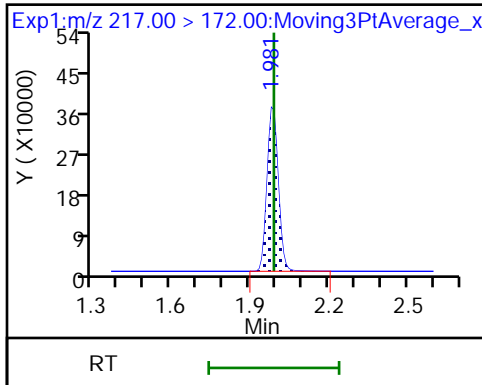
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

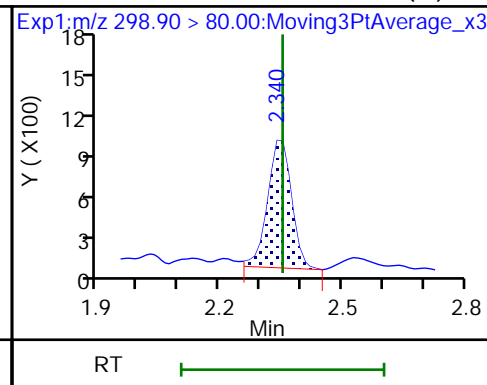
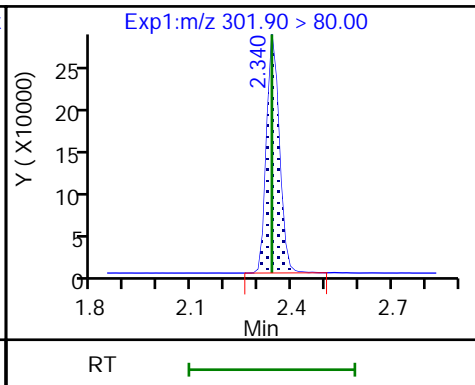
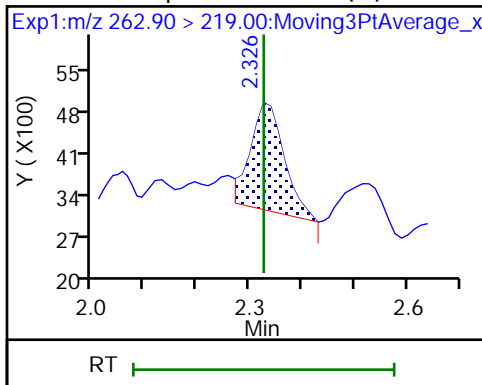
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

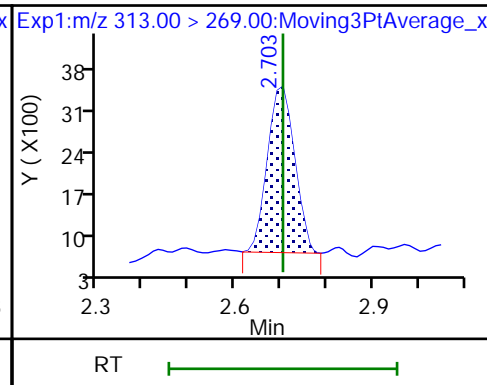
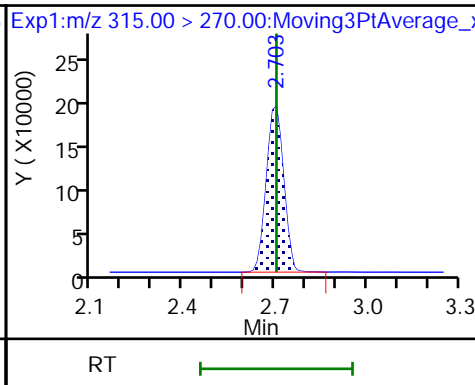
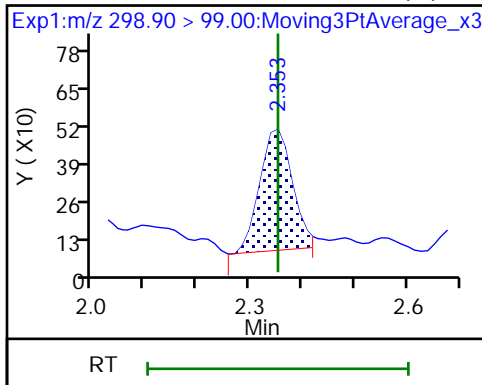
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 7 13C2 PFHxA

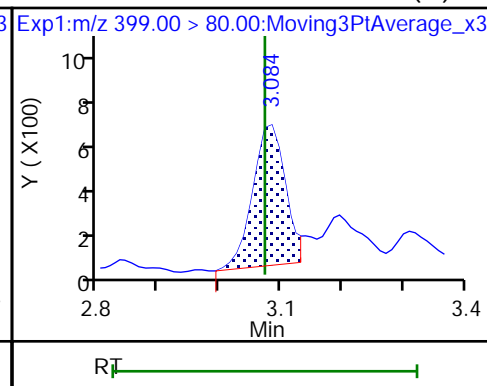
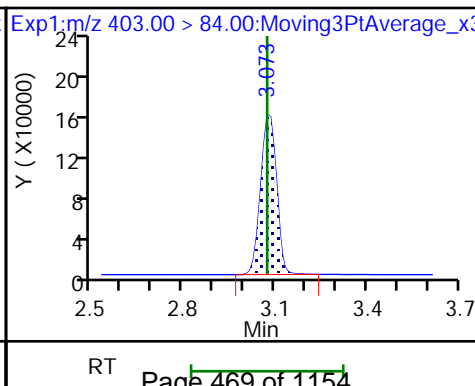
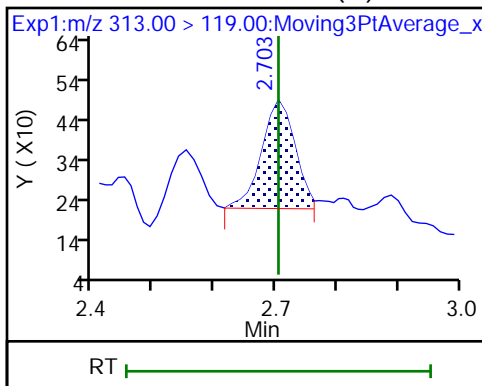
6 Perfluorohexanoic acid



6 Perfluorohexanoic acid (M)

D 11 18O2 PFHxS

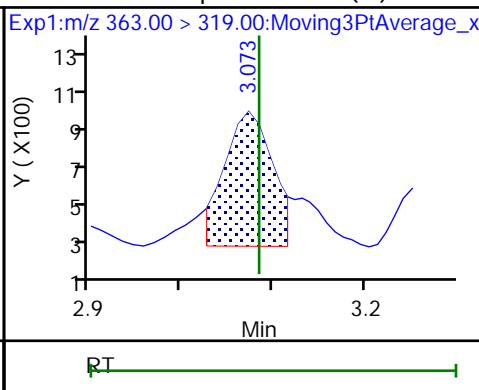
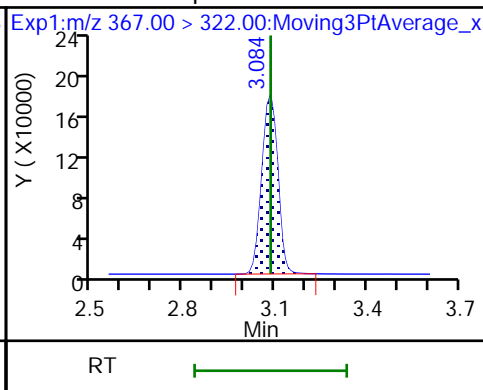
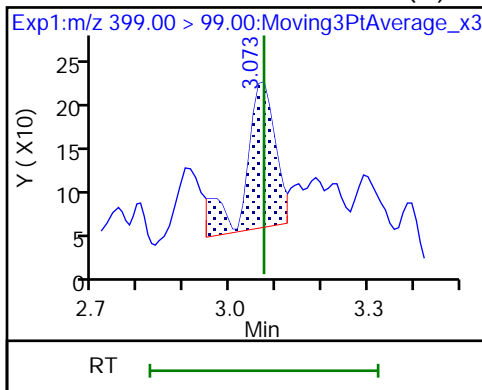
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

D 9 13C4 PFHpA

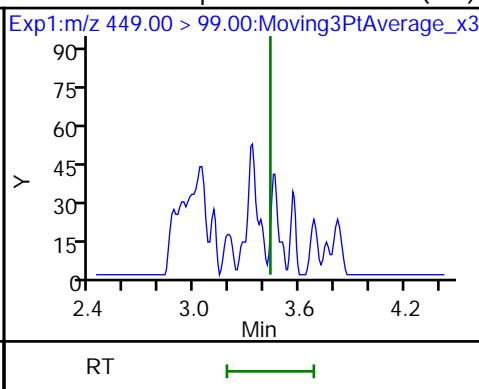
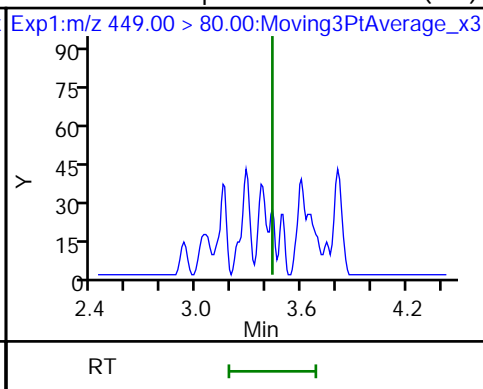
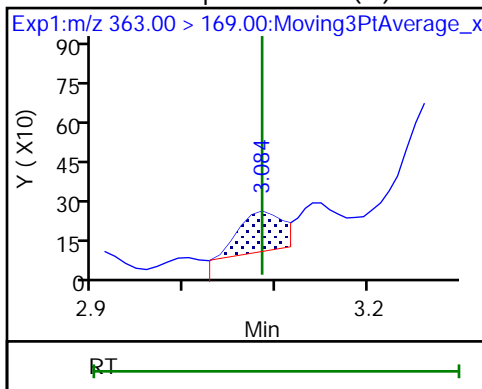
10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M)

16 Perfluoroheptanesulfonic acid (ND)

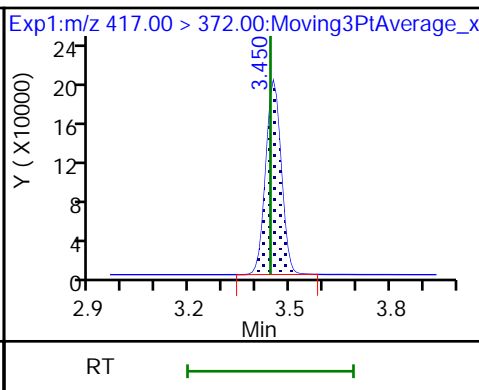
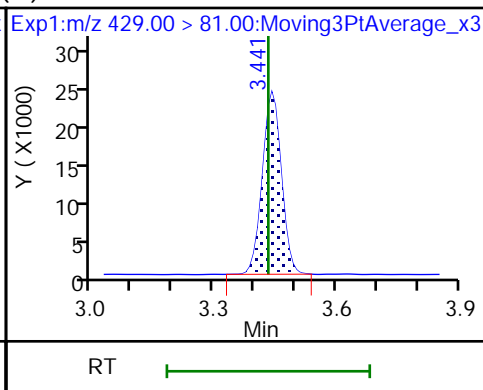
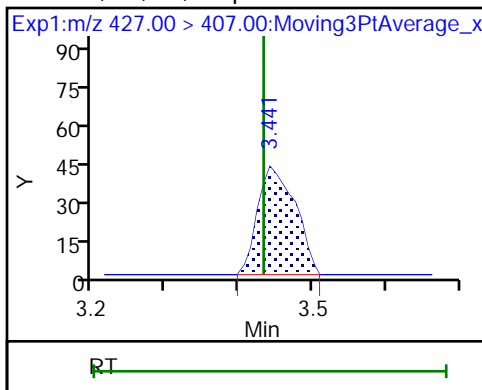
16 Perfluoroheptanesulfonic acid (ND)



13 1H,1H,2H,2H-perfluorooctanesulfo (M)

D 12 M2-6:2 FTS

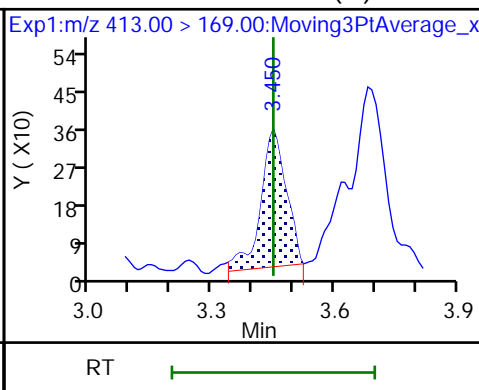
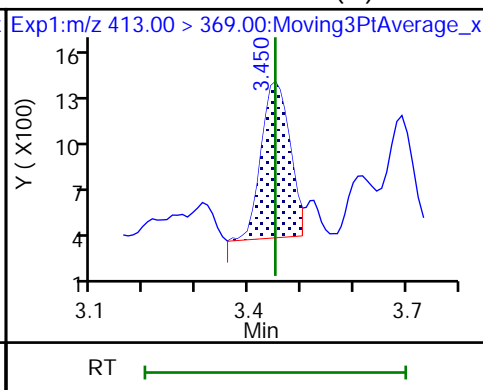
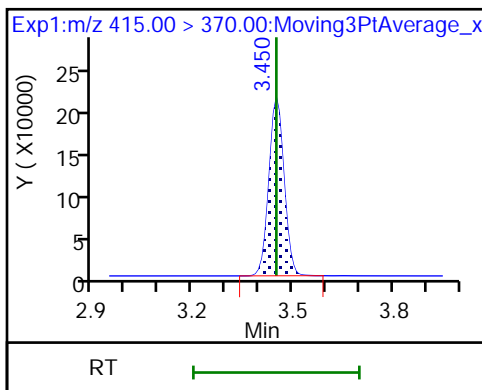
D 14 13C4 PFOA



\* 62 13C2 PFOA

15 Perfluorooctanoic acid (M)

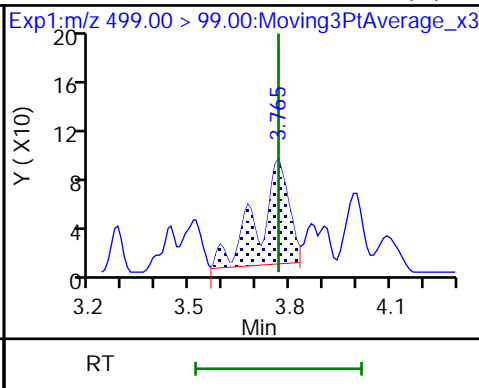
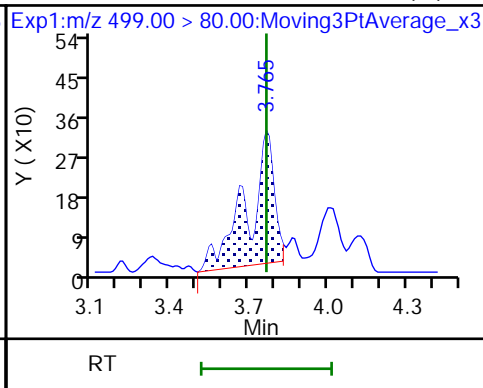
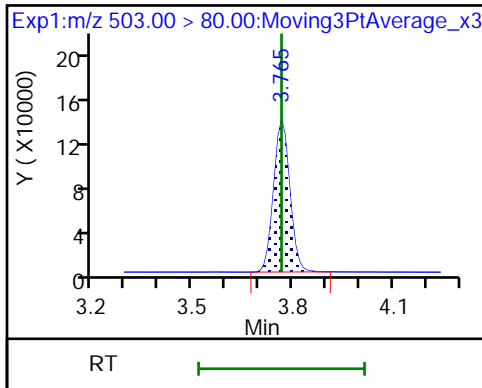
15 Perfluorooctanoic acid (M)



D 18 13C4 PFOS

17 Perfluorooctanesulfonic acid (M)

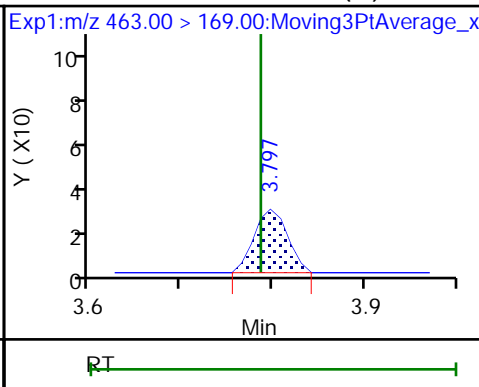
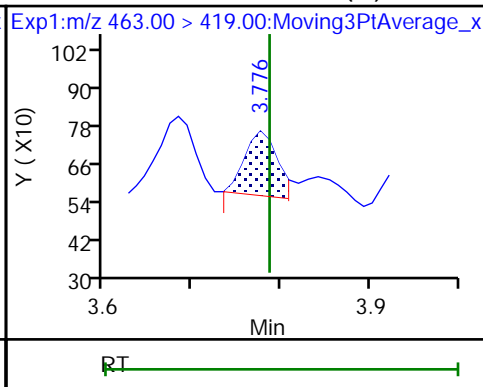
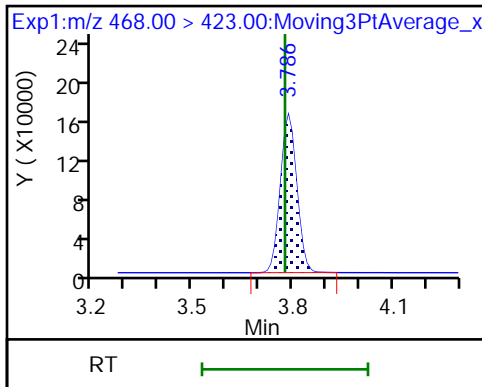
17 Perfluorooctanesulfonic acid (M)



D 19 13C5 PFNA

20 Perfluorononanoic acid (M)

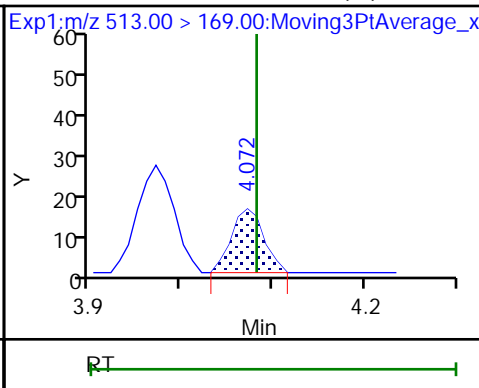
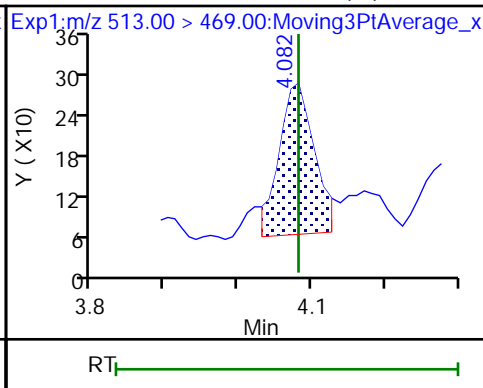
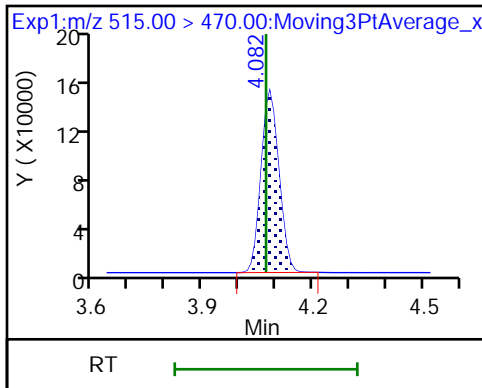
20 Perfluorononanoic acid (M)



D 23 13C2 PFDA

24 Perfluorodecanoic acid (M)

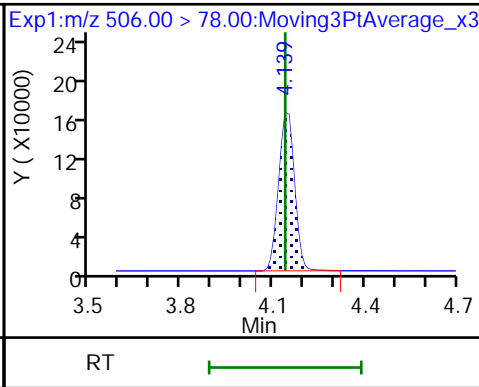
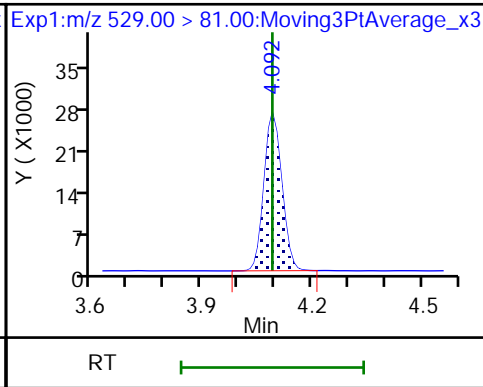
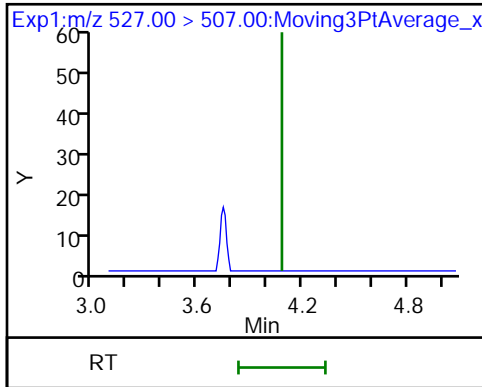
24 Perfluorodecanoic acid (M)

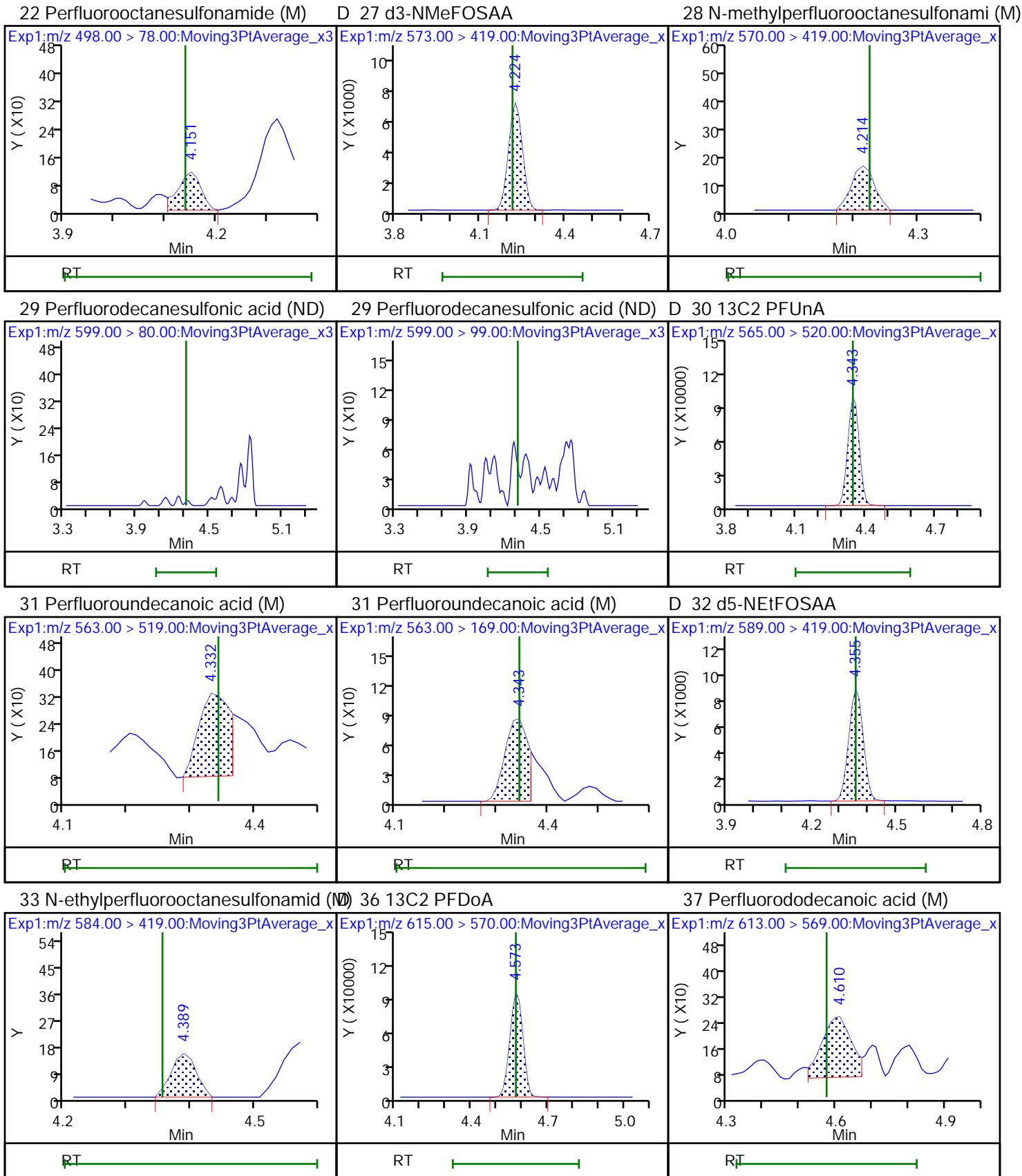


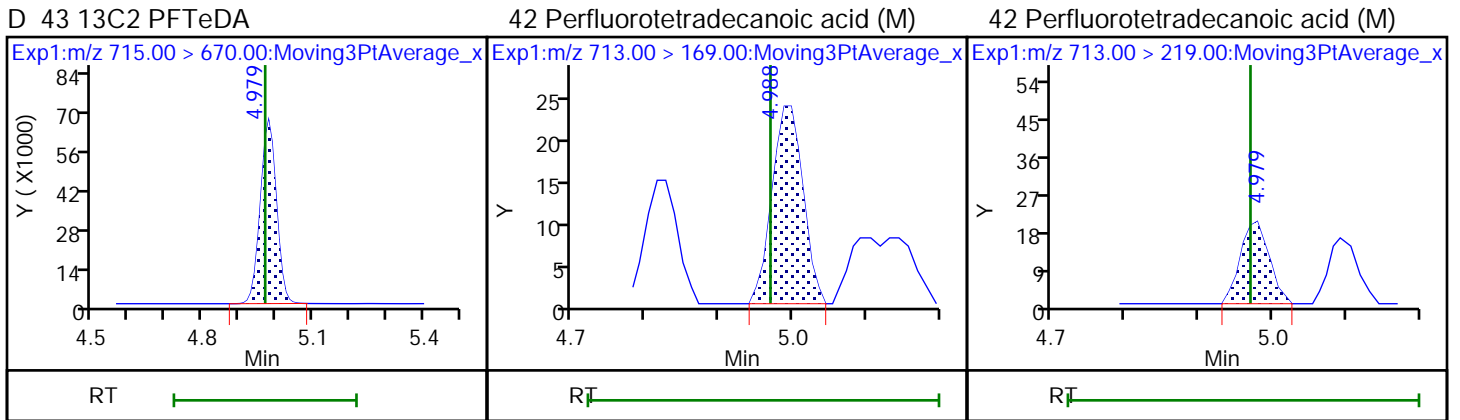
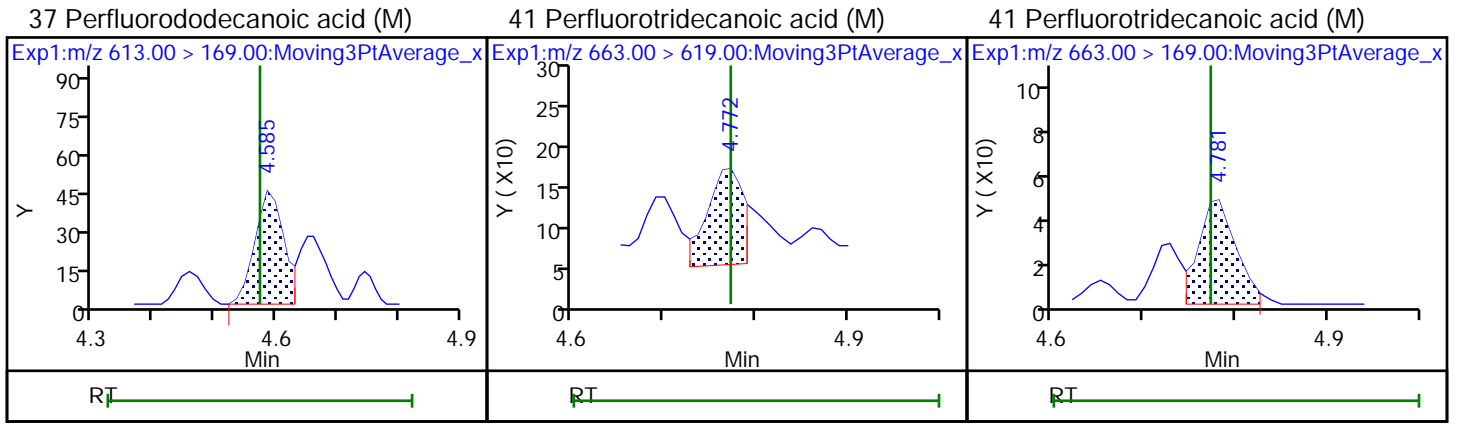
25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

25 1H,1H,2H,2H-perfluorodecanesulfonic acid (M)

D 21 13C8 FOSA







Eurofins TestAmerica, Burlington

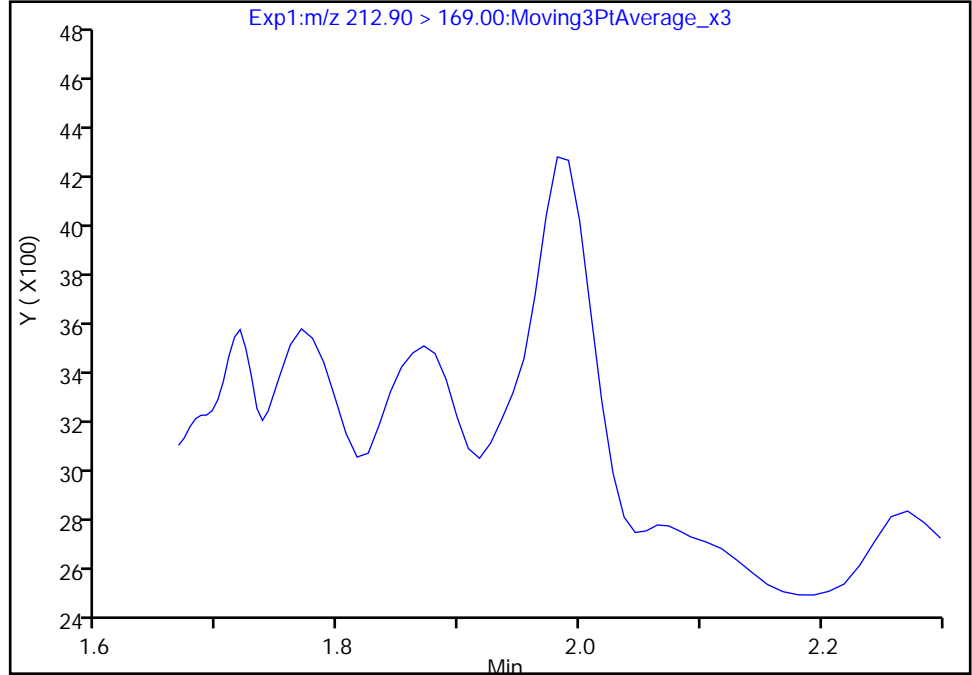
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

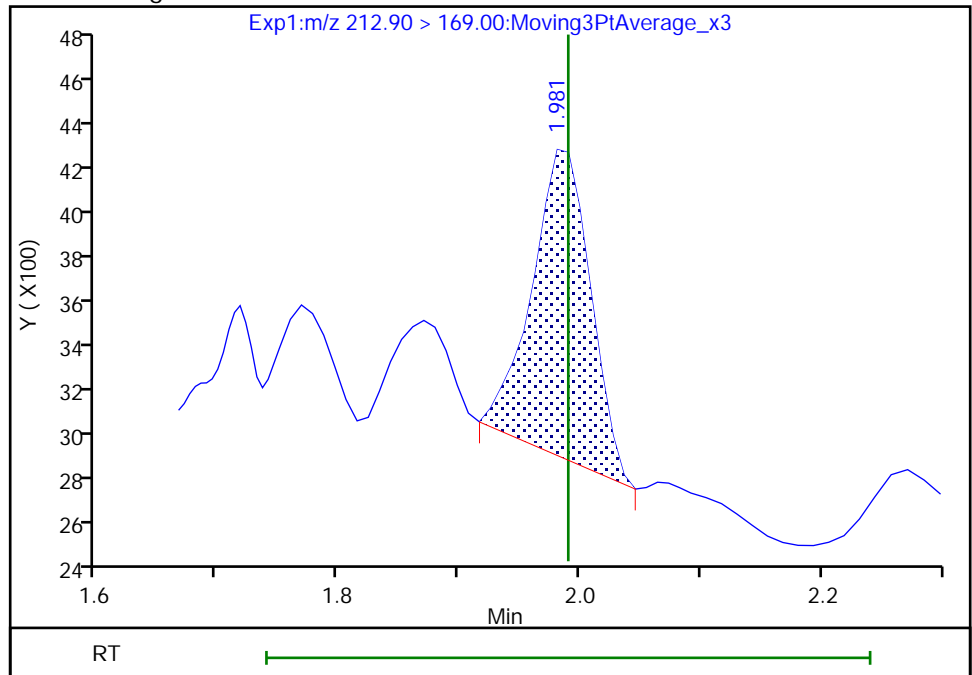
Not Detected  
Expected RT: 1.99

Processing Integration Results



Manual Integration Results

RT: 1.98  
Area: 4695  
Amount: 0.005854  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:44:17  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

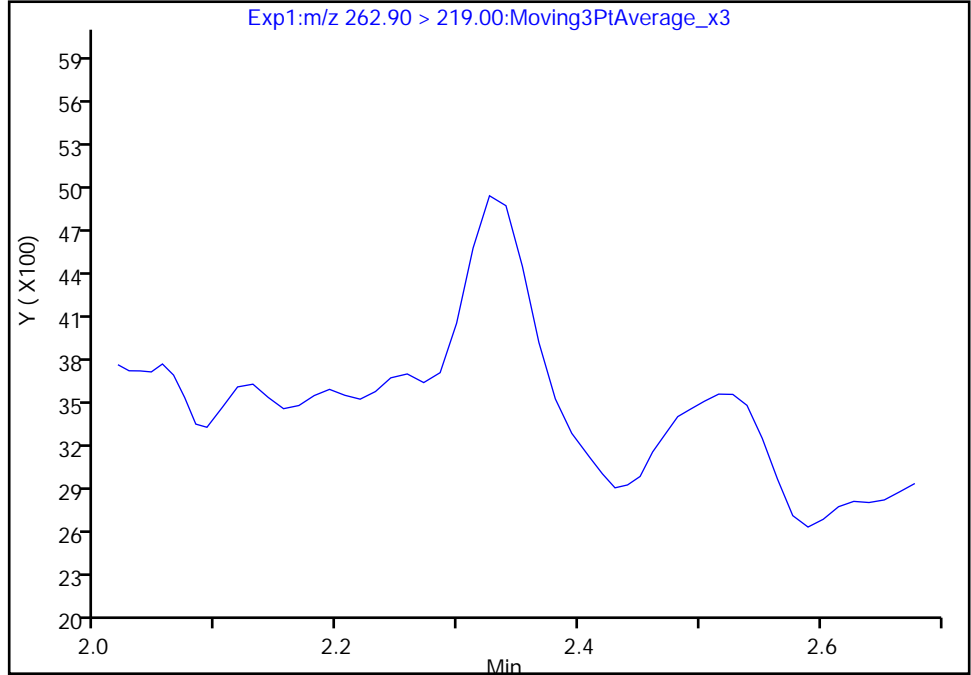
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

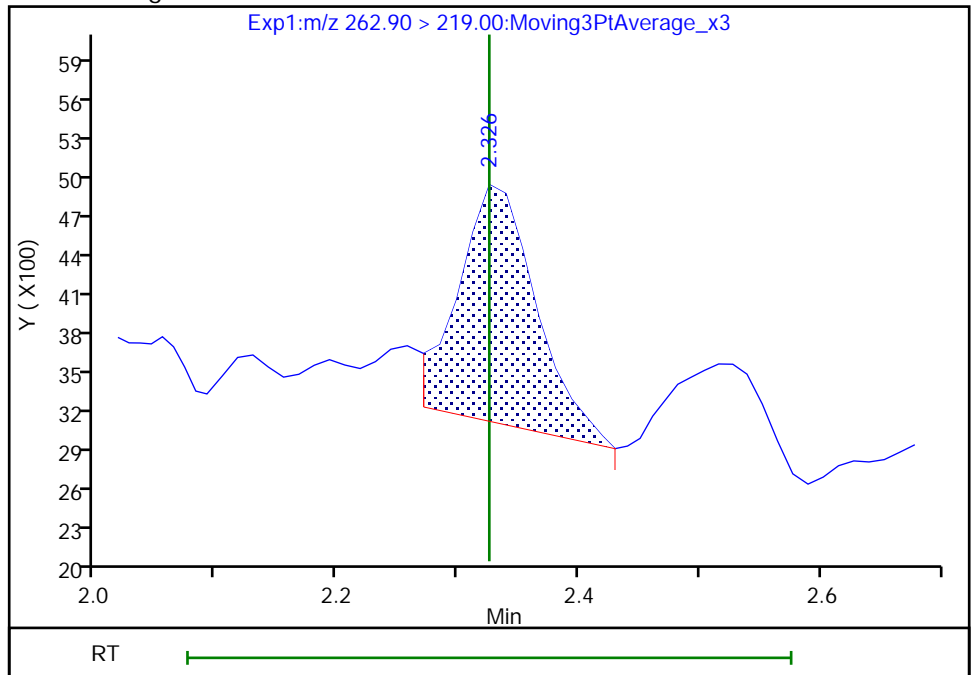
Not Detected  
Expected RT: 2.33

Processing Integration Results



Manual Integration Results

RT: 2.33  
Area: 8110  
Amount: 0.013331  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:44:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

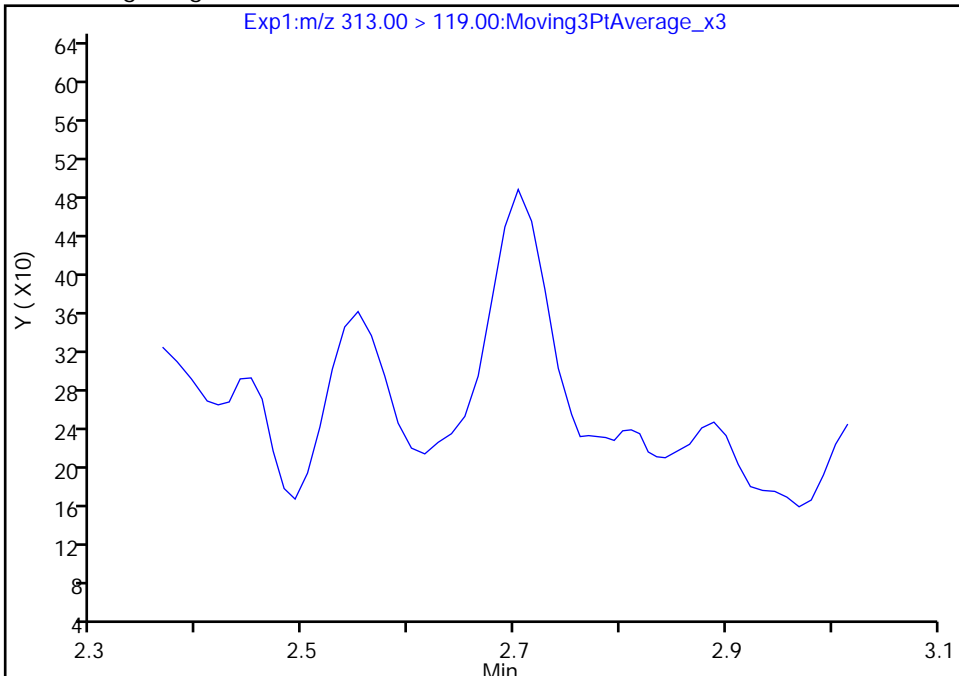
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

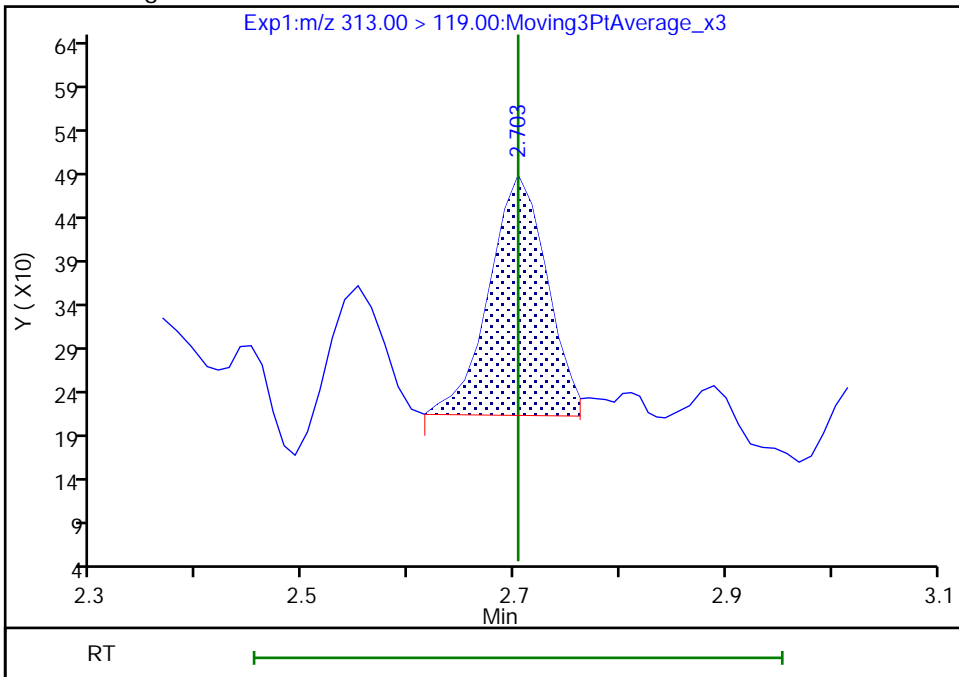
Signal: 2

Not Detected  
Expected RT: 2.70

Processing Integration Results



Manual Integration Results



RT: 2.70  
Area: 1042  
Amount: 0.018672  
Amount Units: ng/ml

Reviewer: manopan, 01-Oct-2020 15:45:07  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

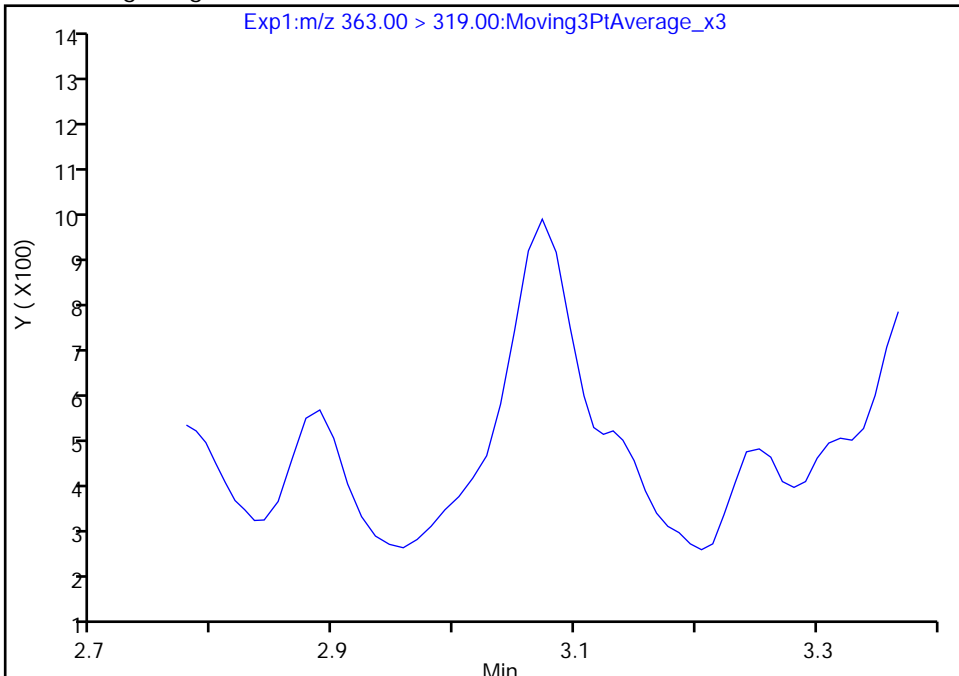
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

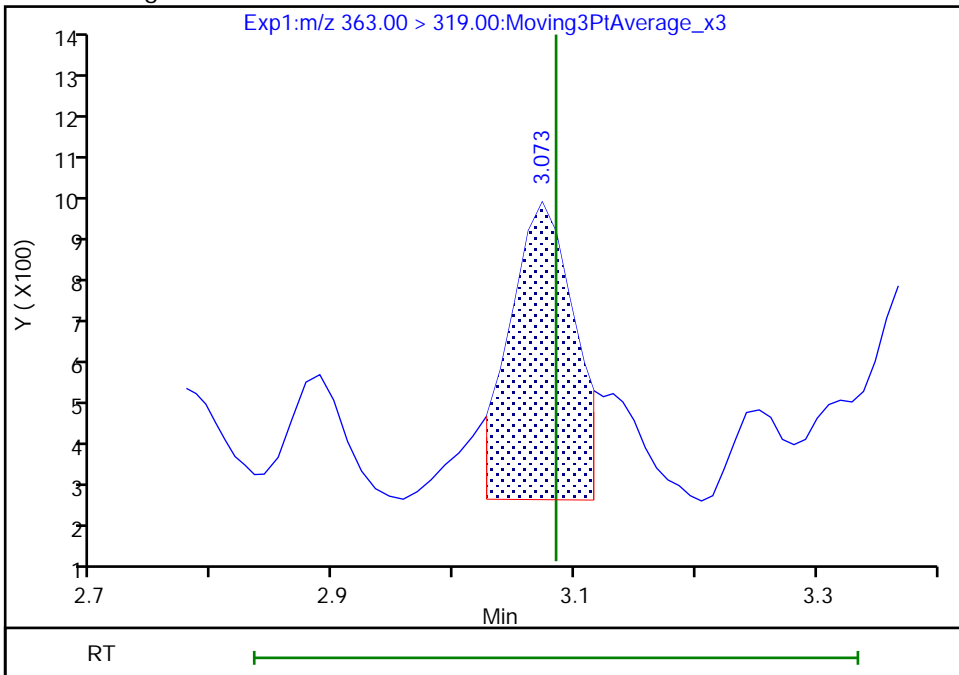
Not Detected  
Expected RT: 3.08

Processing Integration Results



RT: 3.07  
Area: 2444  
Amount: 0.004740  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:45:46  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

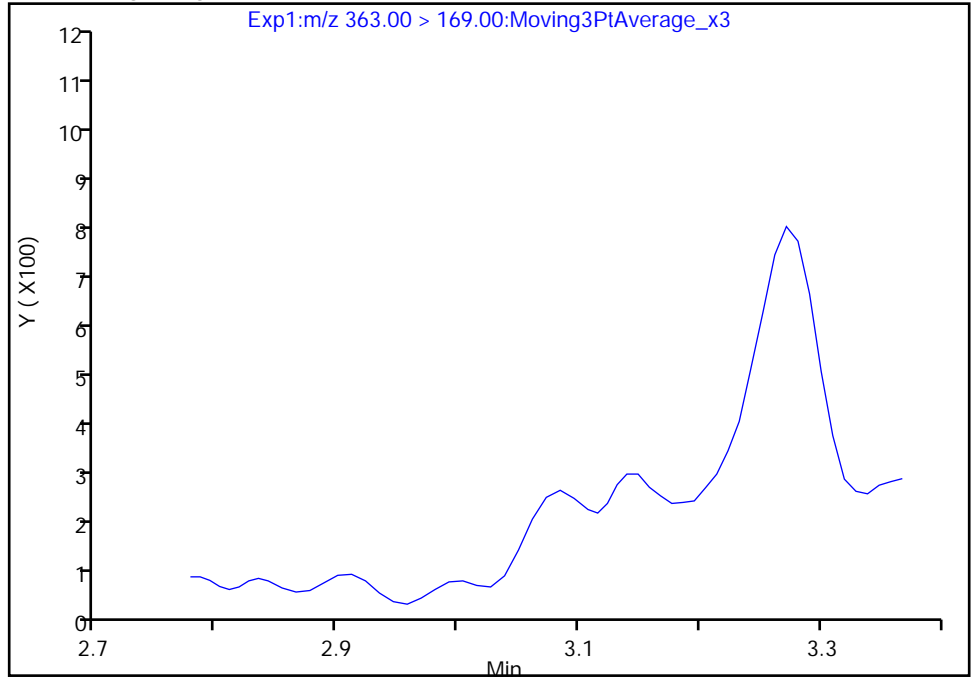
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

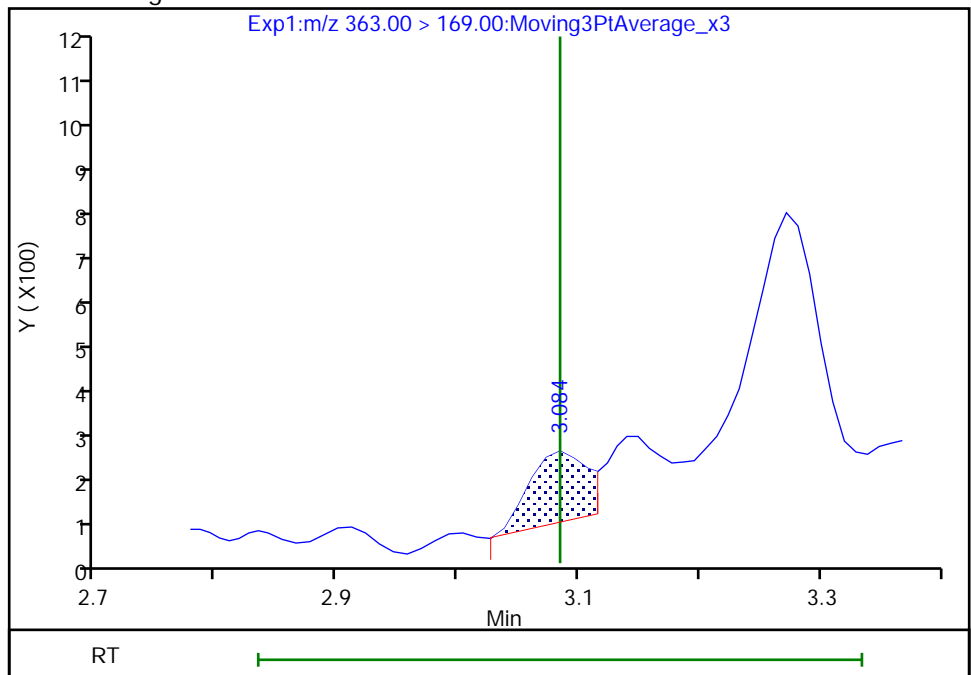
Not Detected  
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.08  
Area: 509  
Amount: 0.004740  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

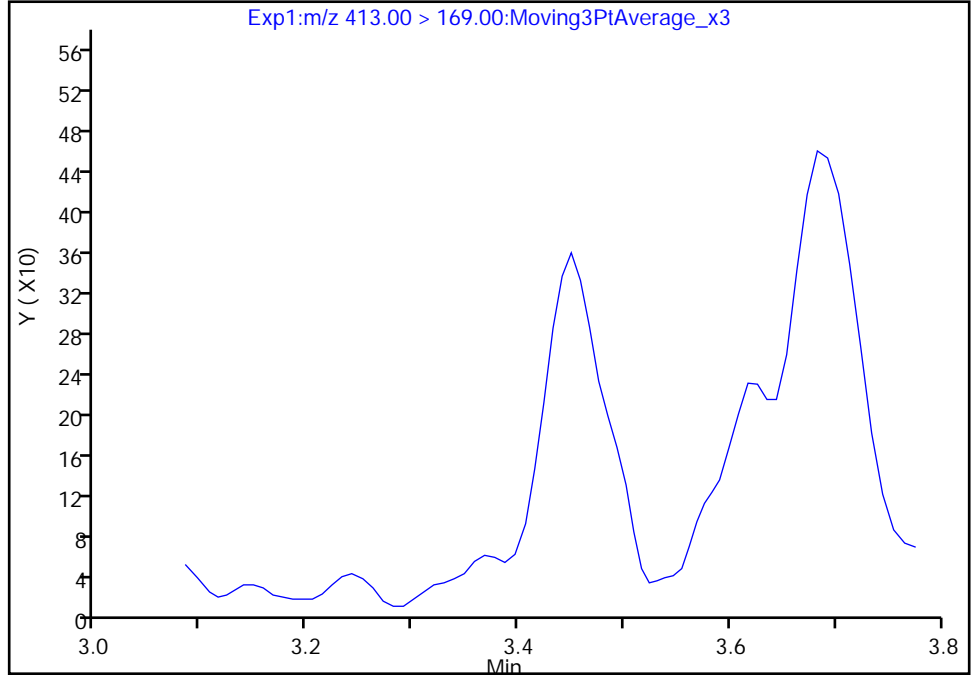
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

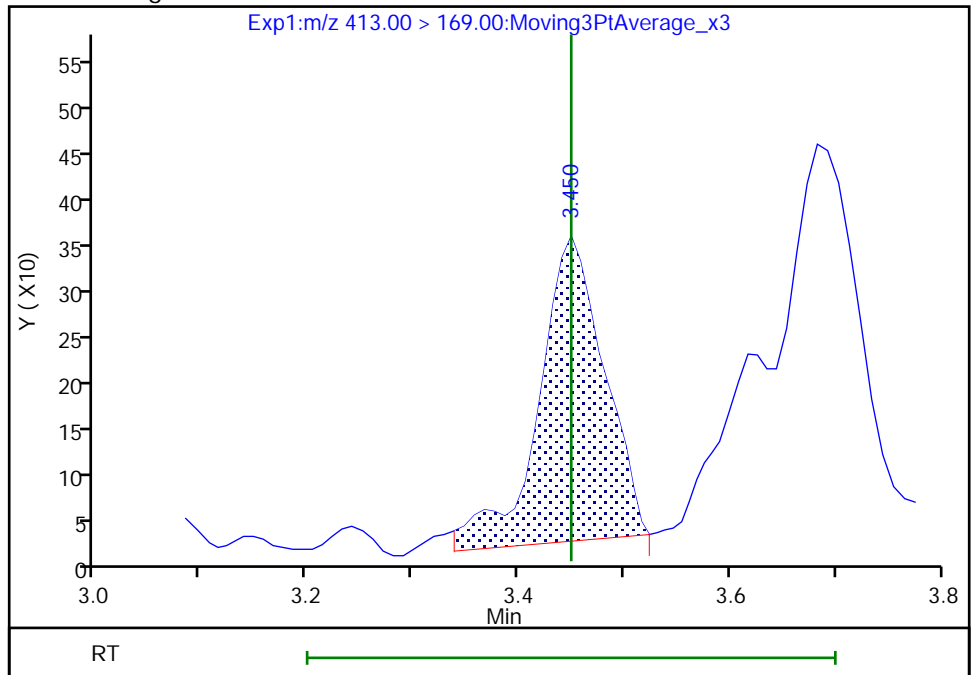
Not Detected  
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45  
Area: 1427  
Amount: 0.006824  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:46:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

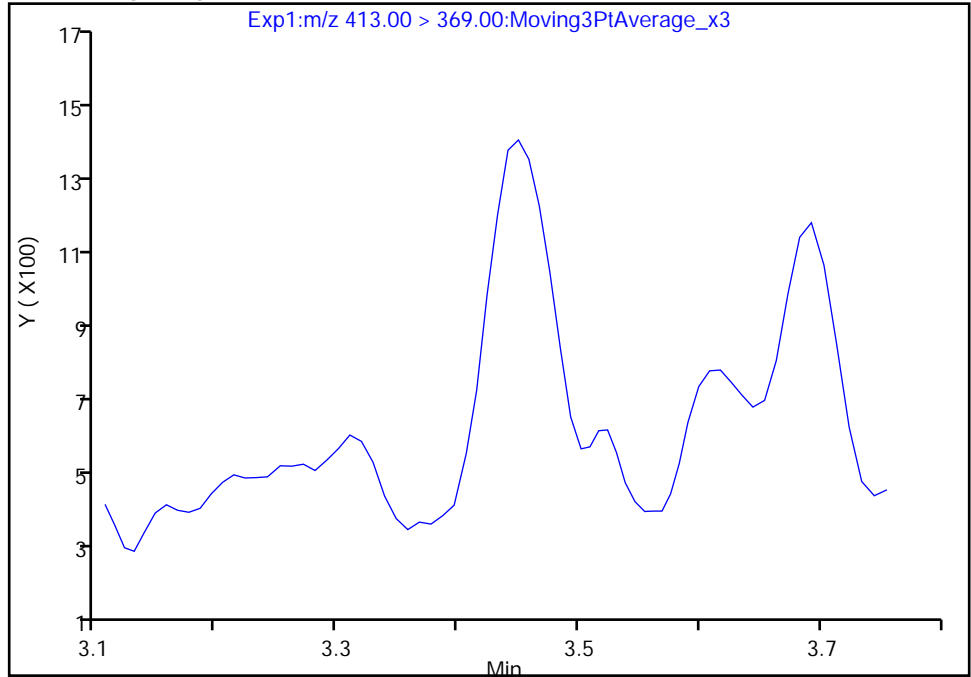
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

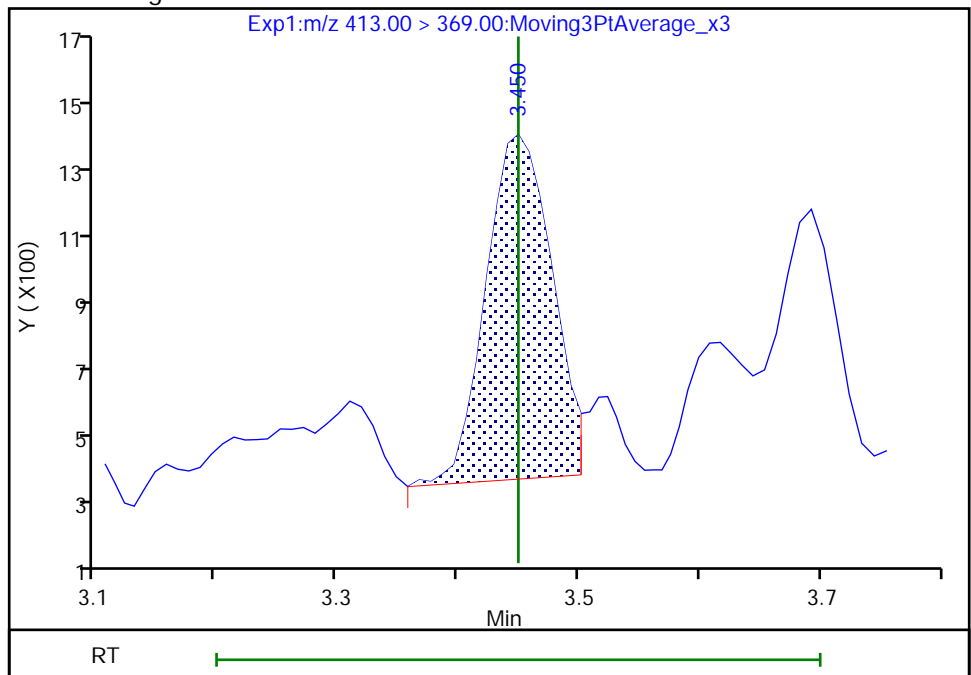
Not Detected  
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45  
Area: 3654  
Amount: 0.006824  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

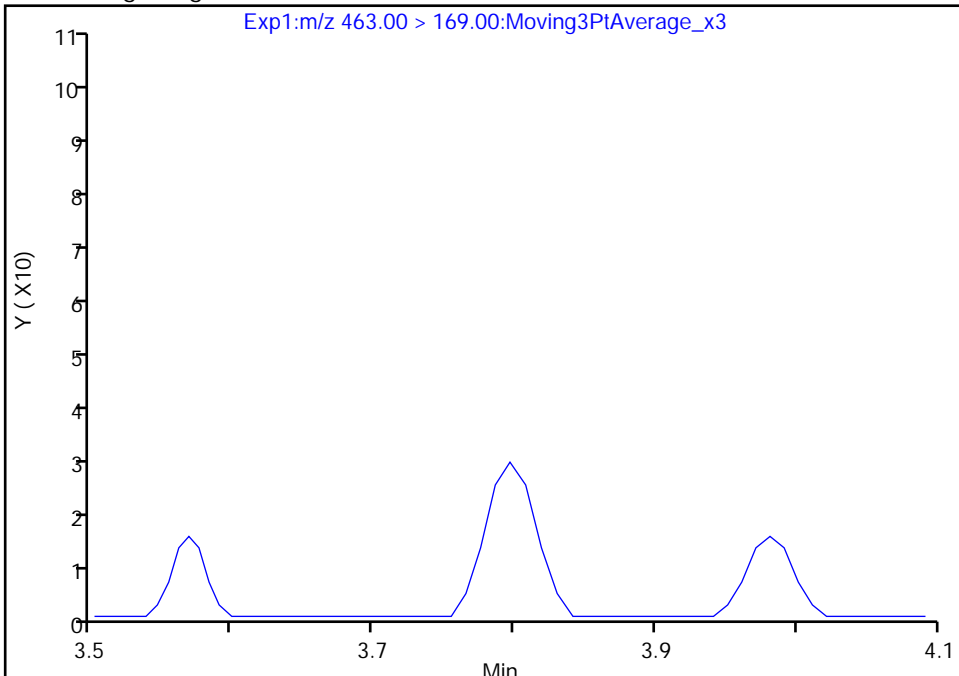
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

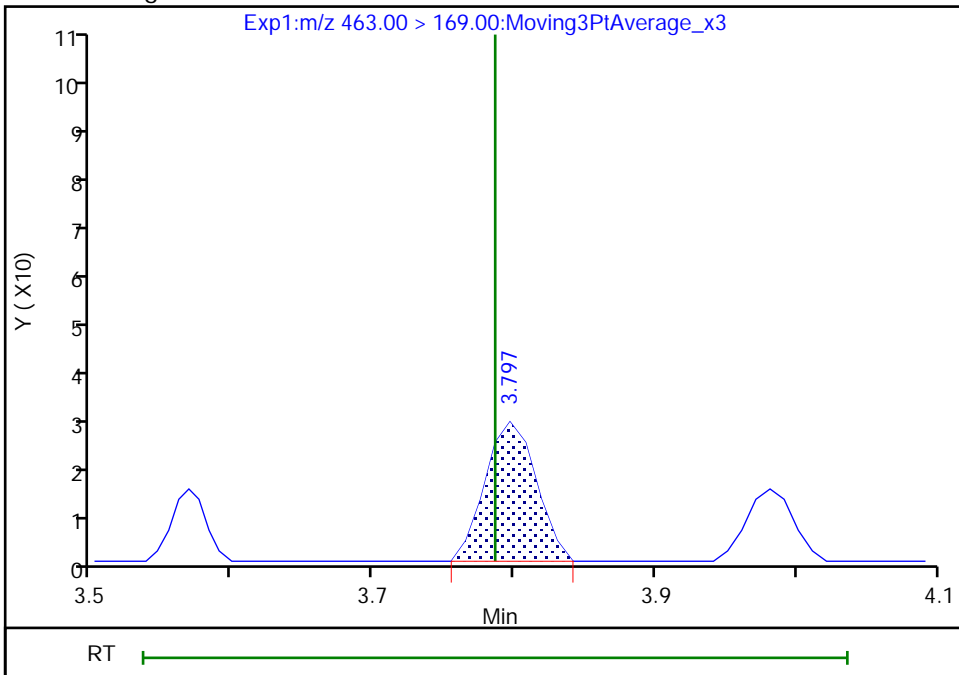
Not Detected  
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.80  
Area: 68  
Amount: 0.001155  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:47:17  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

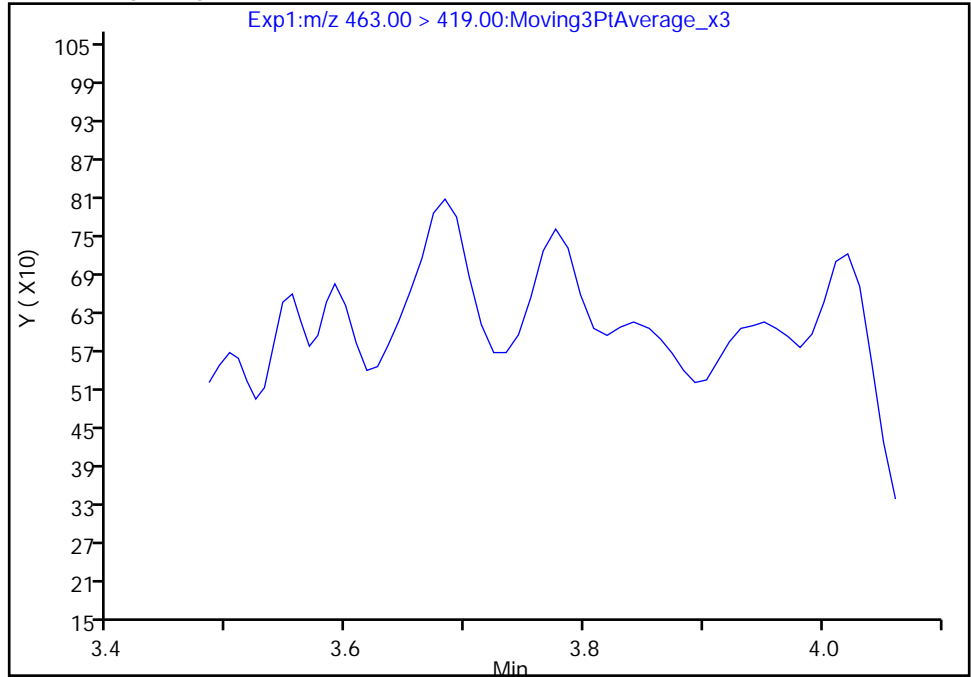
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

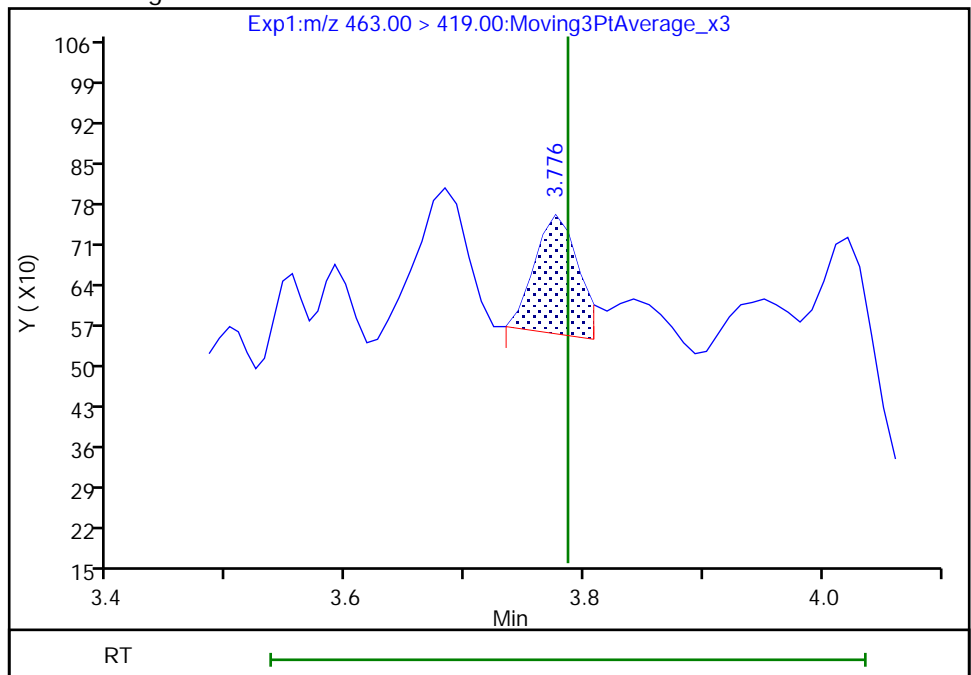
Not Detected  
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.78  
Area: 516  
Amount: 0.001155  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:47:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

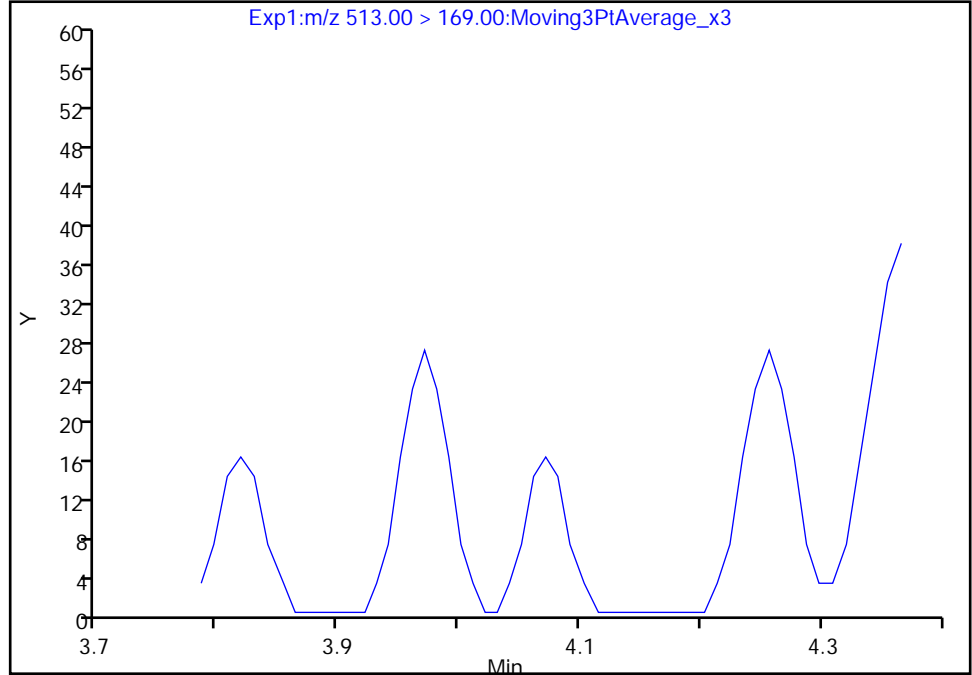
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

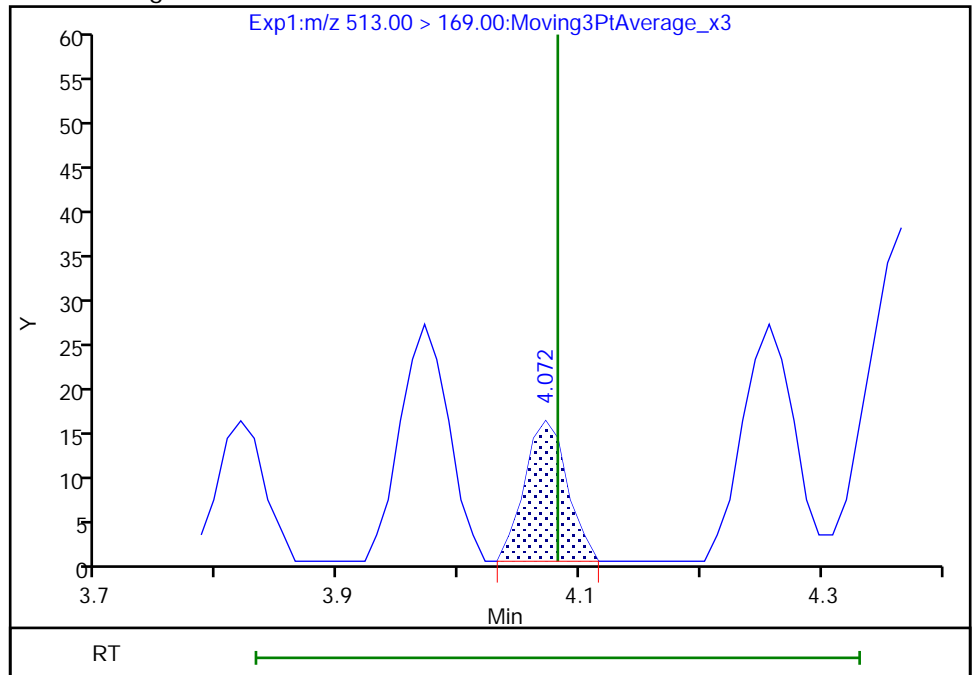
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.07  
Area: 39  
Amount: 0.001867  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:47:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

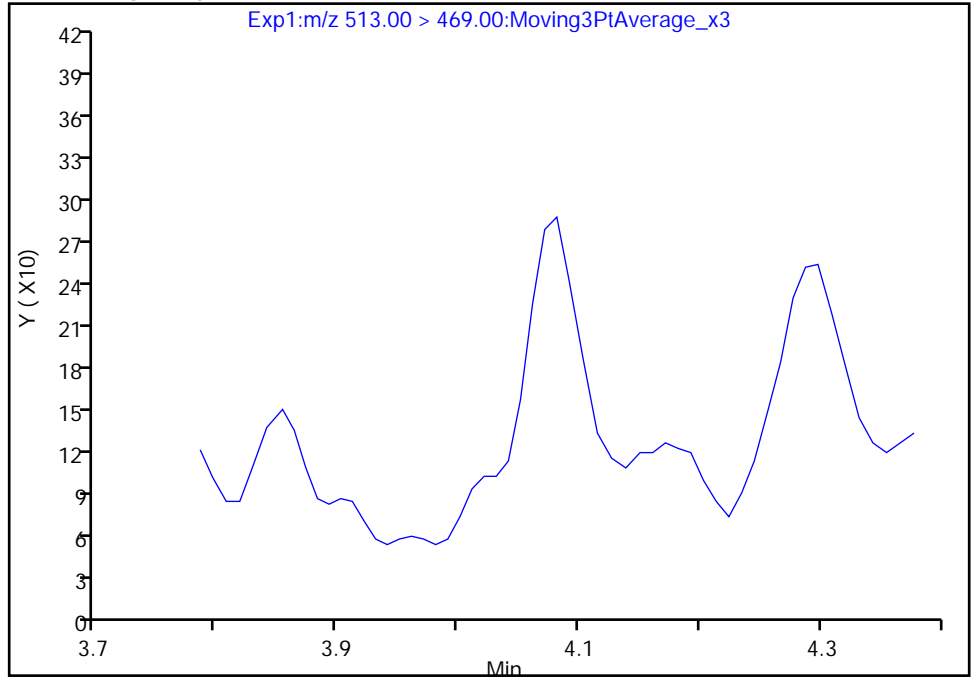
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

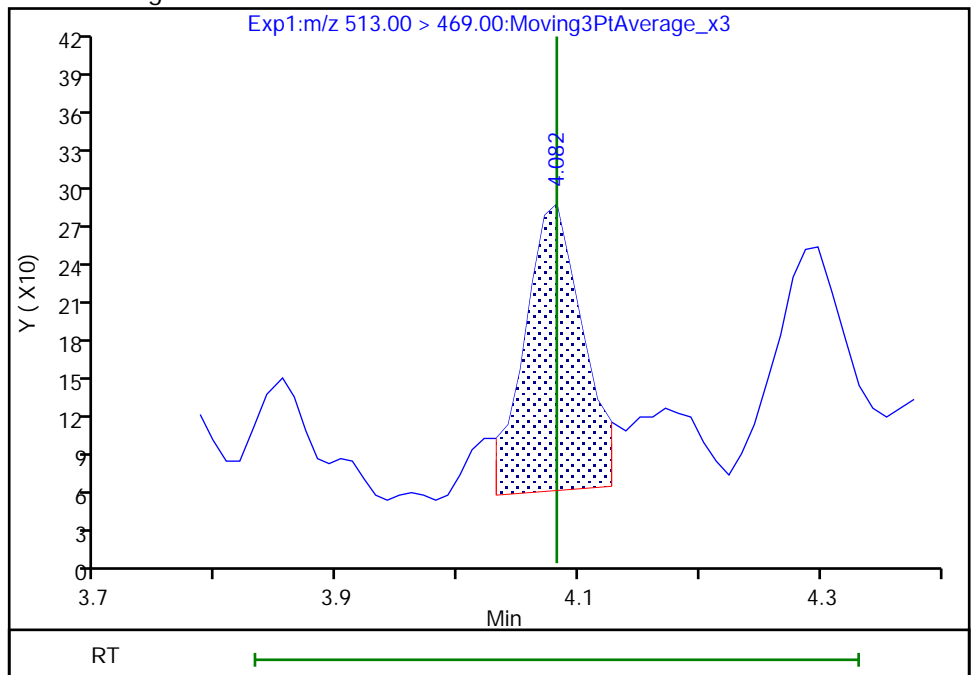
Not Detected  
Expected RT: 4.08

Processing Integration Results



RT: 4.08  
Area: 749  
Amount: 0.001867  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:47:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

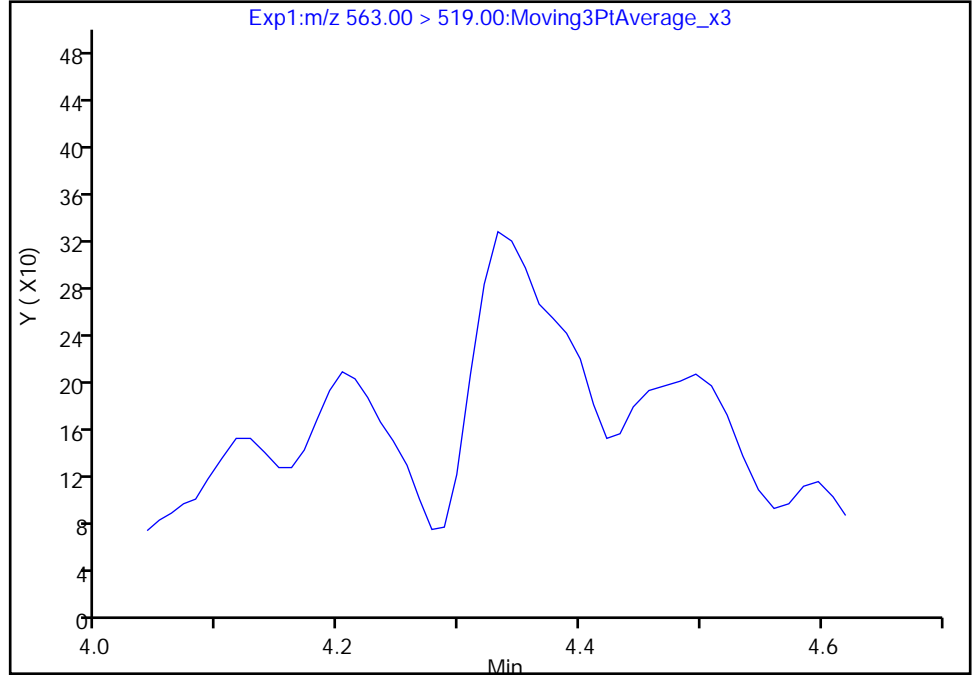
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

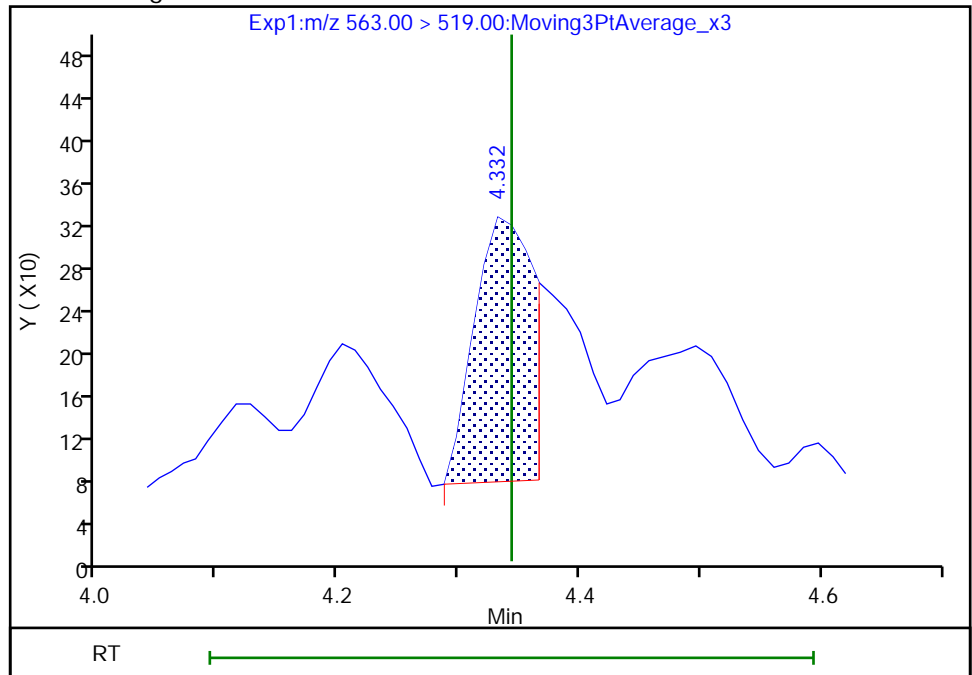
Not Detected  
Expected RT: 4.34

Processing Integration Results



RT: 4.33  
Area: 807  
Amount: 0.003072  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:48:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

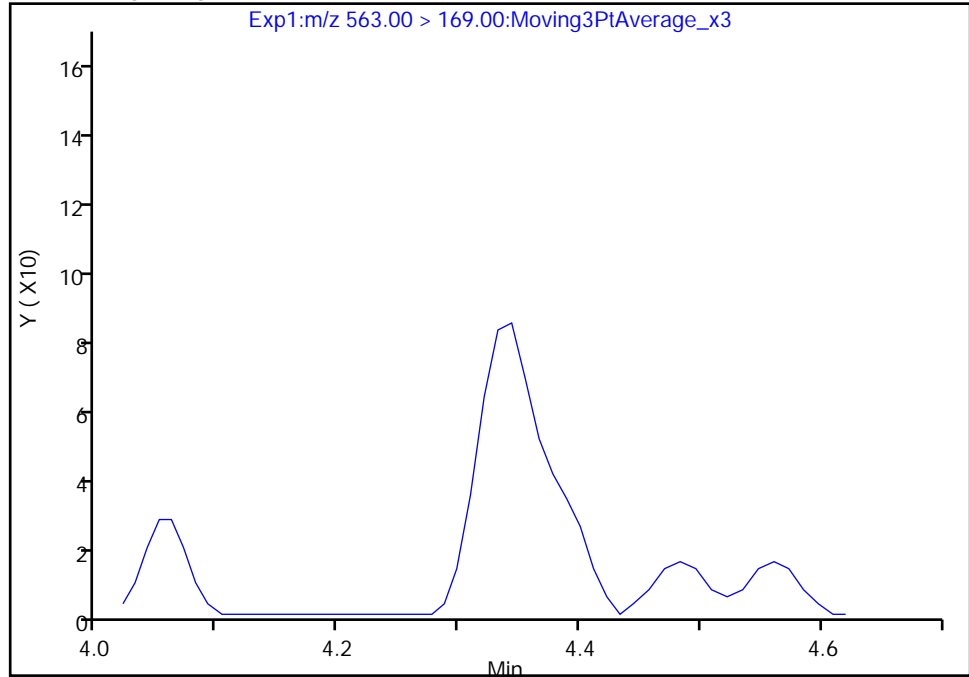
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

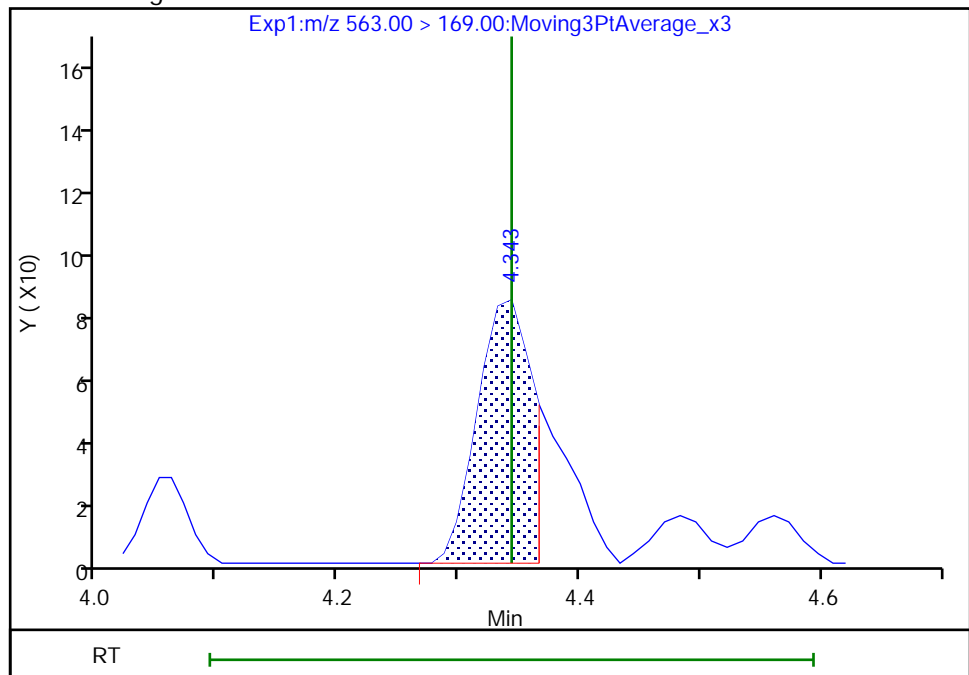
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 250  
Amount: 0.003072  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

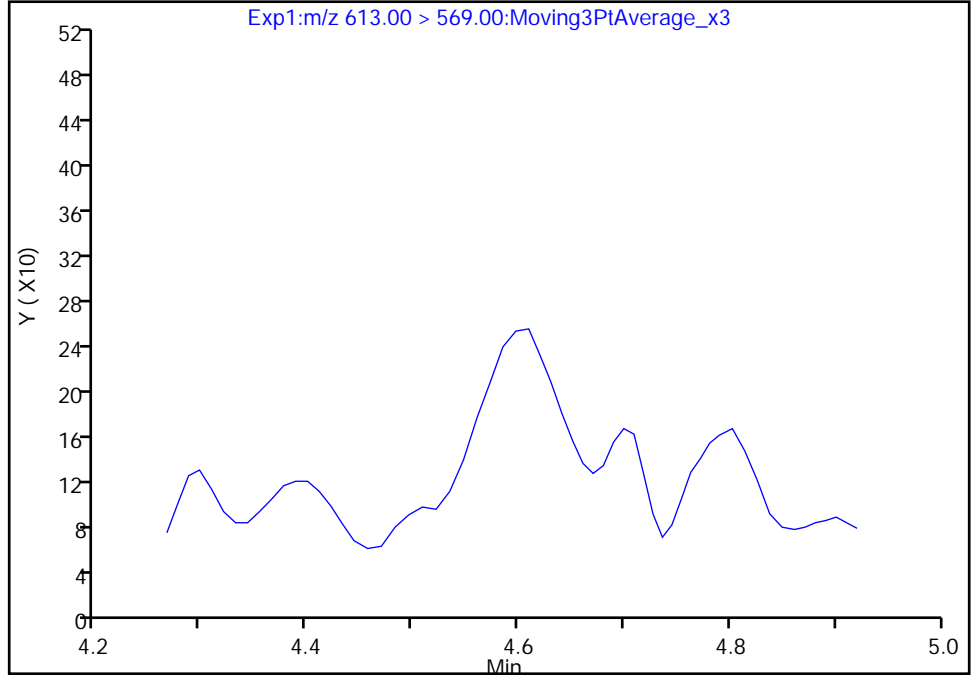
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

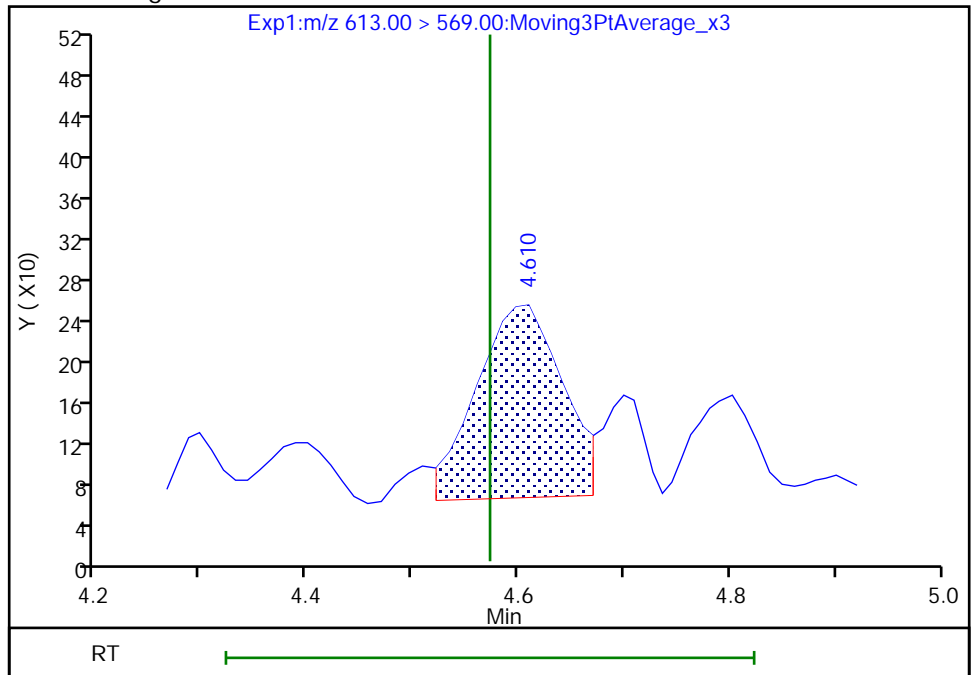
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.61  
Area: 1067  
Amount: 0.004226  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:48:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

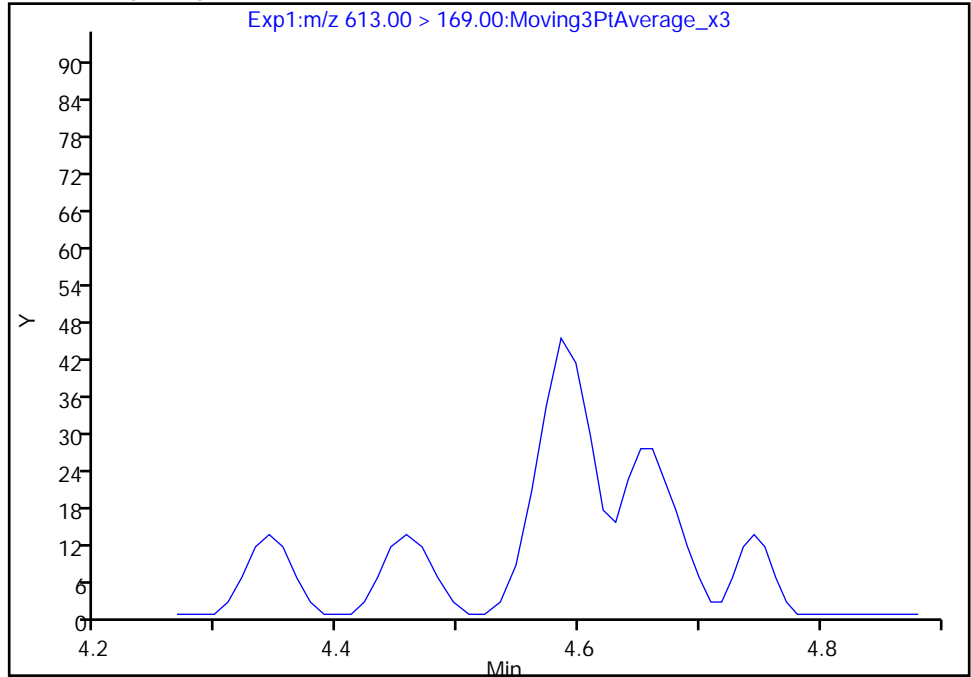
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

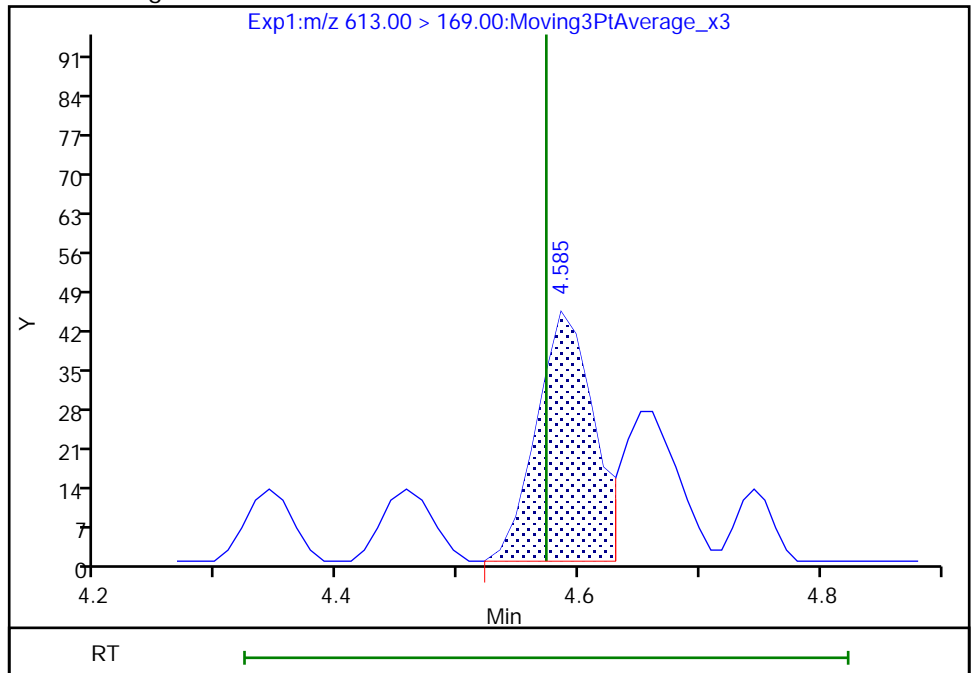
Not Detected  
Expected RT: 4.57

Processing Integration Results



RT: 4.59  
Area: 145  
Amount: 0.004226  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:48:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

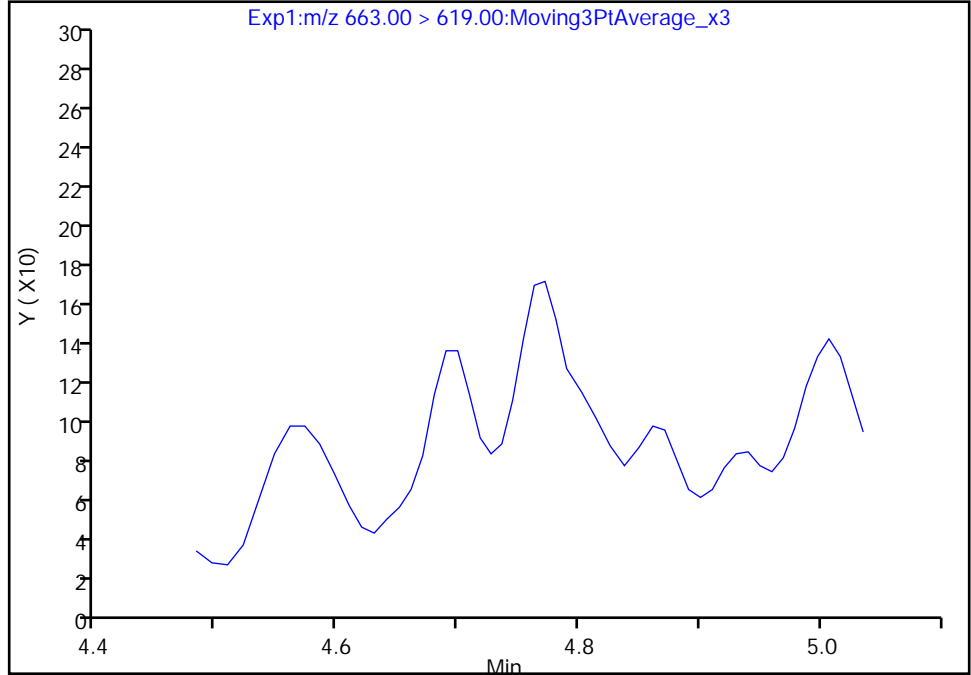
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

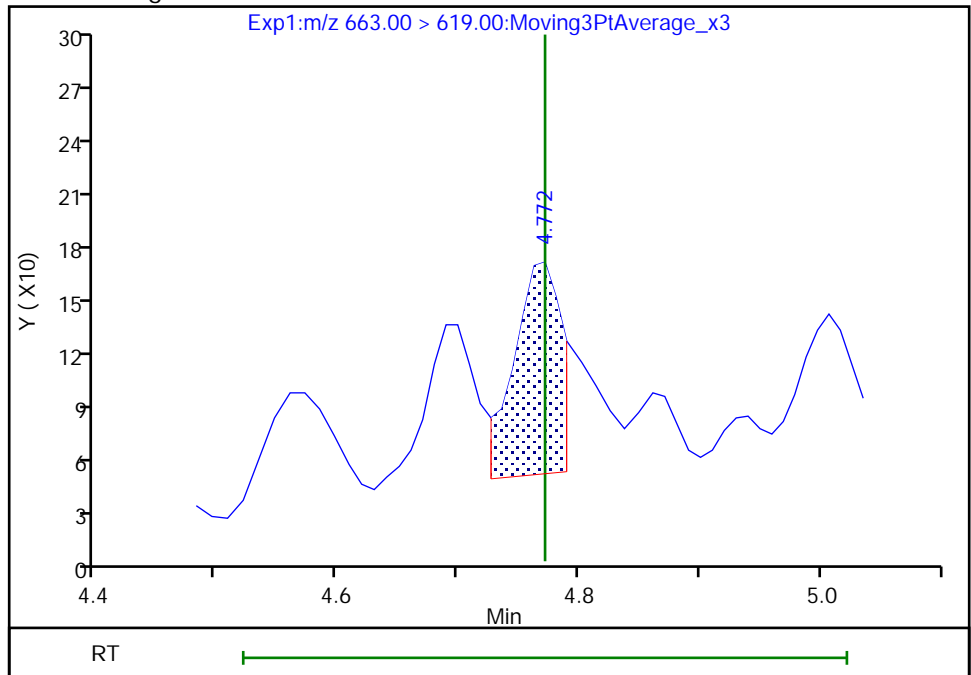
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.77  
Area: 312  
Amount: 0.001455  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

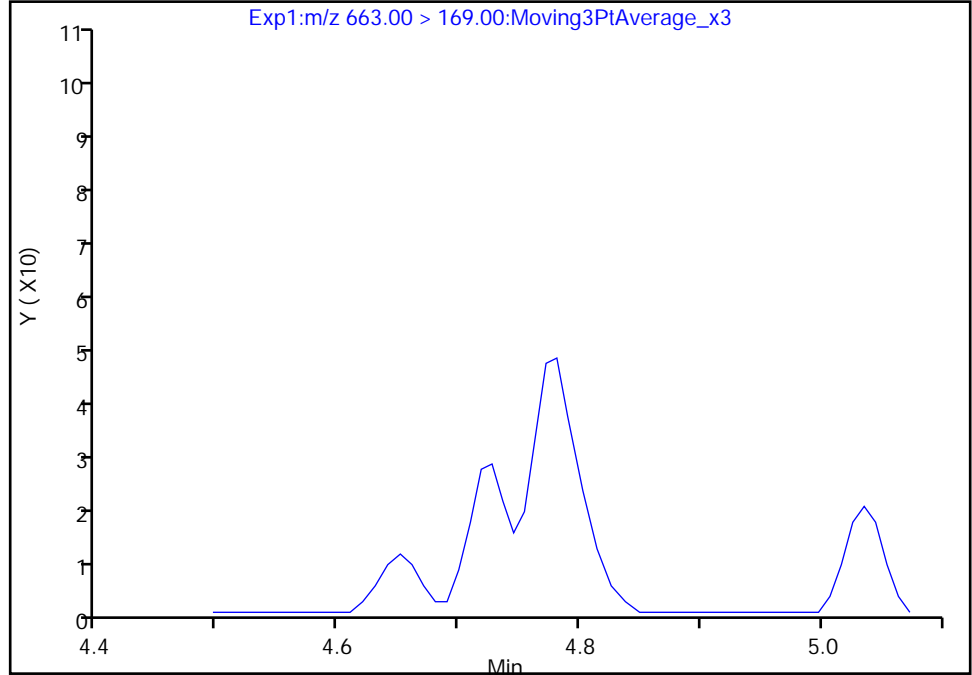
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

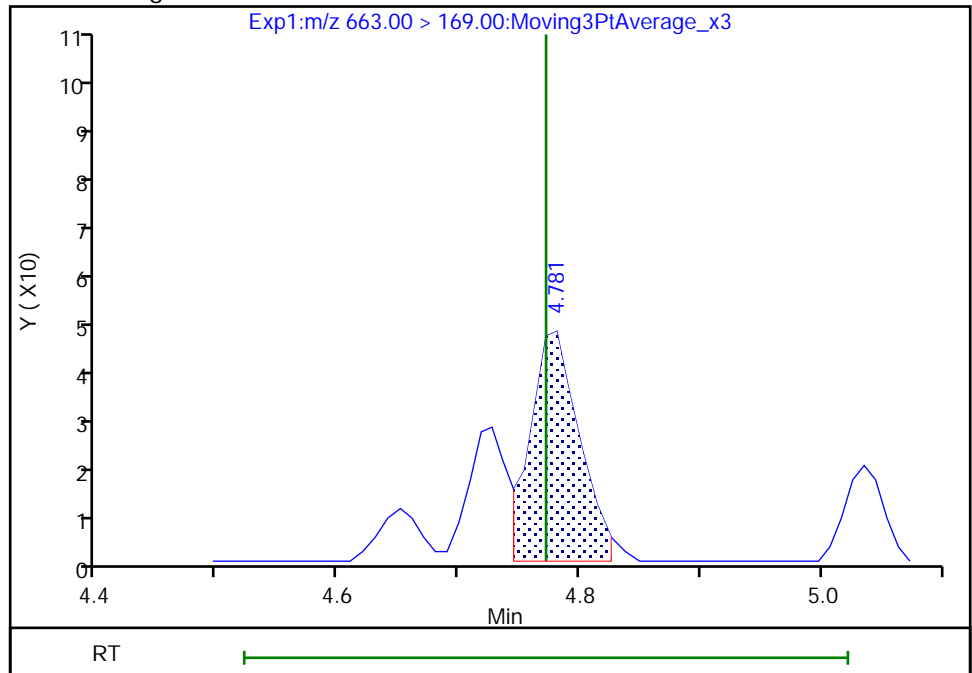
Not Detected  
Expected RT: 4.77

Processing Integration Results



Manual Integration Results

RT: 4.78  
Area: 133  
Amount: 0.001455  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

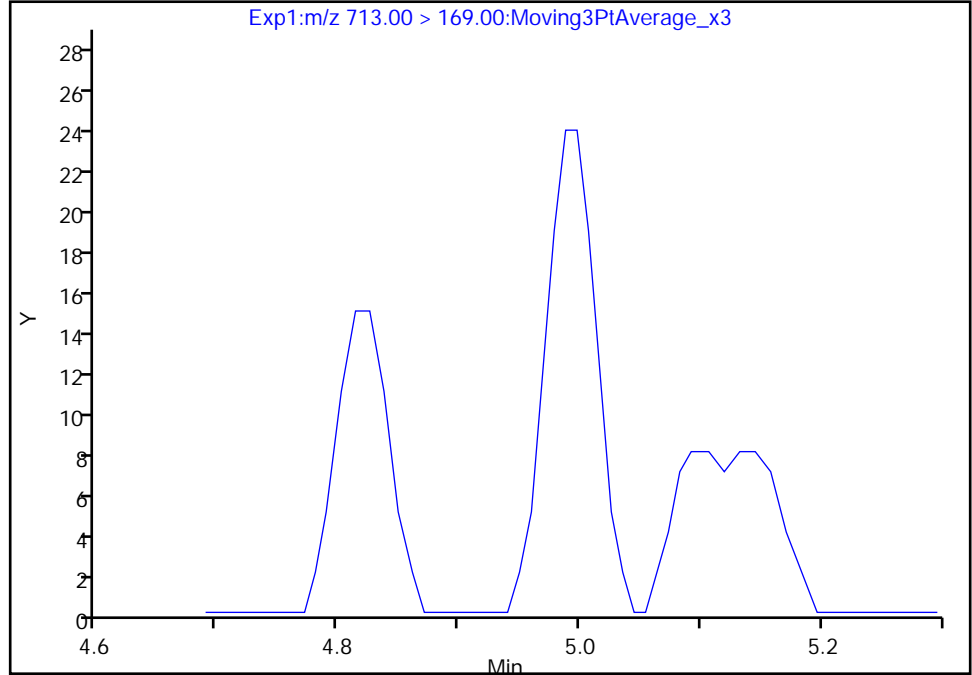
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

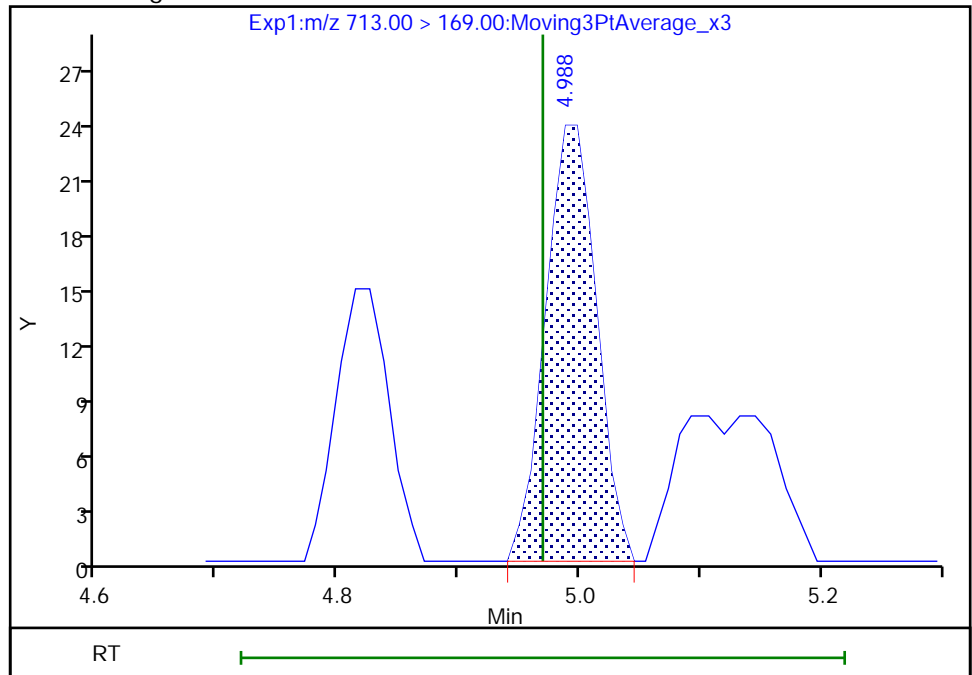
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.99  
Area: 70  
Amount: 0.001888  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:49:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

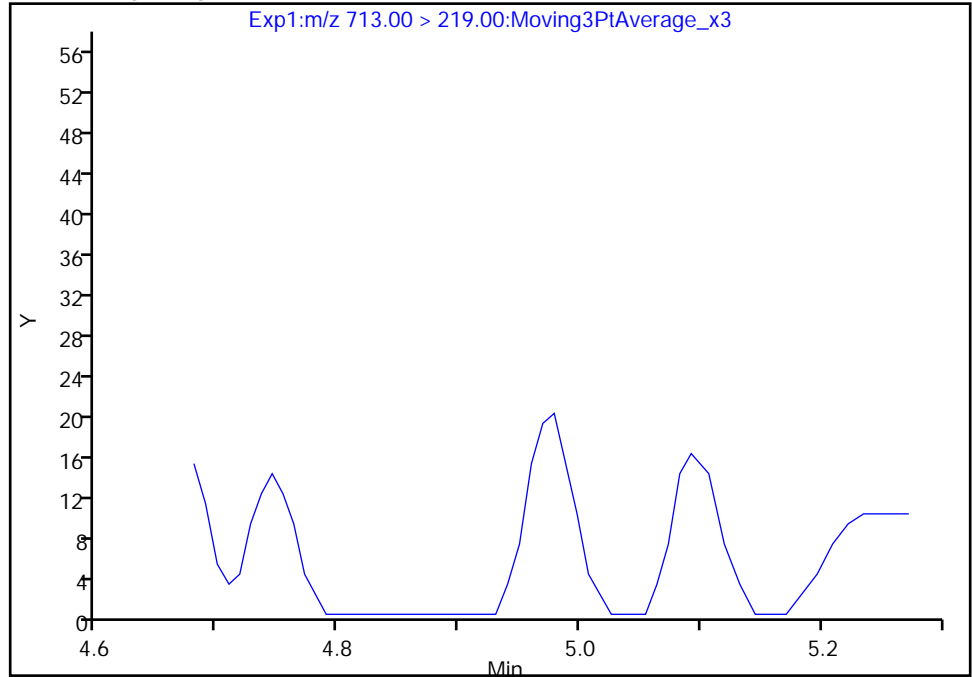
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

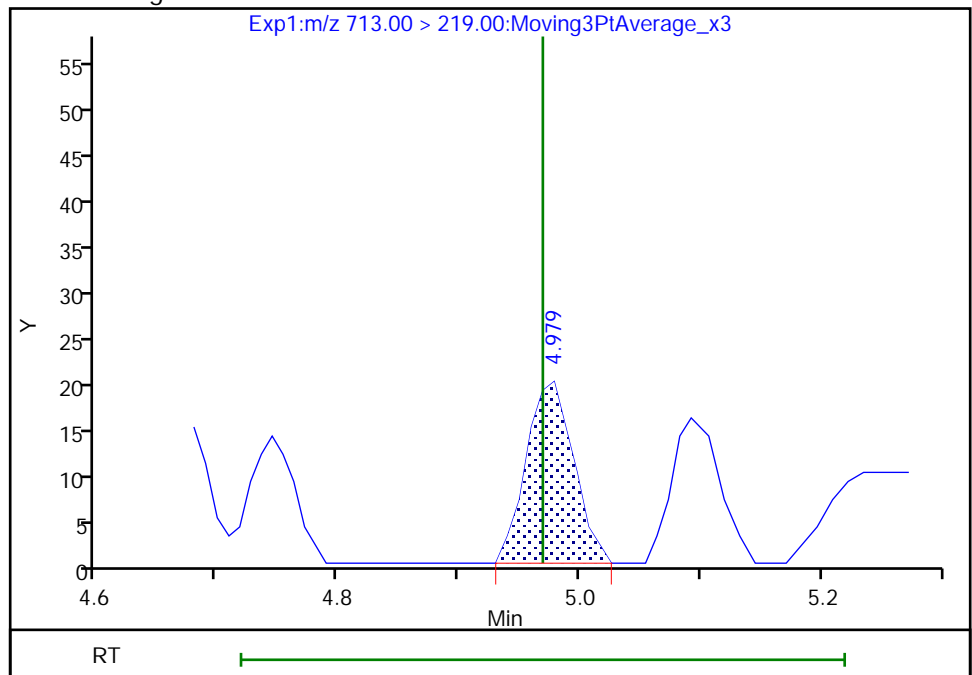
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.98  
Area: 54  
Amount: 0.001888  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

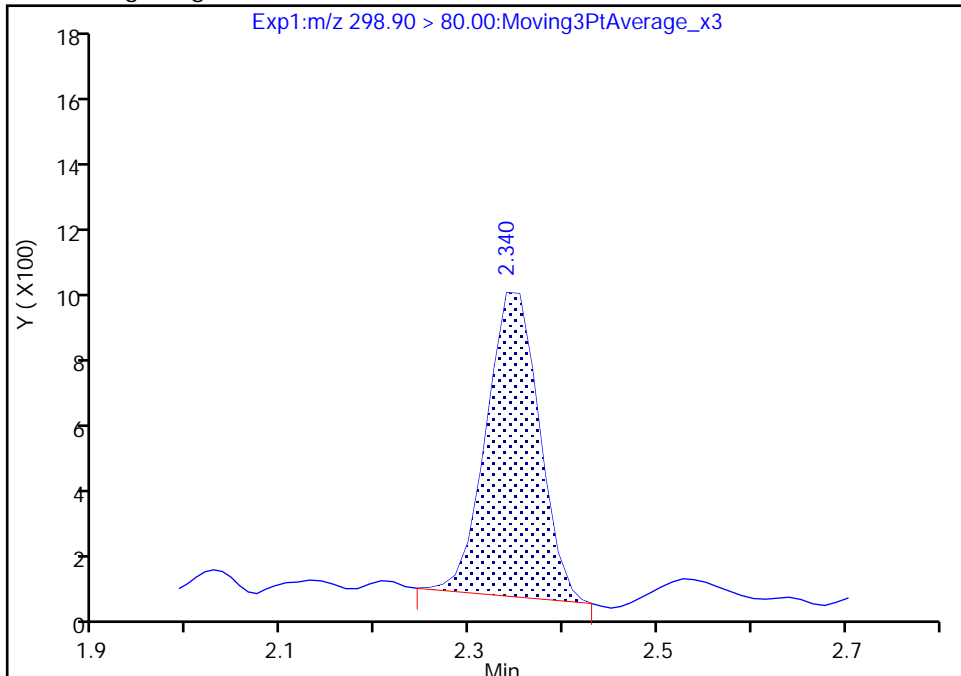
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

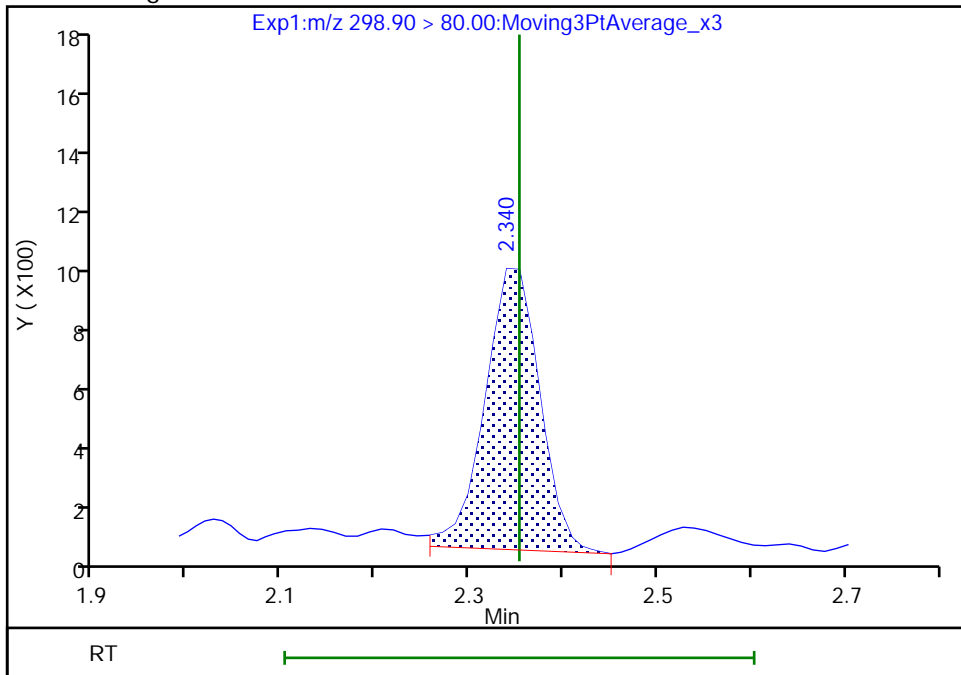
RT: 2.34  
Area: 3593  
Amount: 0.005666  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 3819  
Amount: 0.006022  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:44:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

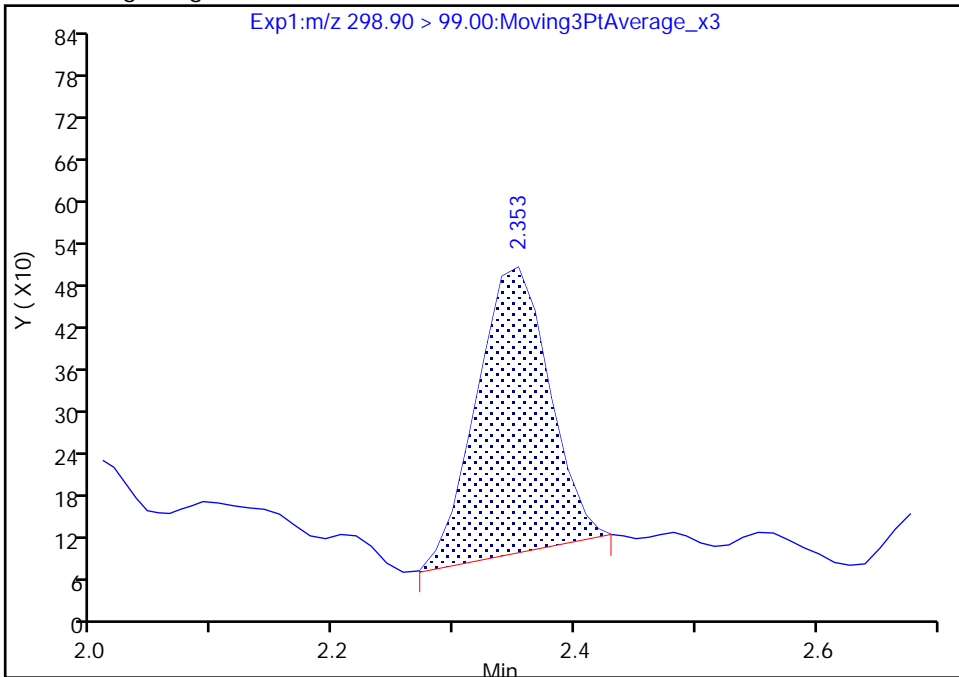
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

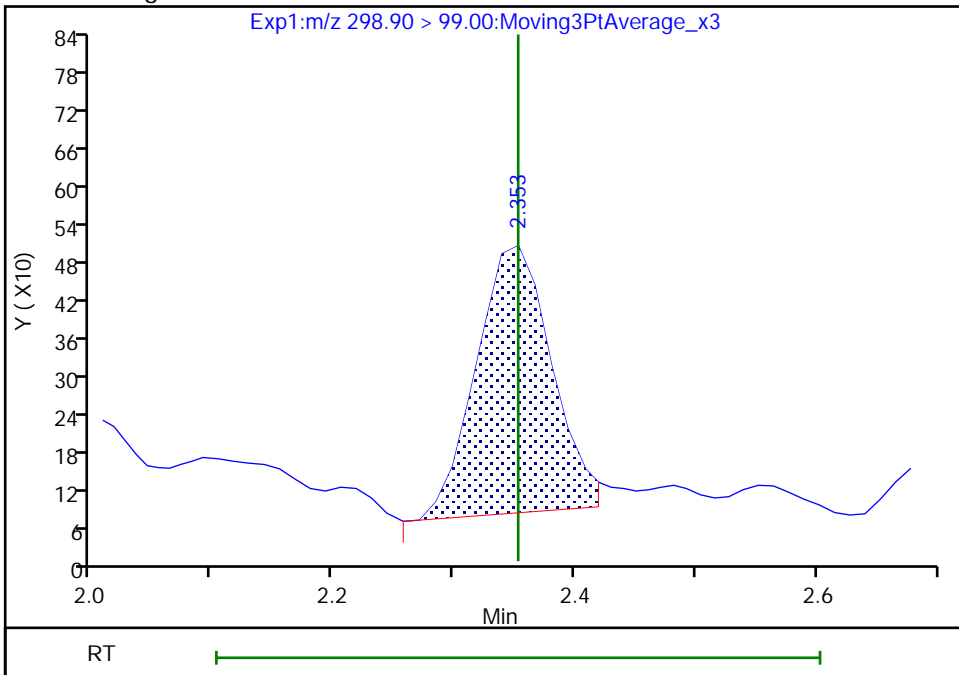
RT: 2.35  
Area: 1712  
Amount: 0.005666  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 1822  
Amount: 0.006022  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:44:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

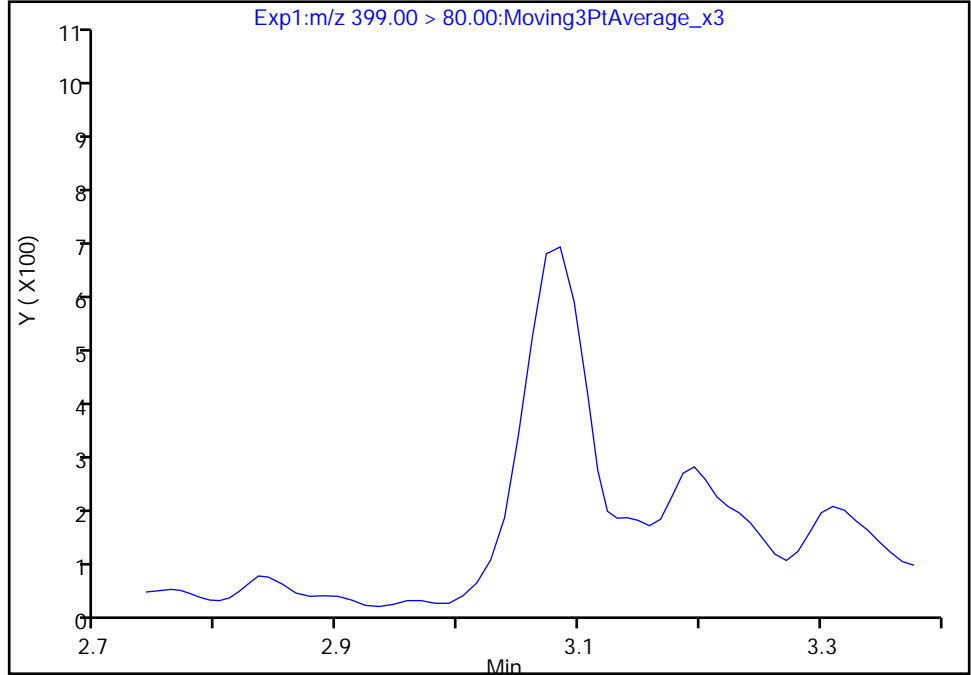
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

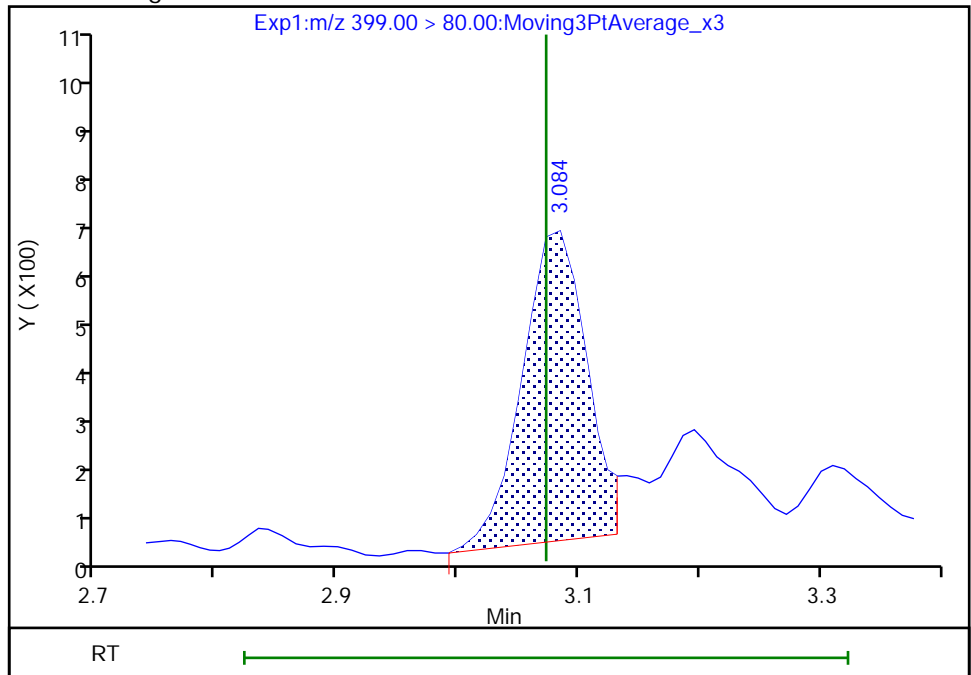
Not Detected  
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08  
Area: 2371  
Amount: 0.004397  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:45:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

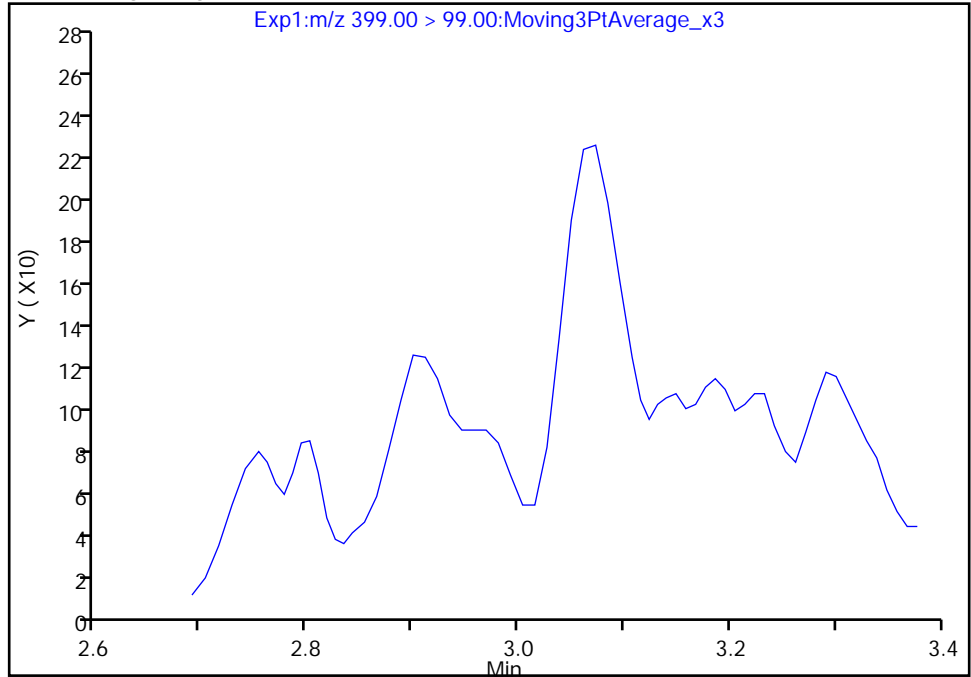
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

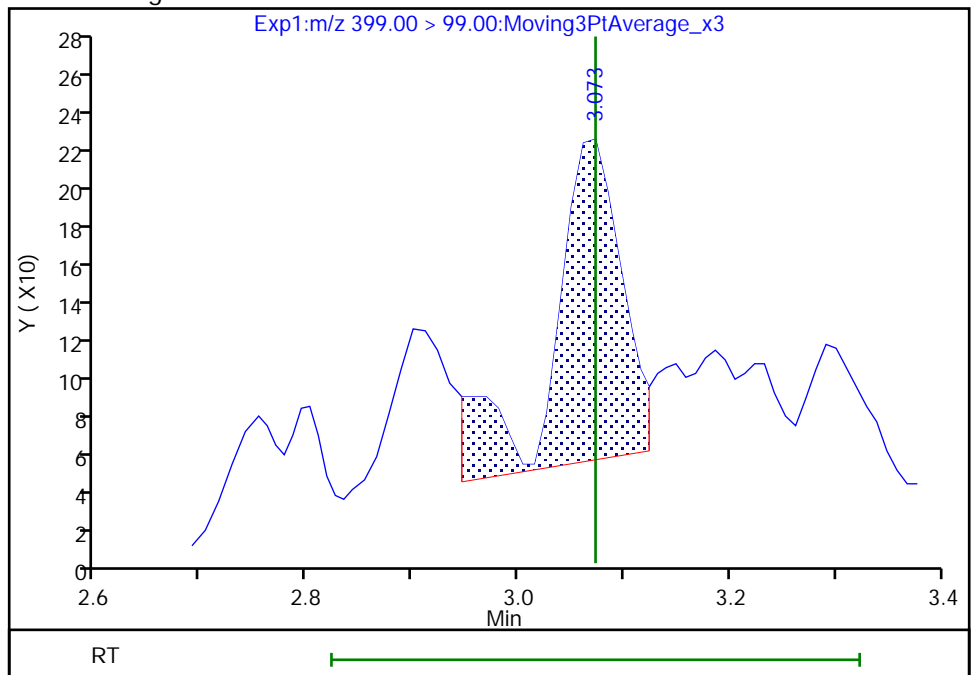
Not Detected  
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.07  
Area: 739  
Amount: 0.004397  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:45:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

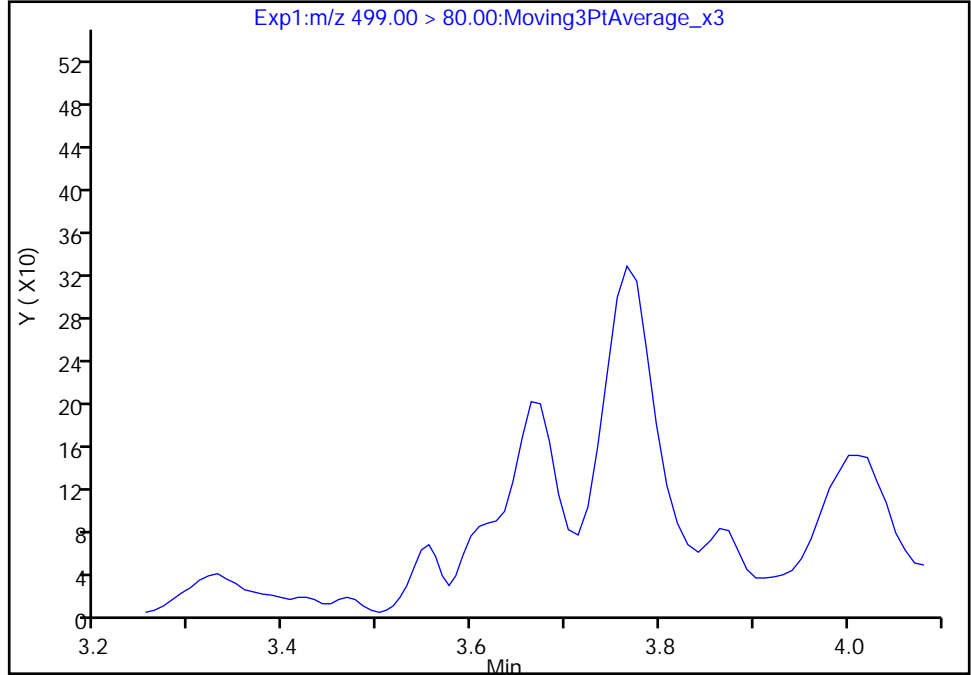
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

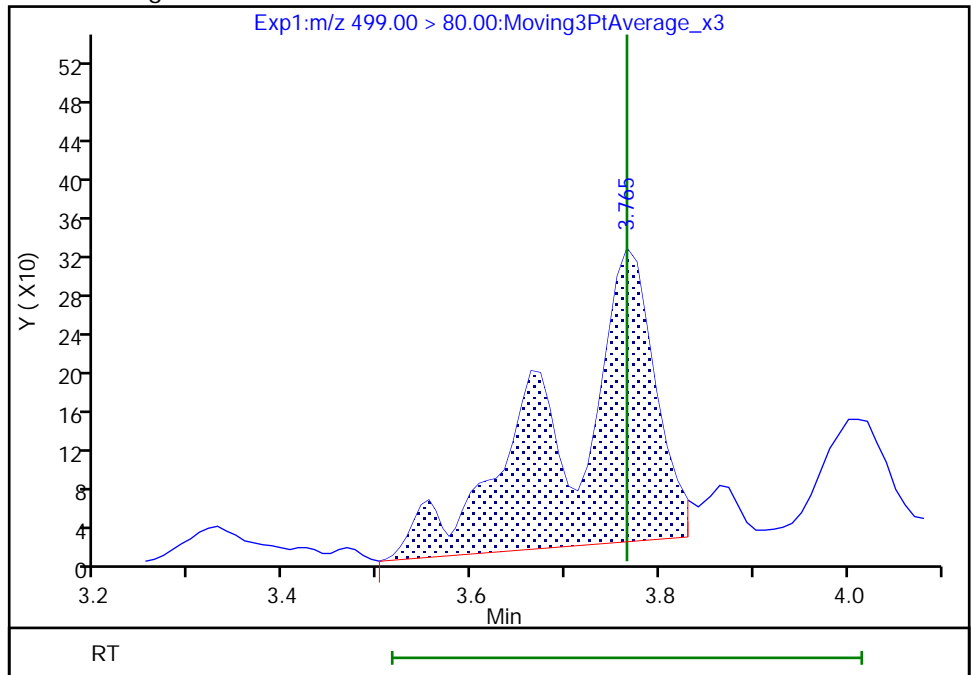
Not Detected  
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.77  
Area: 2097  
Amount: 0.005073  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:47:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

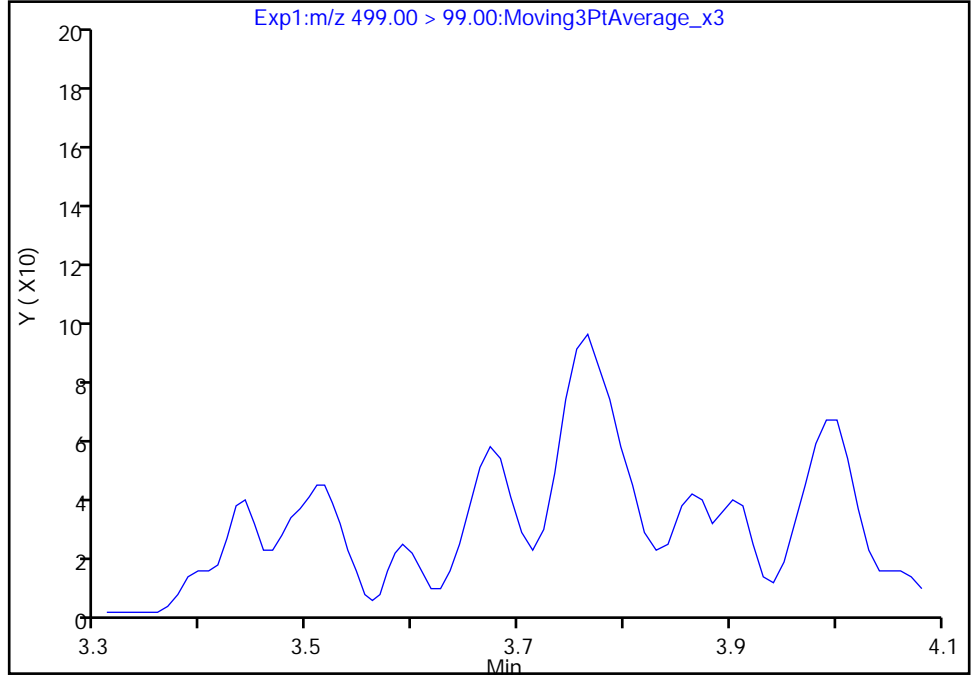
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

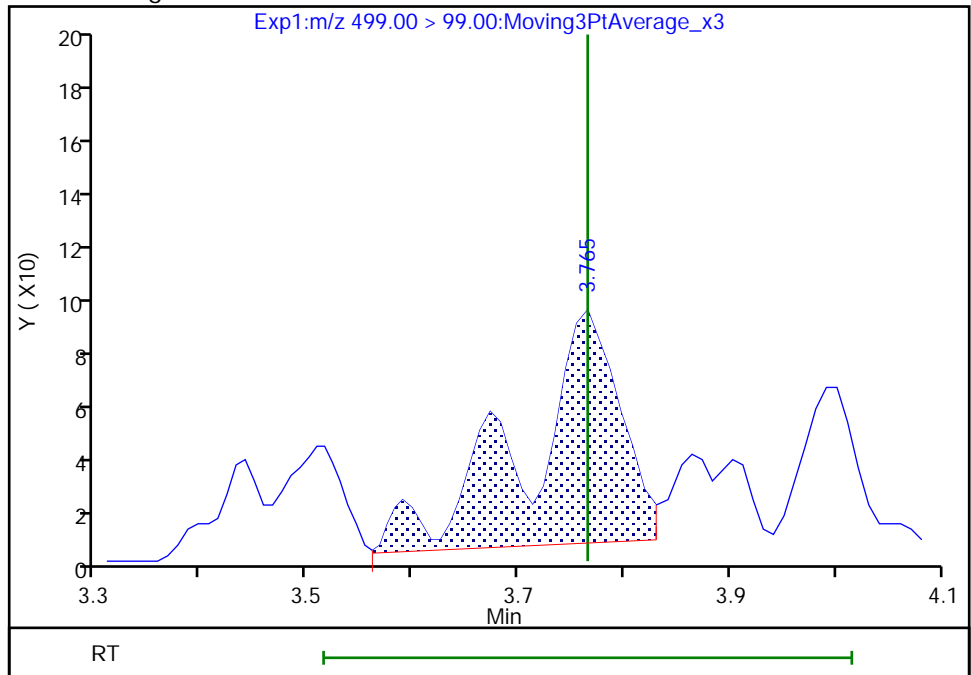
Not Detected  
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.77  
Area: 547  
Amount: 0.005073  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

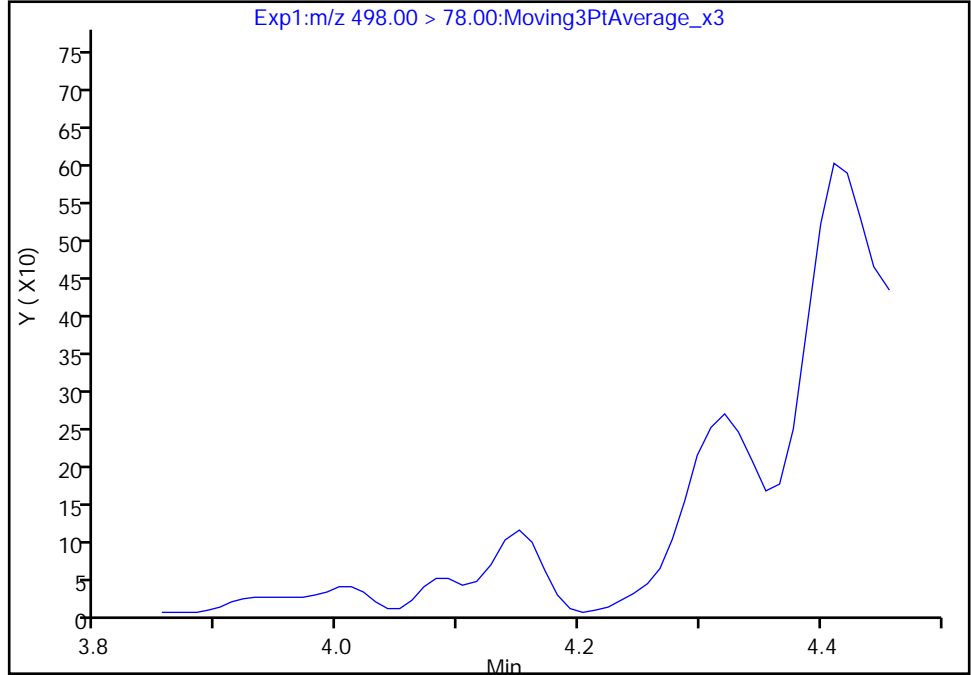
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

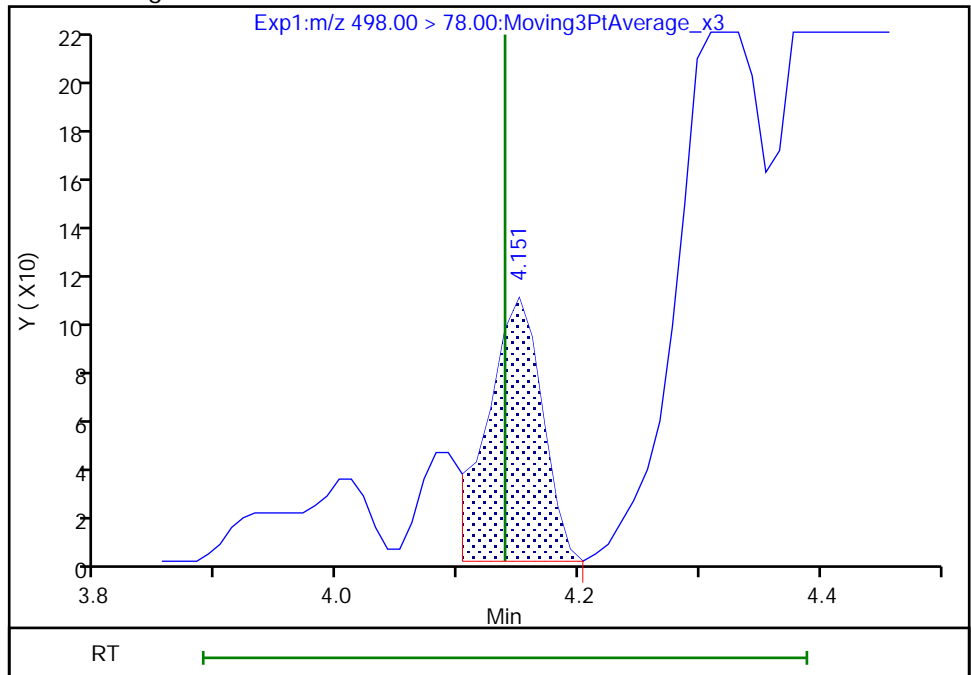
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.15  
Area: 338  
Amount: 0.000776  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:47:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

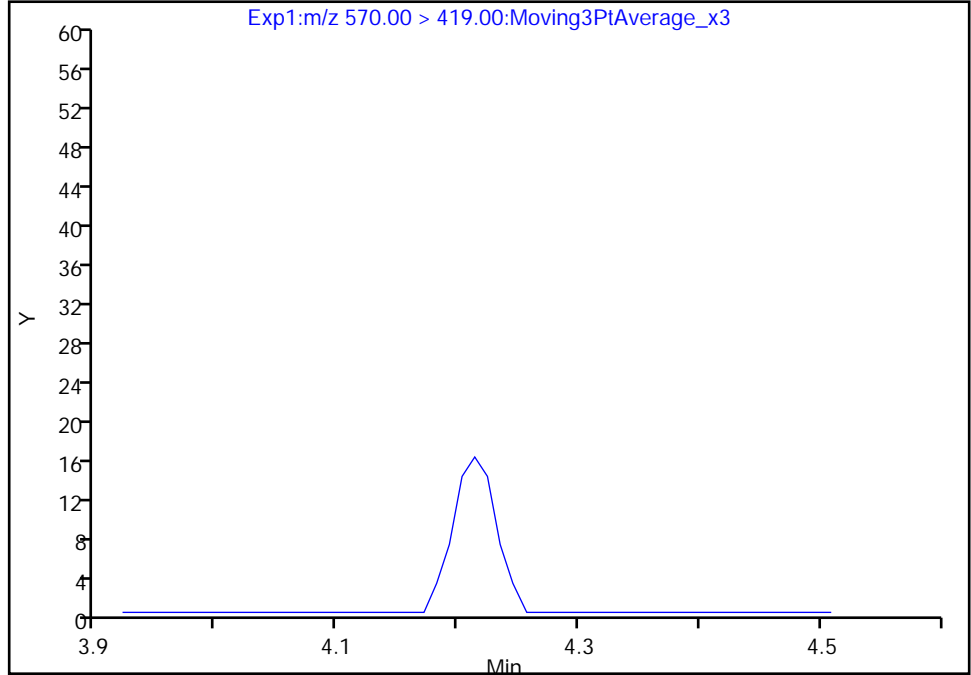
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

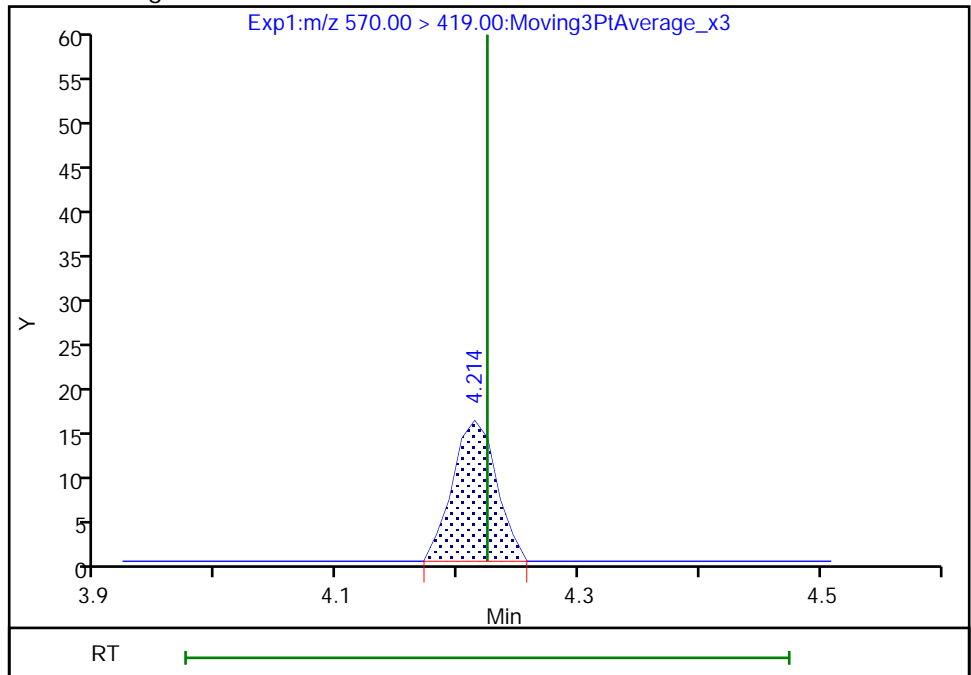
Not Detected  
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.21  
Area: 40  
Amount: 0.002245  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:47:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

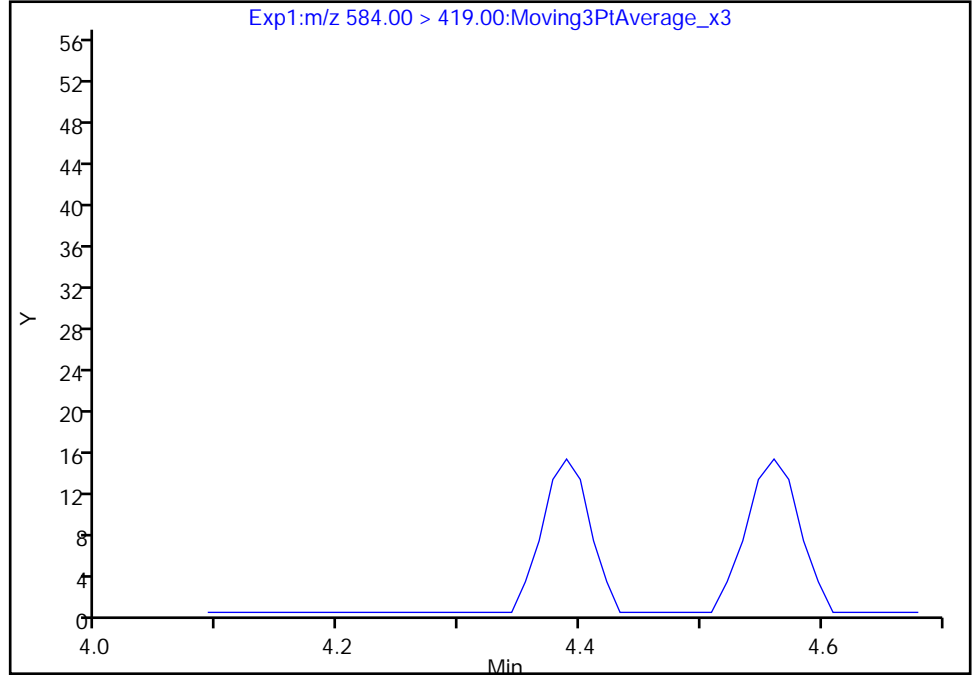
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

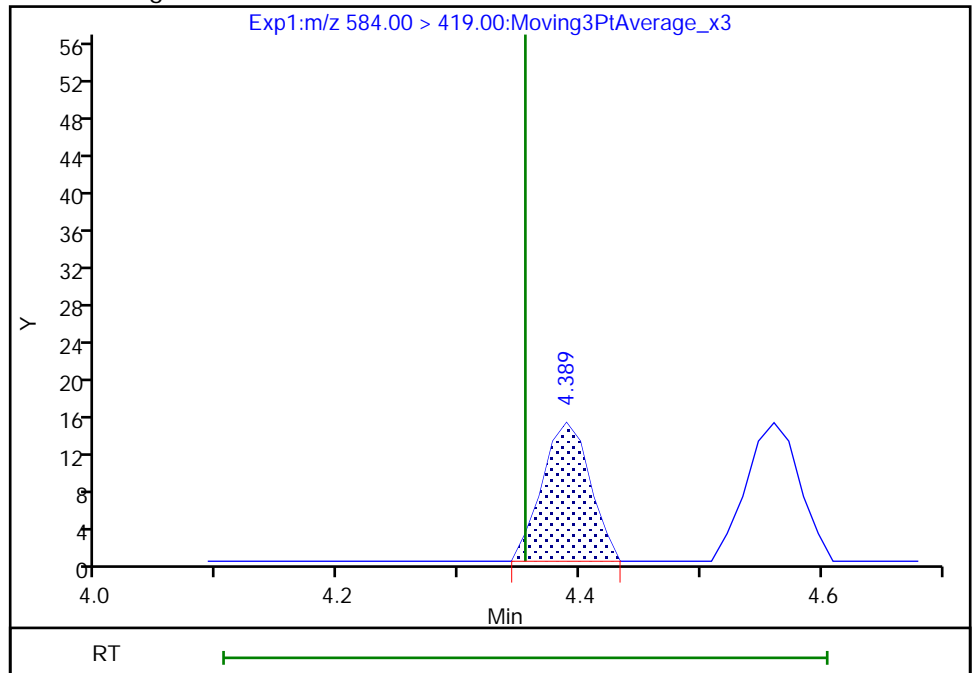
Not Detected  
Expected RT: 4.35

Processing Integration Results



RT: 4.39  
Area: 41  
Amount: 0.001885  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:48:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

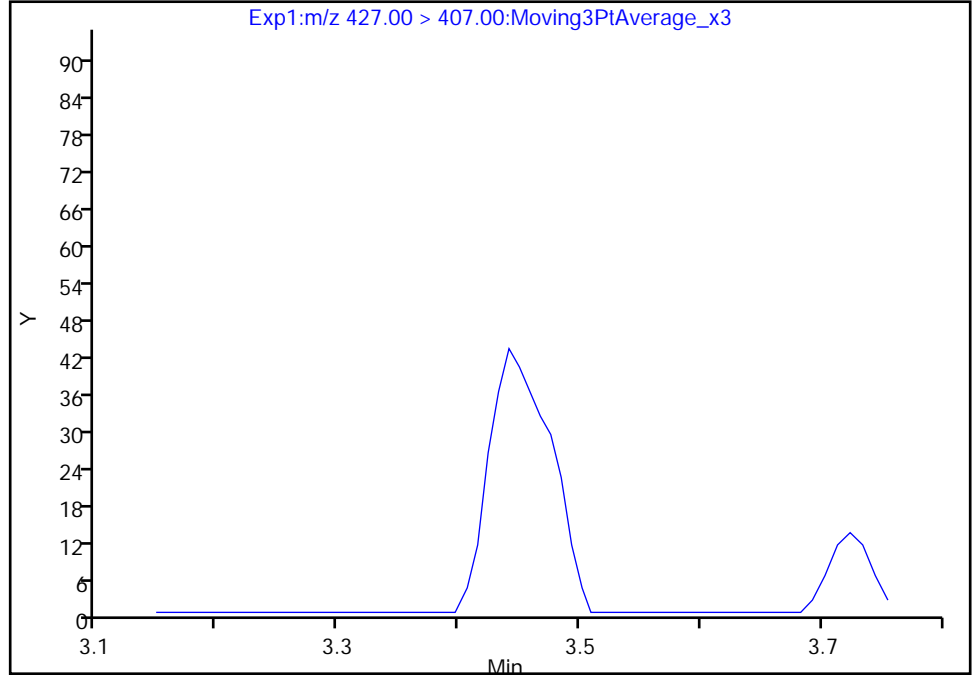
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B26.d  
Injection Date: 30-Sep-2020 21:41:39 Instrument ID: LC812  
Lims ID: 480-175657-C-8-A Lab Sample ID: 200-175657-8  
Client ID: EQUIPMENT BLANK  
Operator ID: lc812tech ALS Bottle#: 26 Worklist Smp#: 26  
Injection Vol: 20.0 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

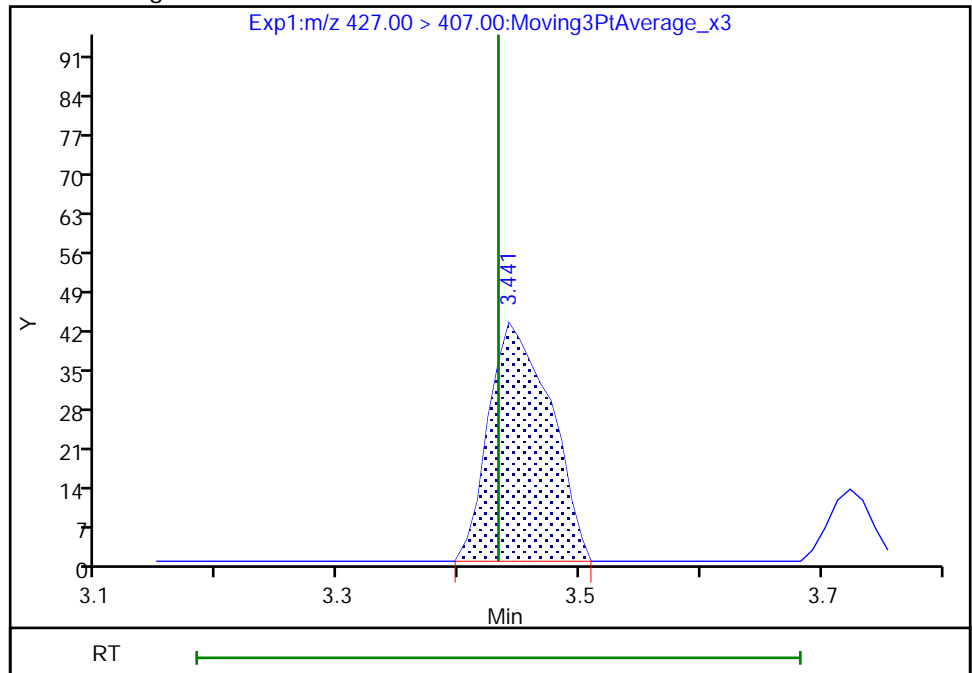
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.44  
Area: 152  
Amount: 0.002931  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 15:46:17  
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.: 480-175657-1      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 <sup>2</sup> OR COD	#	MIN R <sup>2</sup> 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				
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	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.: 480-175657-1 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 <sup>2</sup> OR COD	#	MIN R <sup>2</sup> OR COD
	LVL 1	LVL 2	LVL 3	LVL 4	LVL 5		B	M1	M2								
	LVL 6																
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				
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	0.4624 0.3778	0.3502	0.4096	0.3888	0.3863	AveID		0.3958			9.6		35.0				
Perfluorooctanesulfonamide (PFOSA)	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-Chloroeicosfluoro-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.: 480-175657-1 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 <sup>2</sup> OR COD	#	MIN R <sup>2</sup> 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.: 480-175657-1 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
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)		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.: 480-175657-1 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
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)		AveID	1915 285233	2921	16715	28279	73312	0.0479 9.58	0.0958	0.479	0.958	2.40
Perfluorooctanesulfonamide (PFOSA)		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.: 480-175657-1 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										M
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										
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										
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										
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 (										
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	

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 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

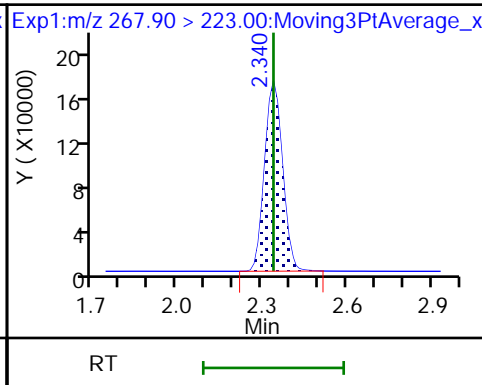
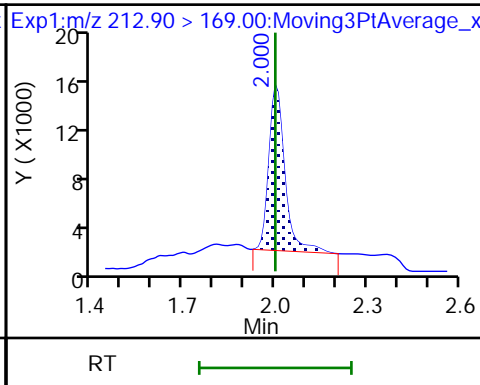
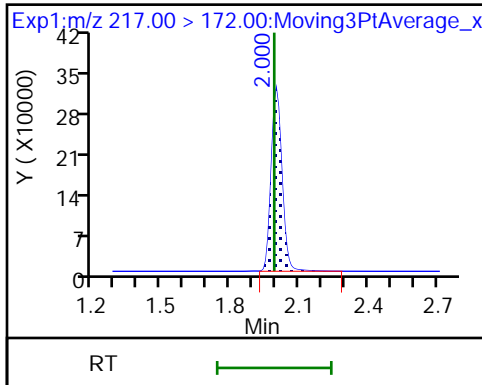
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

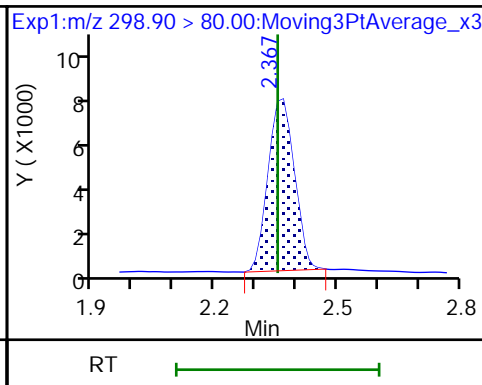
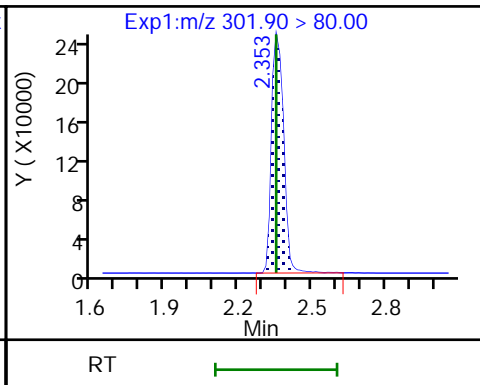
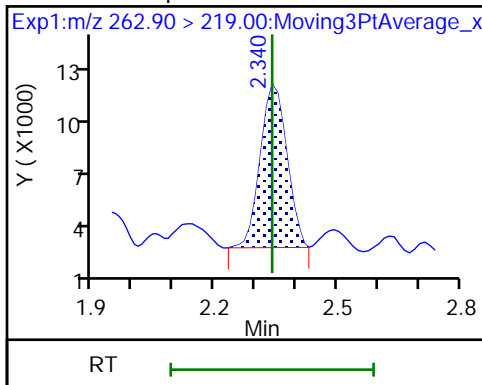
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

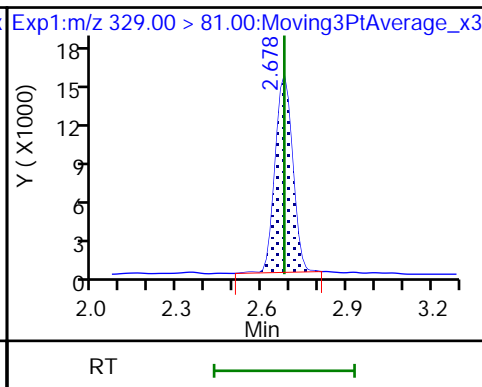
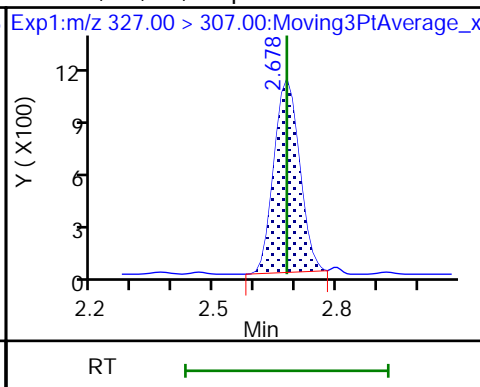
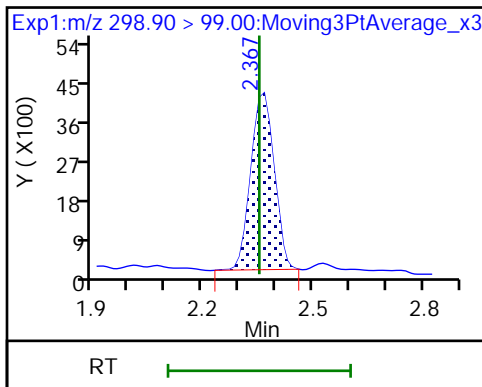
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

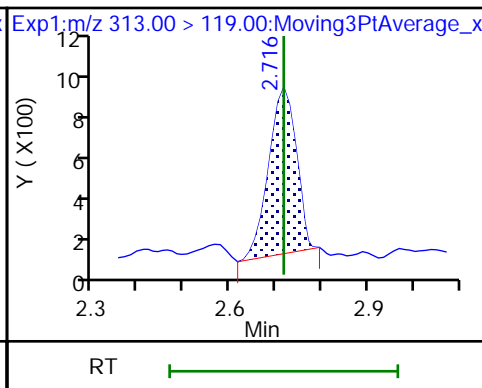
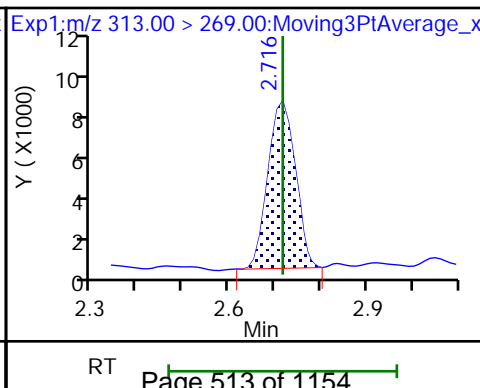
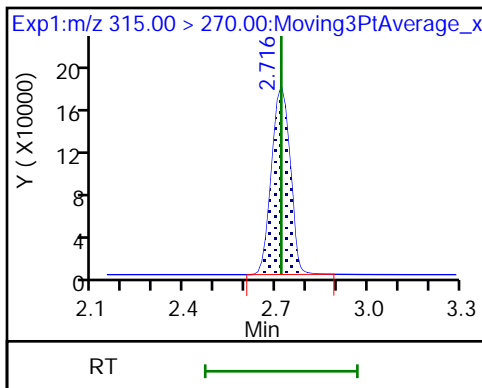
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

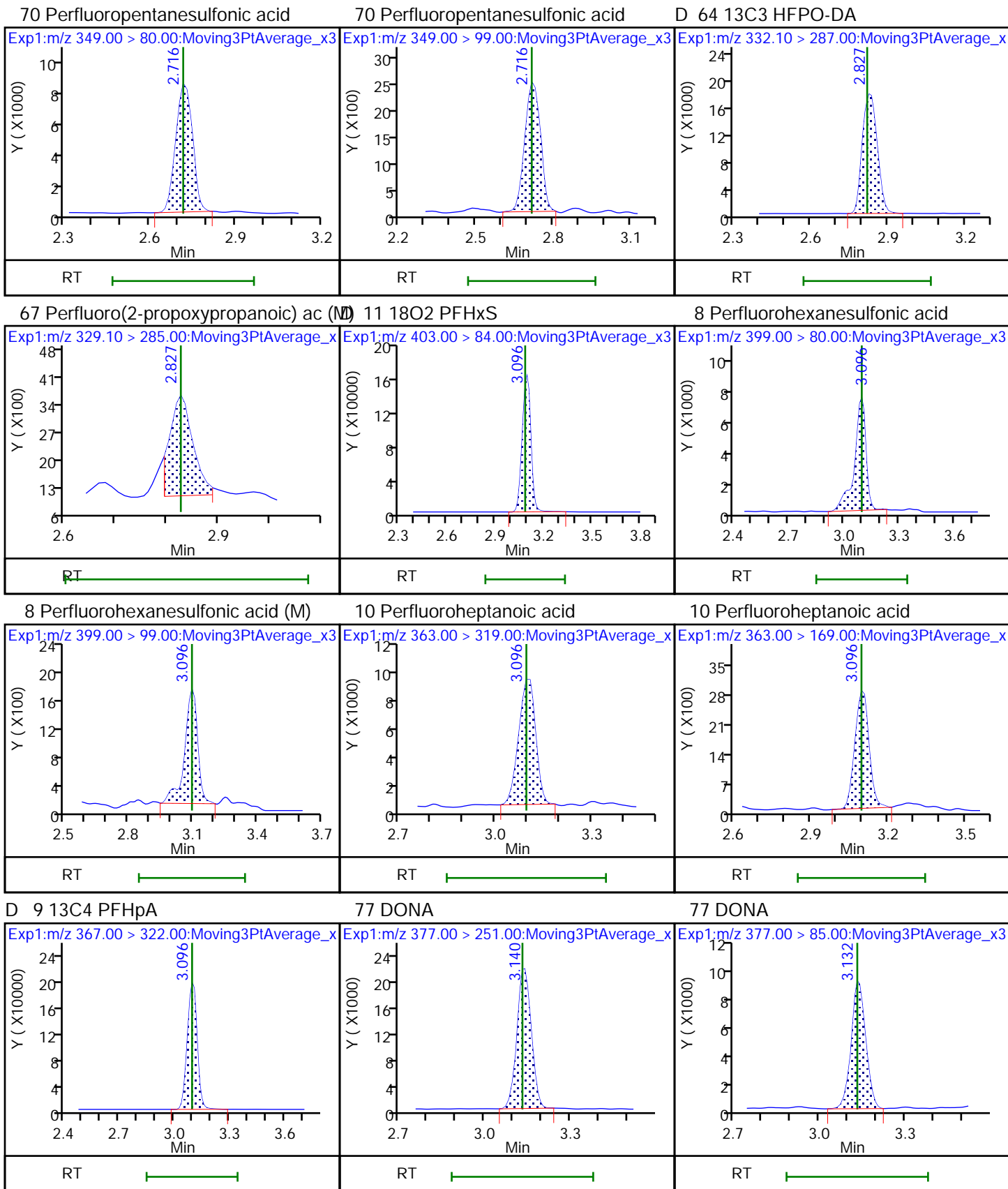


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid

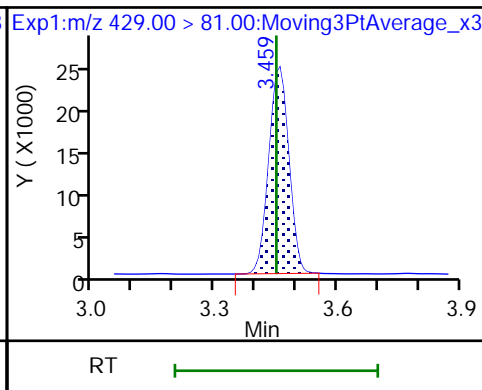
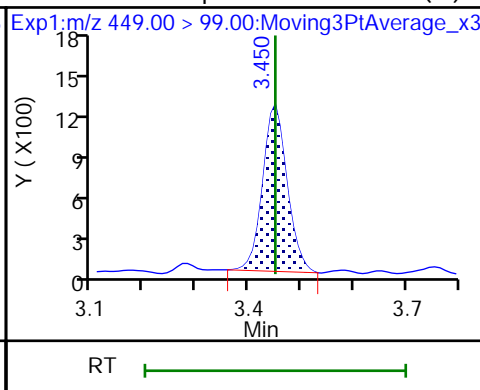
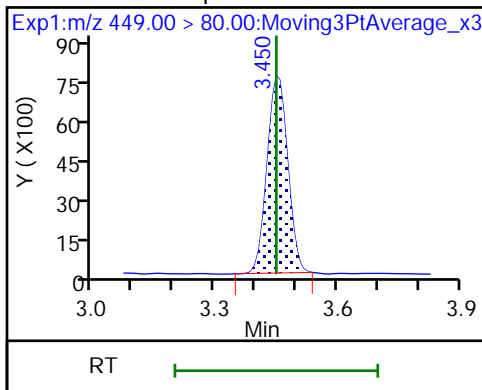




16 Perfluoroheptanesulfonic acid

16 Perfluoroheptanesulfonic acid (M)

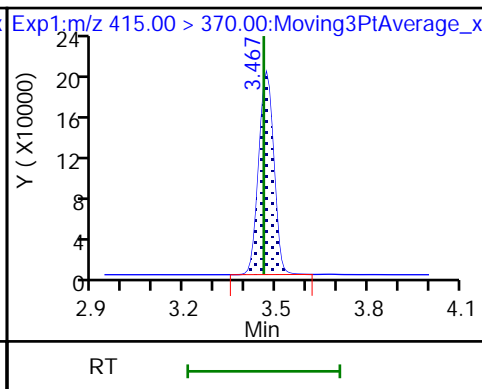
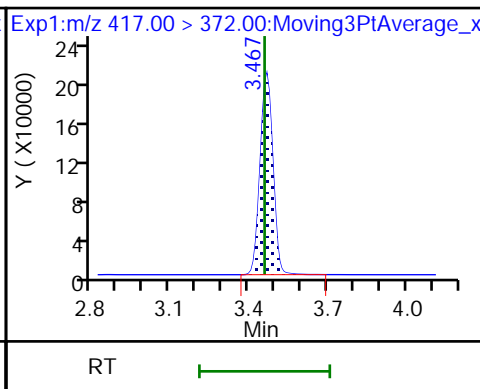
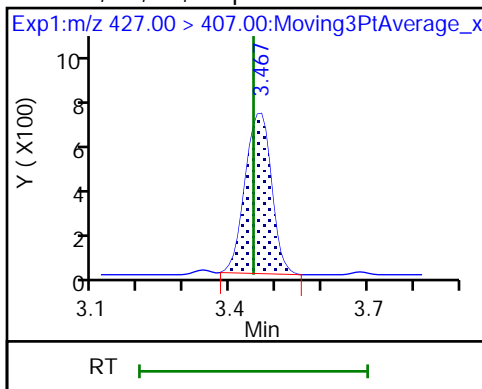
D 12 M2-6:2 FTS



13 1H,1H,2H,2H-perfluorooctanesulfo

D 14 13C4 PFOA

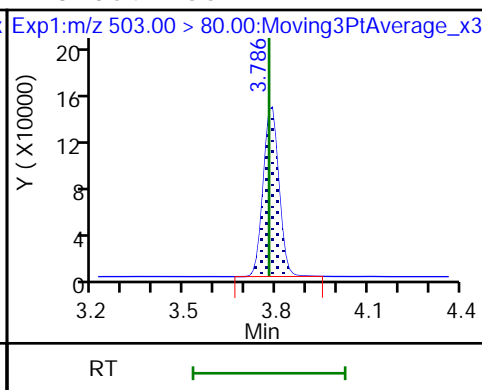
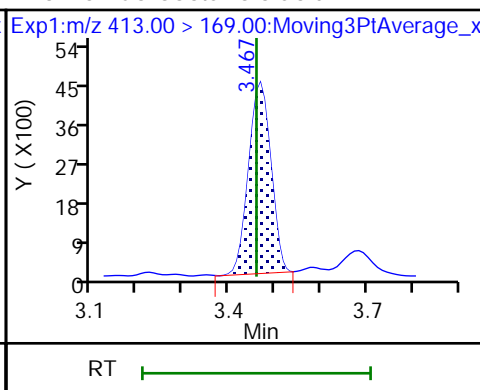
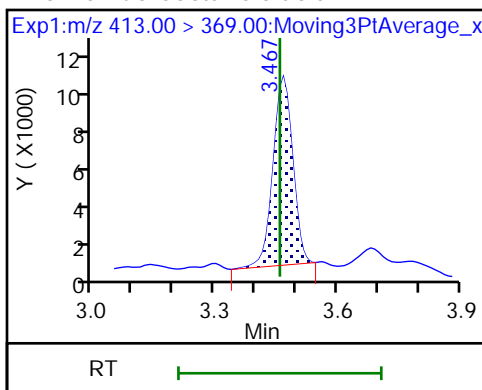
\* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

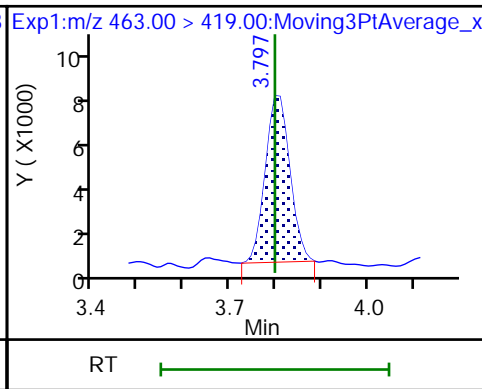
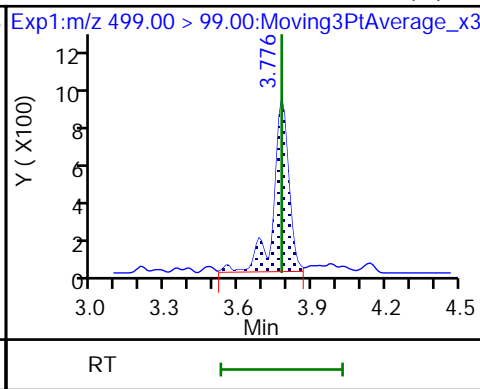
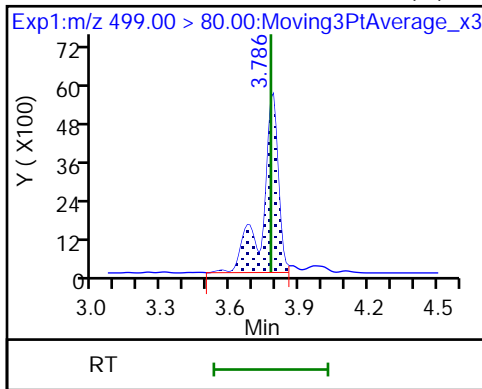
D 18 13C4 PFOS



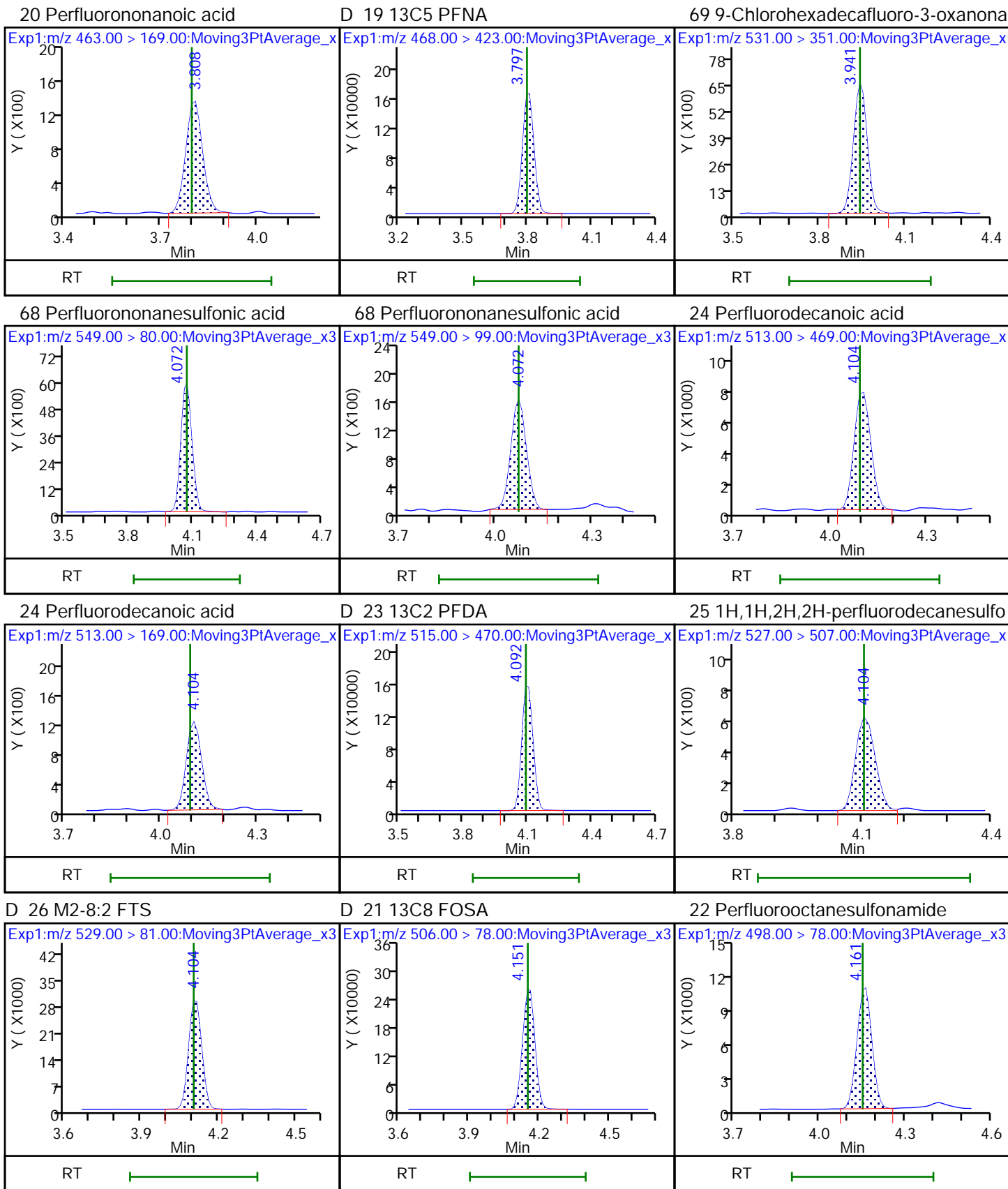
17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

20 Perfluorononanoic acid

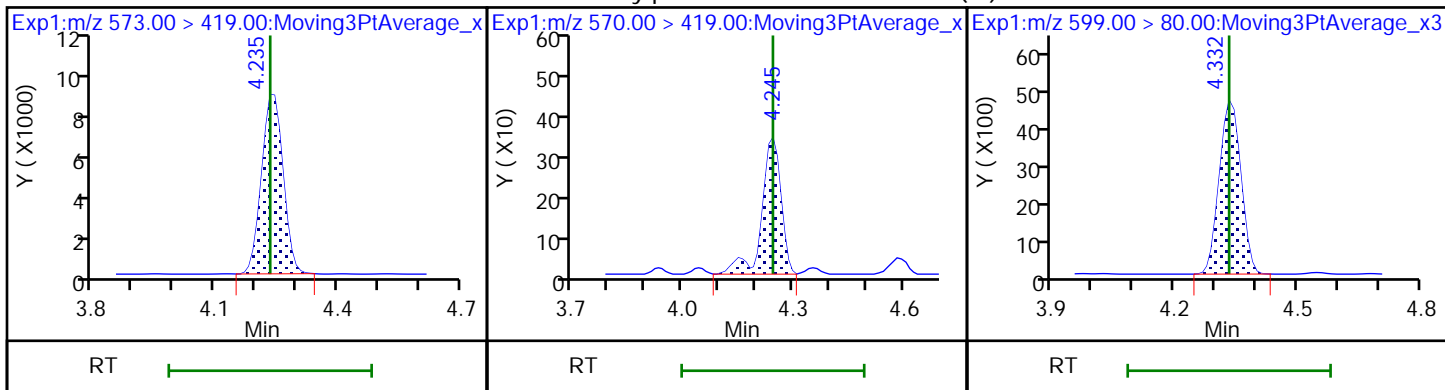






D 27 d3-NMeFOSAA

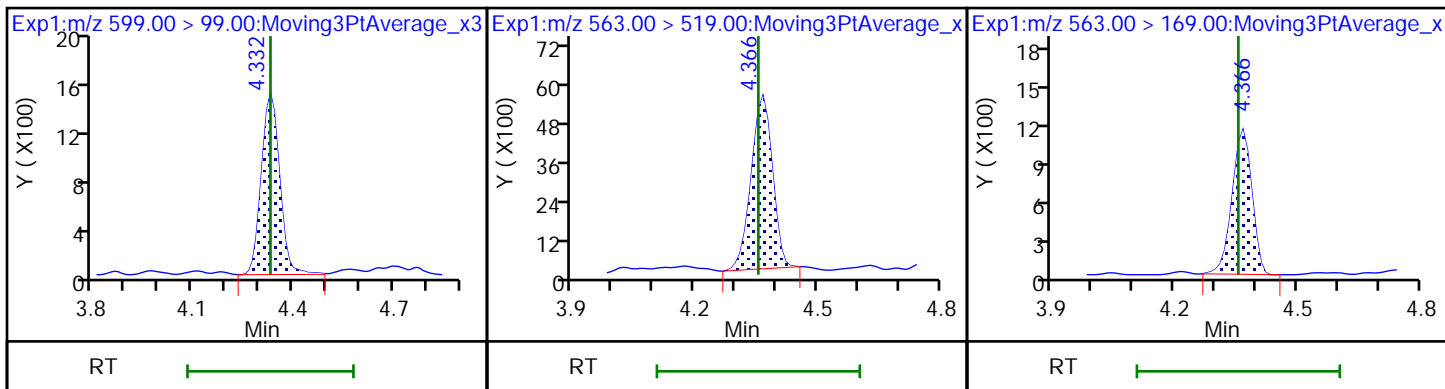
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

31 Perfluoroundecanoic acid

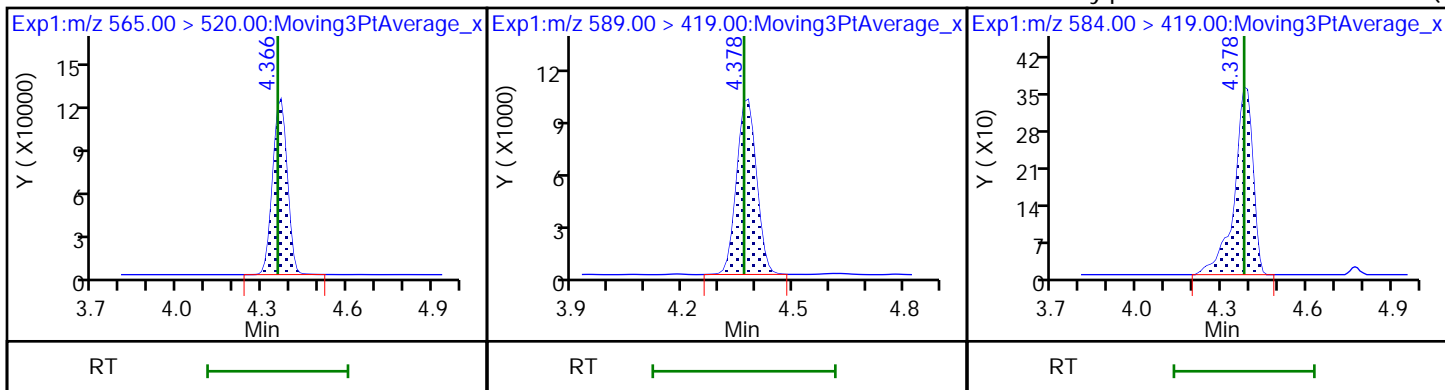
31 Perfluoroundecanoic acid



D 30 13C2 PFUnA

D 32 d5-NEtFOSAA

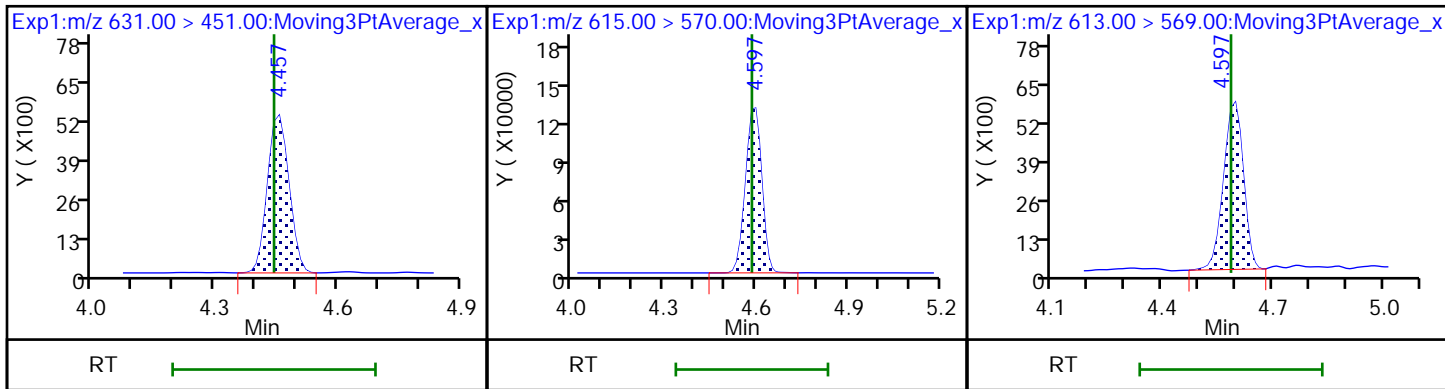
33 N-ethylperfluorooctanesulfonamid (M)

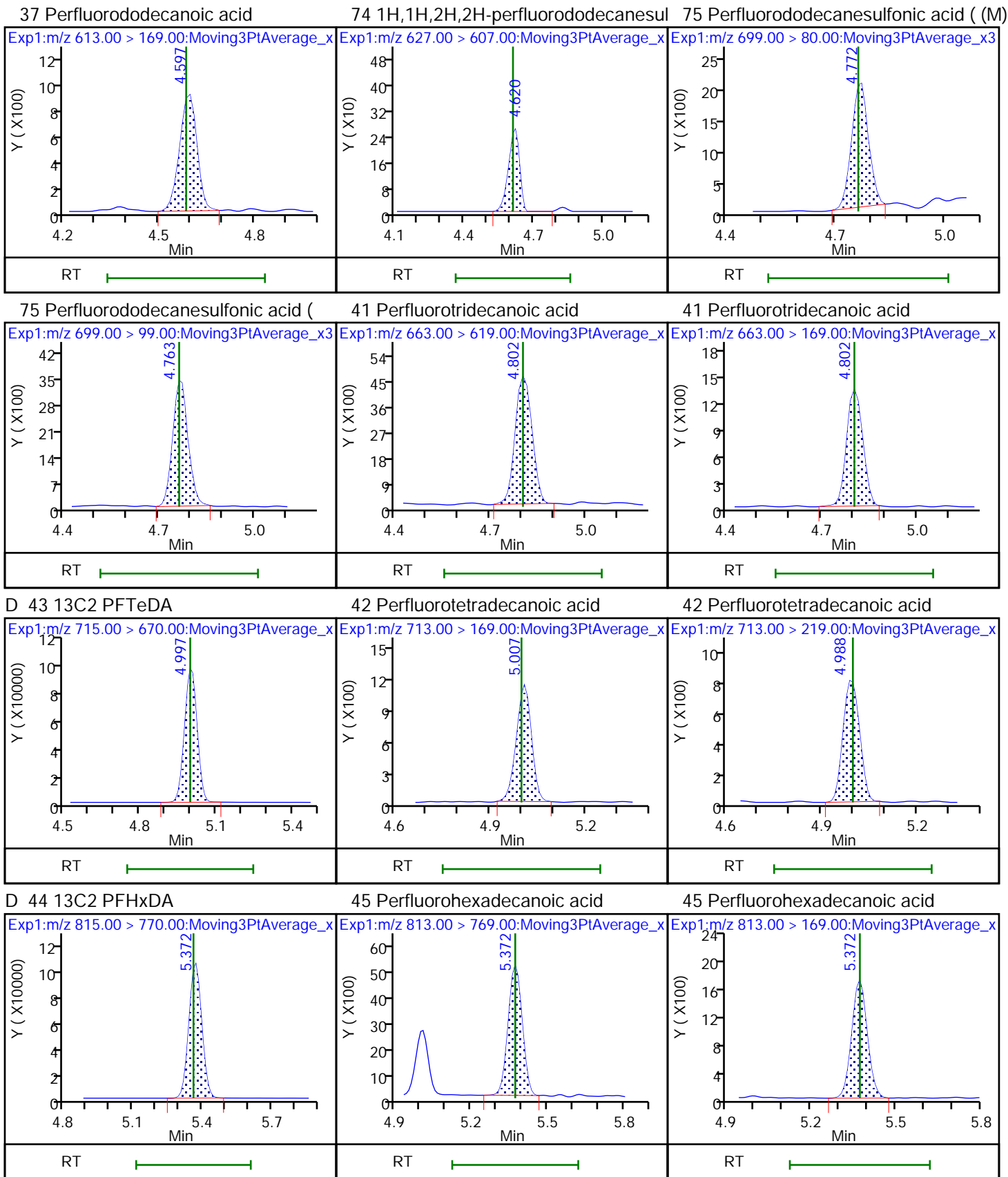


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDaA

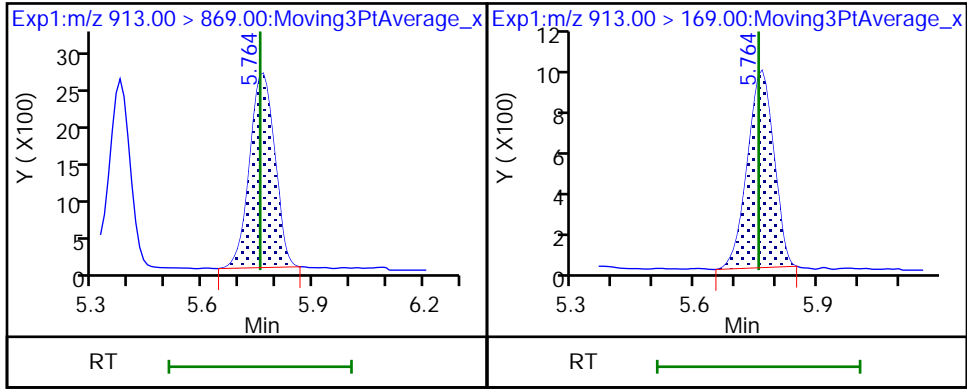
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

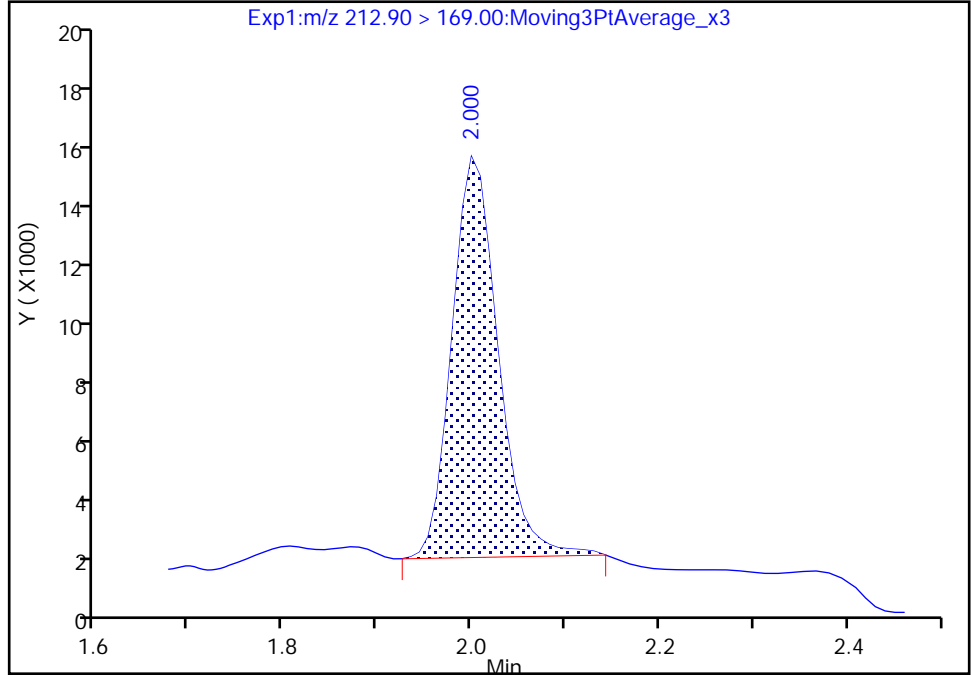
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

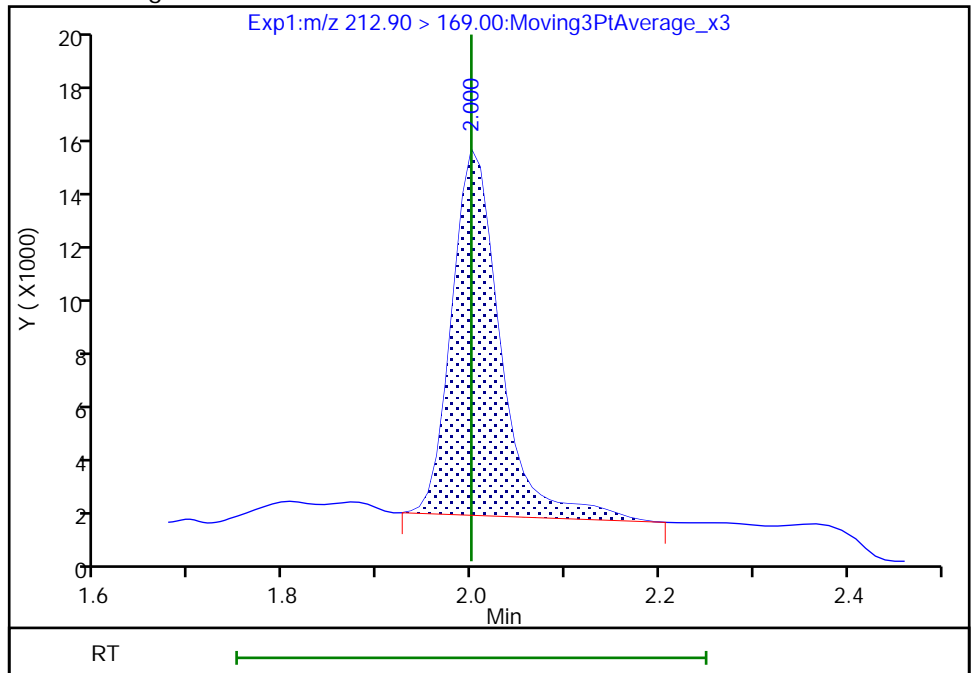
RT: 2.00  
Area: 46383  
Amount: 0.061387  
Amount Units: ng/ml

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

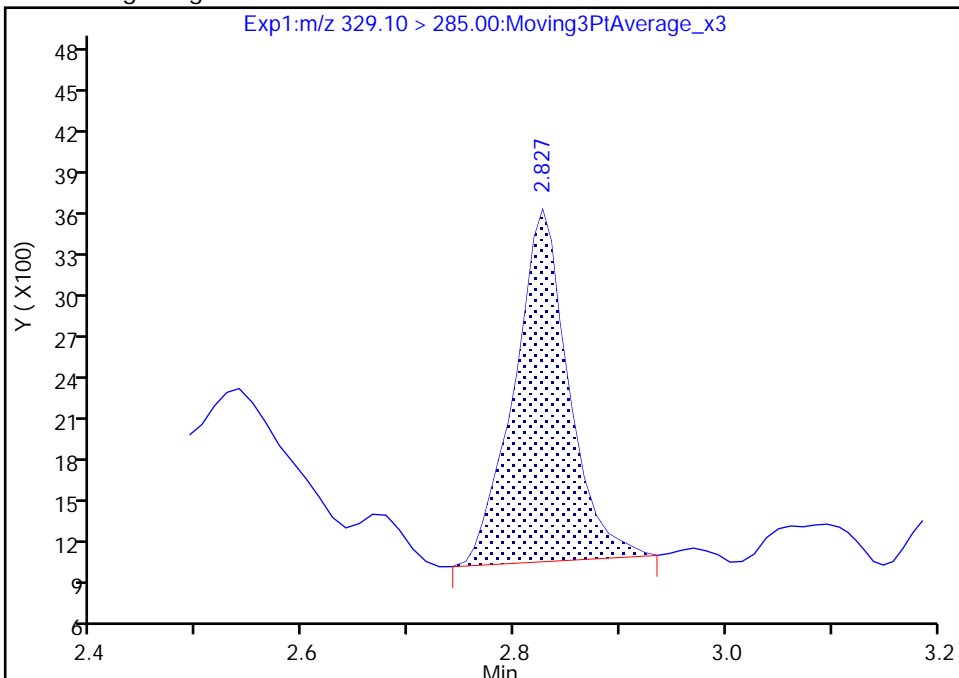
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

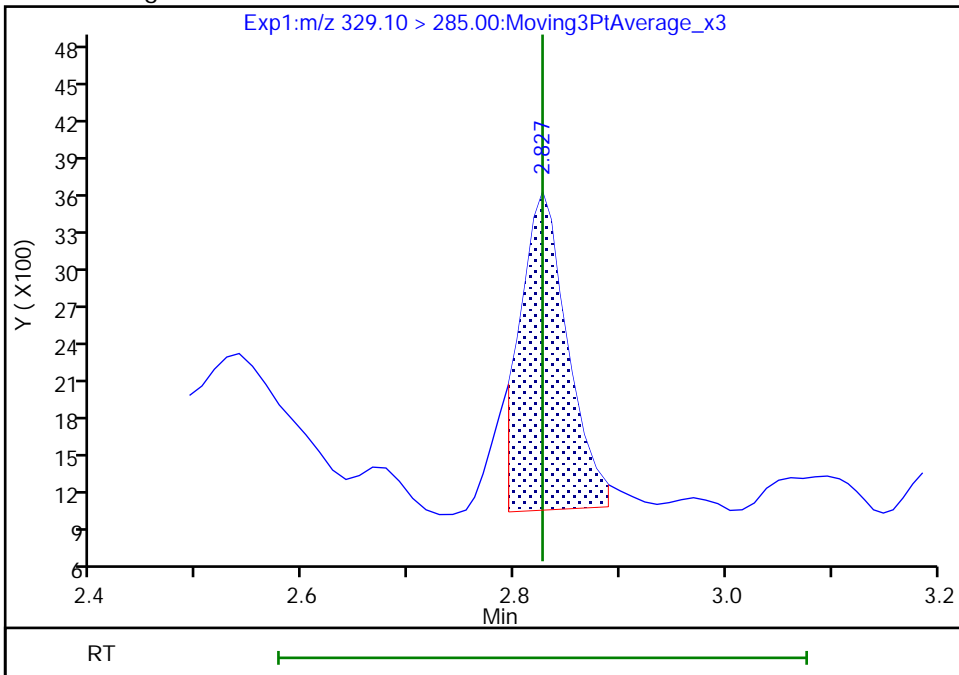
RT: 2.83  
Area: 9024  
Amount: 0.072437  
Amount Units: ng/ml

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

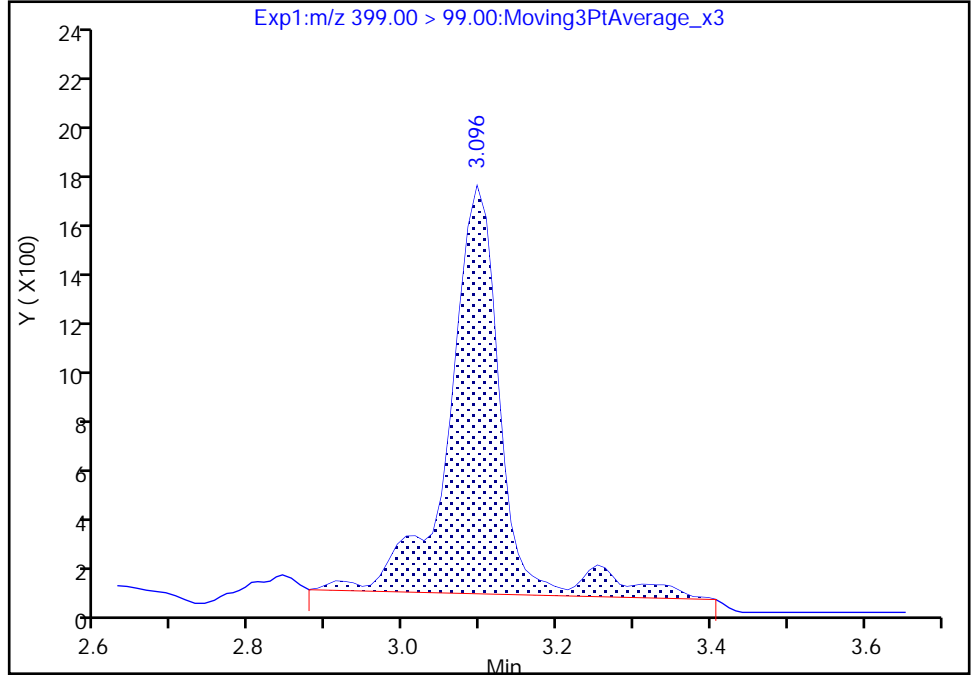
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

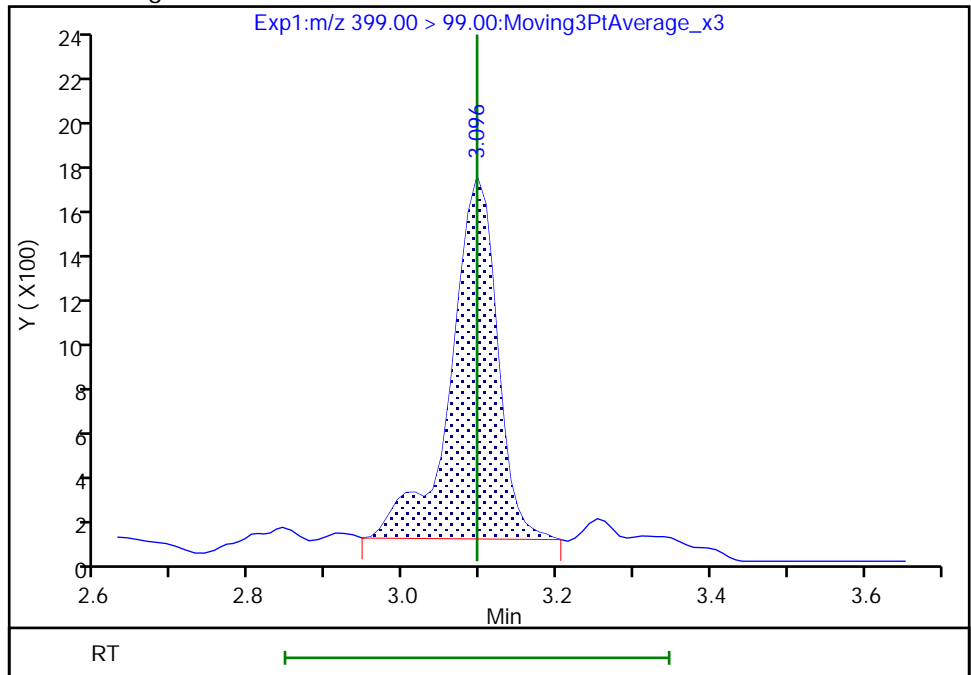
RT: 3.10  
Area: 7770  
Amount: 0.054572  
Amount Units: ng/ml

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

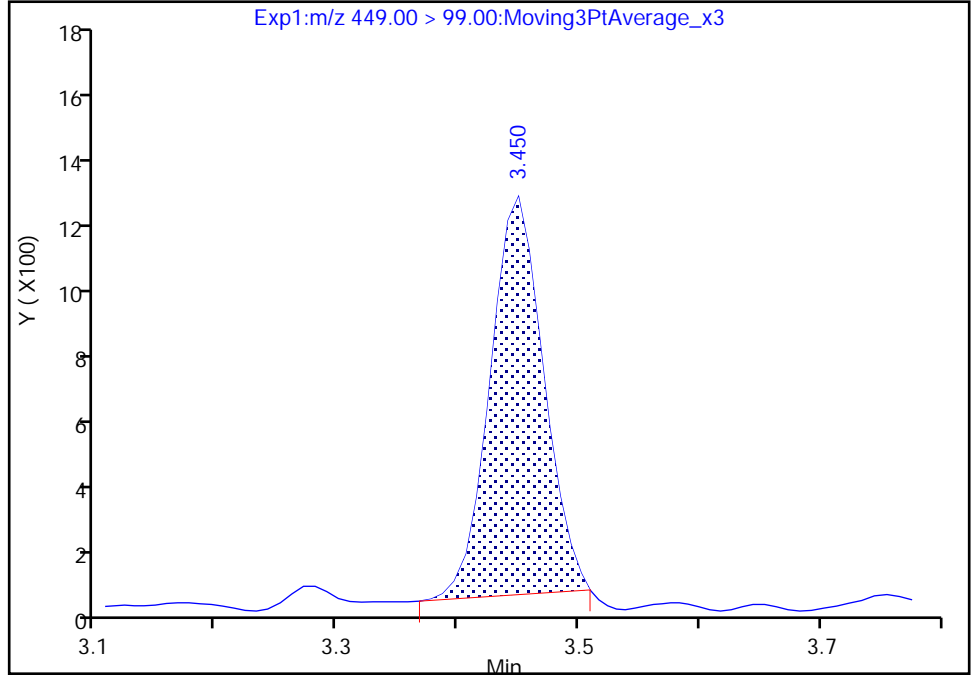
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

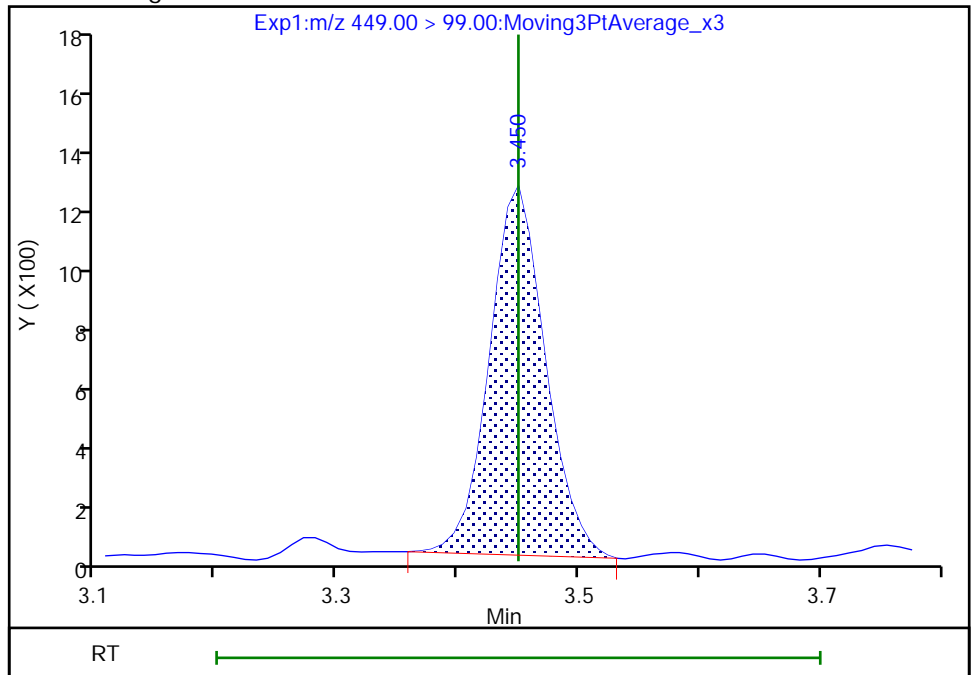
RT: 3.45  
Area: 3702  
Amount: 0.054337  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 3978  
Amount: 0.054337  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

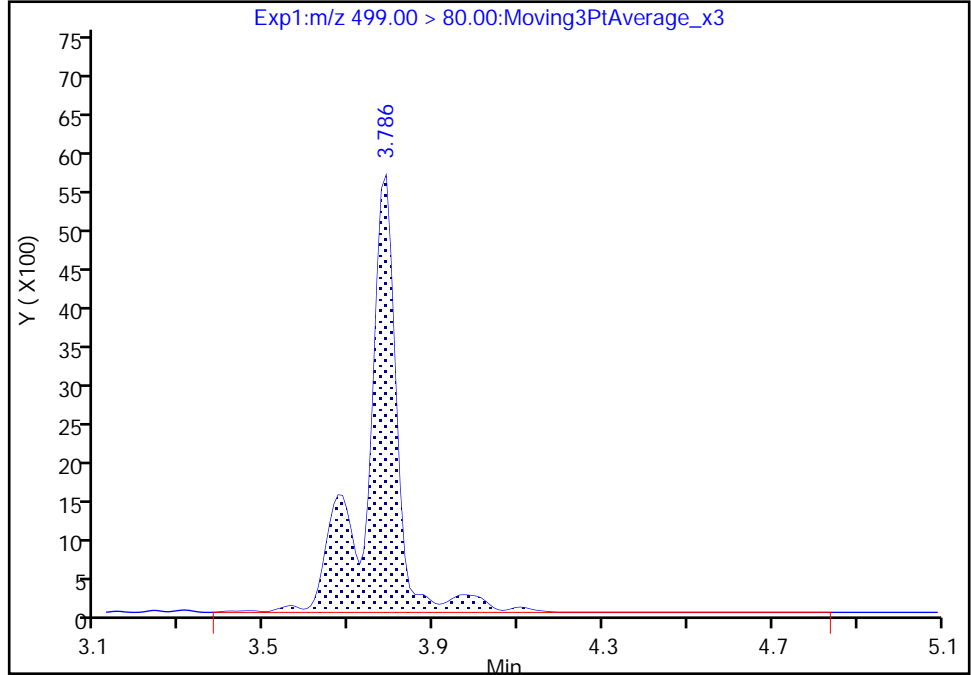
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

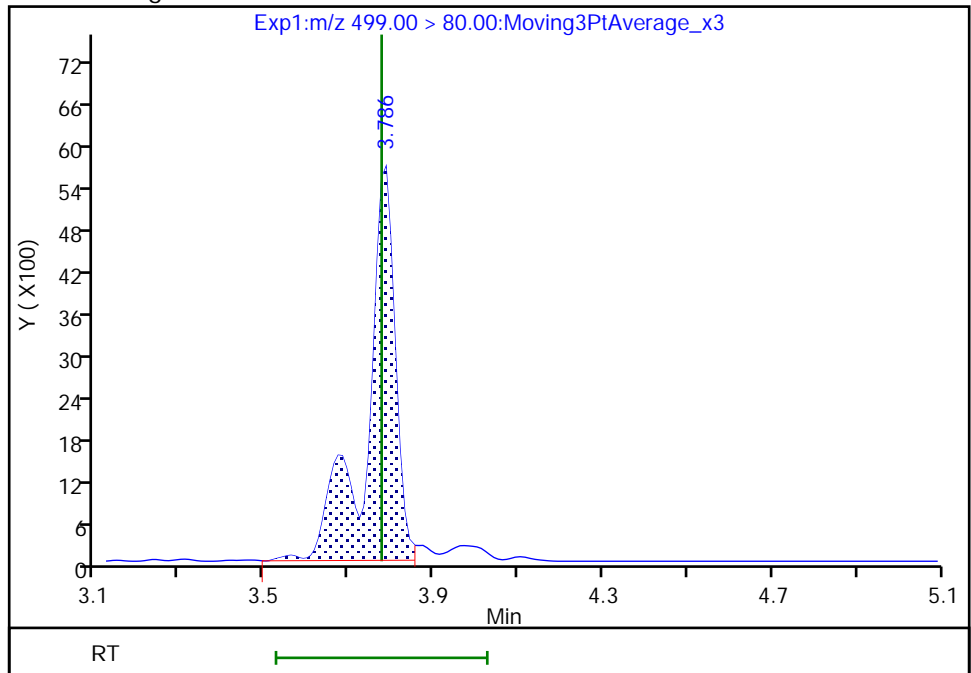
RT: 3.79  
Area: 29070  
Amount: 0.061062  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 26536  
Amount: 0.057748  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

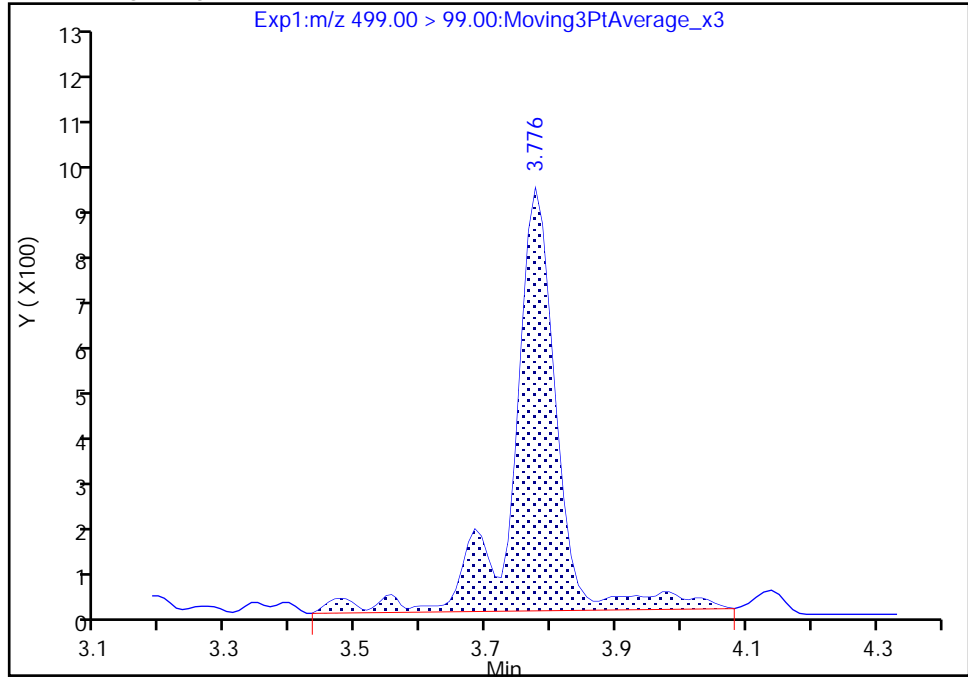
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

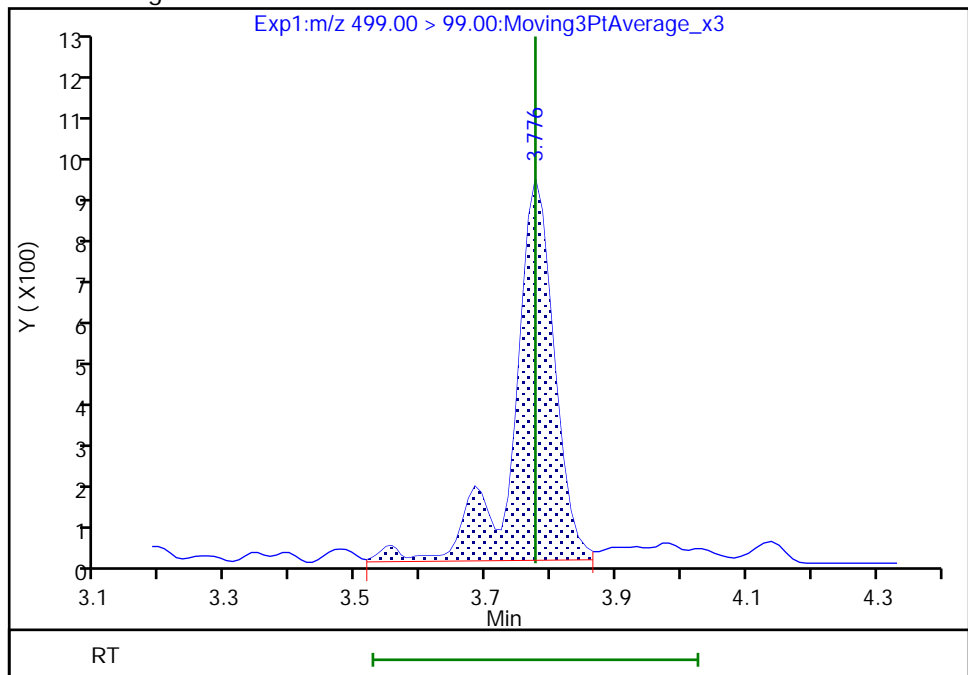
RT: 3.78  
Area: 4261  
Amount: 0.061062  
Amount Units: ng/ml

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

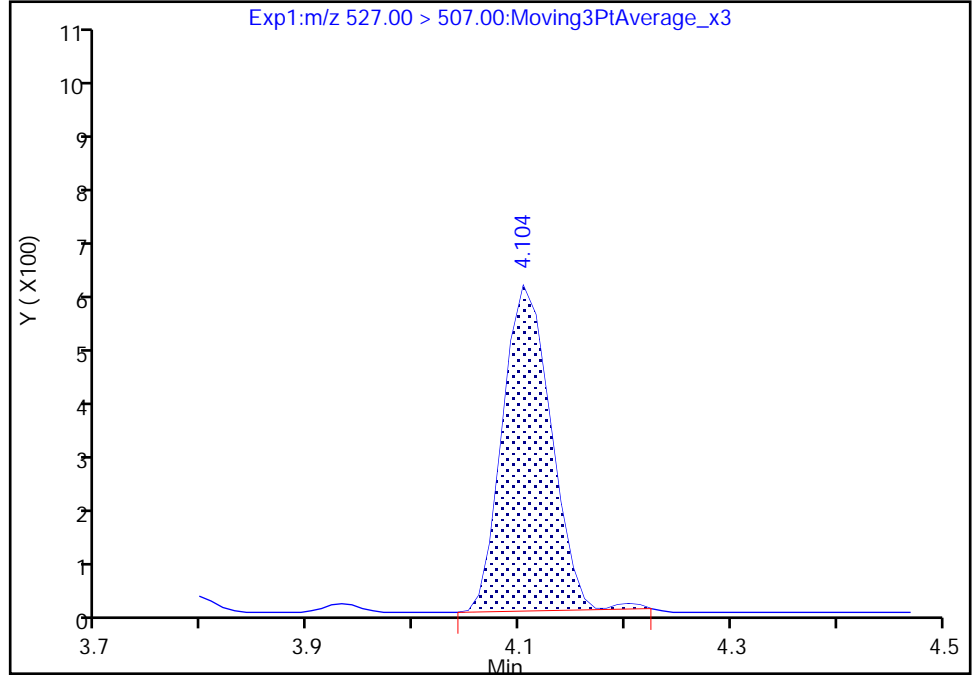
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

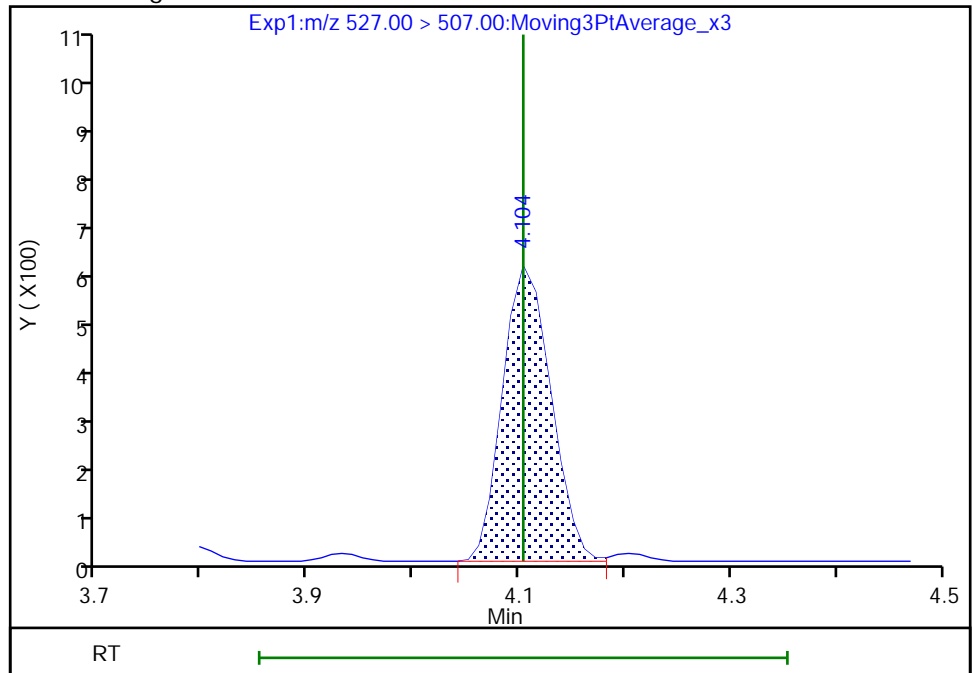
RT: 4.10  
Area: 1909  
Amount: 0.055807  
Amount Units: ng/ml

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

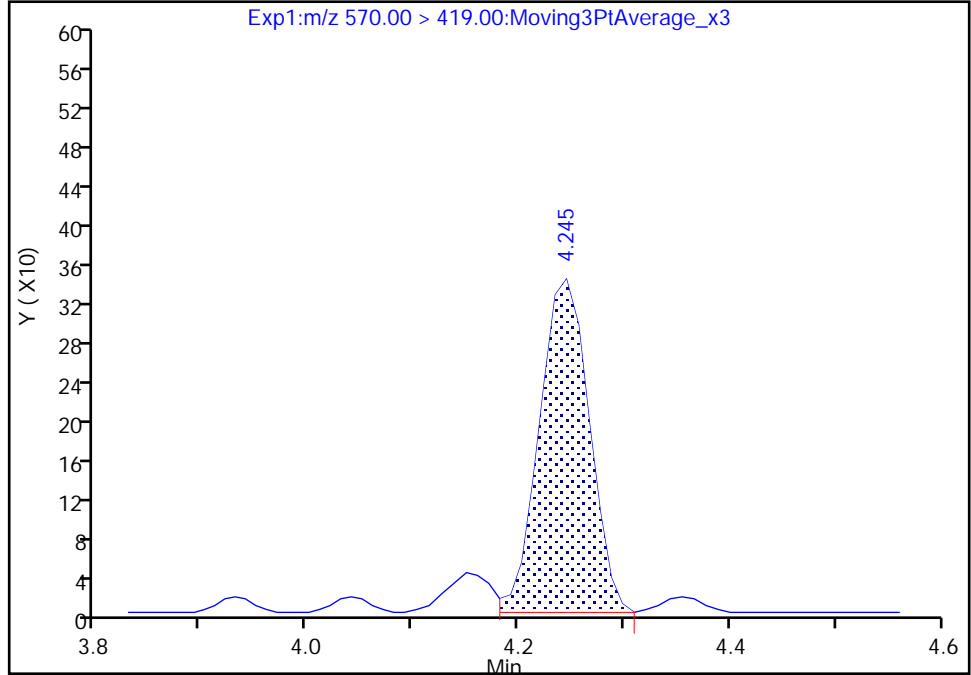
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

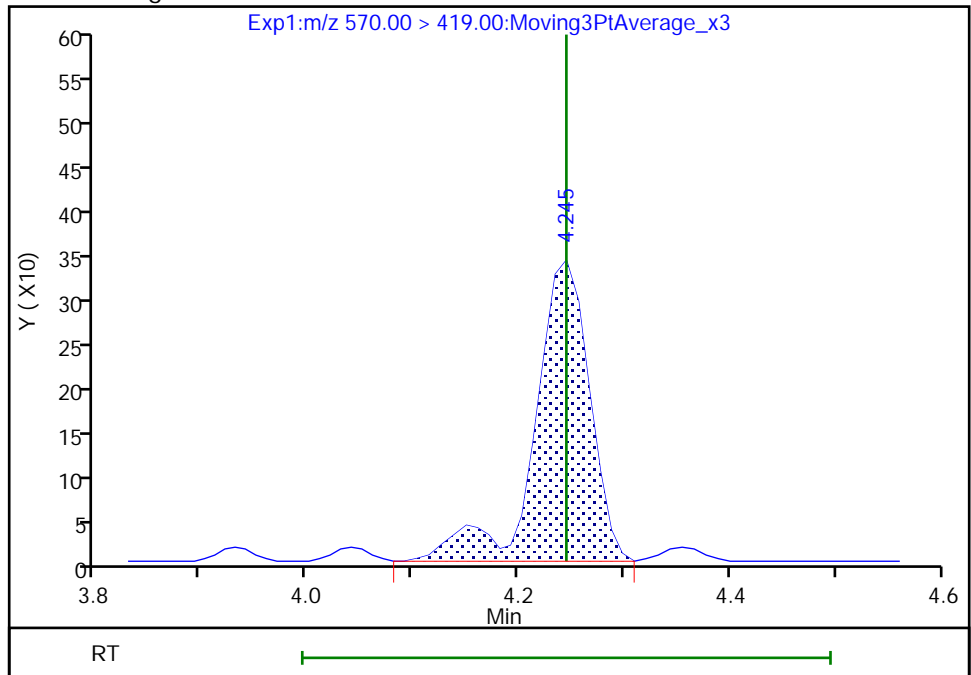
RT: 4.25  
Area: 1121  
Amount: 0.049832  
Amount Units: ng/ml

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

Euofins TestAmerica, Burlington

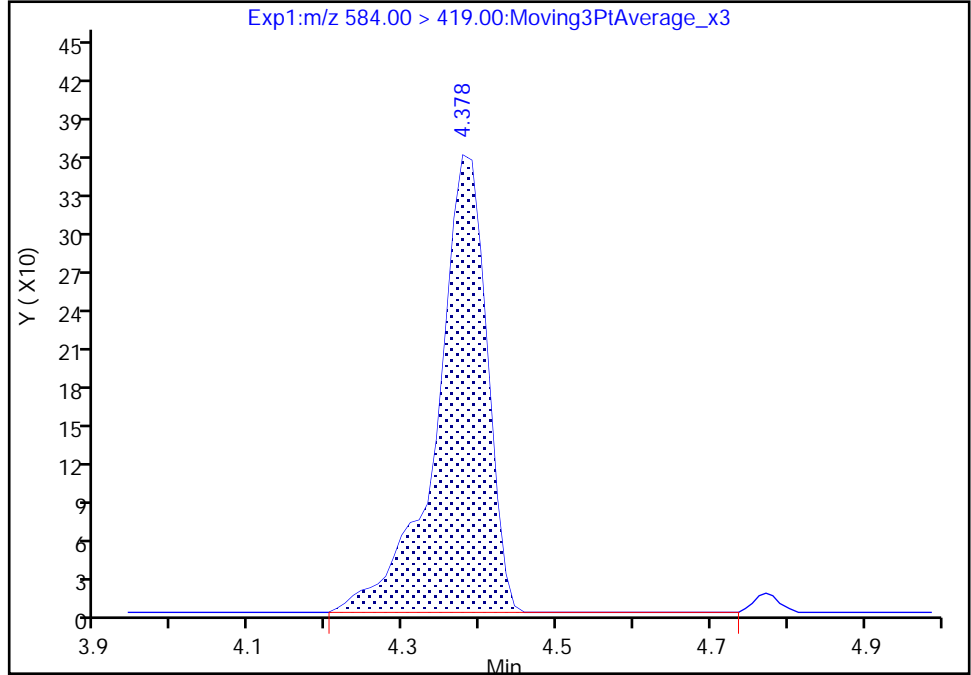
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

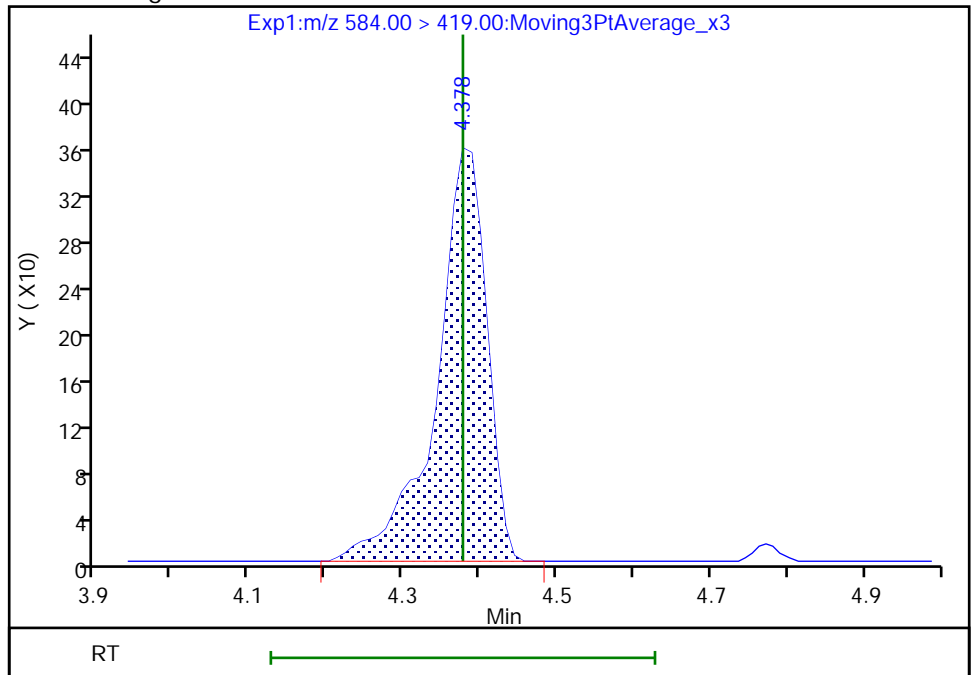
RT: 4.38  
Area: 1619  
Amount: 0.057422  
Amount Units: ng/ml

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

Euofins TestAmerica, Burlington

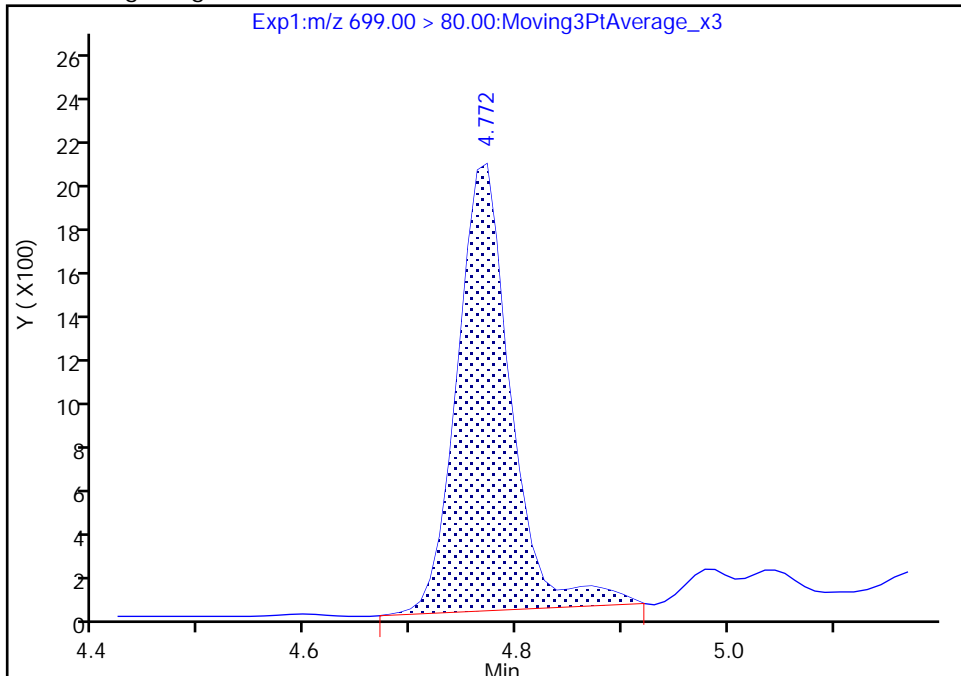
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL05.d  
Injection Date: 22-Sep-2020 19:30:30 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

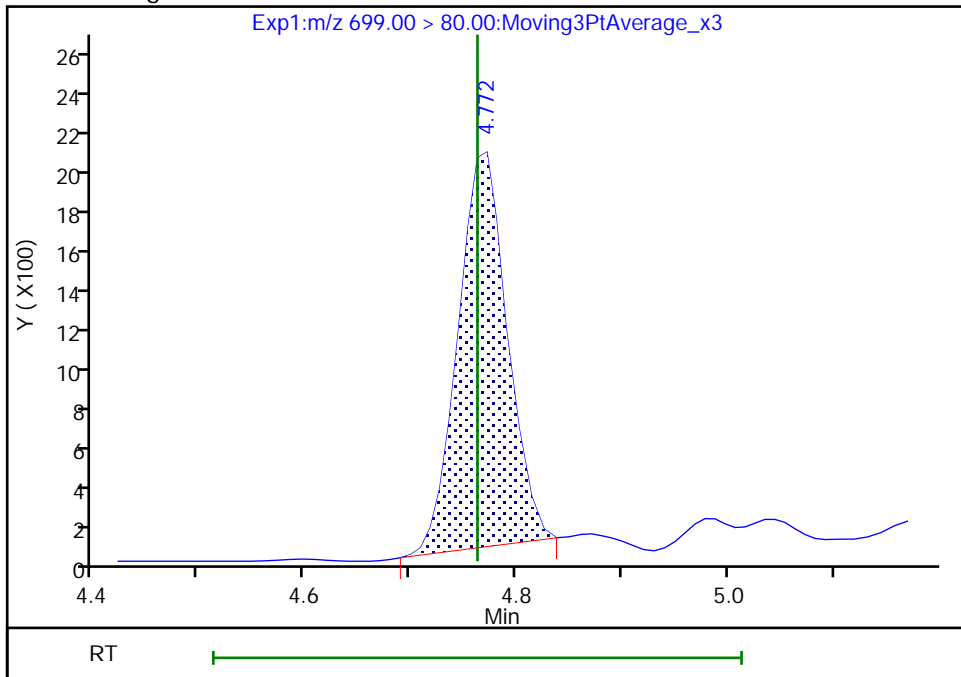
RT: 4.77  
Area: 7187  
Amount: 0.071876  
Amount Units: ng/ml

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	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 PFDoA										
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	

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 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

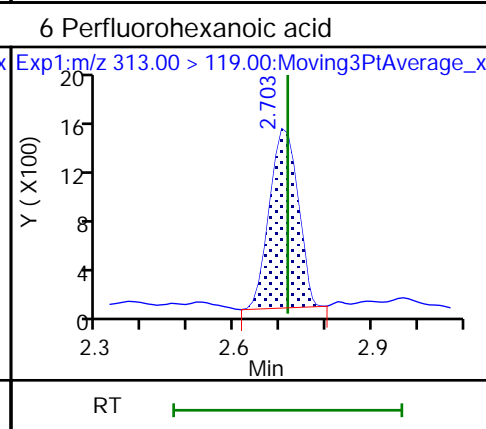
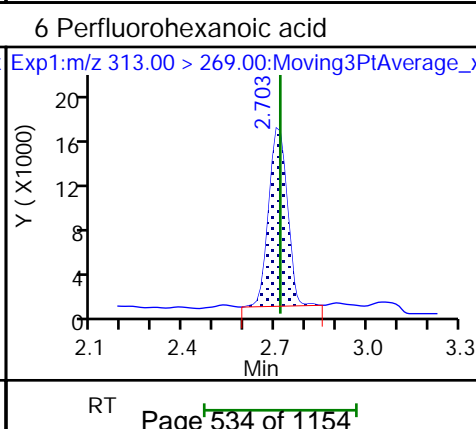
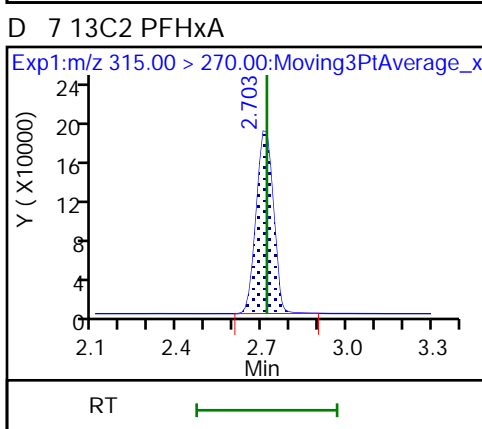
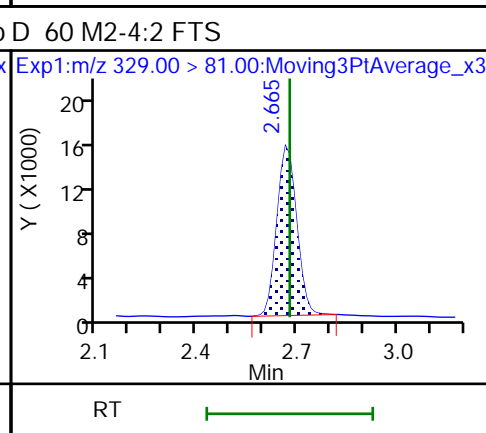
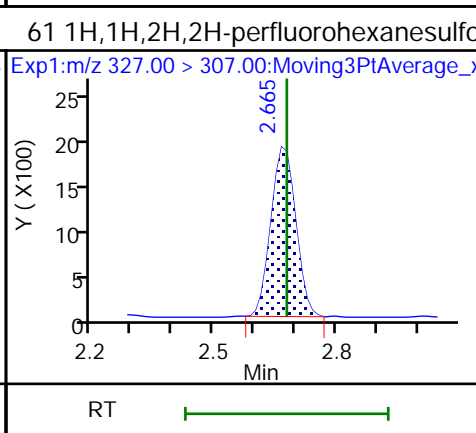
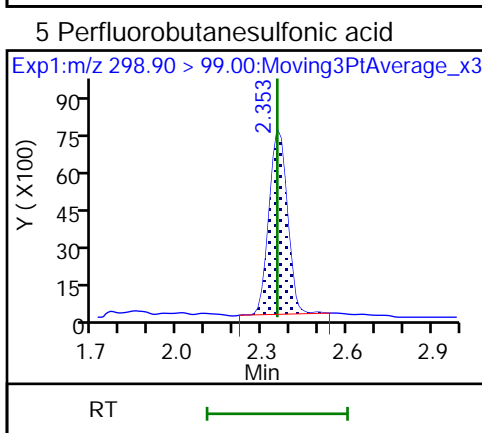
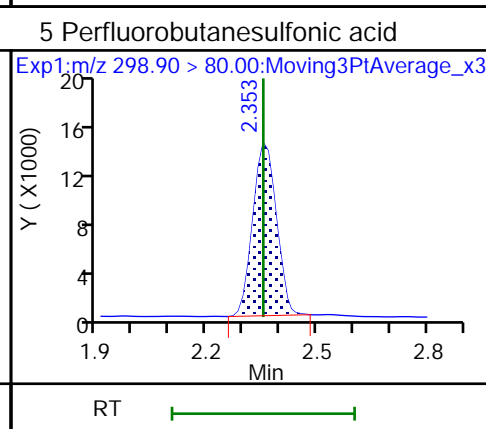
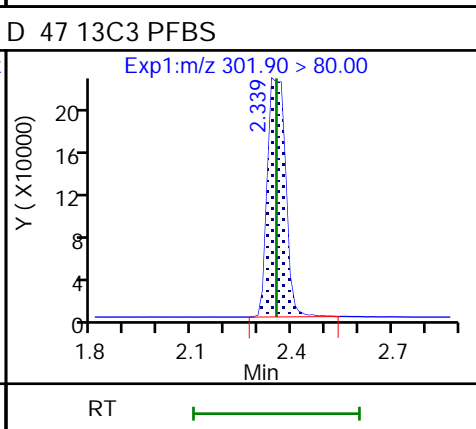
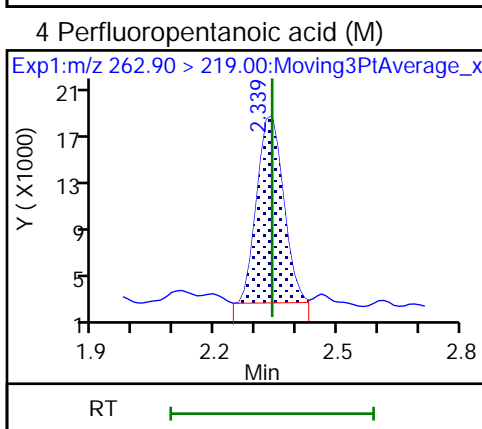
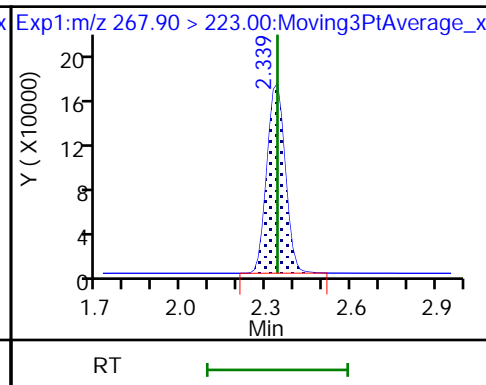
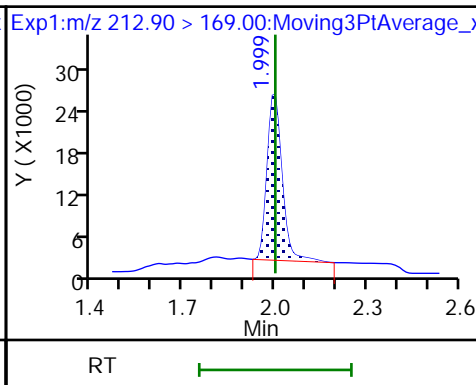
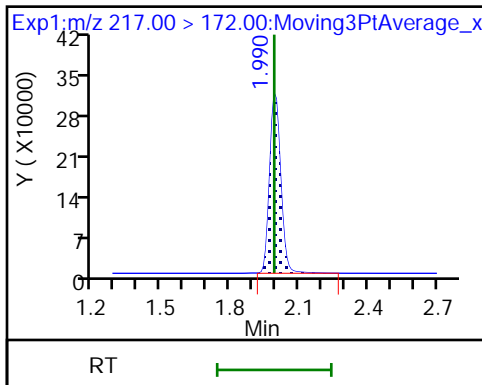
Method: PFC\_LC812

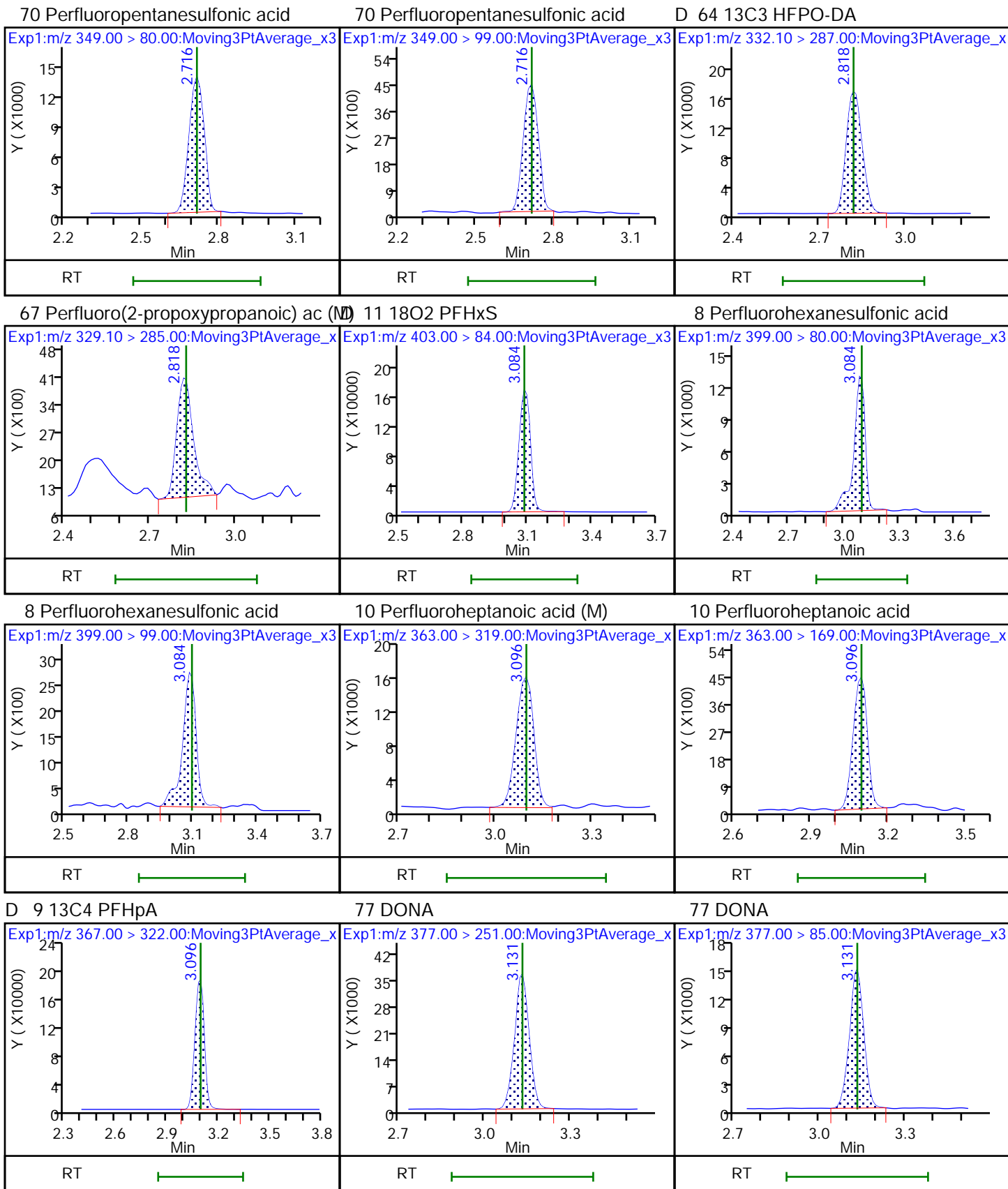
Limit Group: LC\_PFC\_ICAL

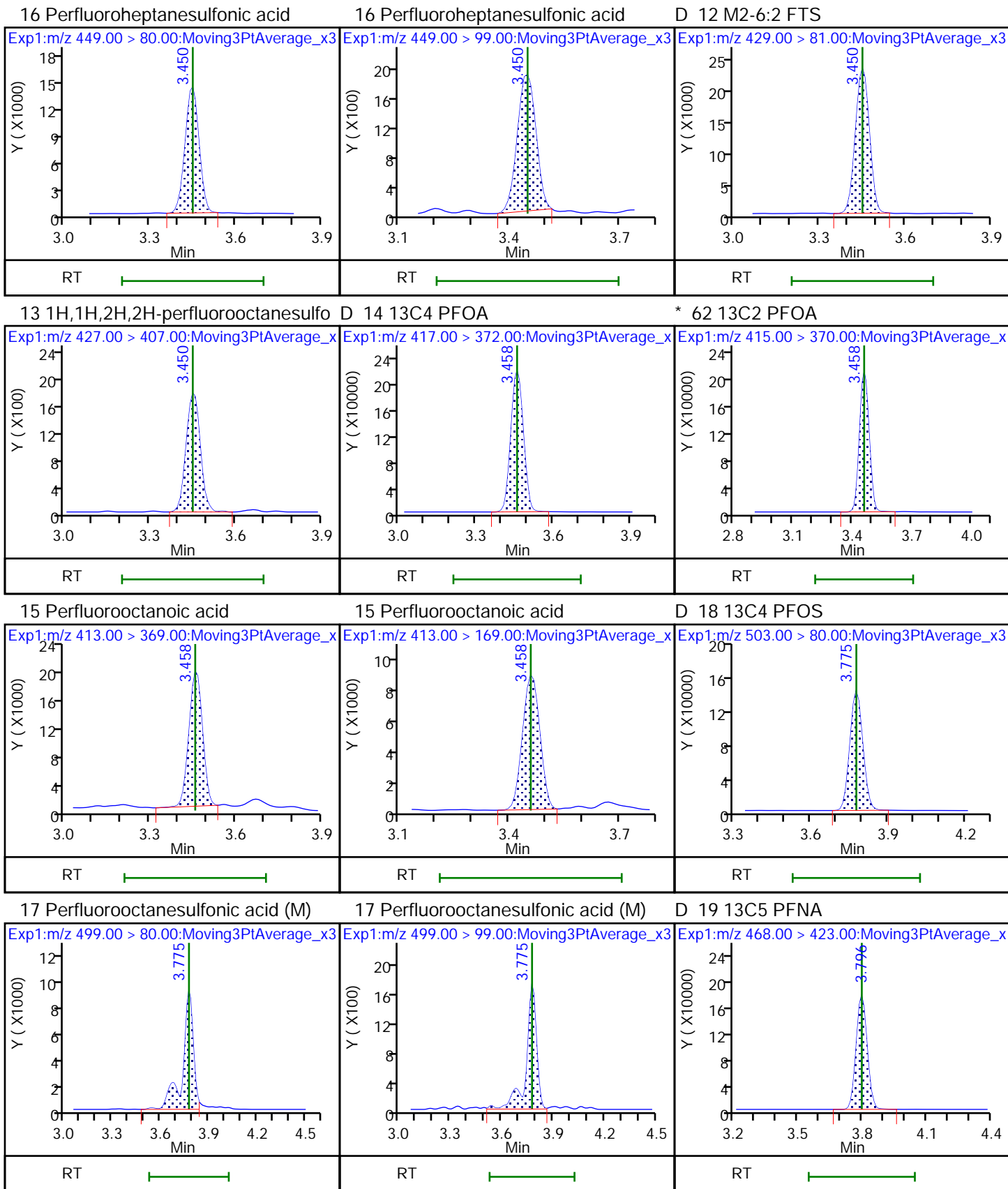
D 1 13C4 PFBA

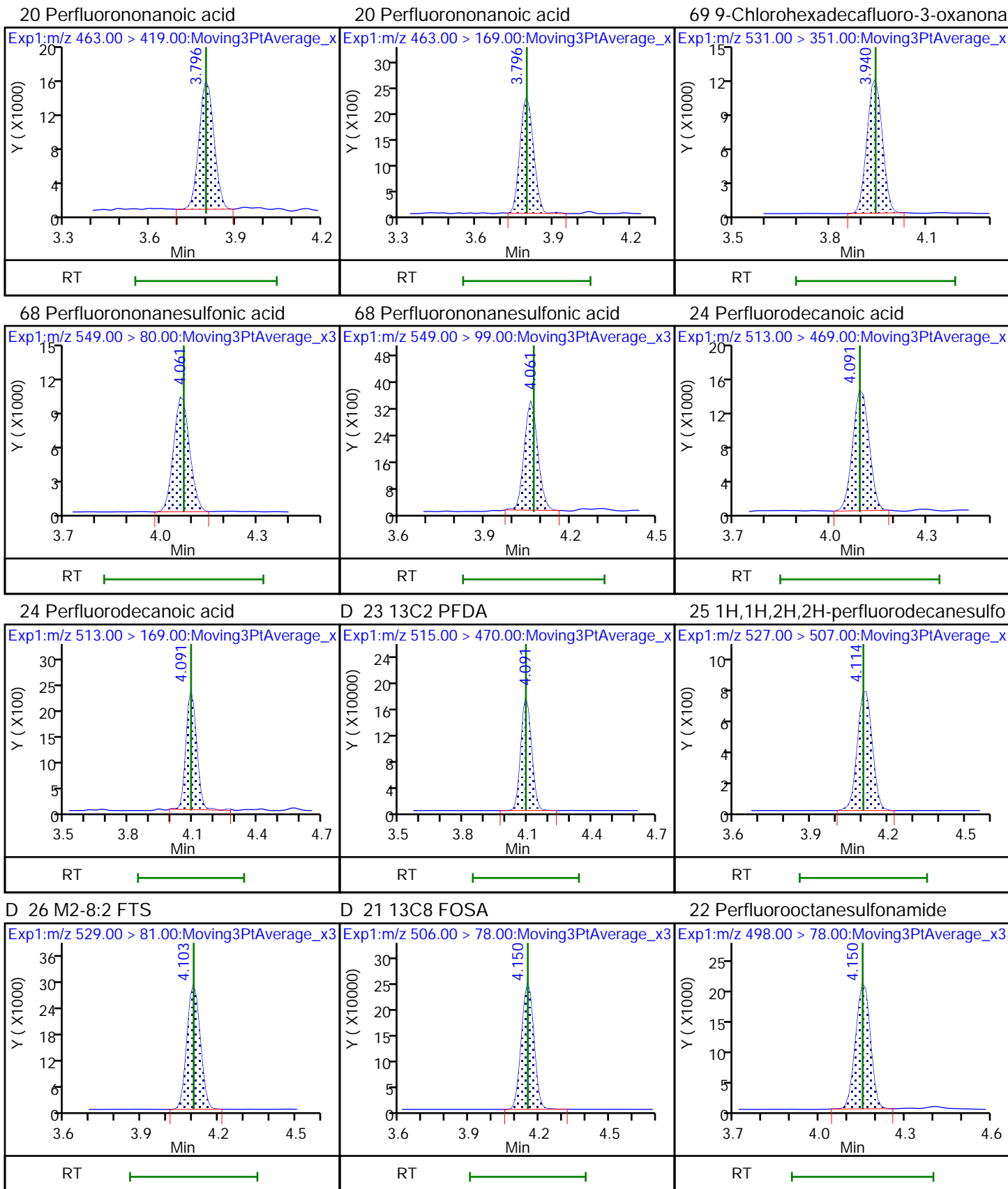
2 Perfluorobutanoic acid

D 3 13C5 PFPeA



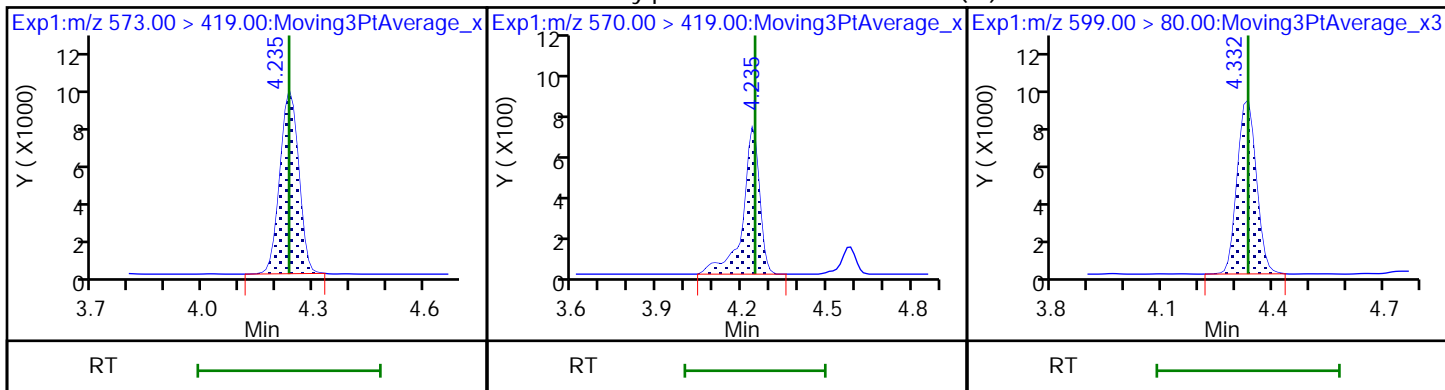






D 27 d3-NMeFOSAA

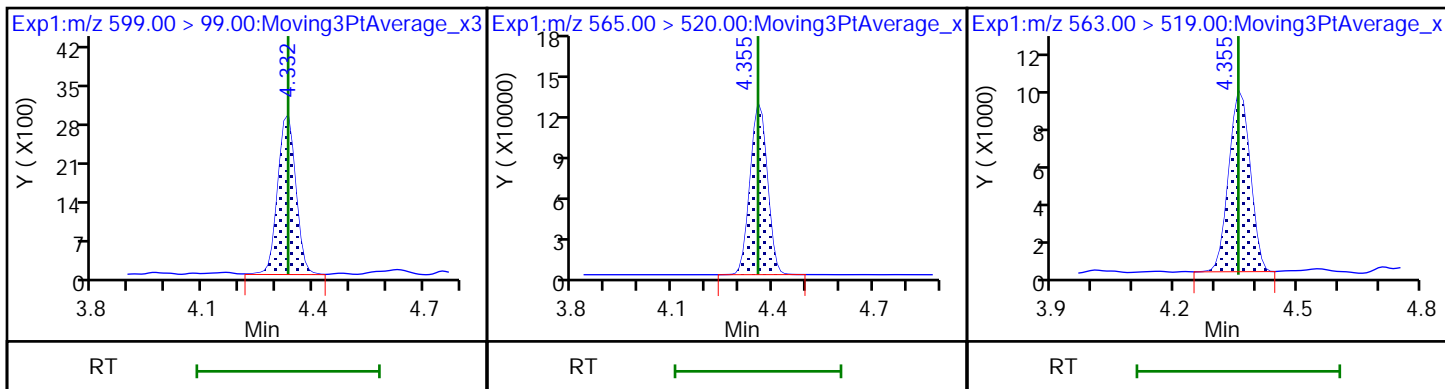
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

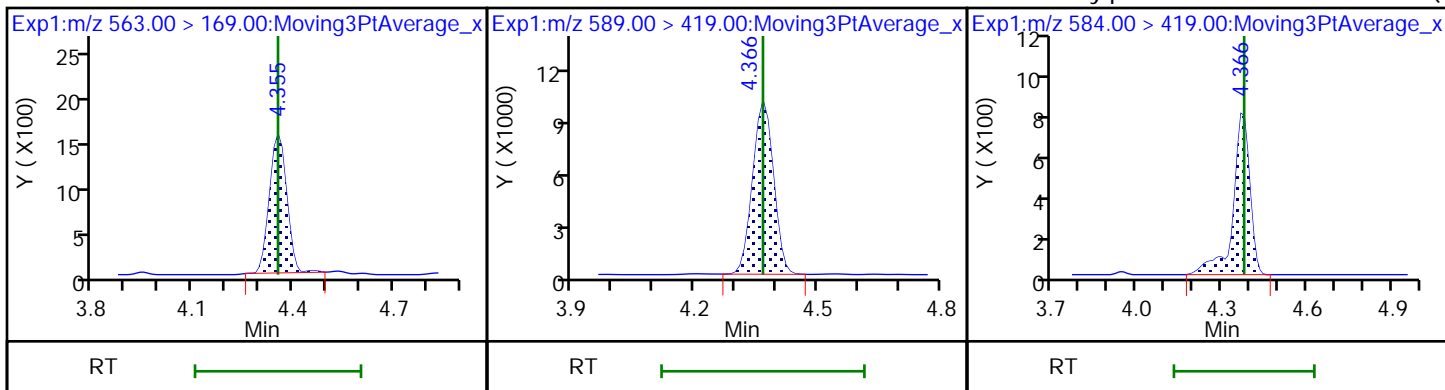
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

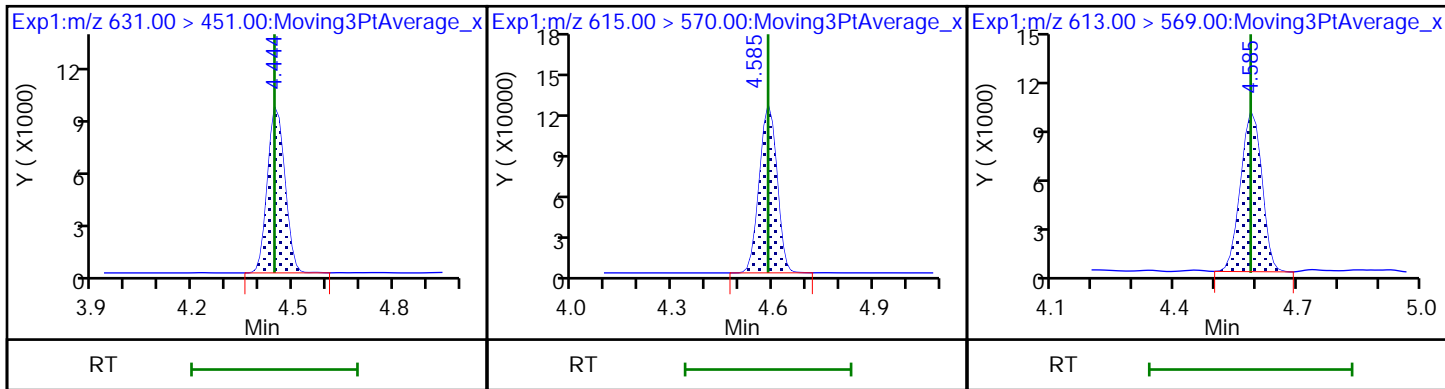
33 N-ethylperfluorooctanesulfonamid (M)

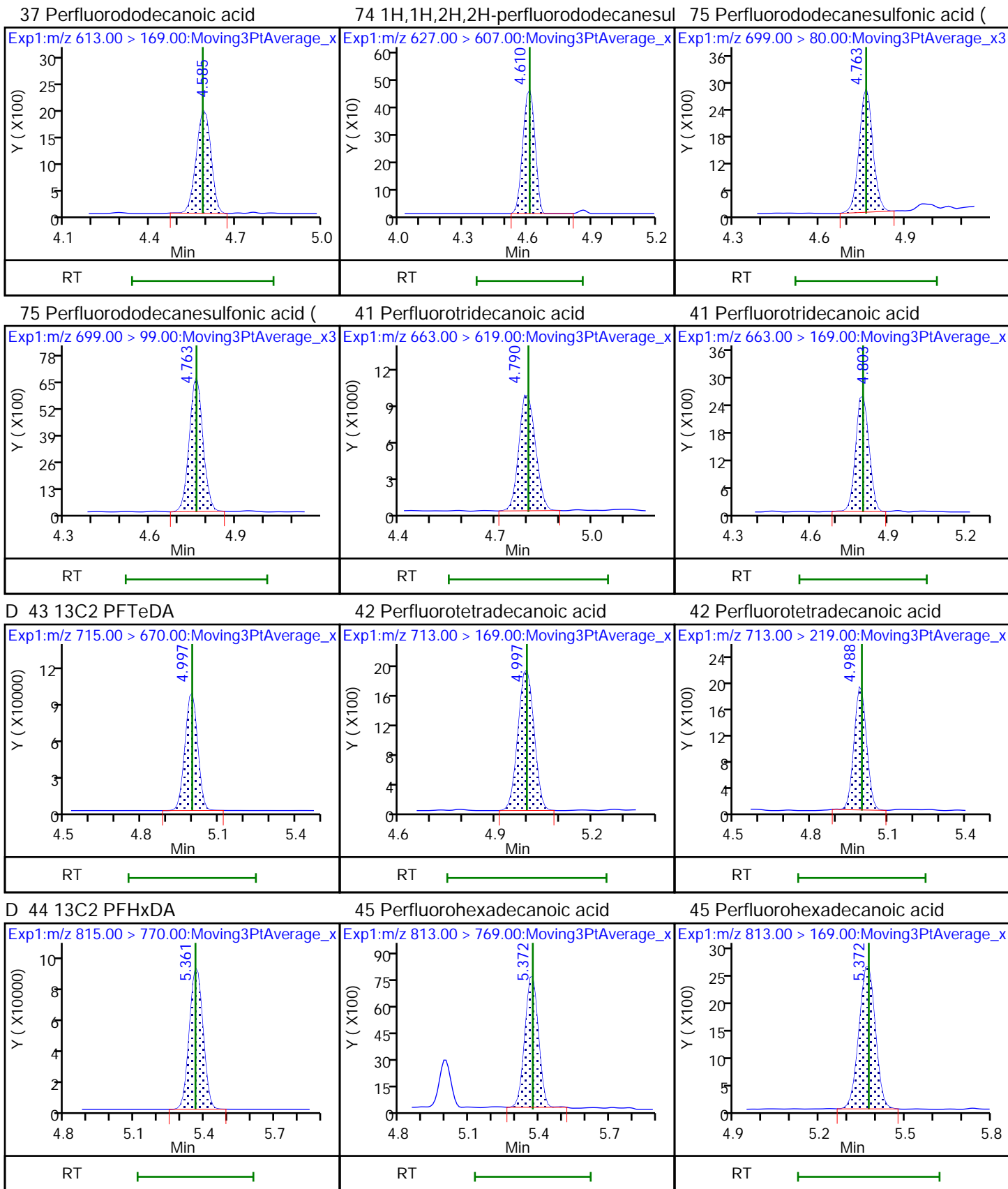


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

37 Perfluorododecanoic acid

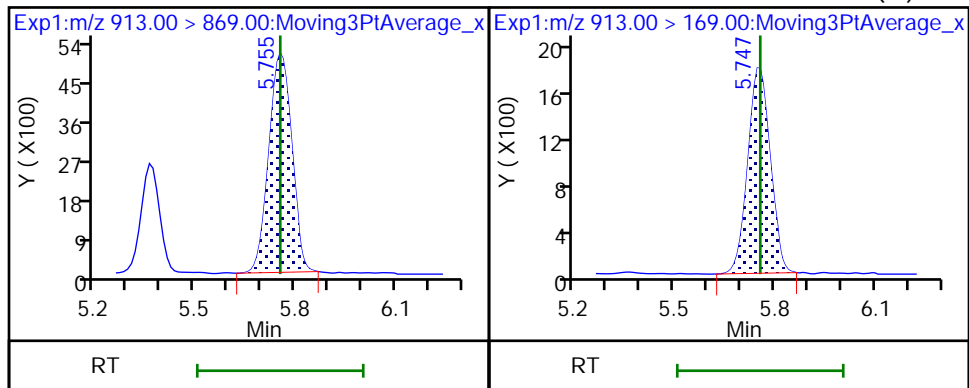






46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

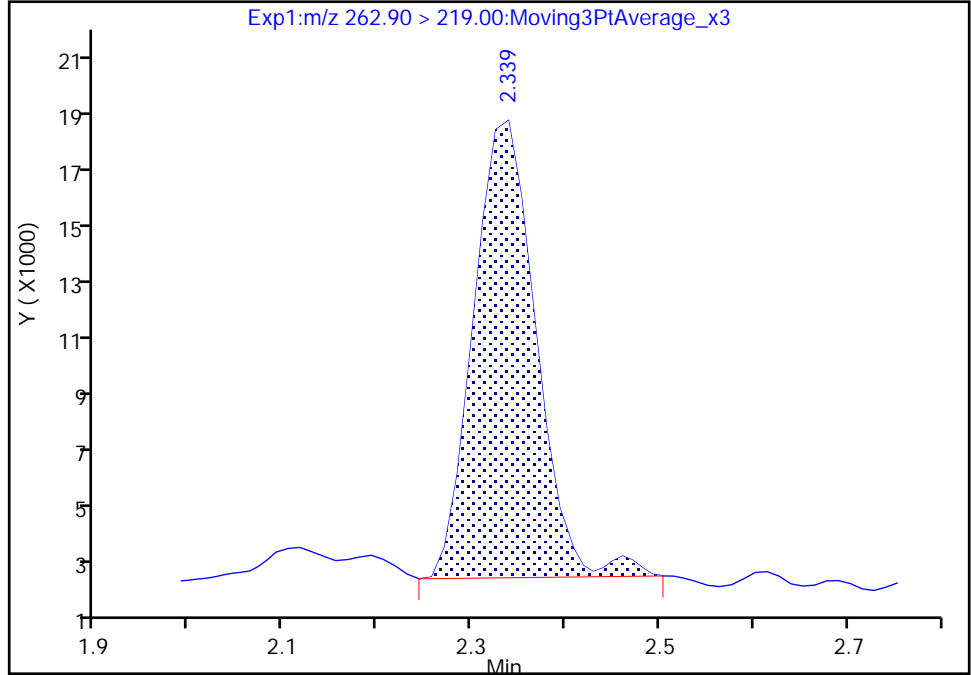
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d  
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

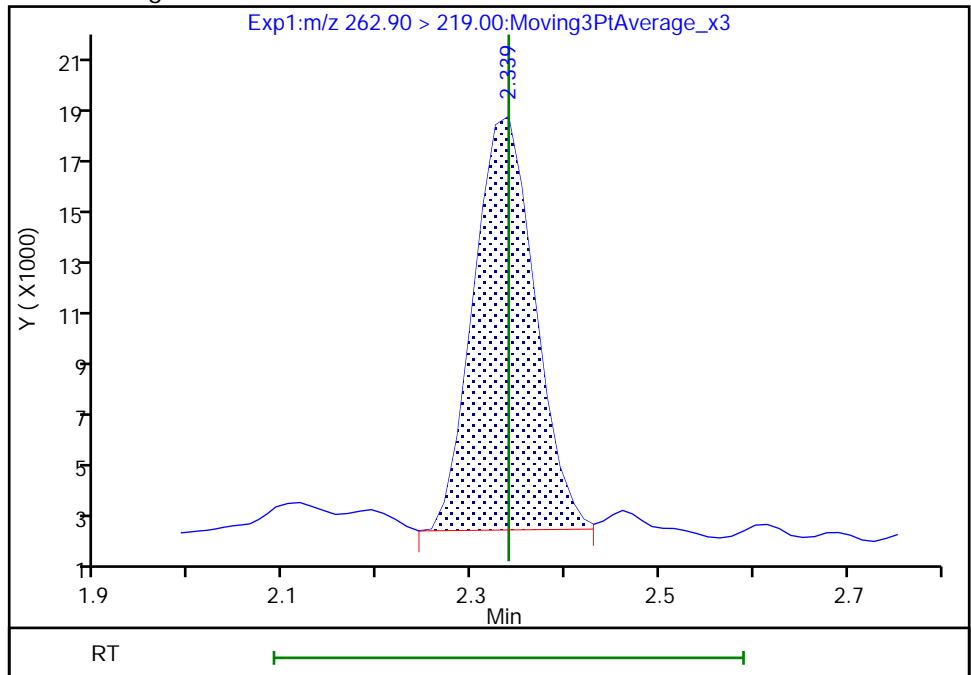
RT: 2.34  
Area: 70137  
Amount: 0.109677  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 68603  
Amount: 0.107709  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

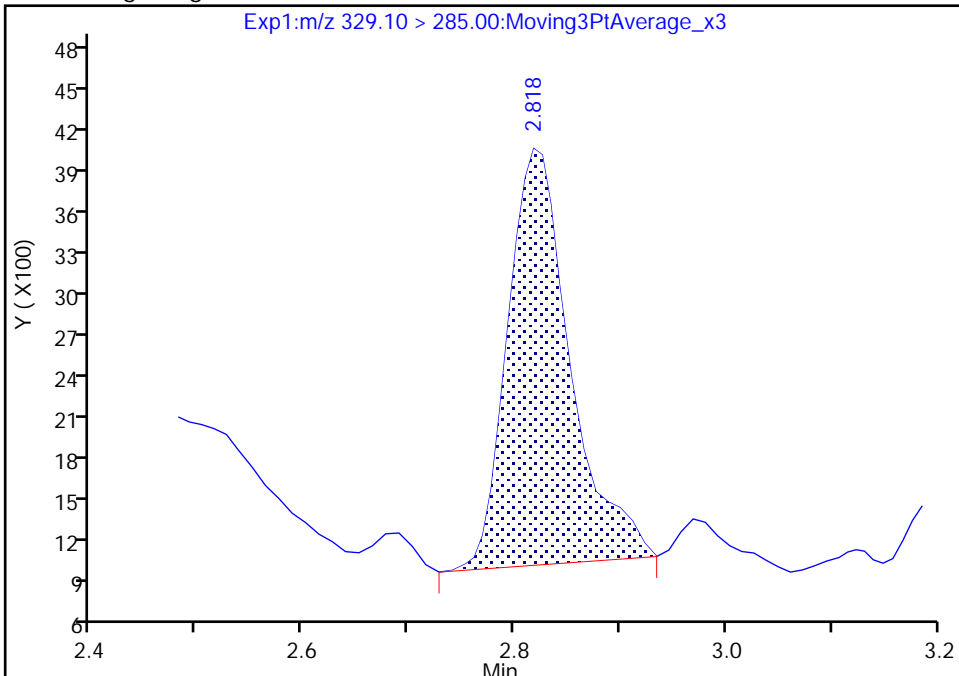
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d  
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

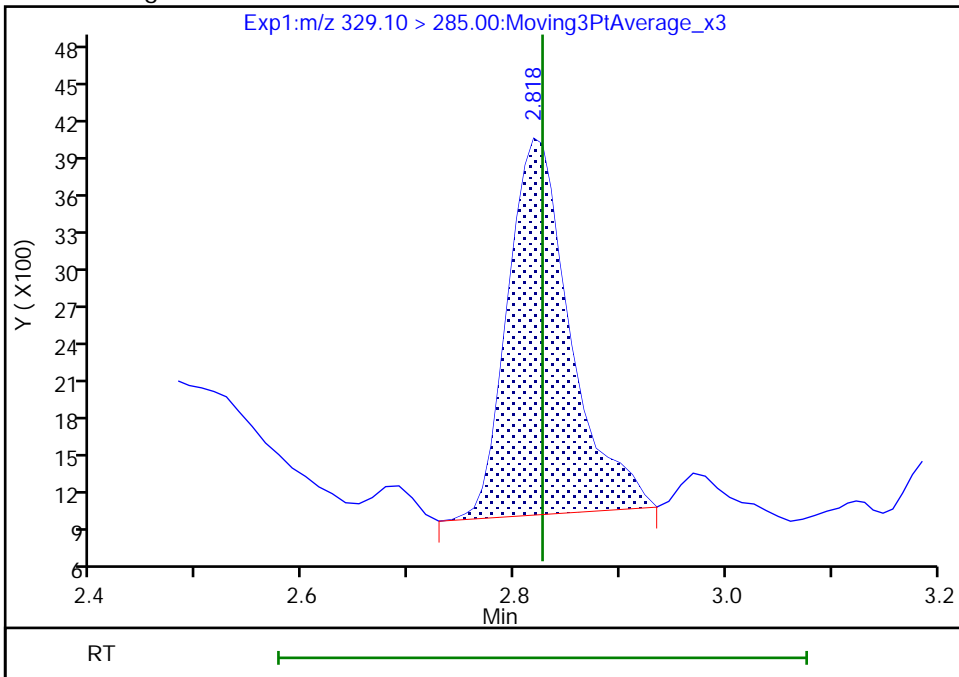
RT: 2.82  
Area: 12283  
Amount: 0.115225  
Amount Units: ng/ml

Processing Integration Results



RT: 2.82  
Area: 12283  
Amount: 0.115119  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

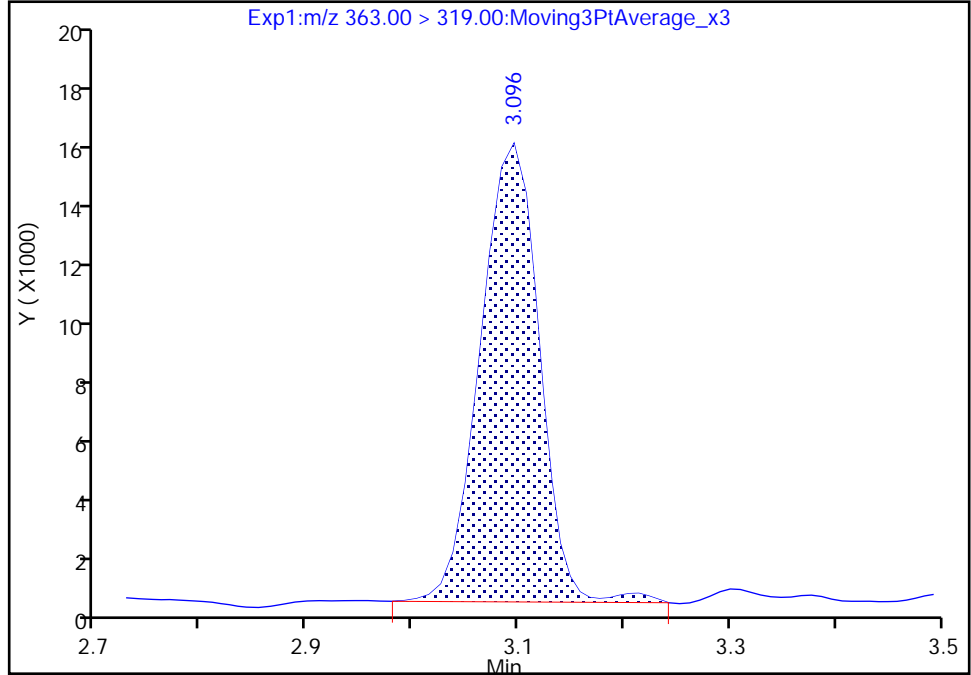
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d  
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

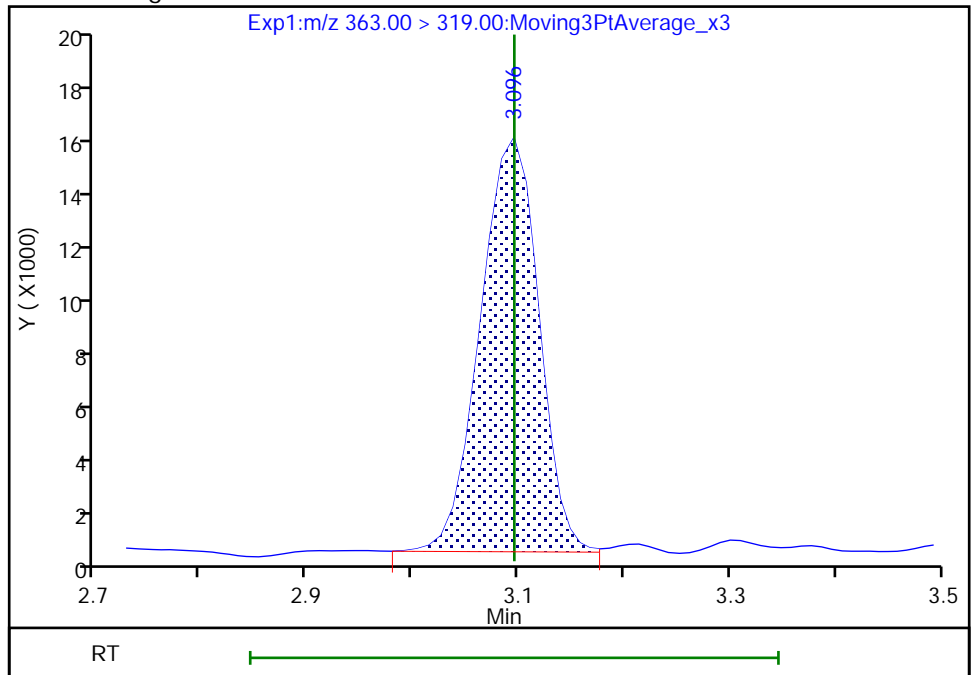
RT: 3.10  
Area: 59358  
Amount: 0.105269  
Amount Units: ng/ml

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

Euofins TestAmerica, Burlington

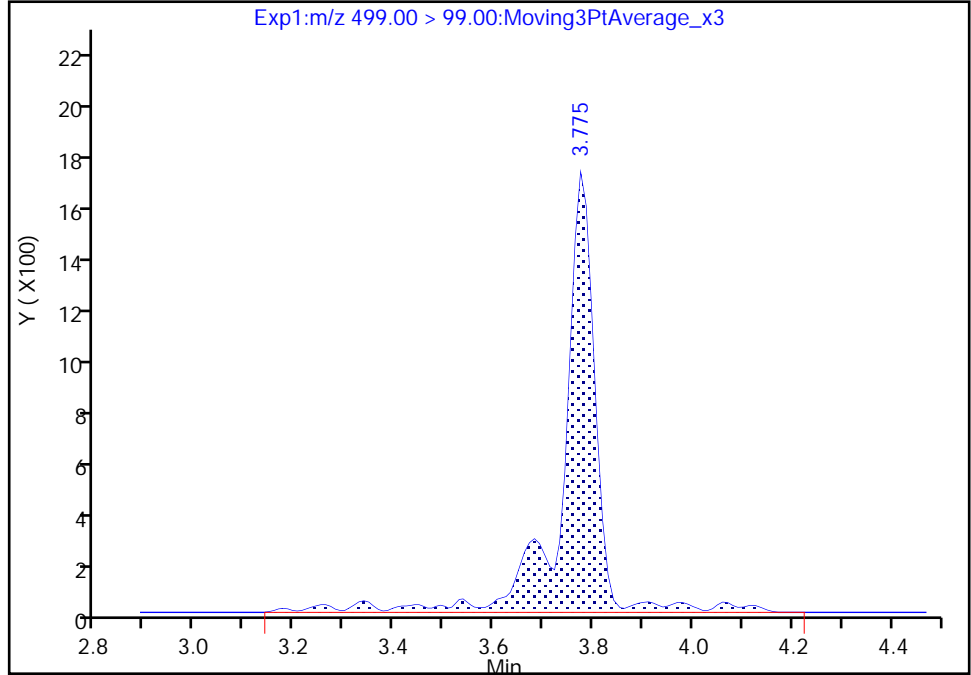
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d  
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

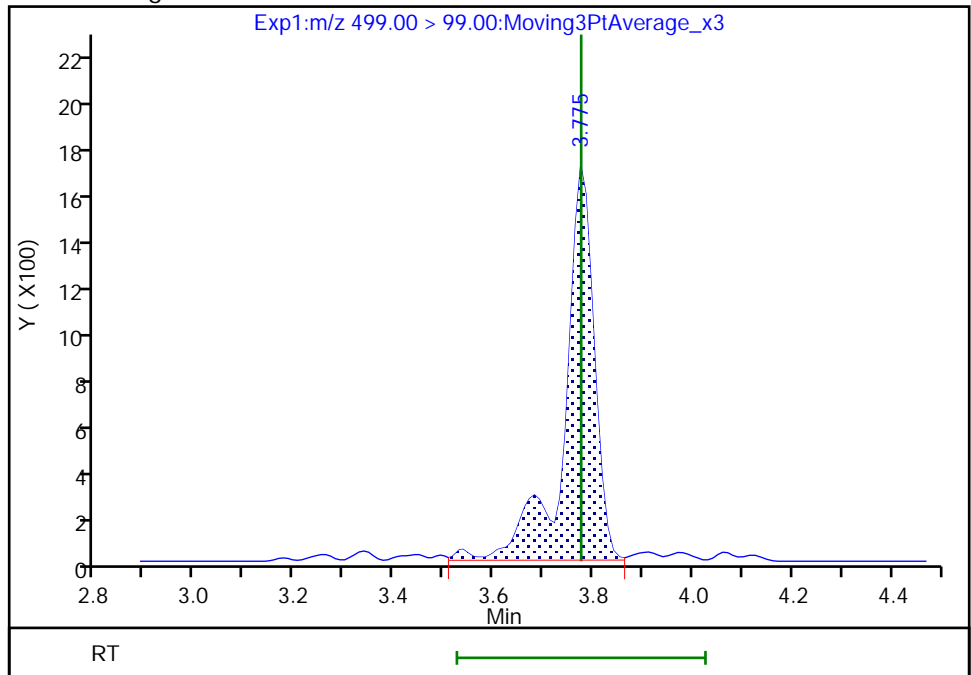
RT: 3.77  
Area: 7865  
Amount: 0.097640  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 6947  
Amount: 0.093139  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

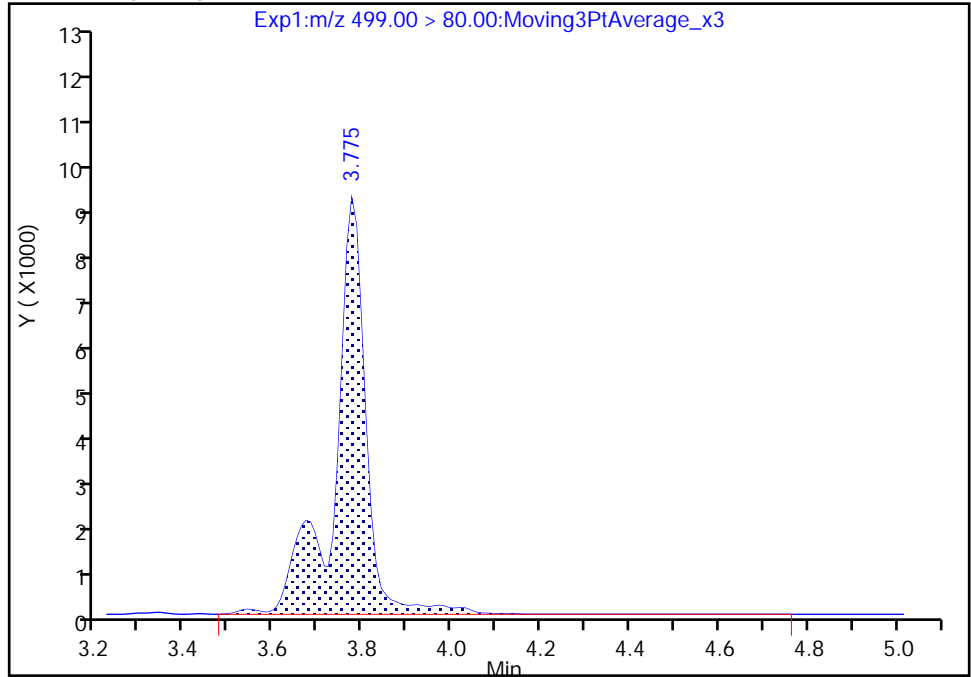
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d  
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

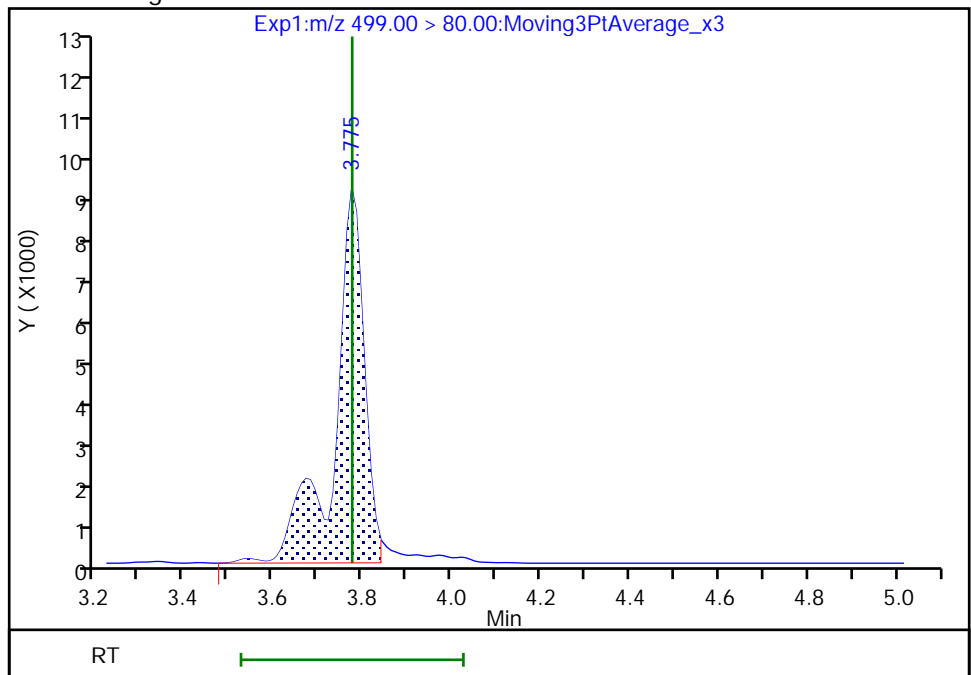
RT: 3.77  
Area: 44731  
Amount: 0.097640  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 41988  
Amount: 0.093139  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

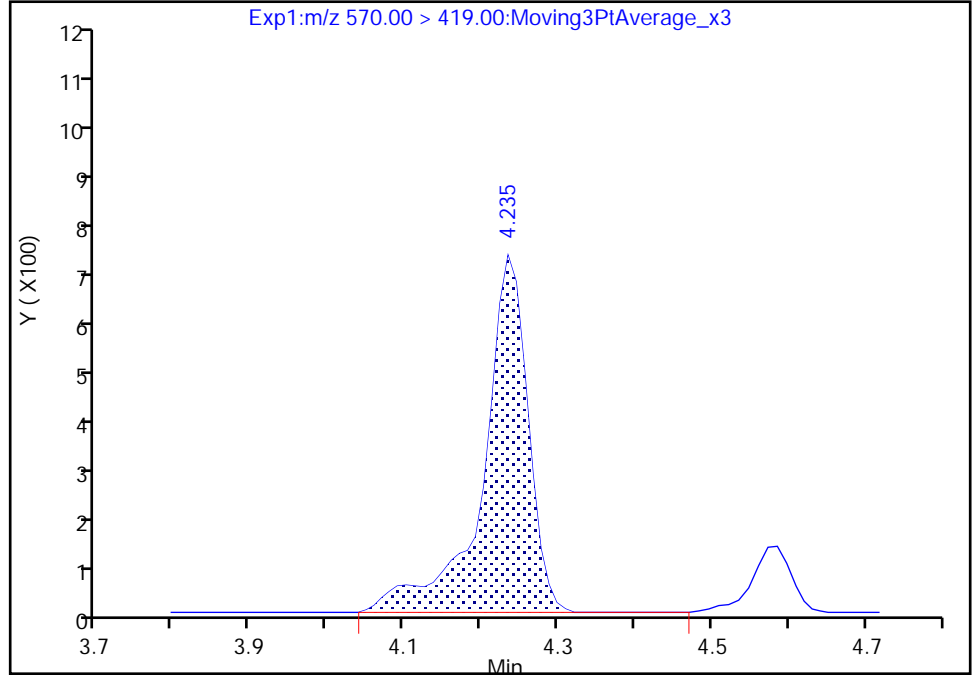
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d  
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

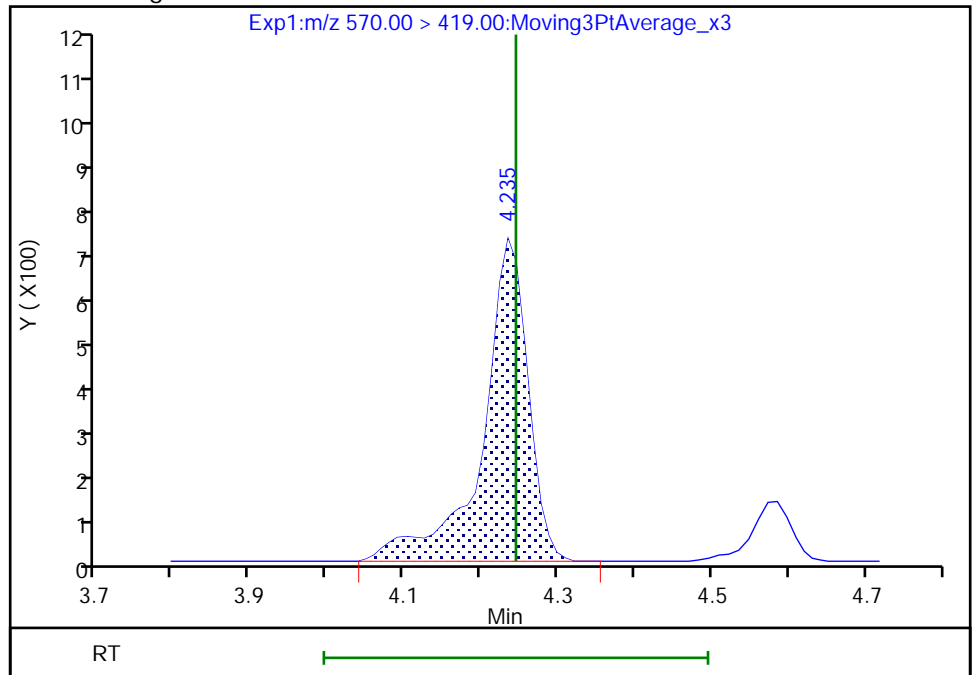
RT: 4.23  
Area: 3014  
Amount: 0.127203  
Amount Units: ng/ml

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

Eurofins TestAmerica, Burlington

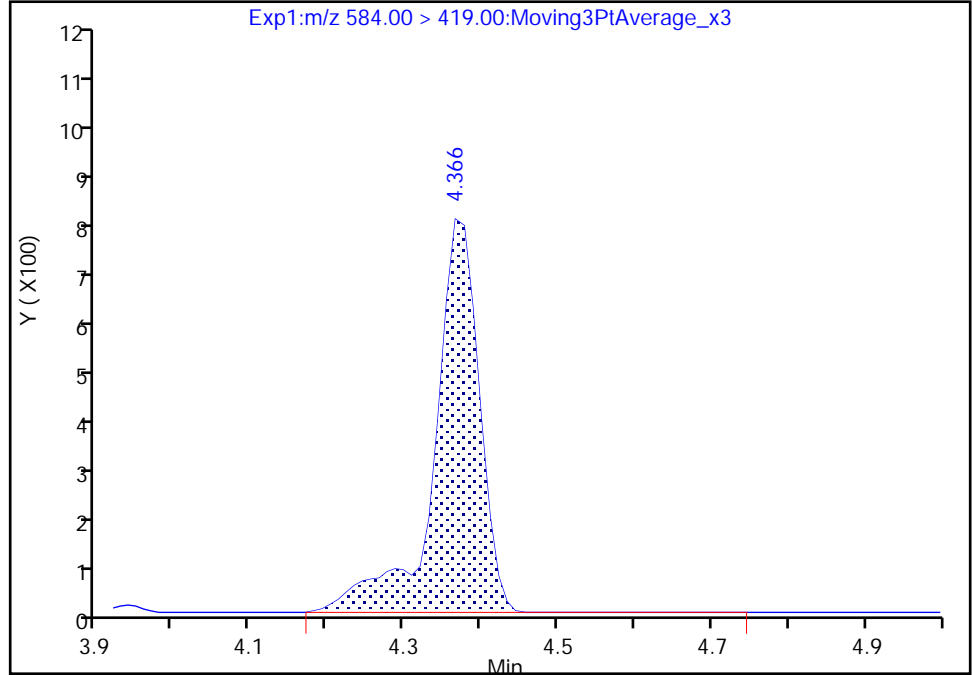
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d  
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

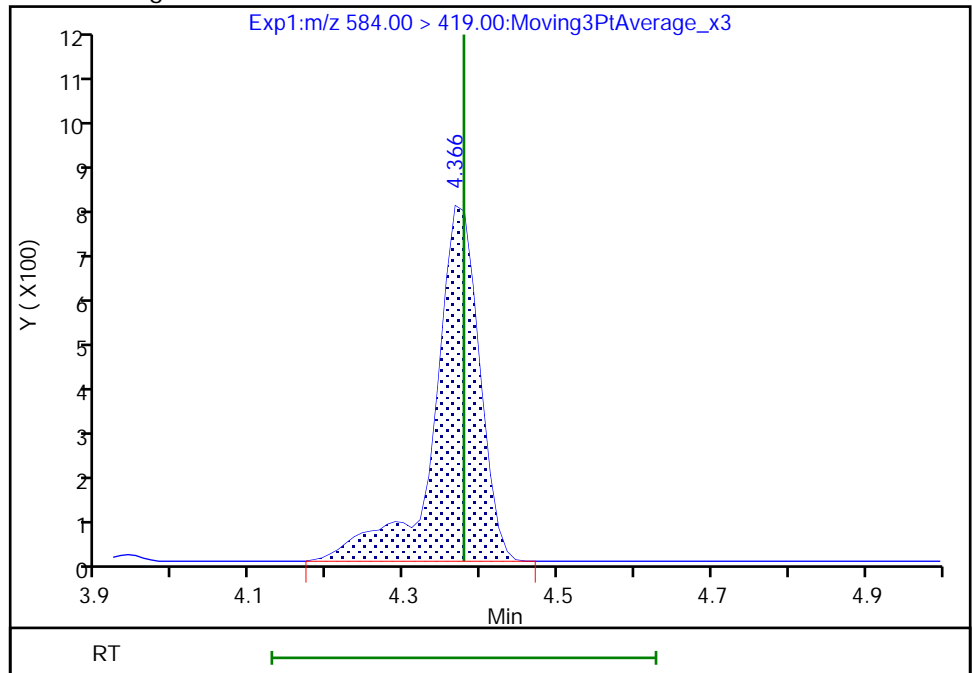
RT: 4.37  
Area: 3309  
Amount: 0.124640  
Amount Units: ng/ml

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

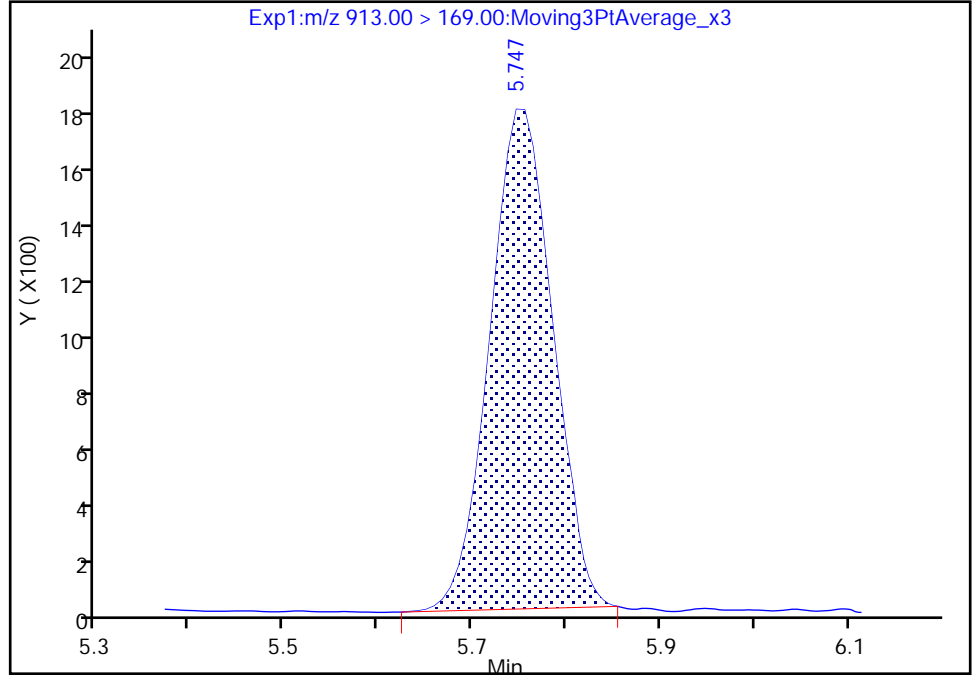
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL06.d  
Injection Date: 22-Sep-2020 19:38:46 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

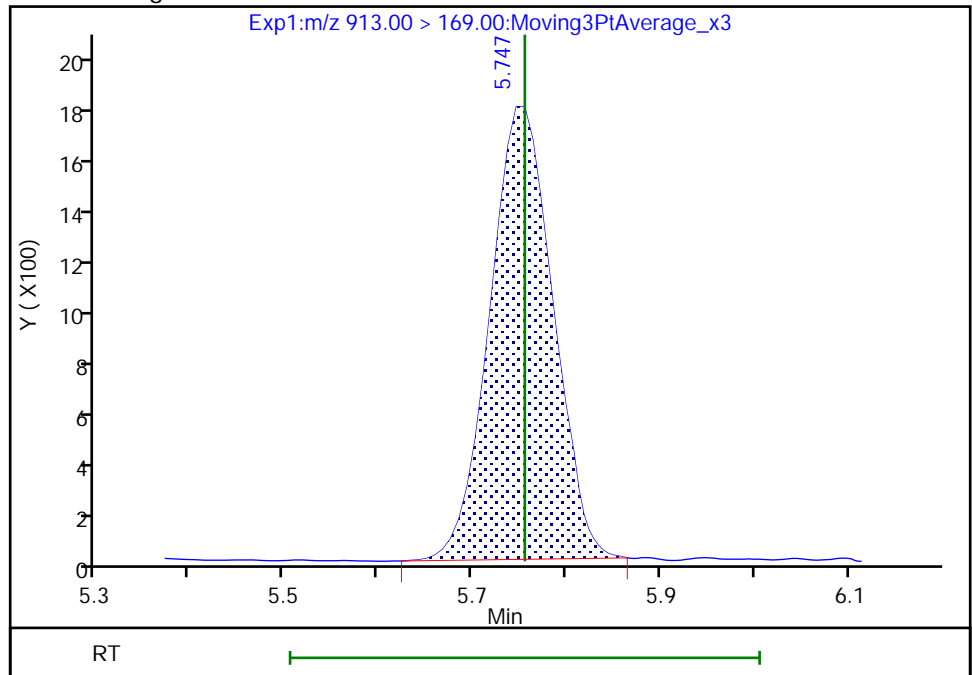
RT: 5.75  
Area: 8149  
Amount: 0.114284  
Amount Units: ng/ml

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 PFDoA										
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

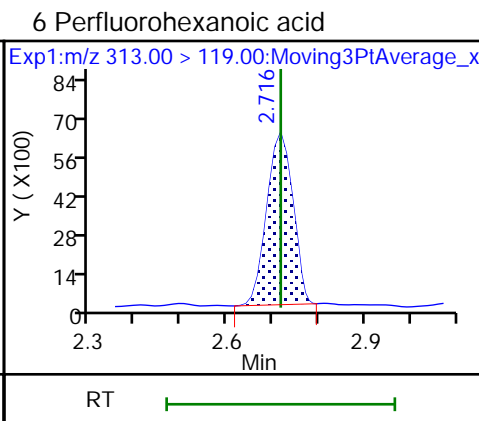
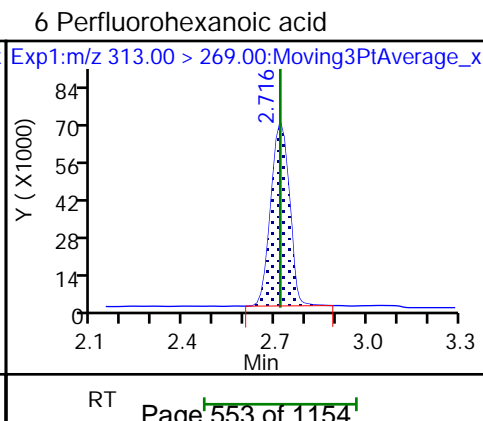
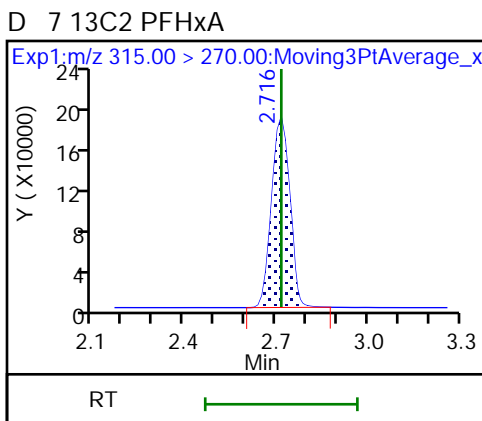
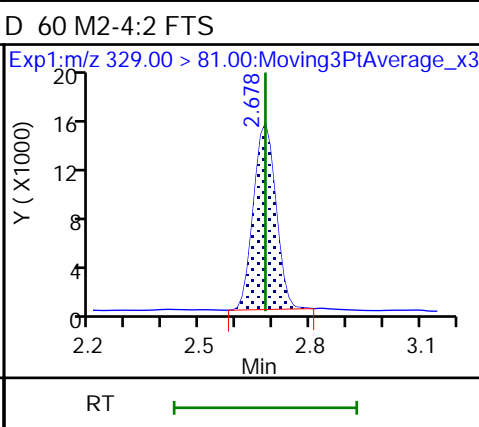
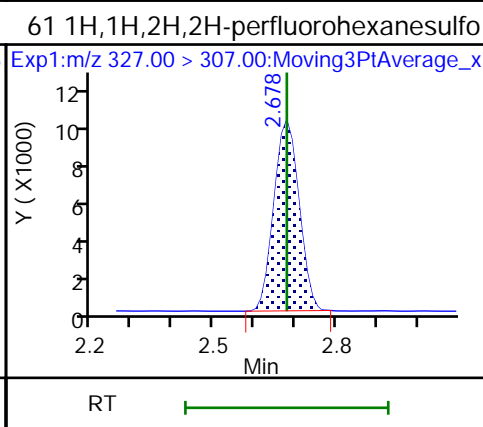
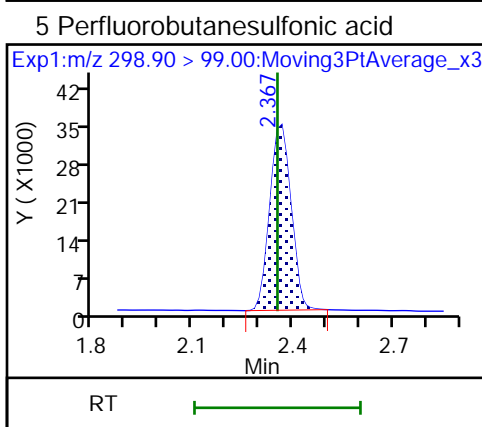
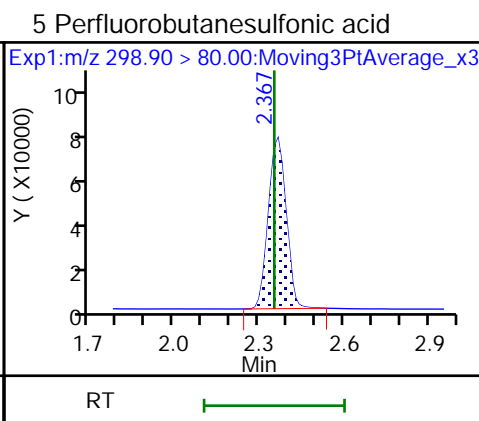
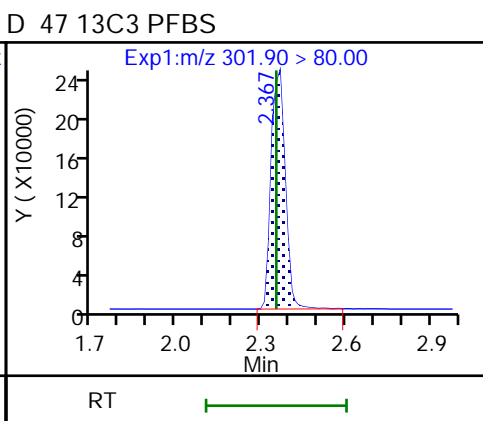
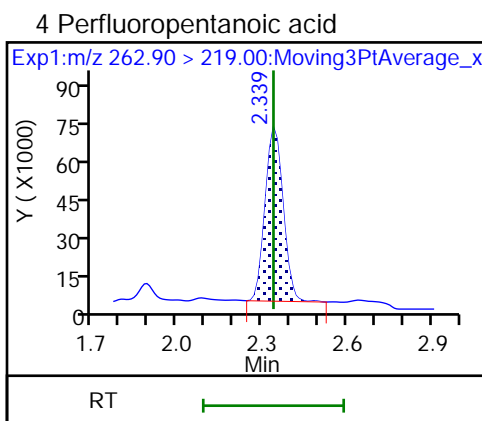
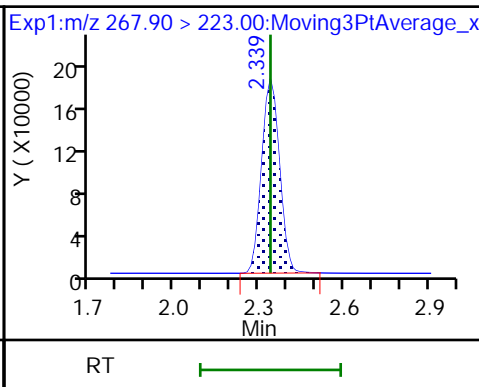
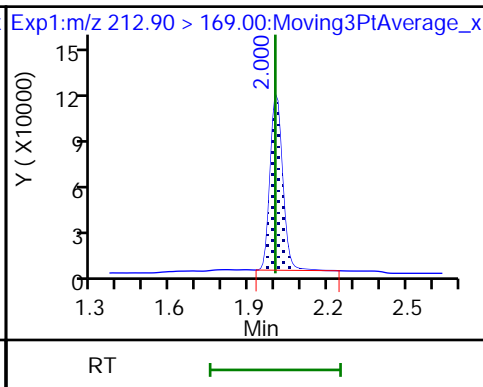
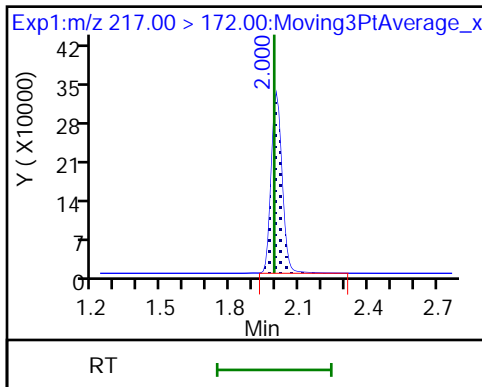
Method: PFC\_LC812

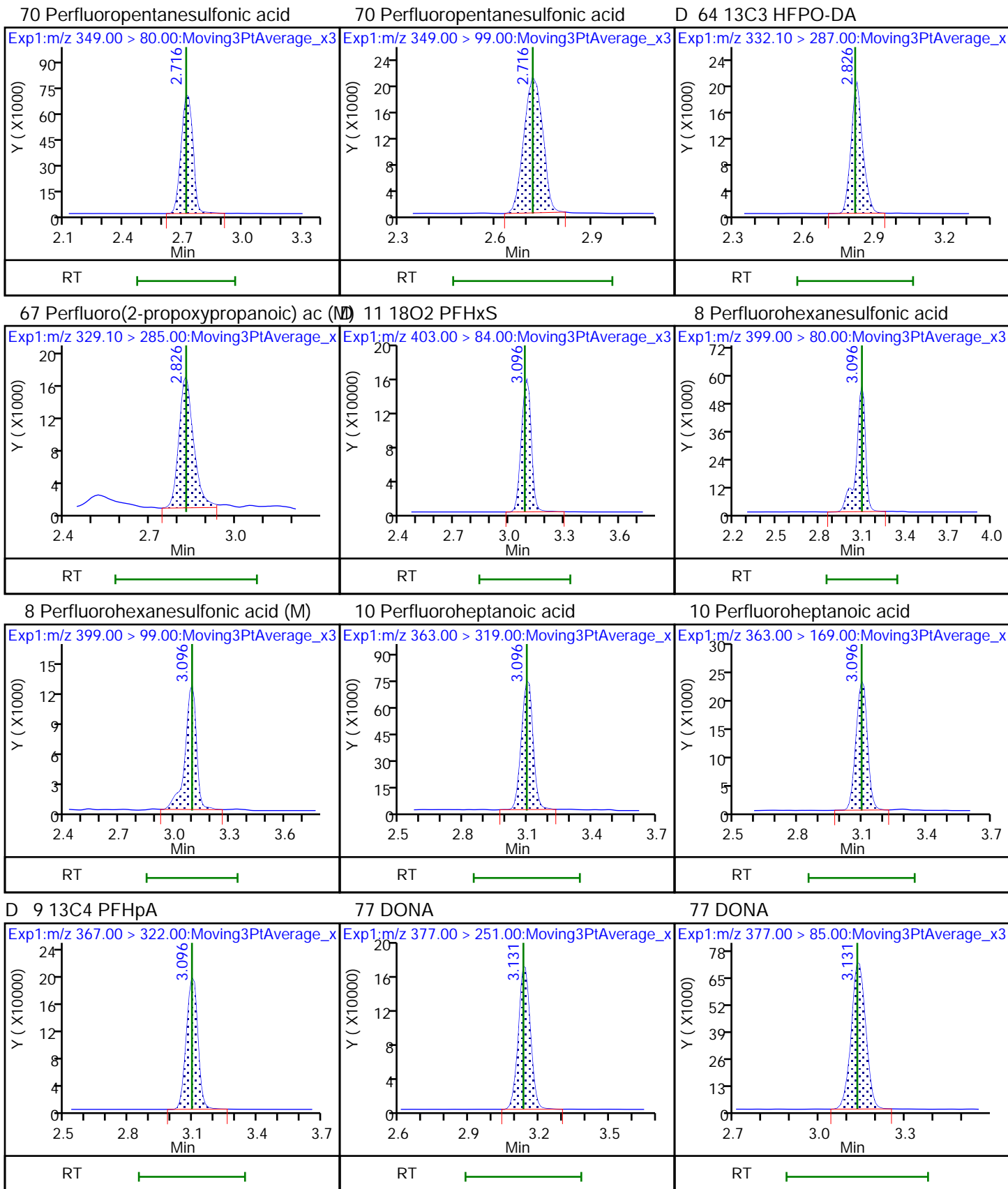
Limit Group: LC\_PFC\_ICAL

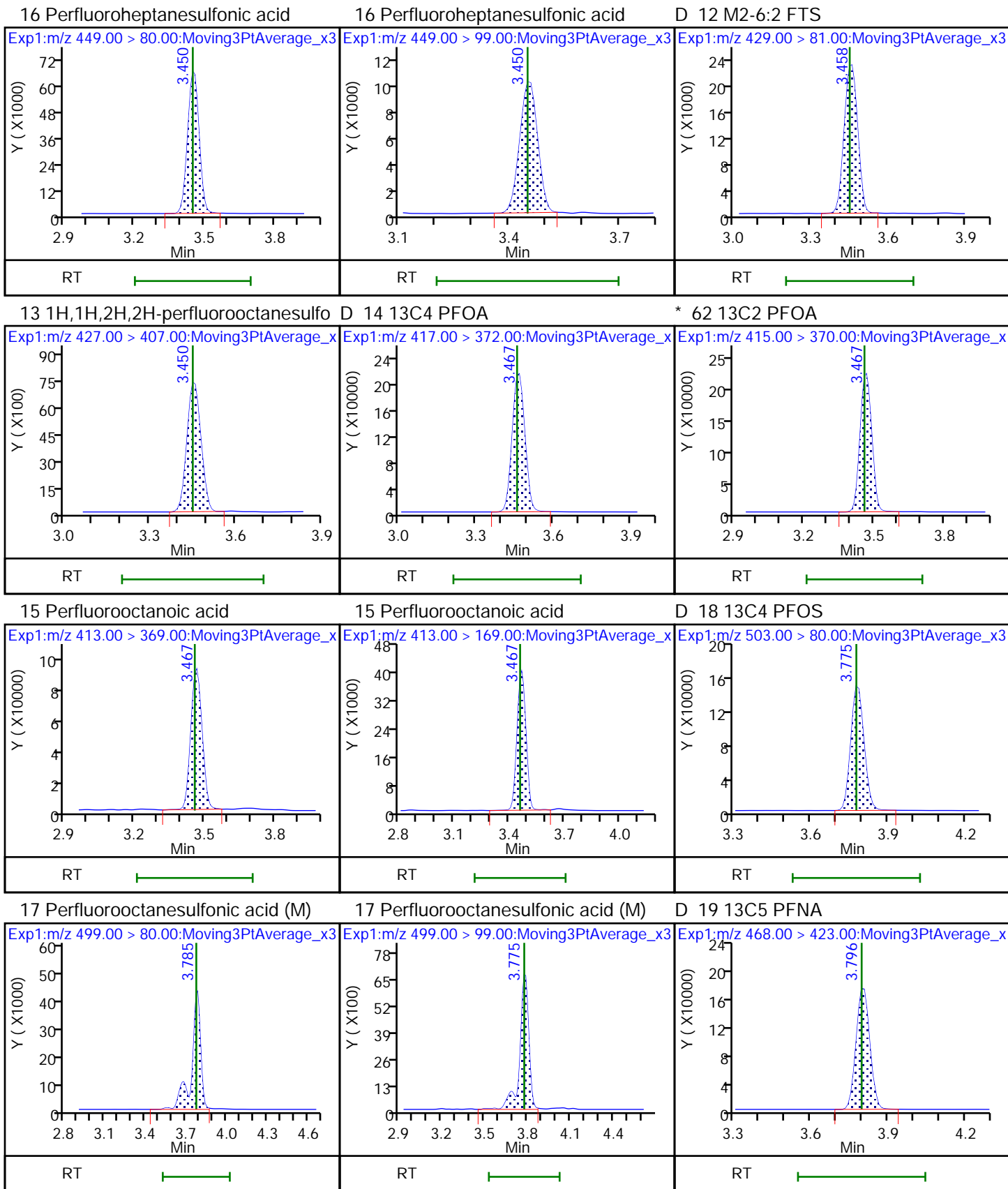
D 1 13C4 PFBA

2 Perfluorobutanoic acid

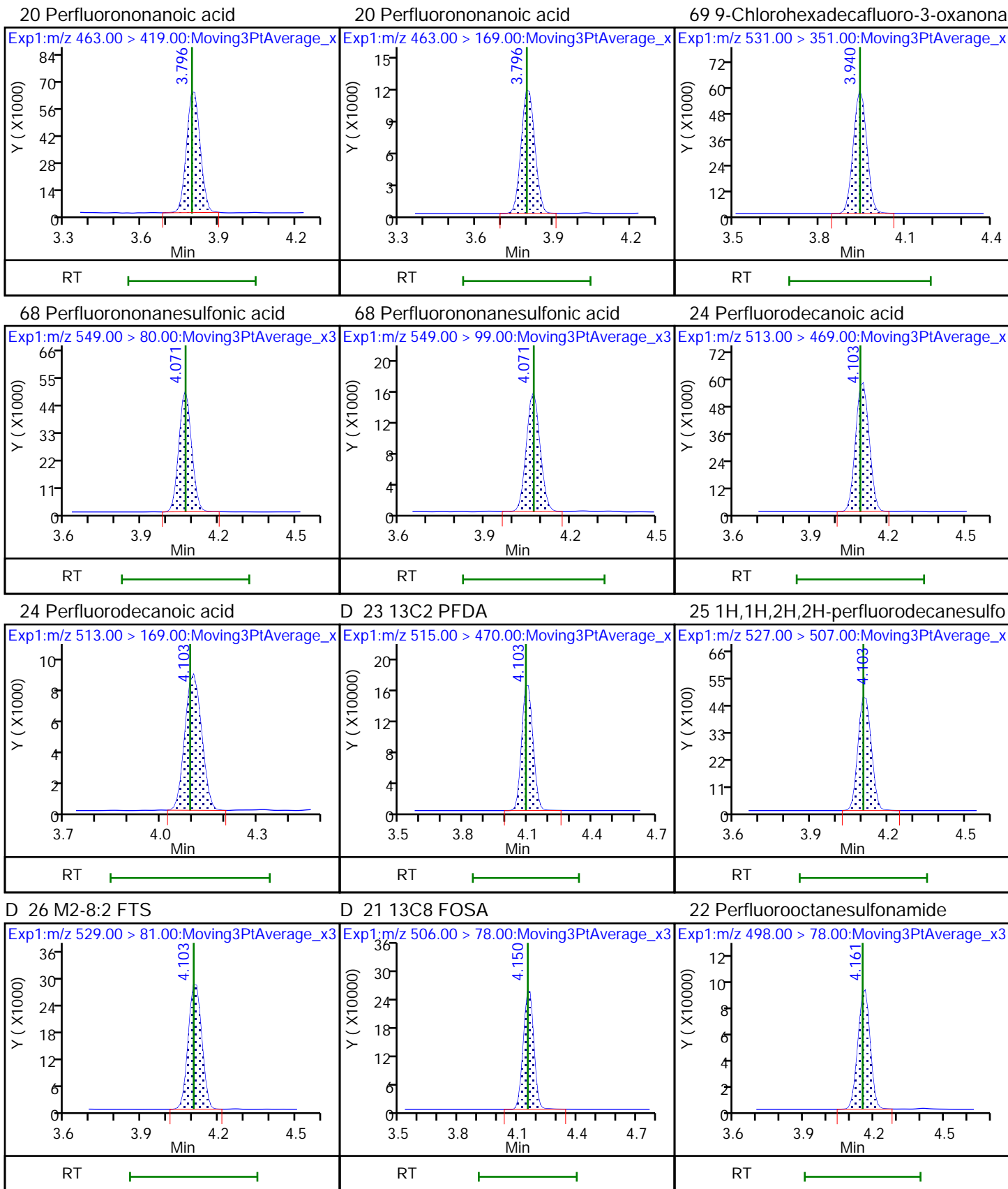
D 3 13C5 PFPeA







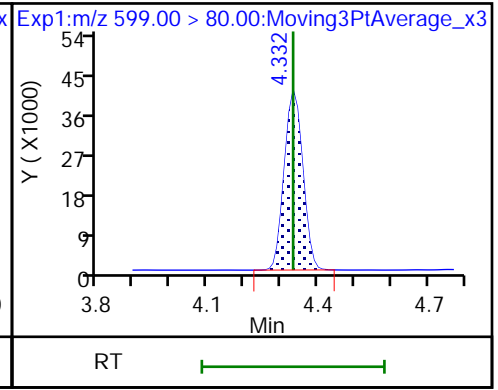
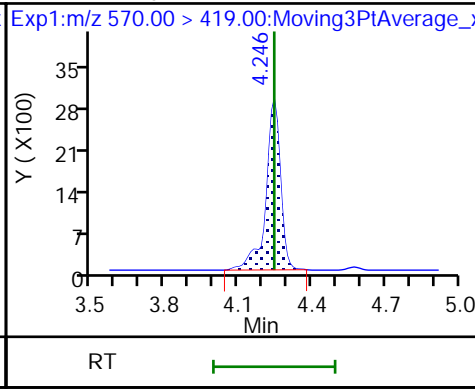
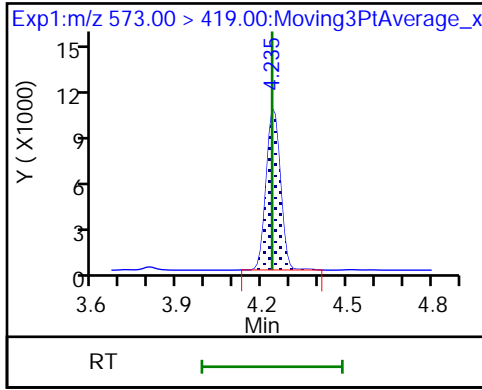




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

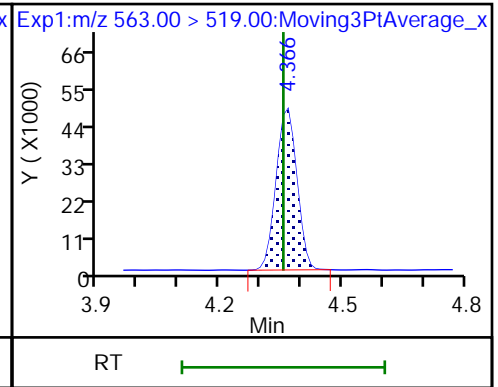
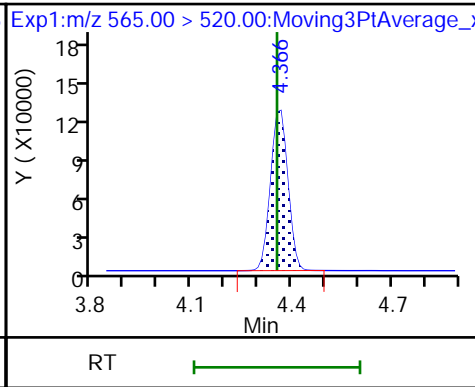
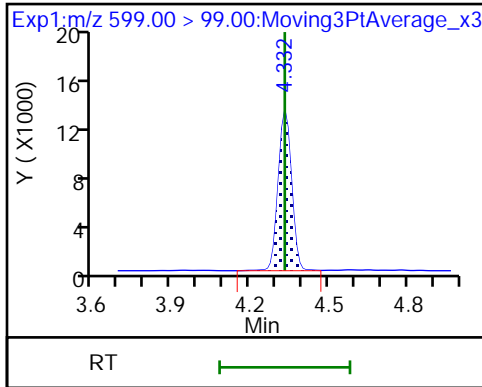
29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

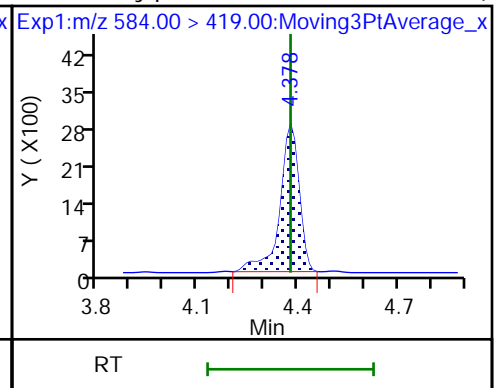
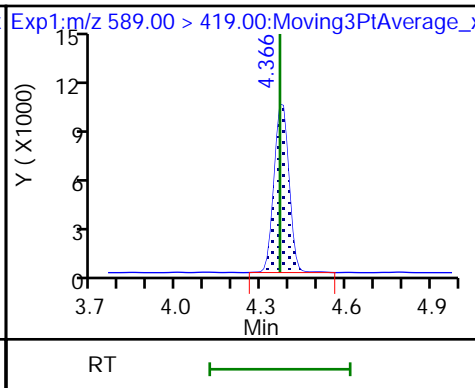
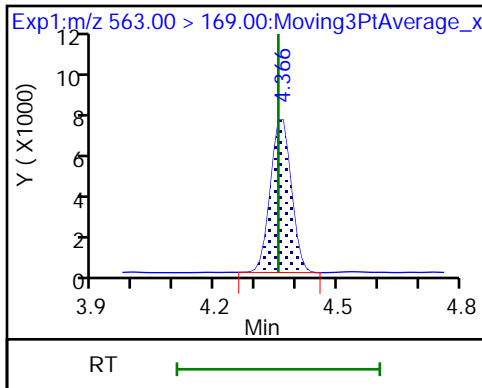
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

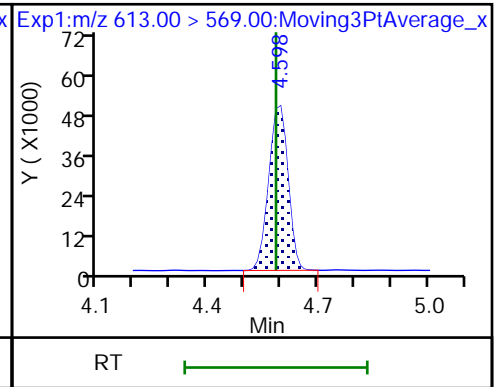
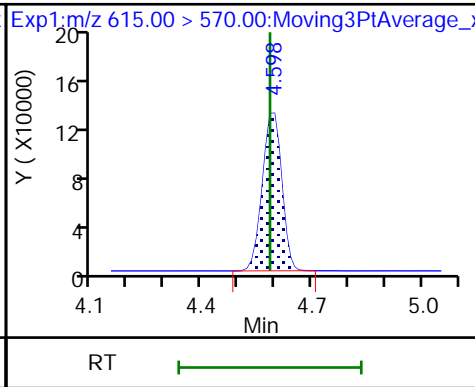
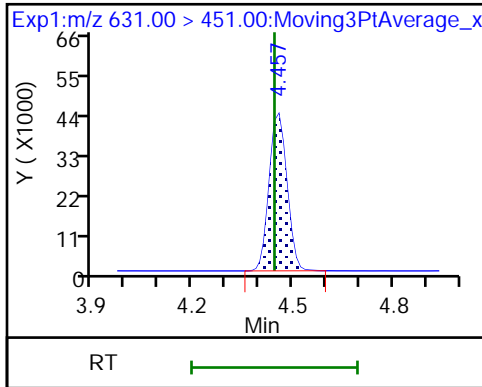
33 N-ethylperfluorooctanesulfonamid (M)

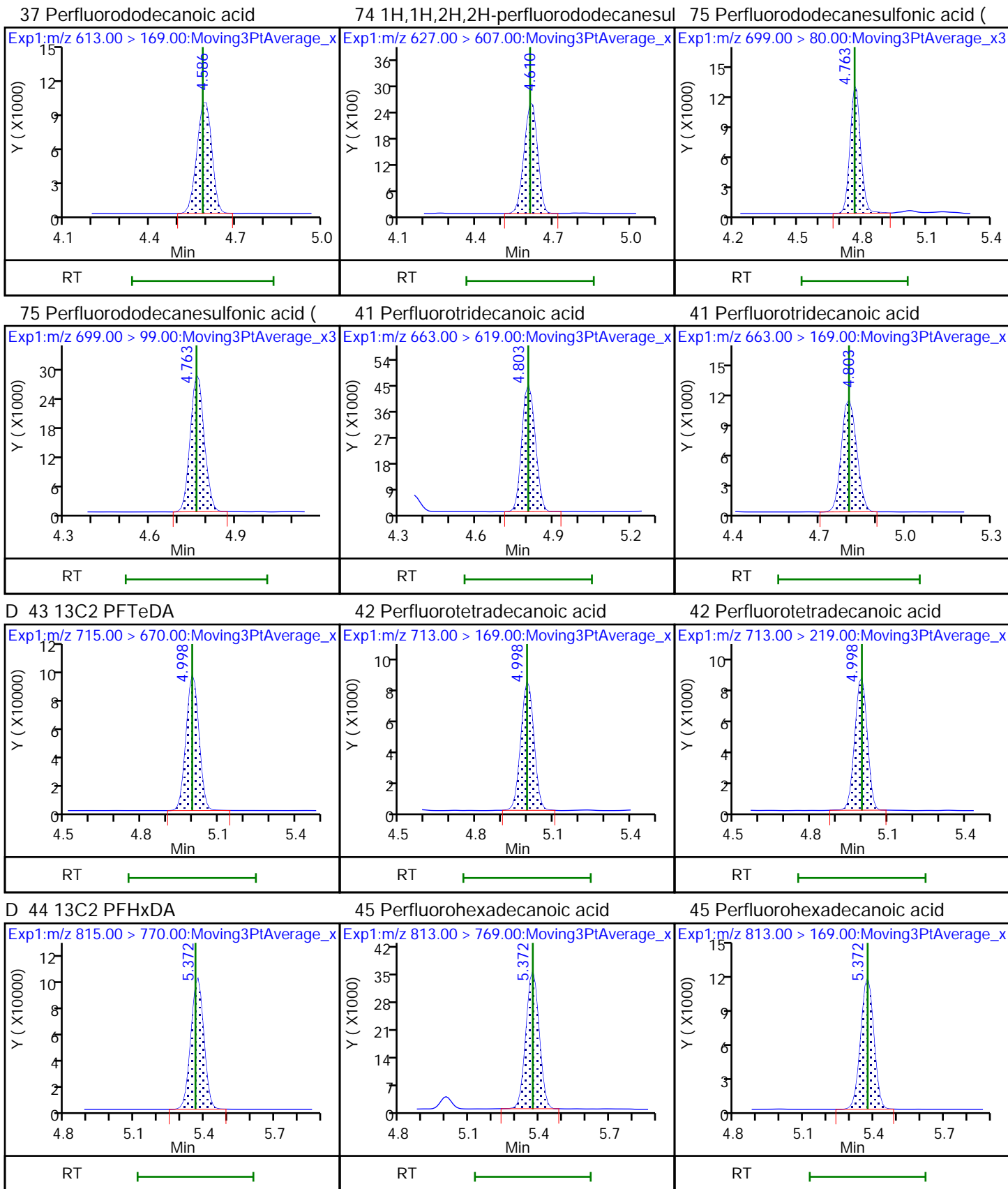


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

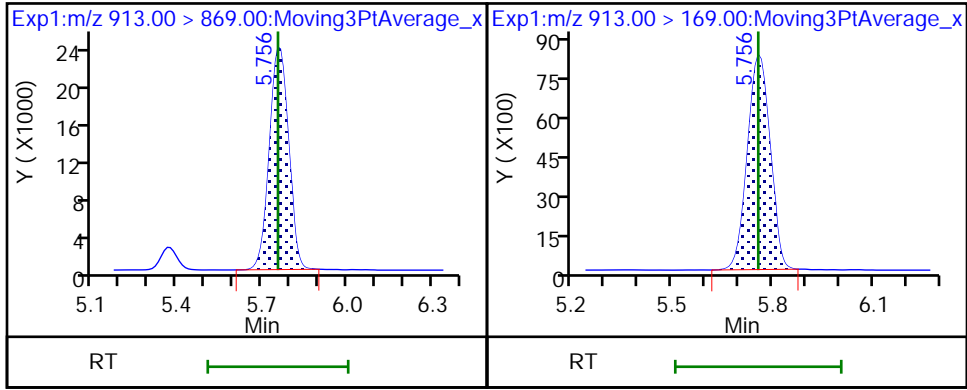
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

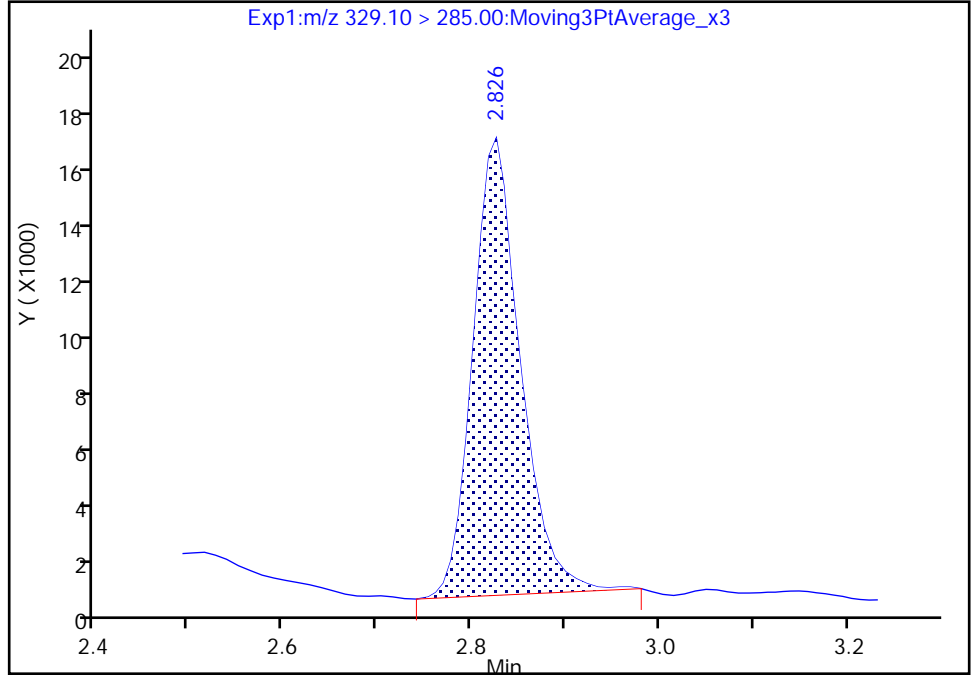
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d  
Injection Date: 22-Sep-2020 19:47:05 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

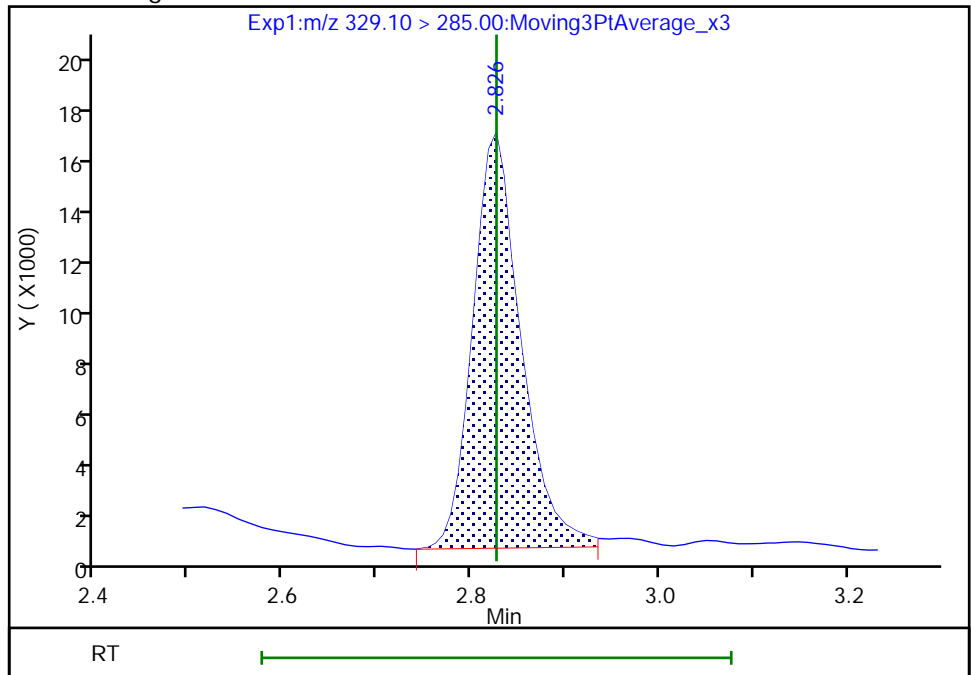
RT: 2.83  
Area: 54492  
Amount: 0.488455  
Amount Units: ng/ml

Processing Integration Results



RT: 2.83  
Area: 55438  
Amount: 0.487917  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

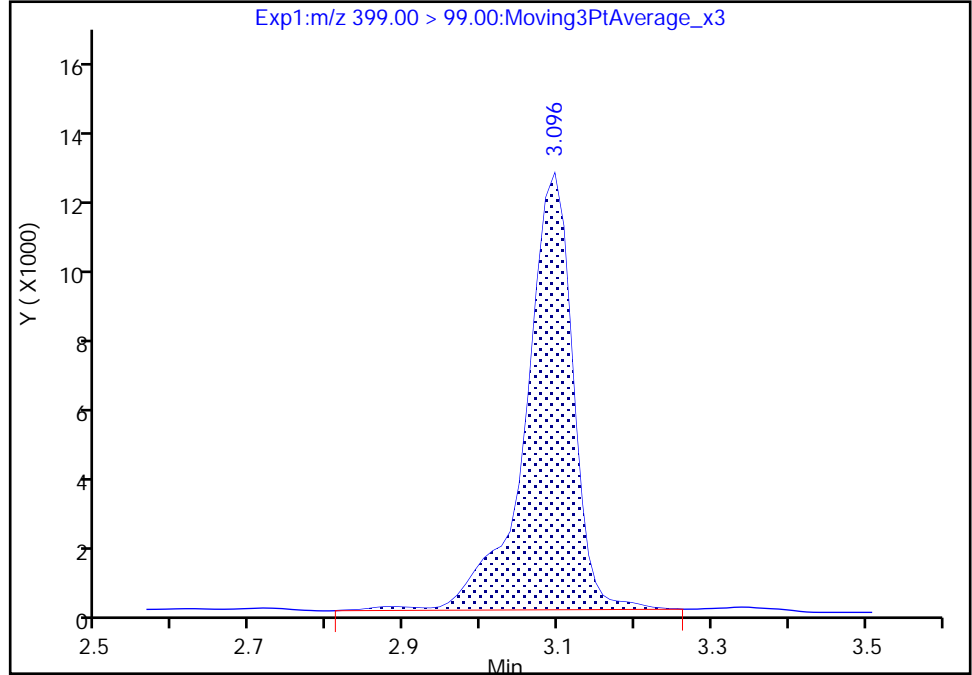
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d  
Injection Date: 22-Sep-2020 19:47:05 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

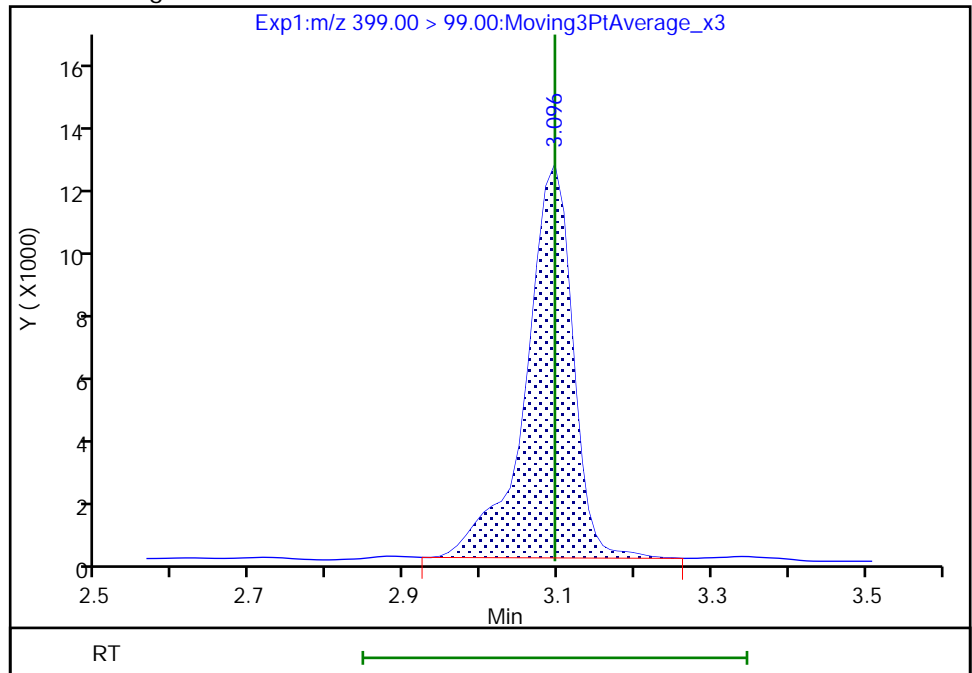
RT: 3.10  
Area: 54308  
Amount: 0.450815  
Amount Units: ng/ml

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

Eurofins TestAmerica, Burlington

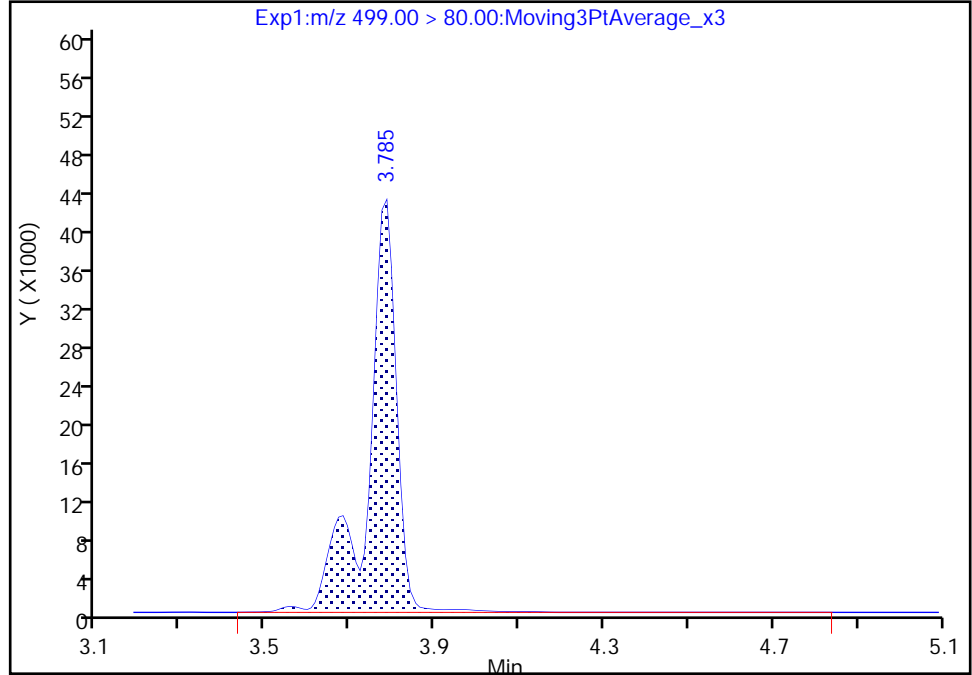
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d  
Injection Date: 22-Sep-2020 19:47:05 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

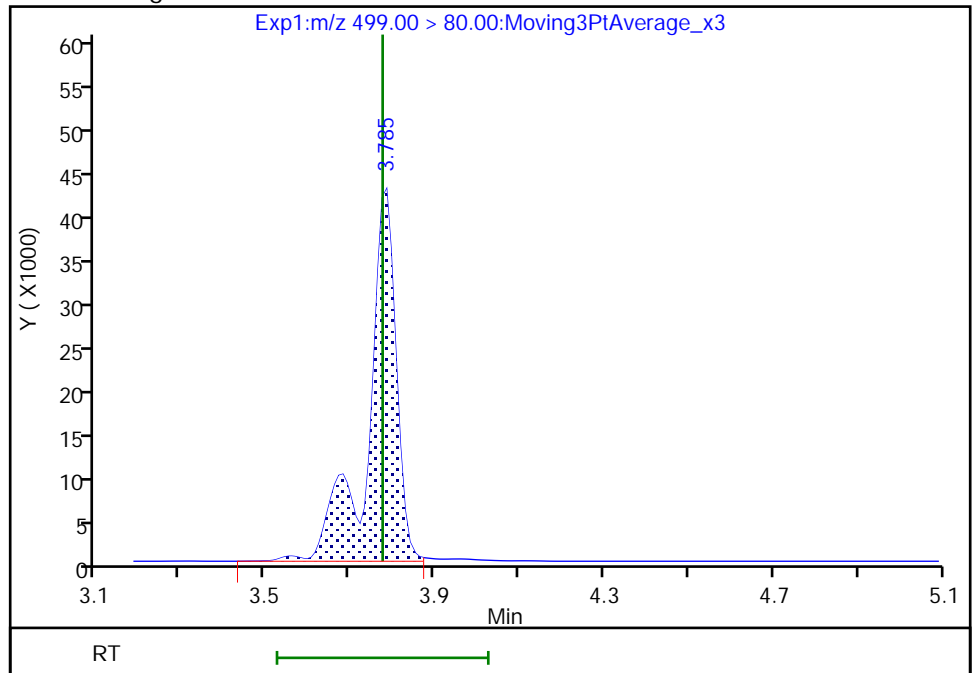
RT: 3.79  
Area: 203225  
Amount: 0.435684  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 200516  
Amount: 0.432149  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

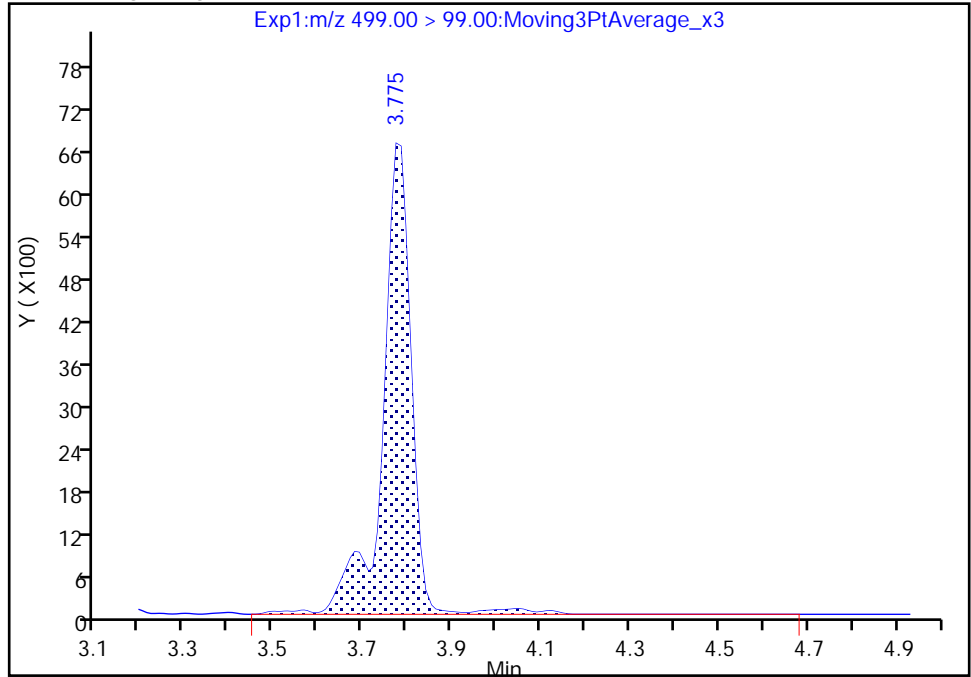
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d  
Injection Date: 22-Sep-2020 19:47:05 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

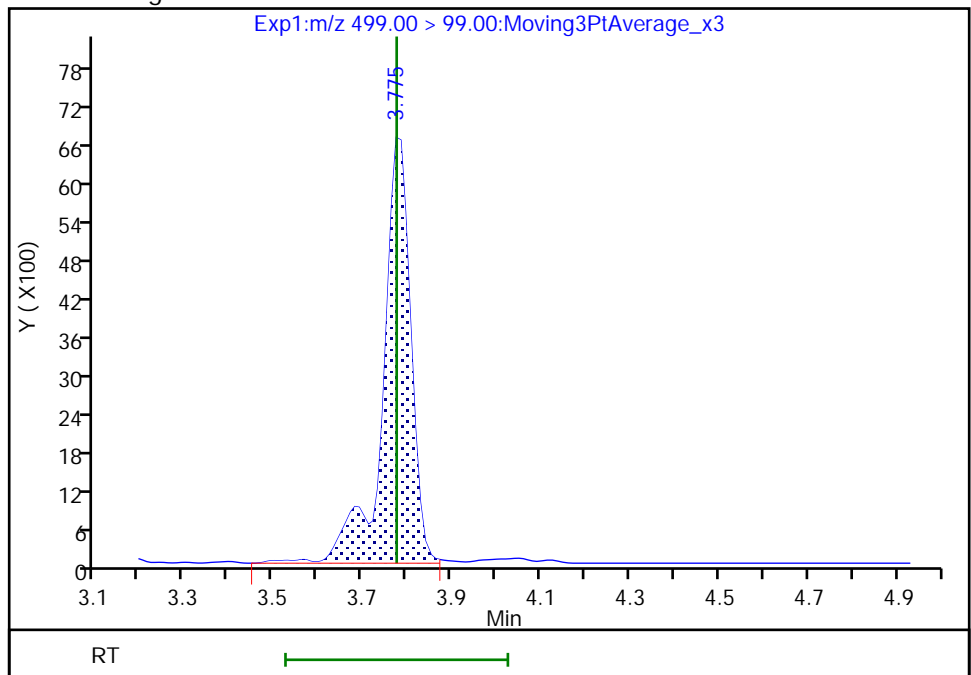
RT: 3.77  
Area: 30165  
Amount: 0.435684  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 29384  
Amount: 0.432149  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

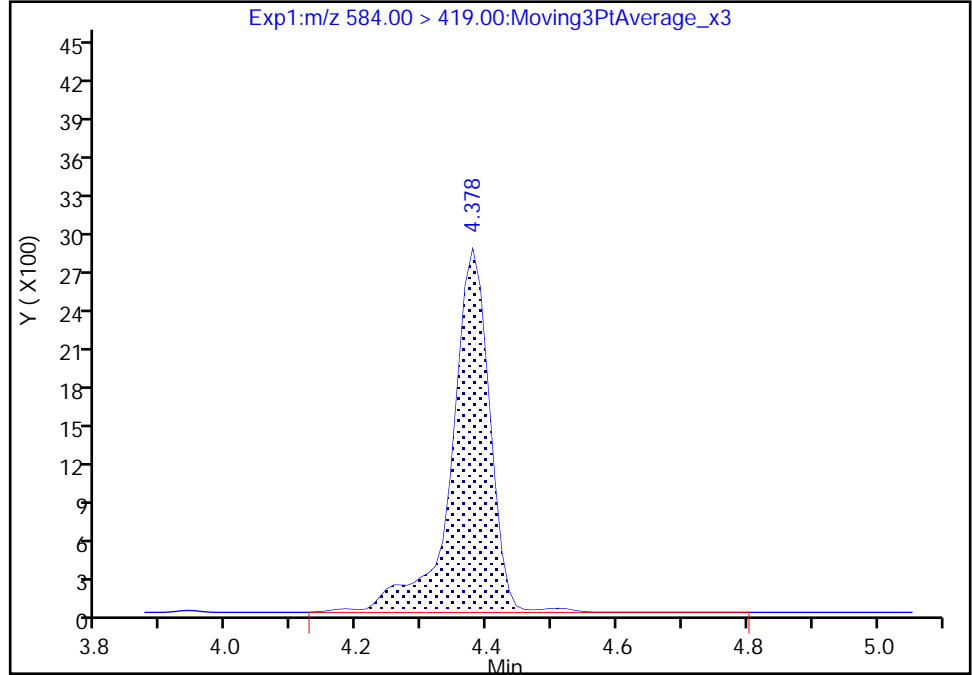
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL07.d  
Injection Date: 22-Sep-2020 19:47:05 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 4 Worklist Smp#: 7  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

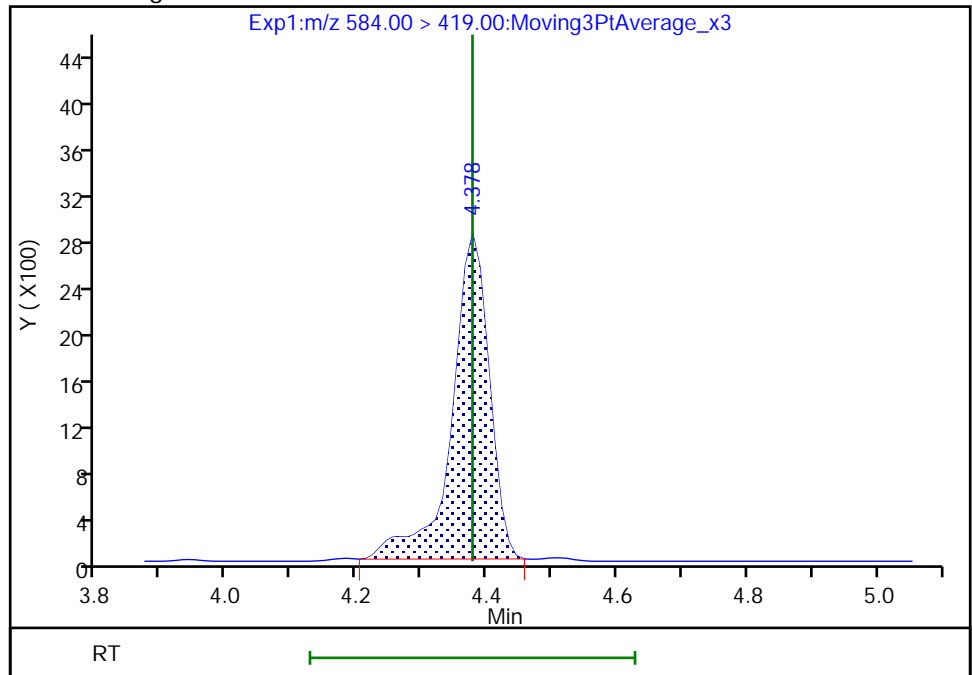
RT: 4.38  
Area: 11682  
Amount: 0.416506  
Amount Units: ng/ml

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

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 PFDoA										
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	

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 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

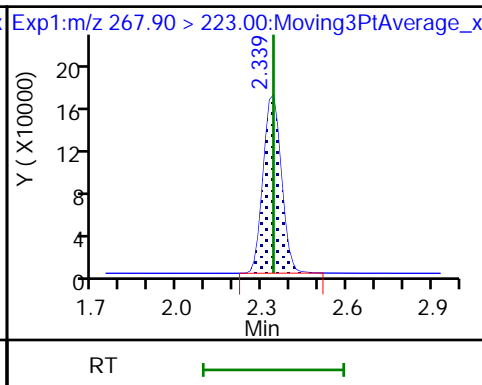
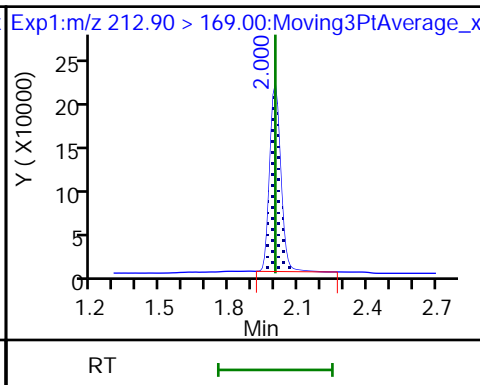
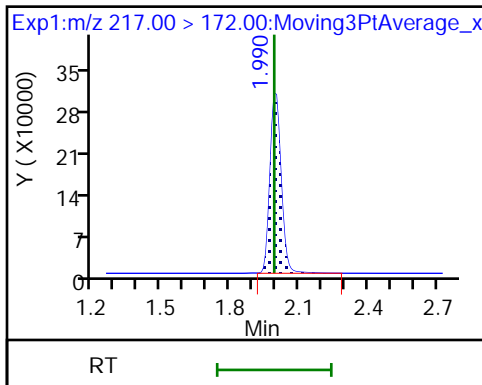
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

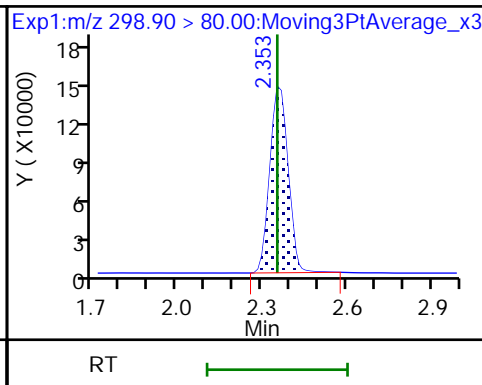
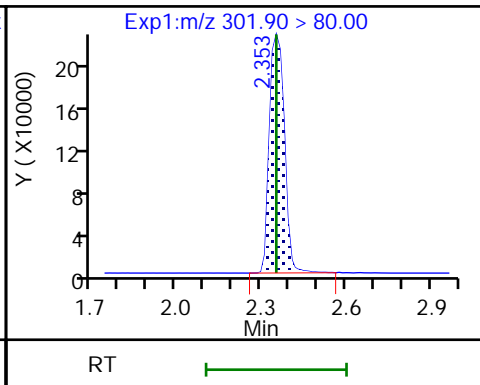
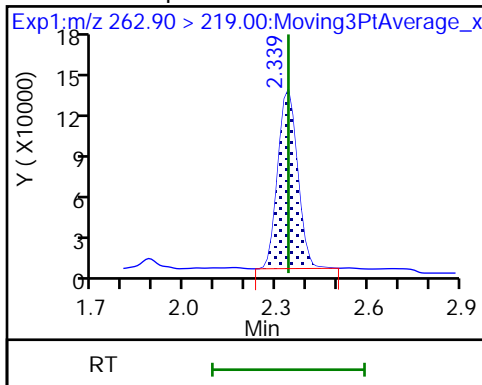
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

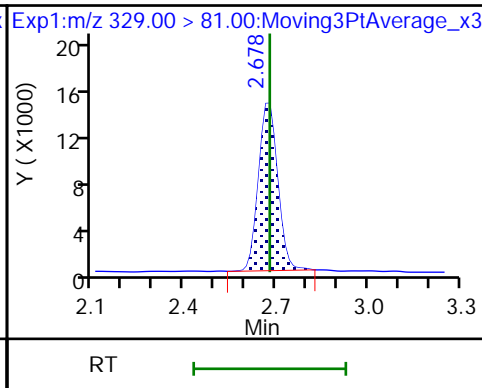
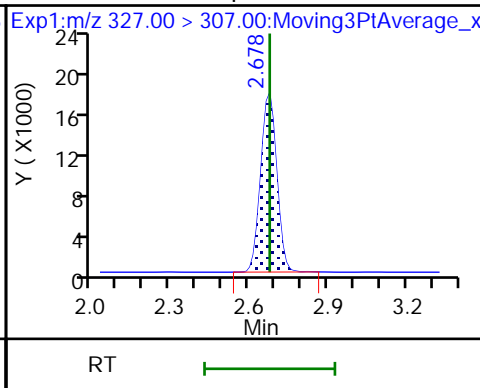
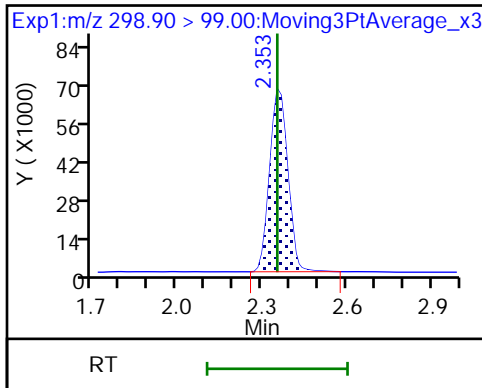
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

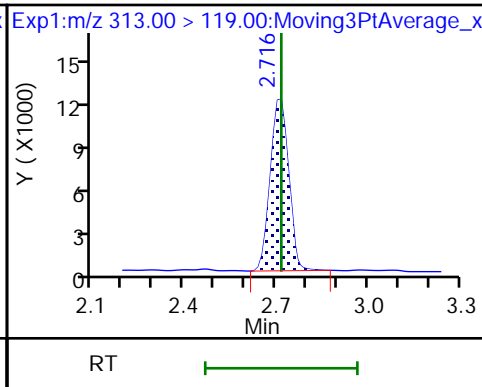
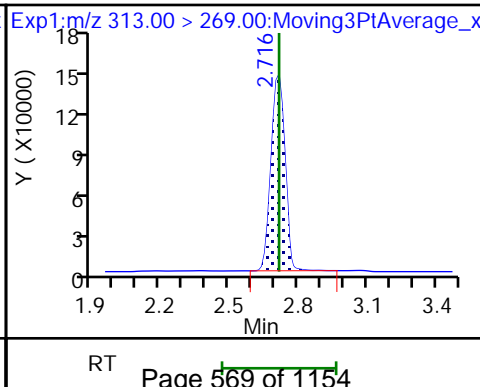
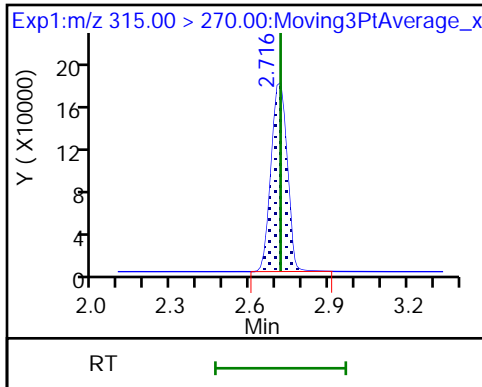
61 1H,1H,2H,2H-perfluorohexanesulfo D 60 M2-4:2 FTS

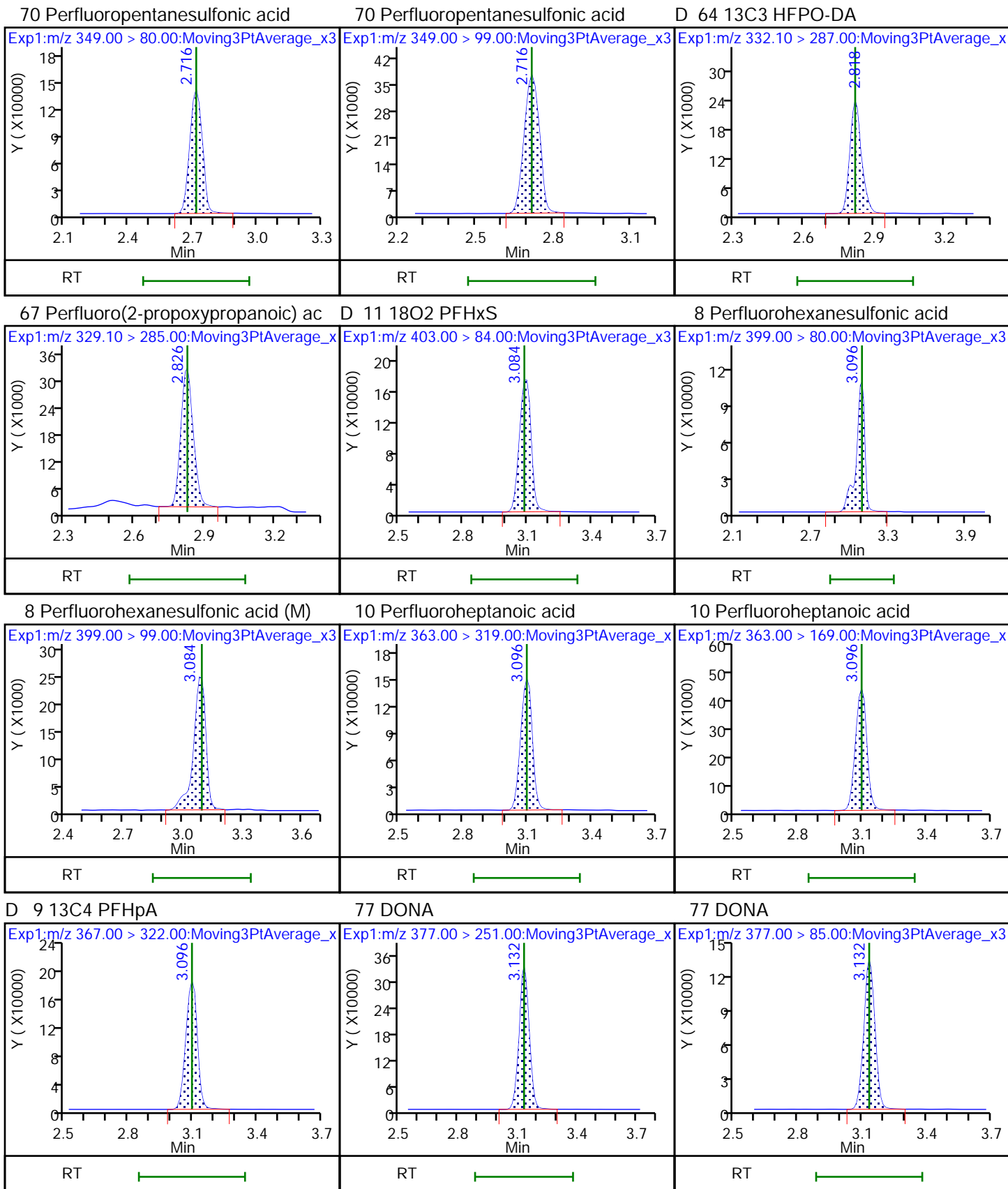


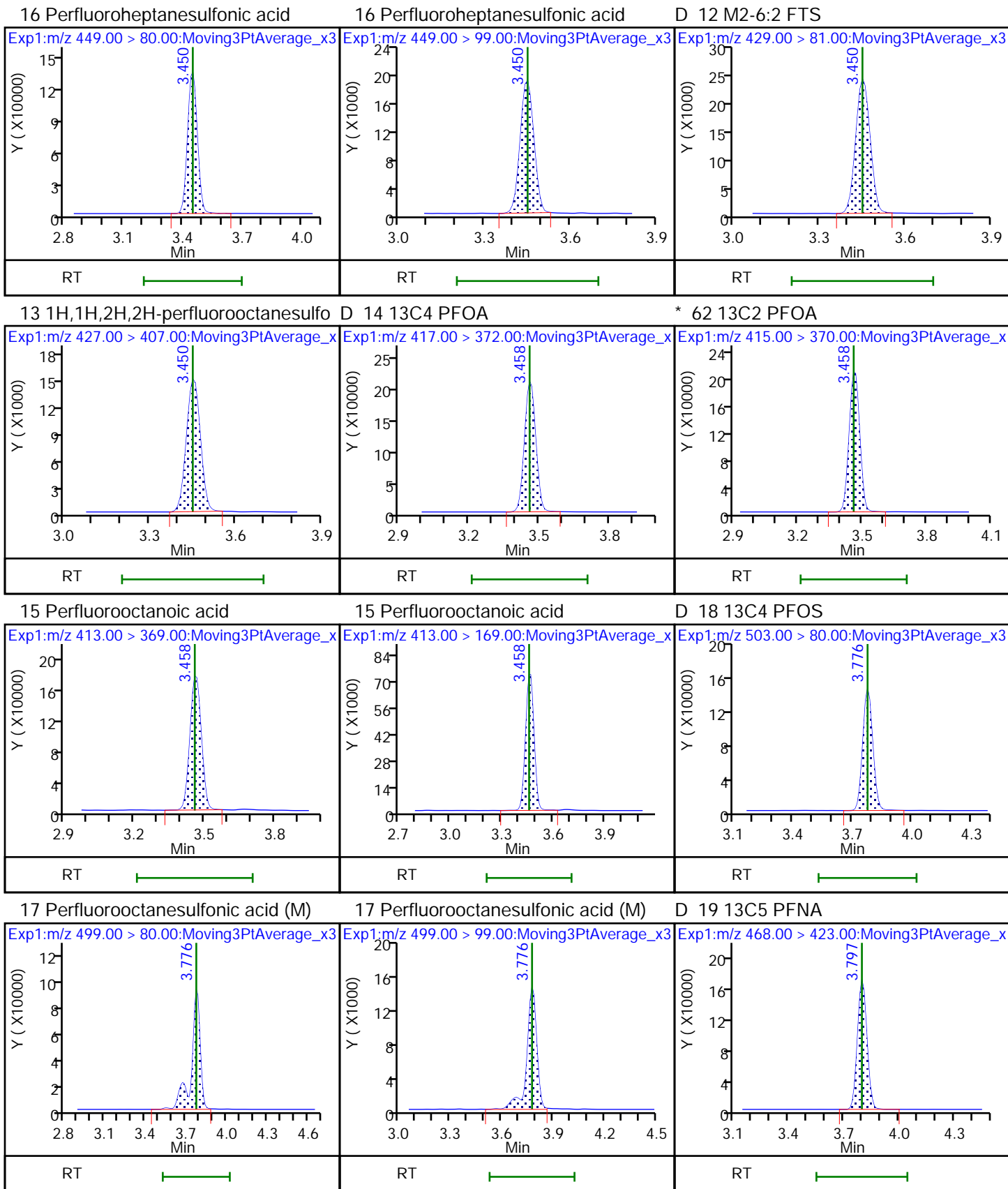
D 7 13C2 PFHxA

6 Perfluorohexanoic acid

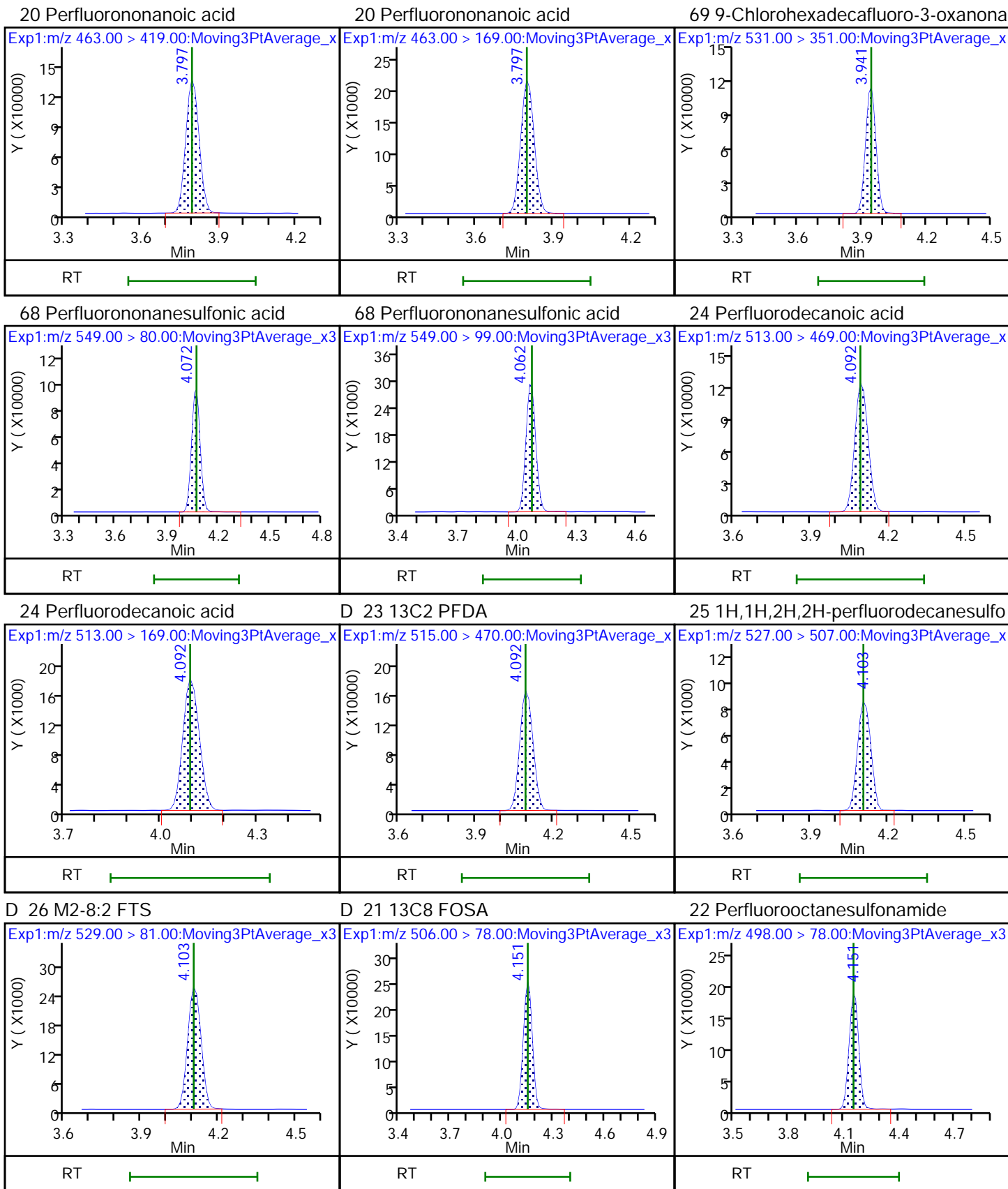
6 Perfluorohexanoic acid





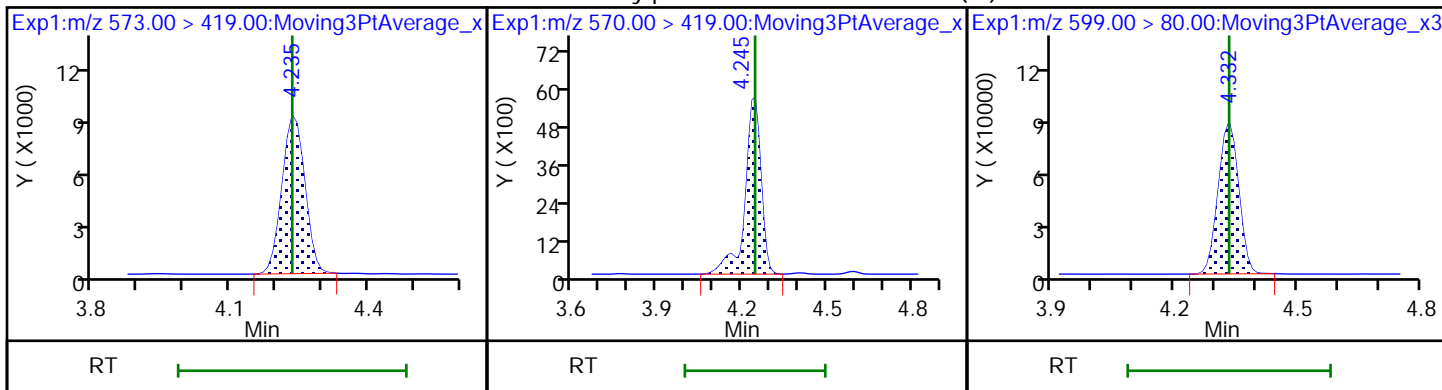






D 27 d3-NMeFOSAA

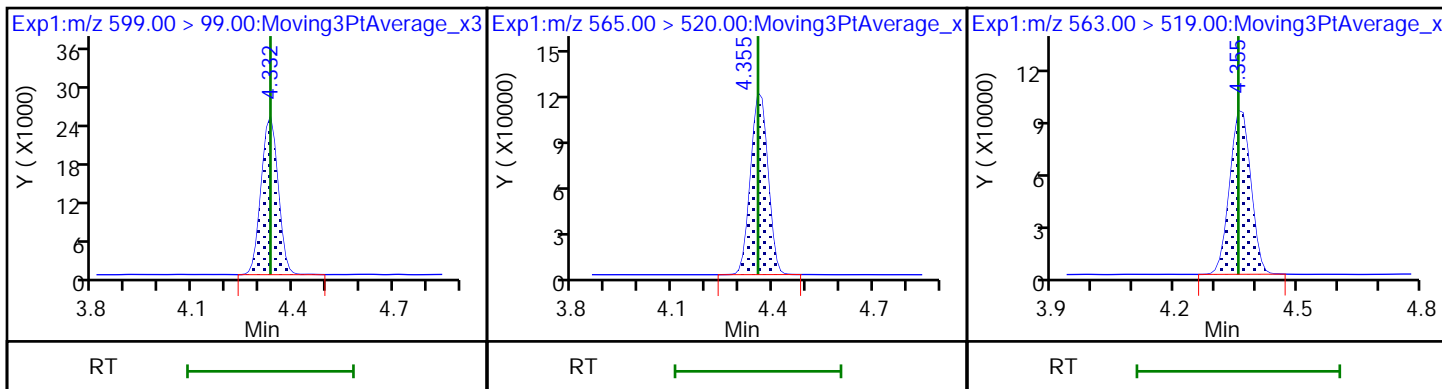
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

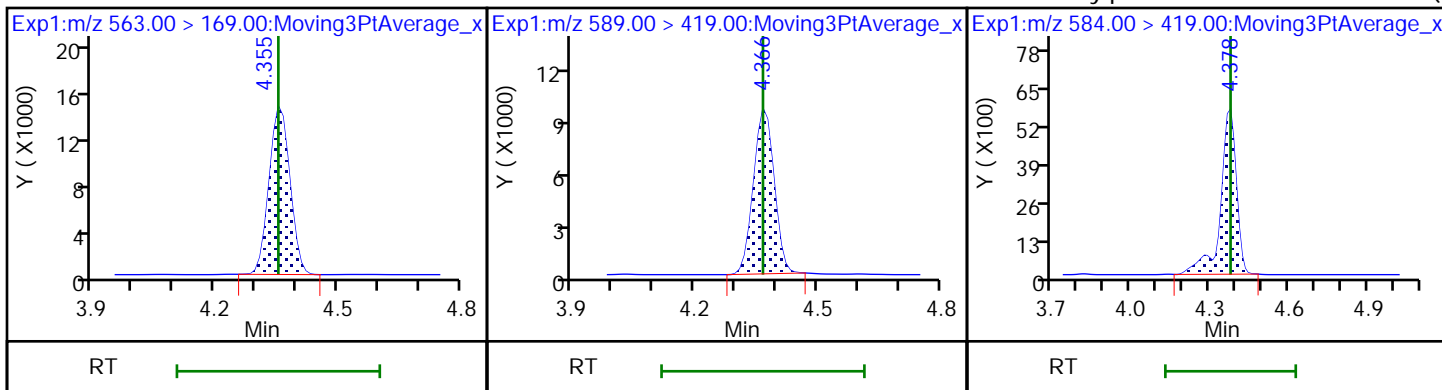
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

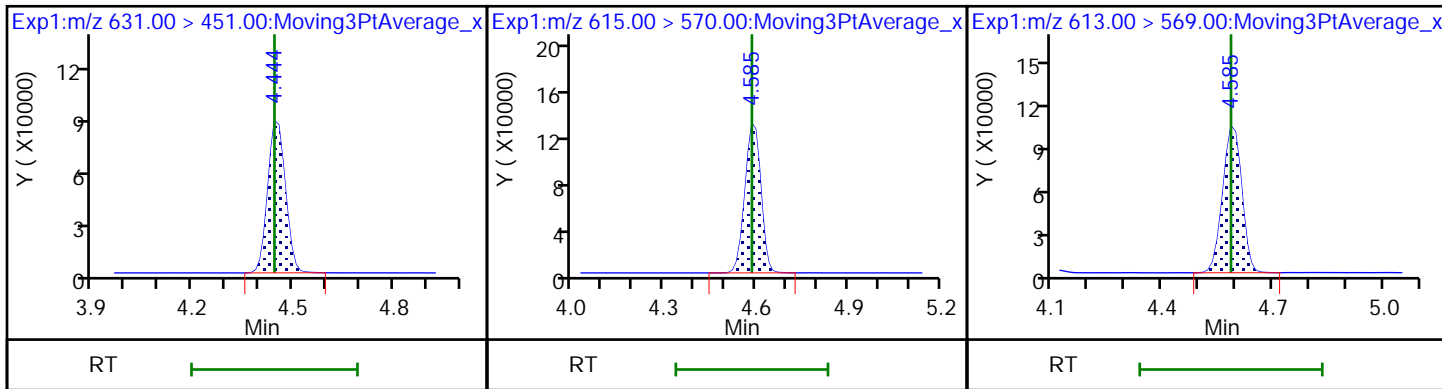
33 N-ethylperfluorooctanesulfonamid (M)

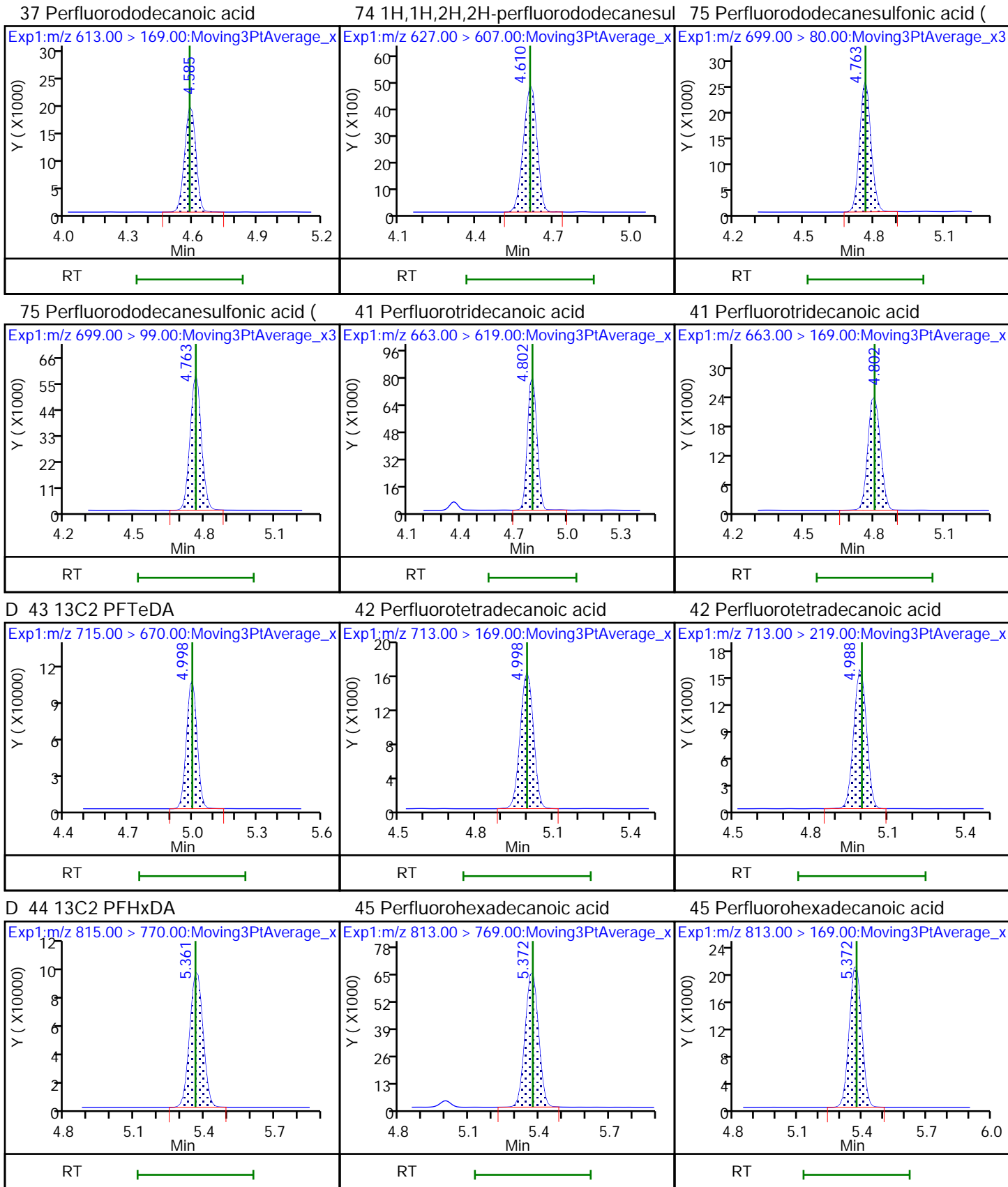


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

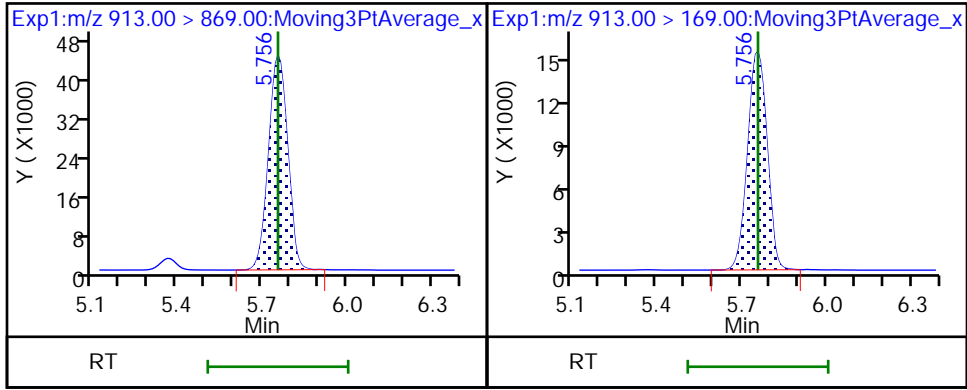
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

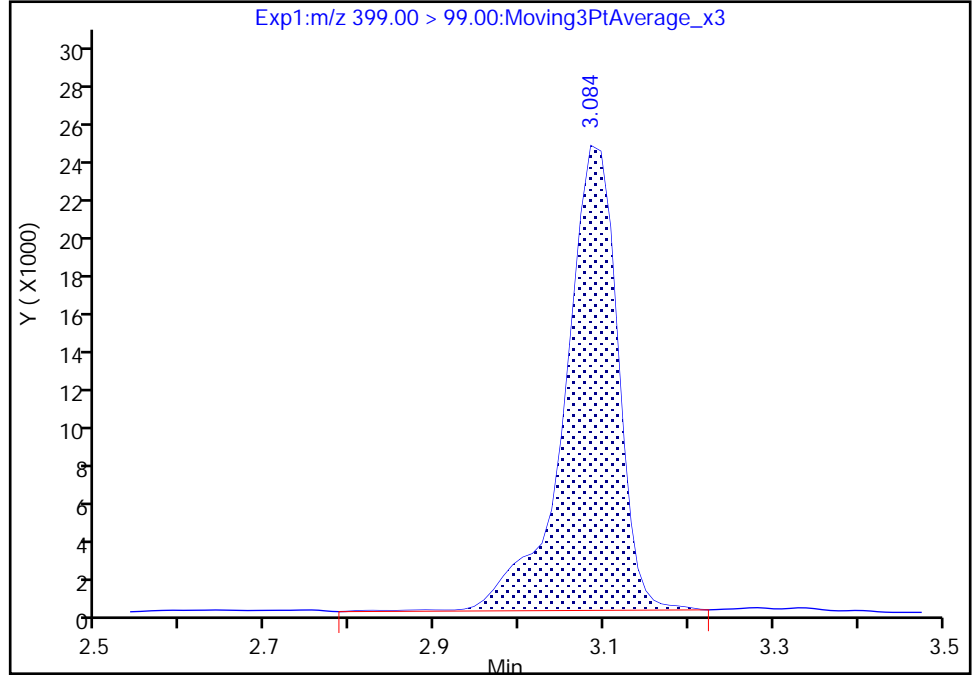
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d  
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812  
Lims ID: ICIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

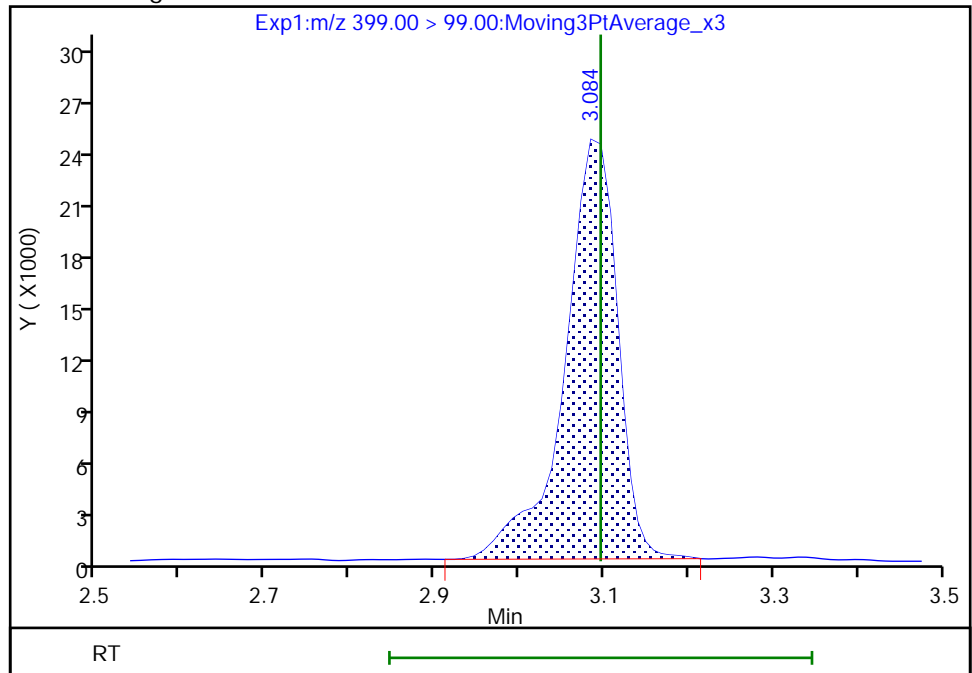
RT: 3.08  
Area: 106102  
Amount: 0.821704  
Amount Units: ng/ml

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

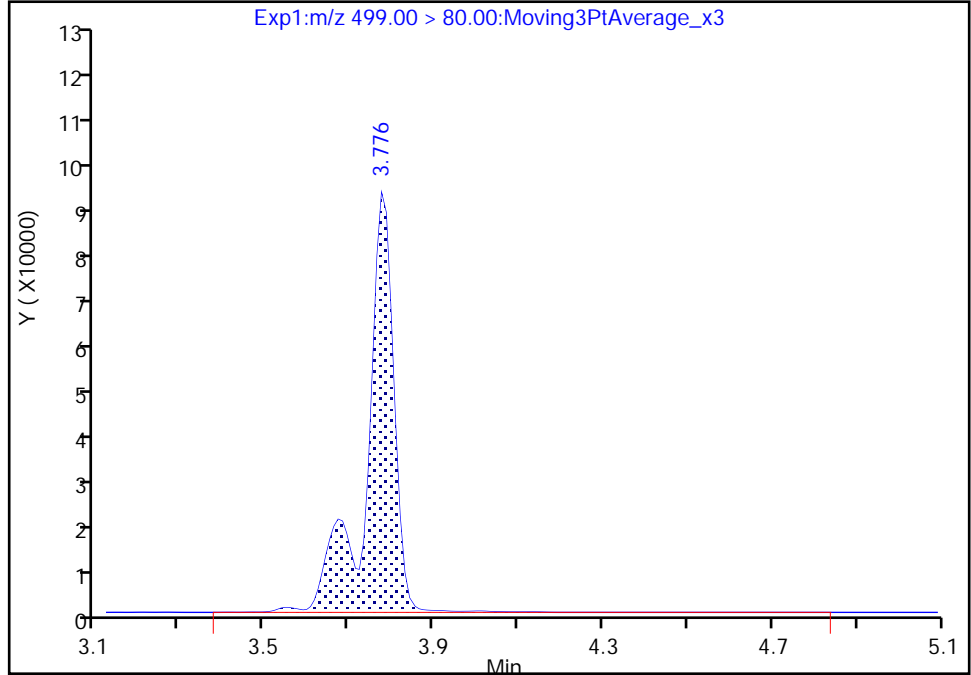
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d  
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812  
Lims ID: ICIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

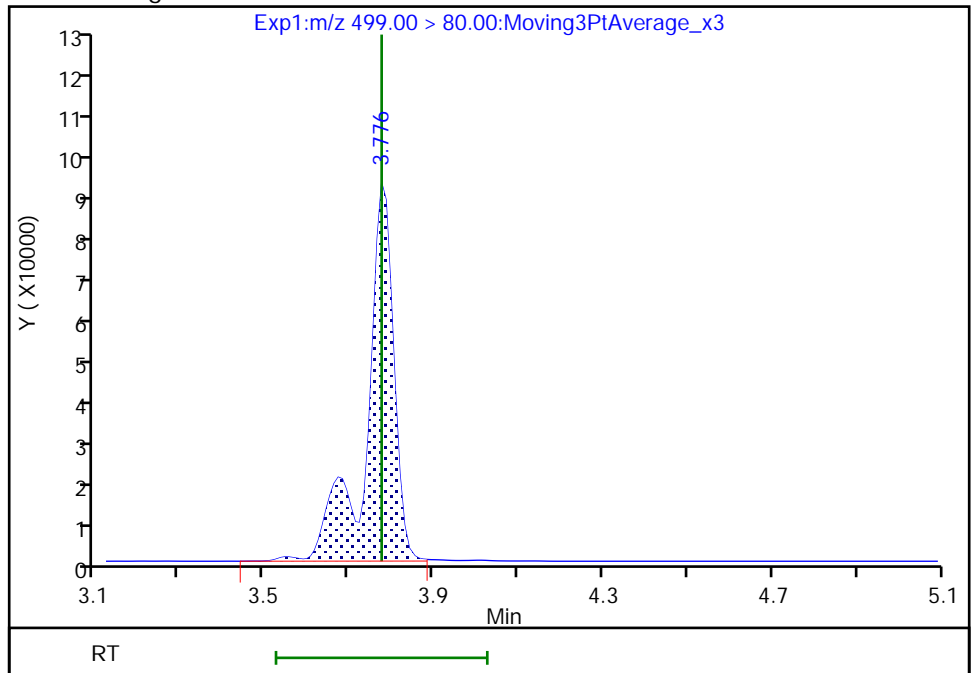
RT: 3.78  
Area: 412215  
Amount: 0.922486  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 408627  
Amount: 0.917373  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

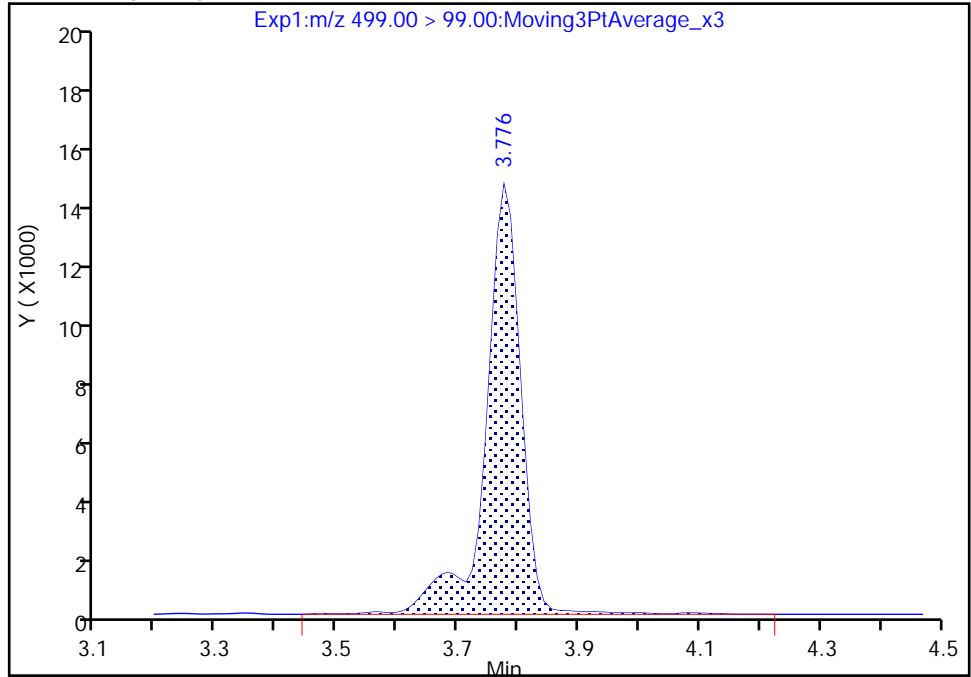
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d  
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812  
Lims ID: ICIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

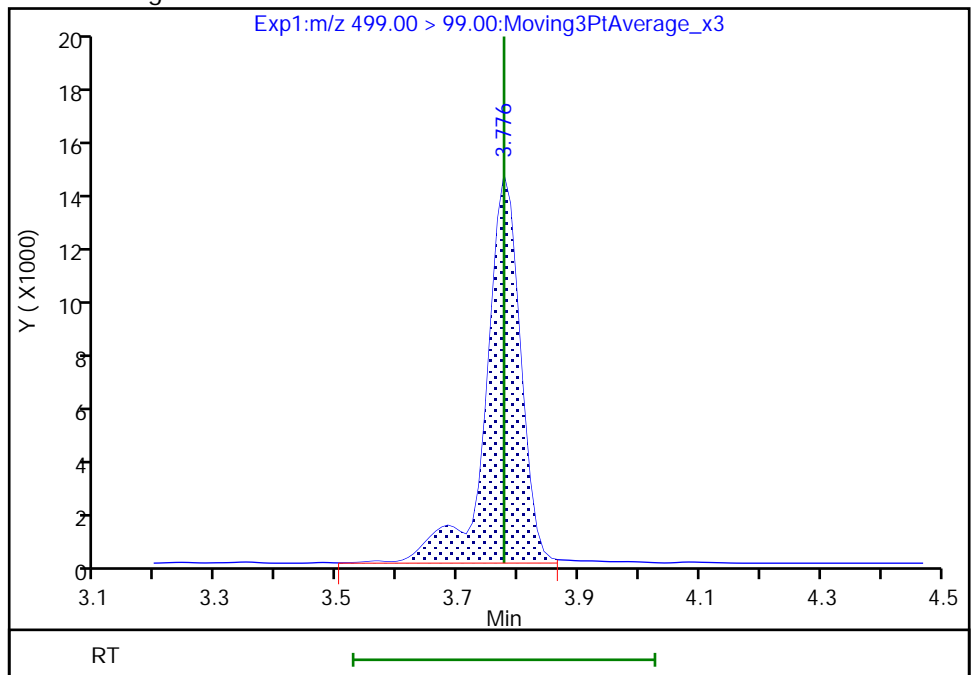
RT: 3.78  
Area: 58556  
Amount: 0.922486  
Amount Units: ng/ml

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

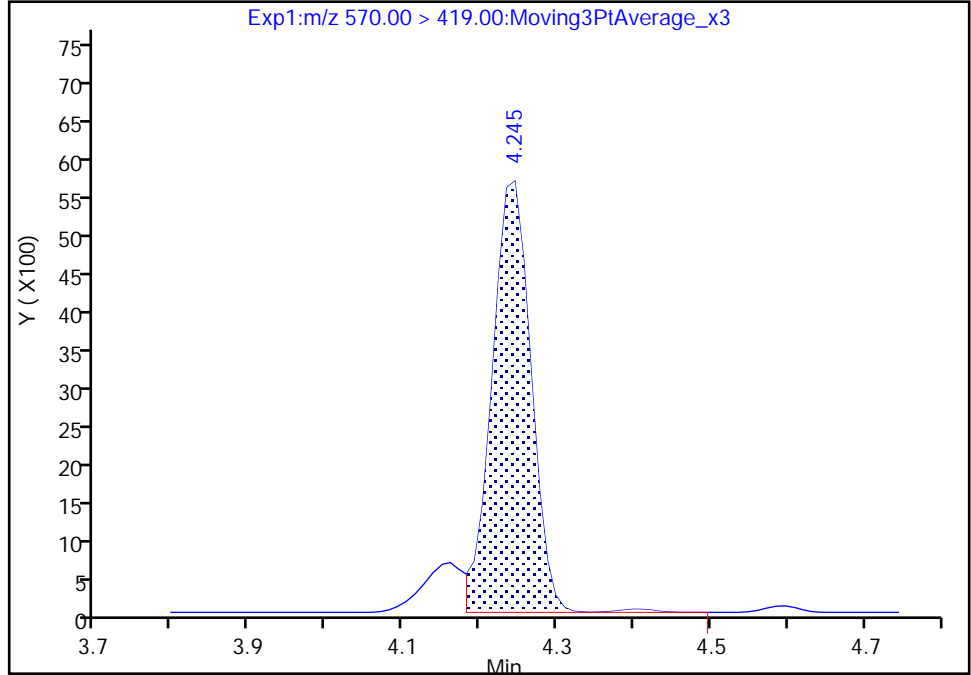
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d  
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812  
Lims ID: ICIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

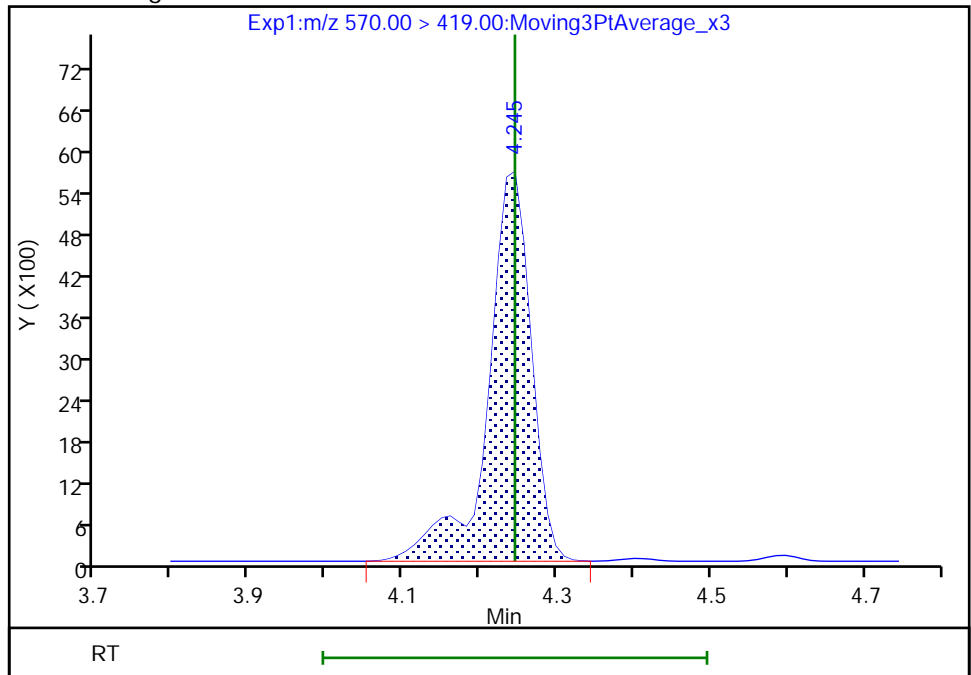
RT: 4.25  
Area: 19829  
Amount: 0.886625  
Amount Units: ng/ml

Processing Integration Results



RT: 4.25  
Area: 22030  
Amount: 0.940374  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

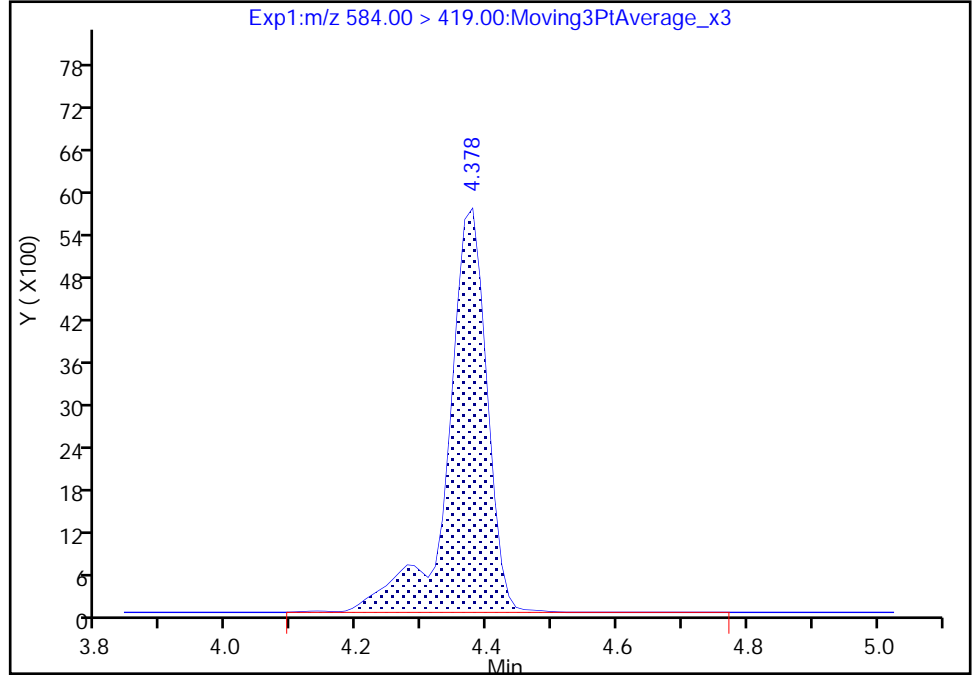
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL08.d  
Injection Date: 22-Sep-2020 19:55:23 Instrument ID: LC812  
Lims ID: ICIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 5 Worklist Smp#: 8  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

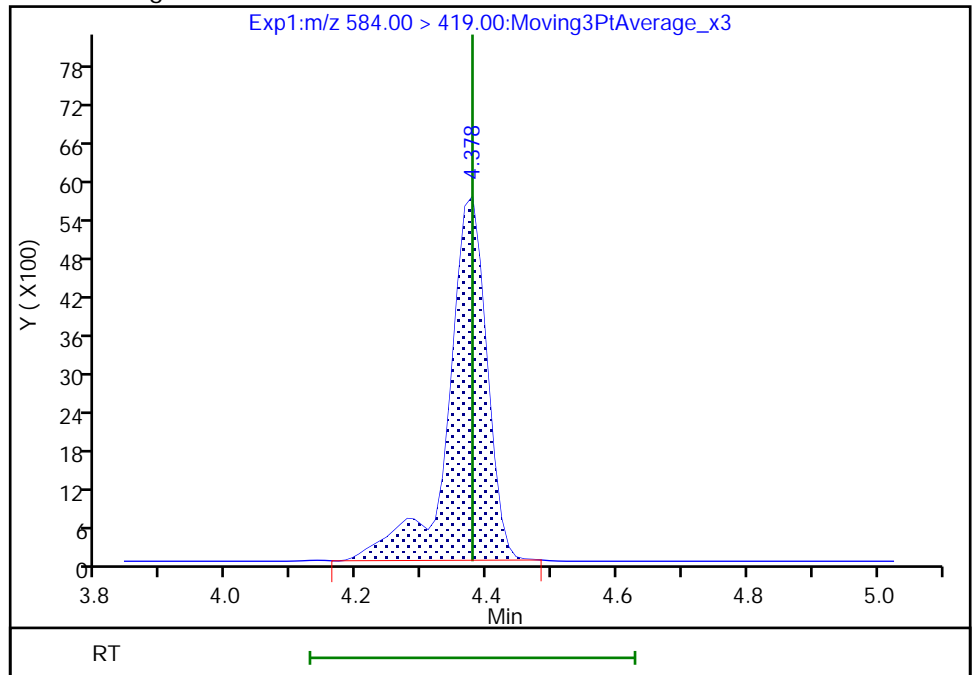
RT: 4.38  
Area: 24062  
Amount: 0.995004  
Amount Units: ng/ml

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	

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 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

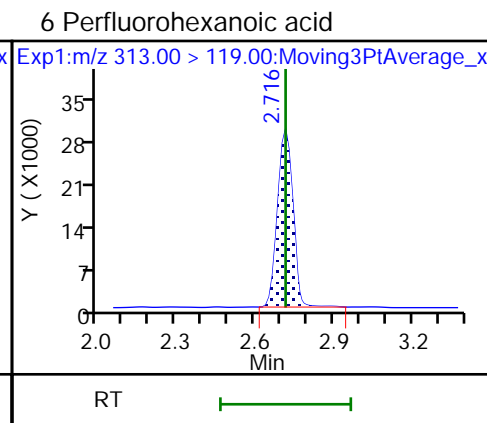
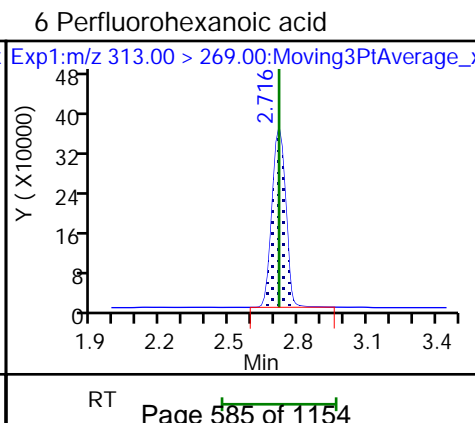
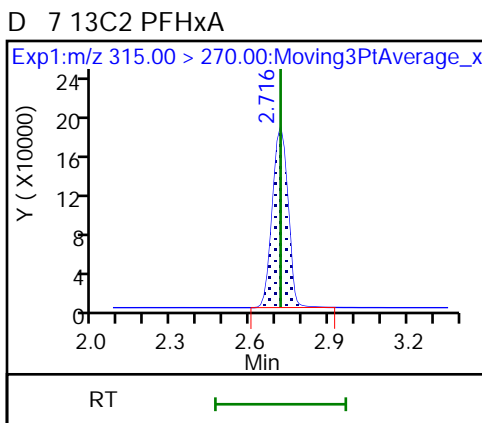
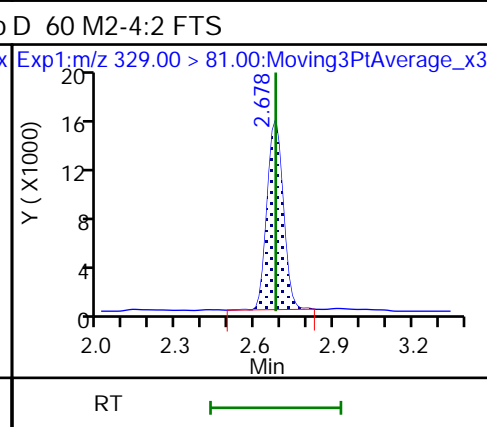
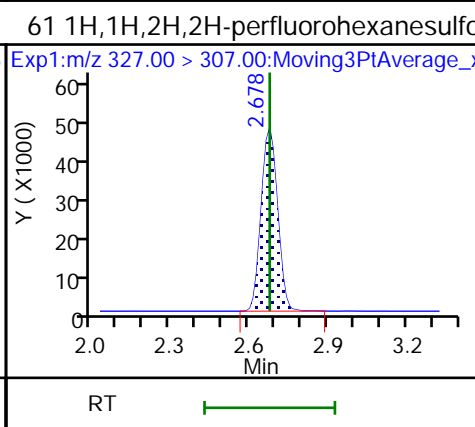
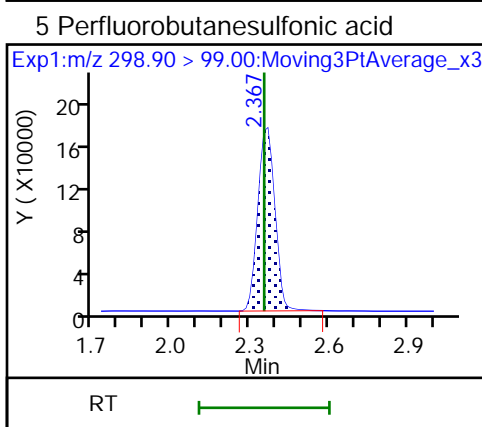
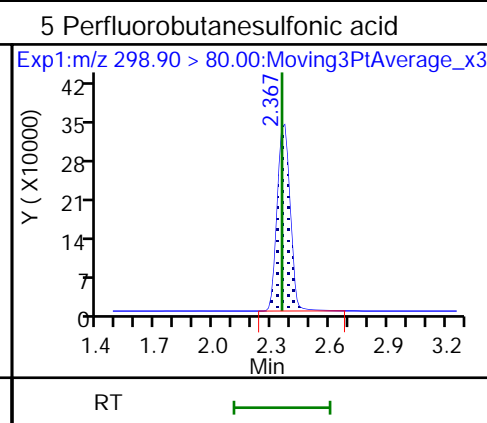
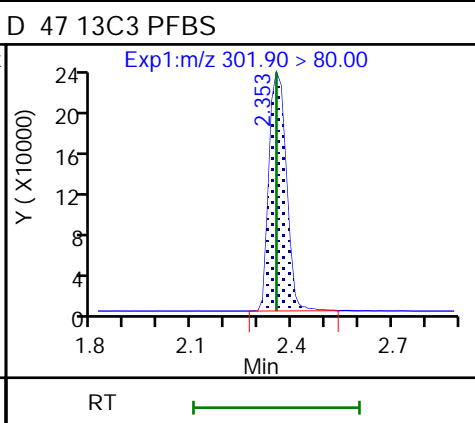
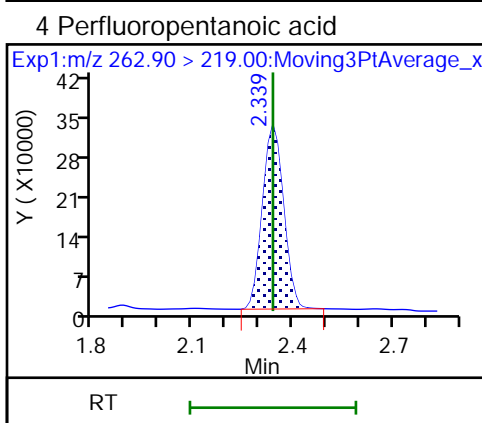
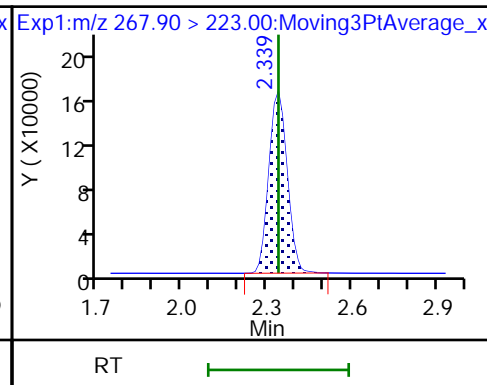
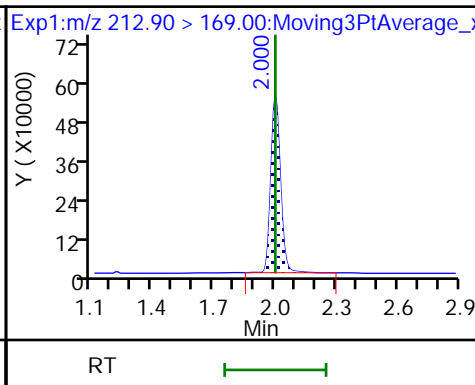
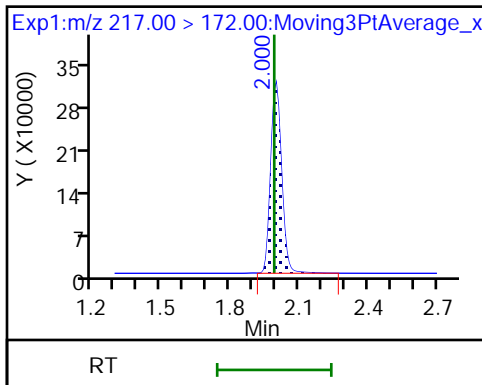
Method: PFC\_LC812

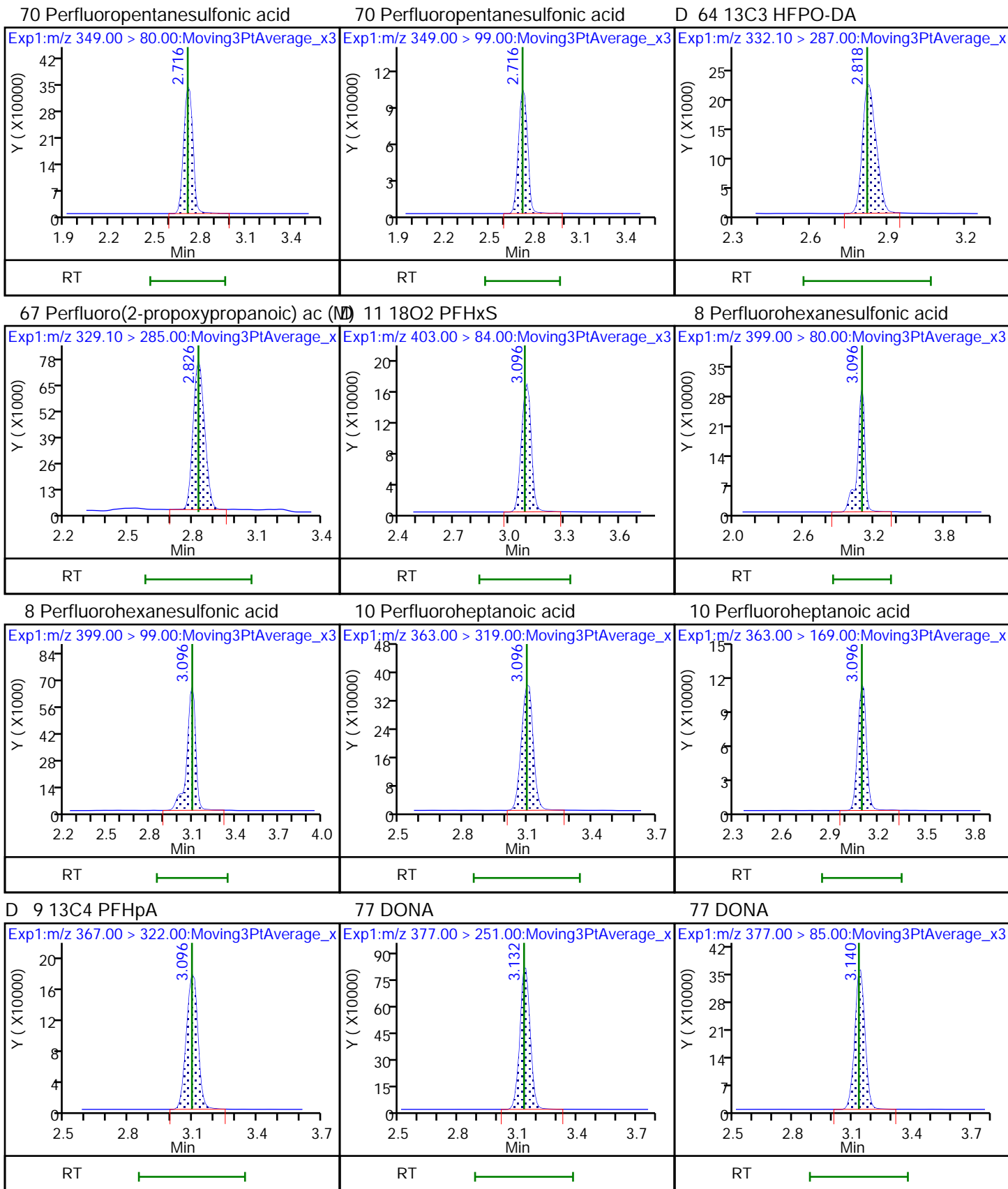
Limit Group: LC\_PFC\_ICAL

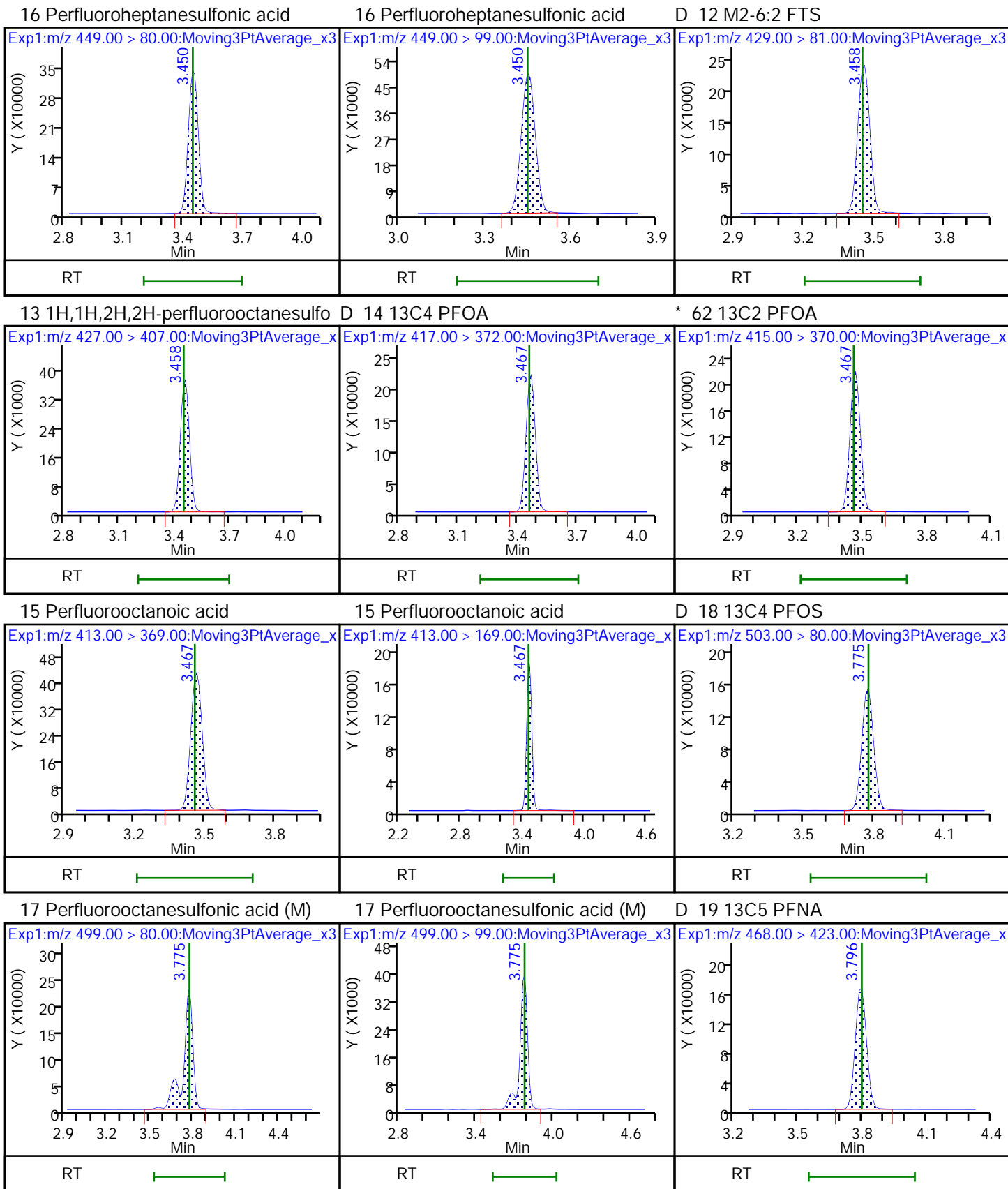
D 1 13C4 PFBA

2 Perfluorobutanoic acid

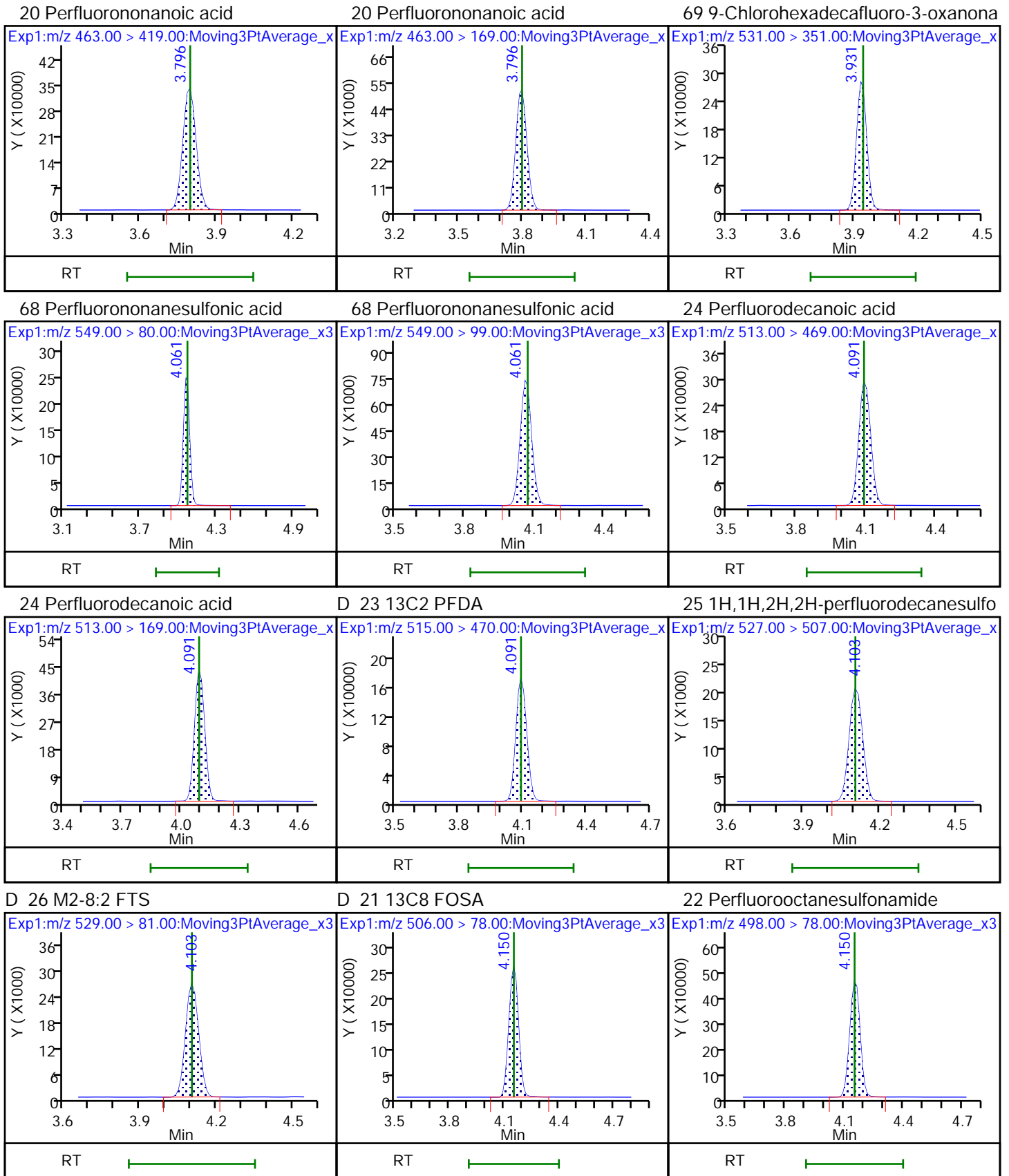
D 3 13C5 PFPeA





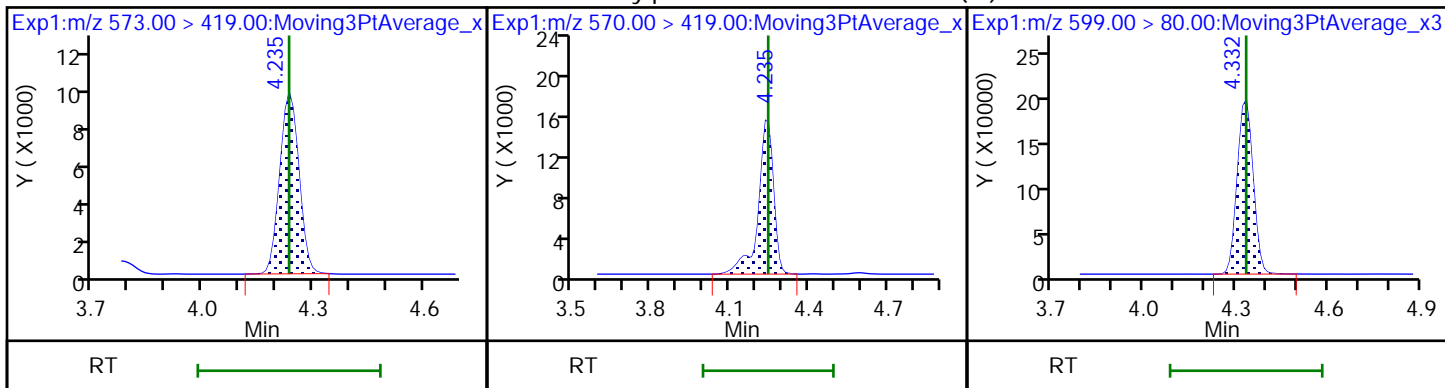






D 27 d3-NMeFOSAA

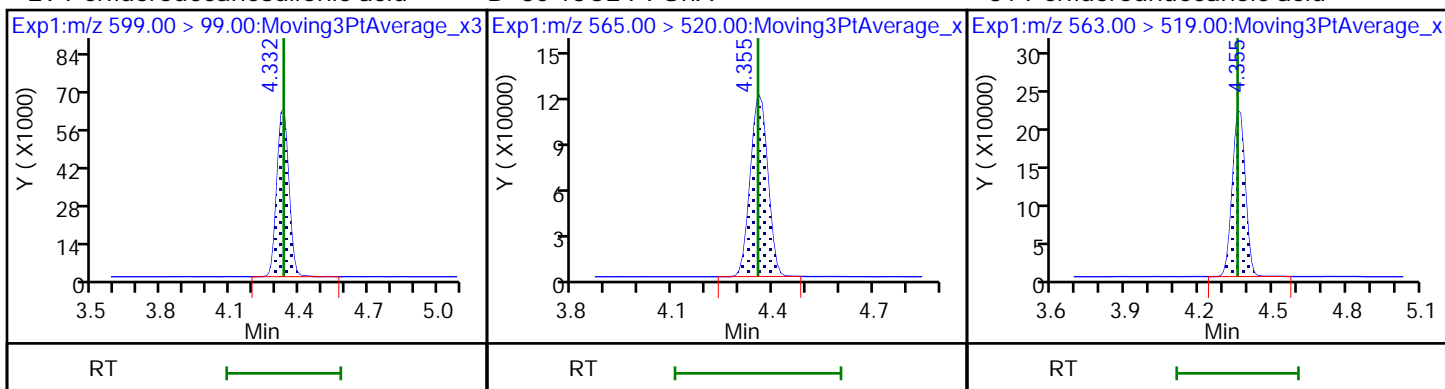
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

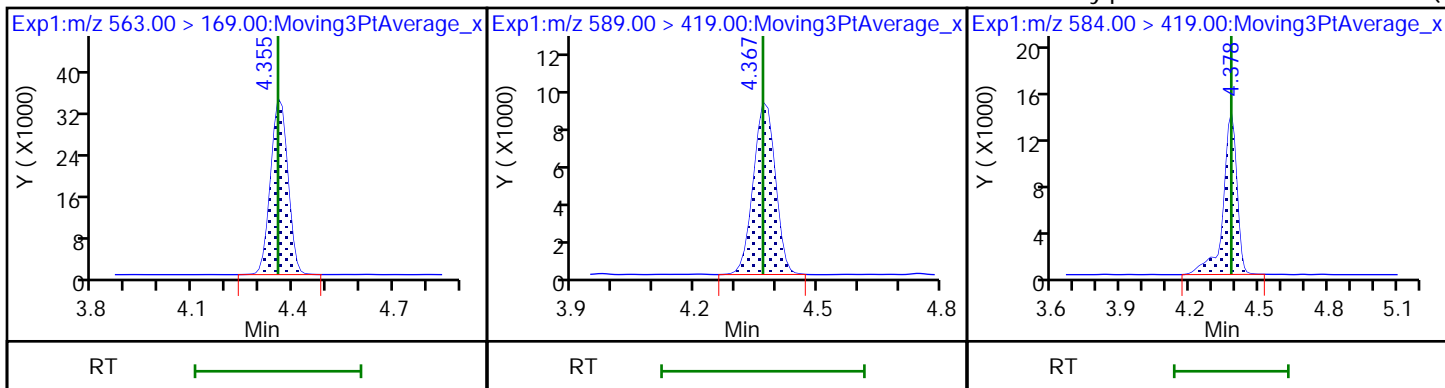
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

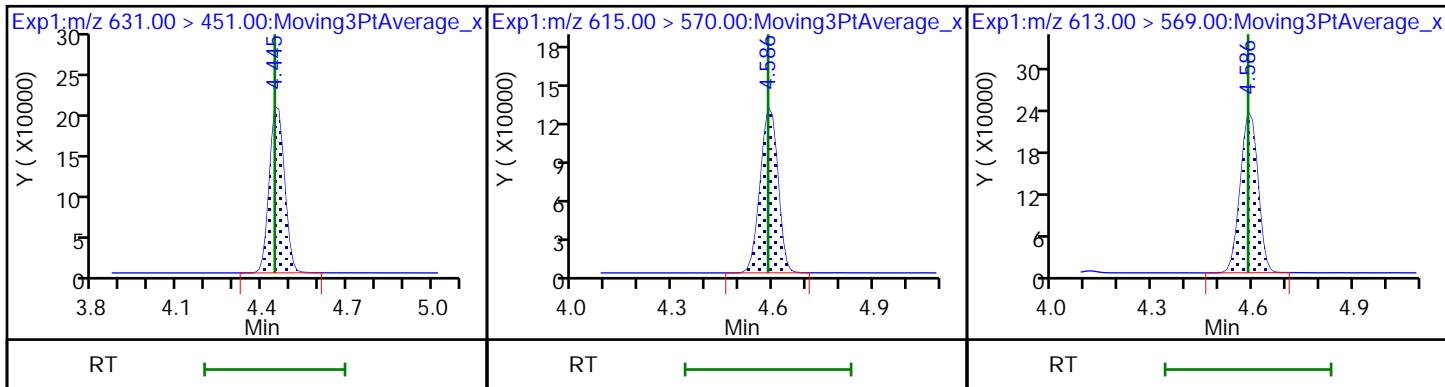
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

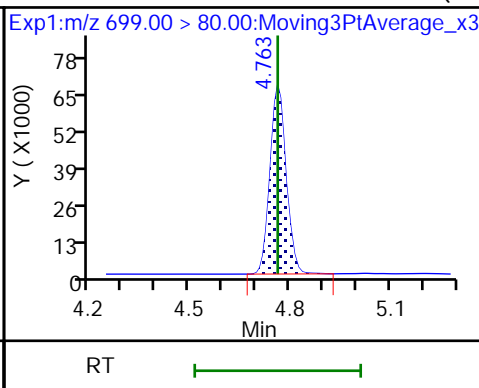
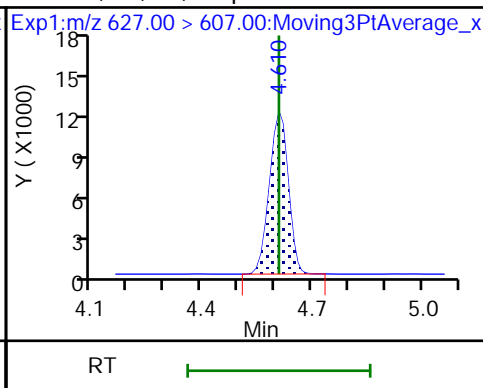
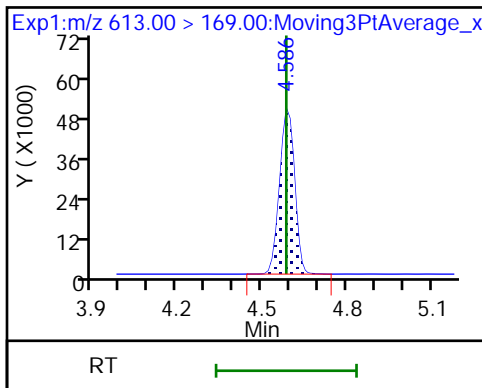
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

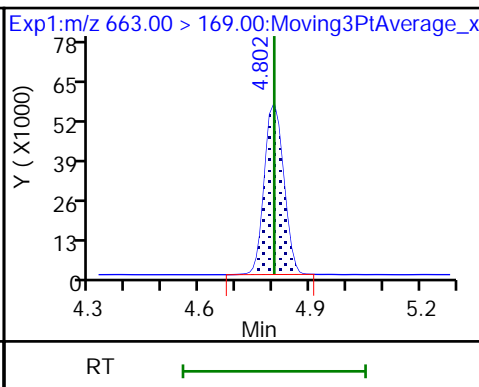
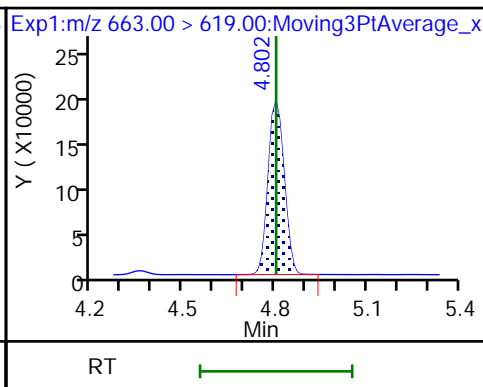
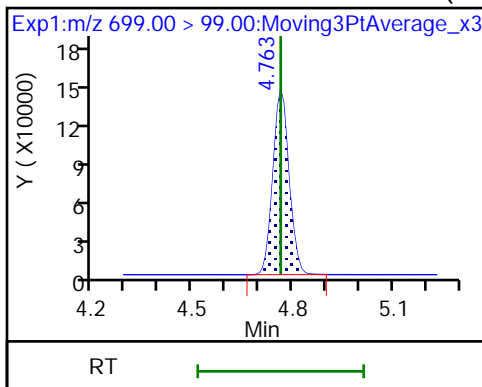
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

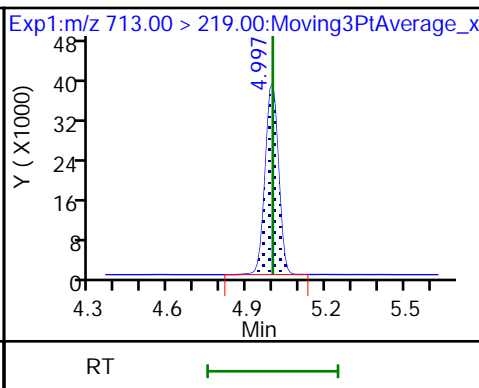
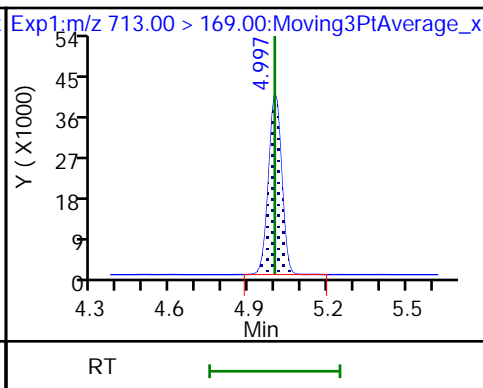
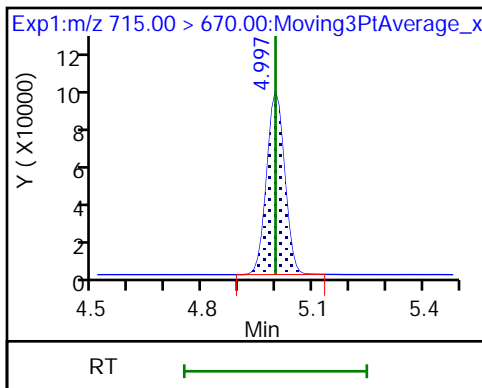
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

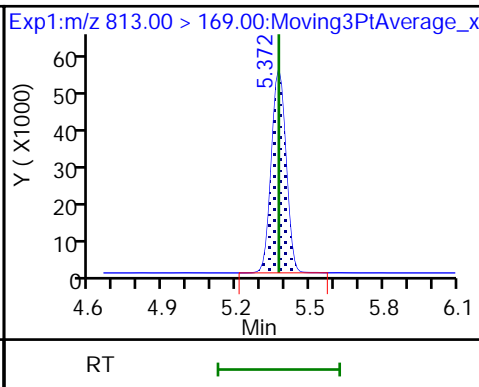
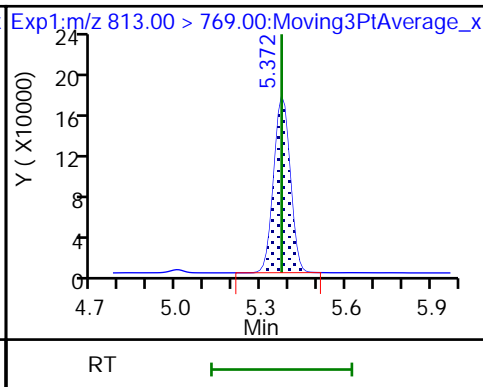
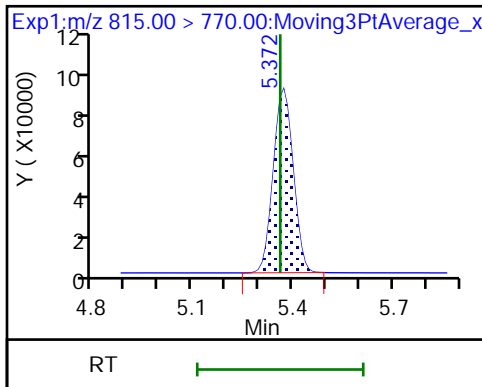
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

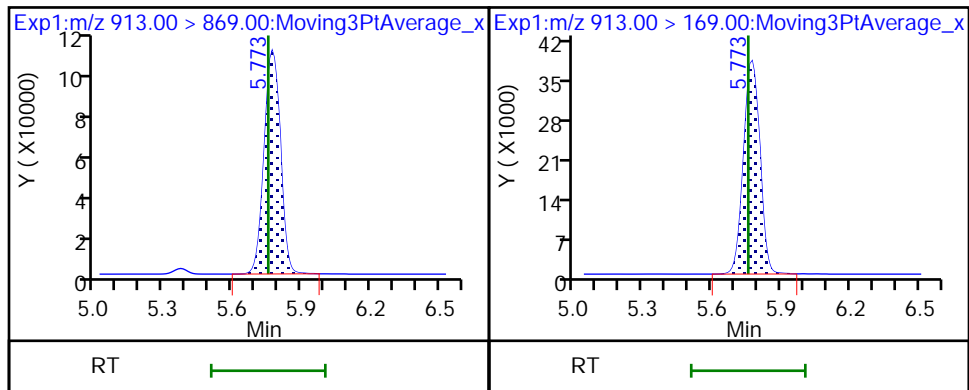
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

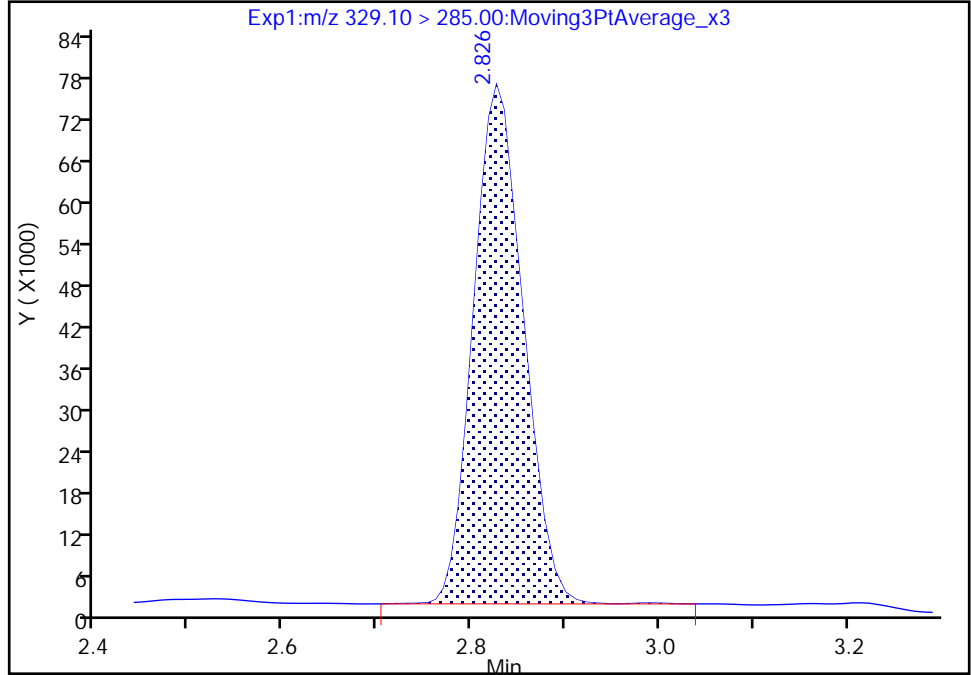
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d  
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

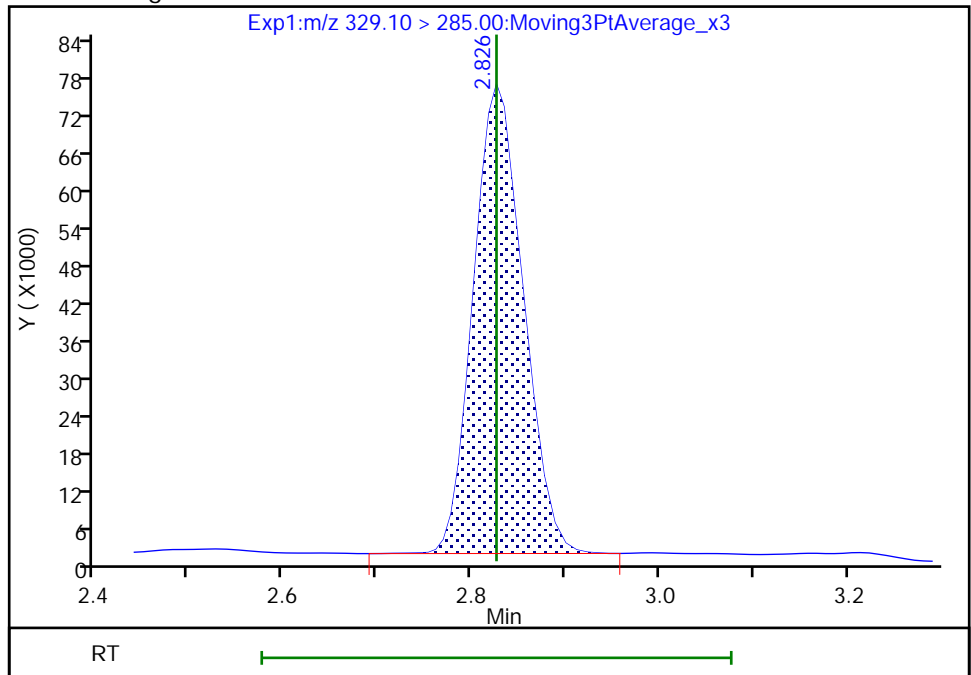
RT: 2.83  
Area: 276144  
Amount: 1.958305  
Amount Units: ng/ml

Processing Integration Results



RT: 2.83  
Area: 275773  
Amount: 2.026380  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

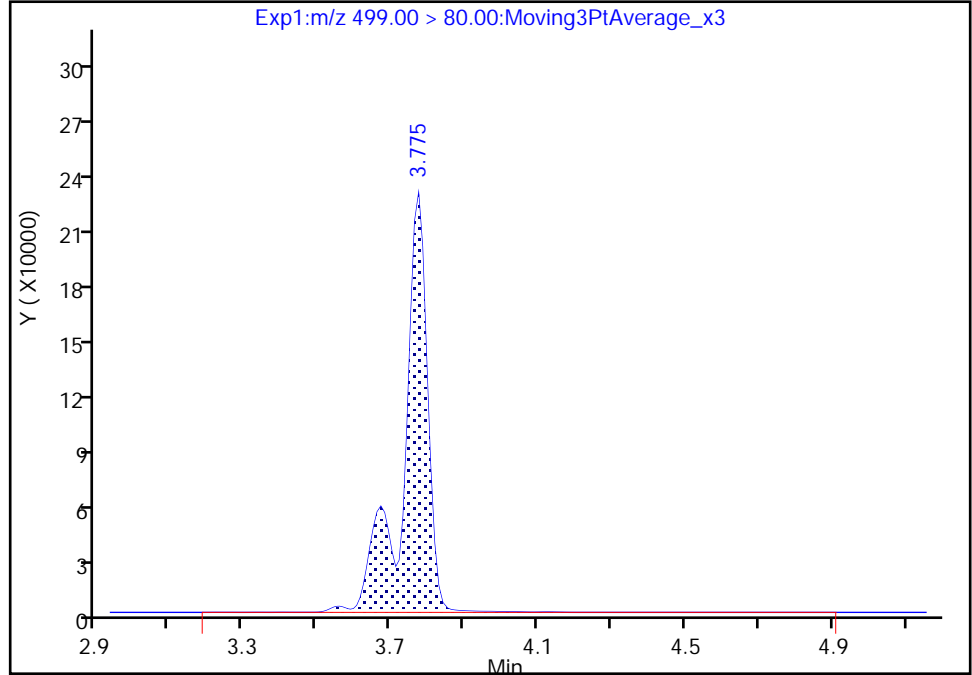
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d  
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

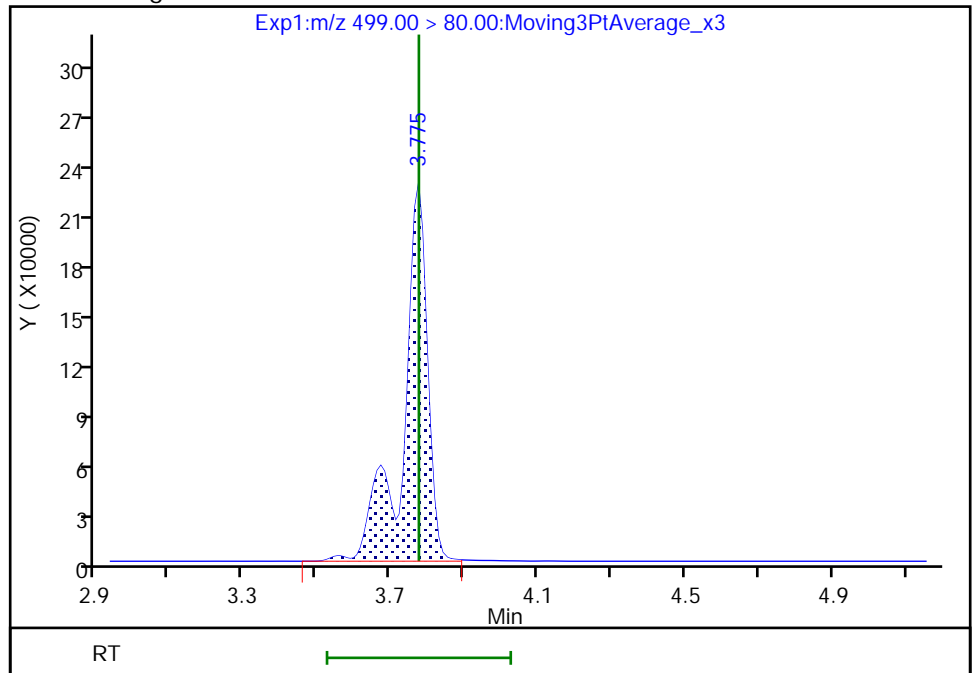
RT: 3.78  
Area: 1061660  
Amount: 2.182170  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 1055393  
Amount: 2.173070  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

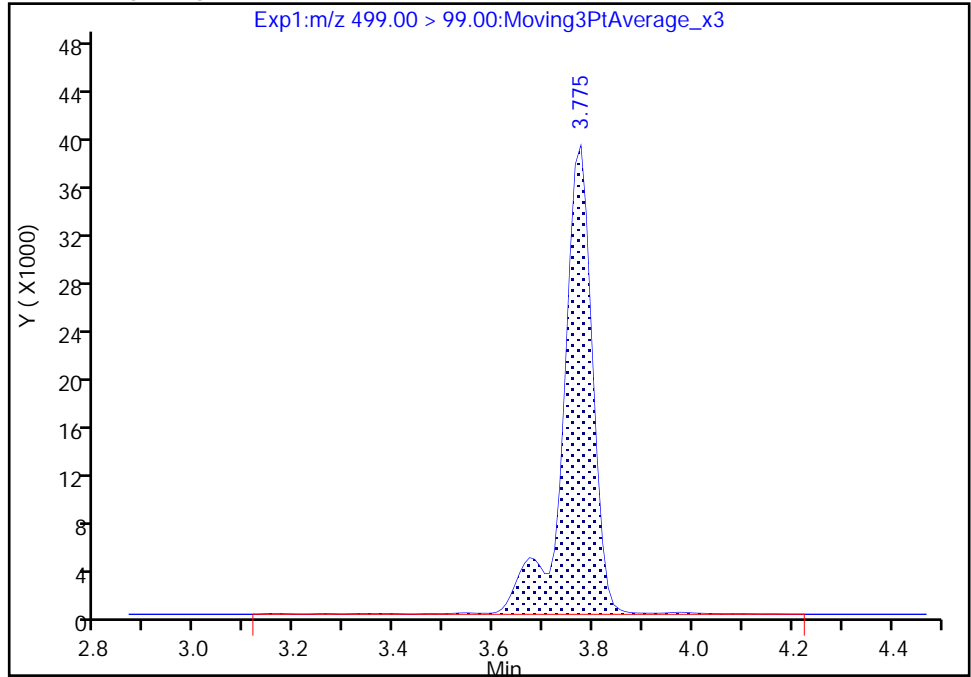
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d  
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

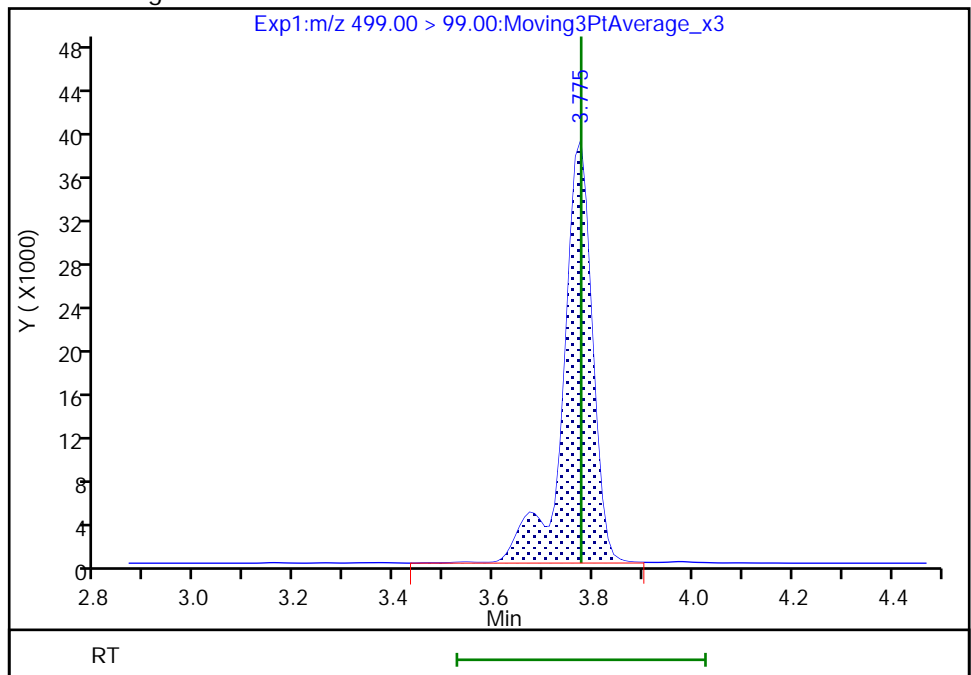
RT: 3.78  
Area: 162495  
Amount: 2.182170  
Amount Units: ng/ml

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

Euofins TestAmerica, Burlington

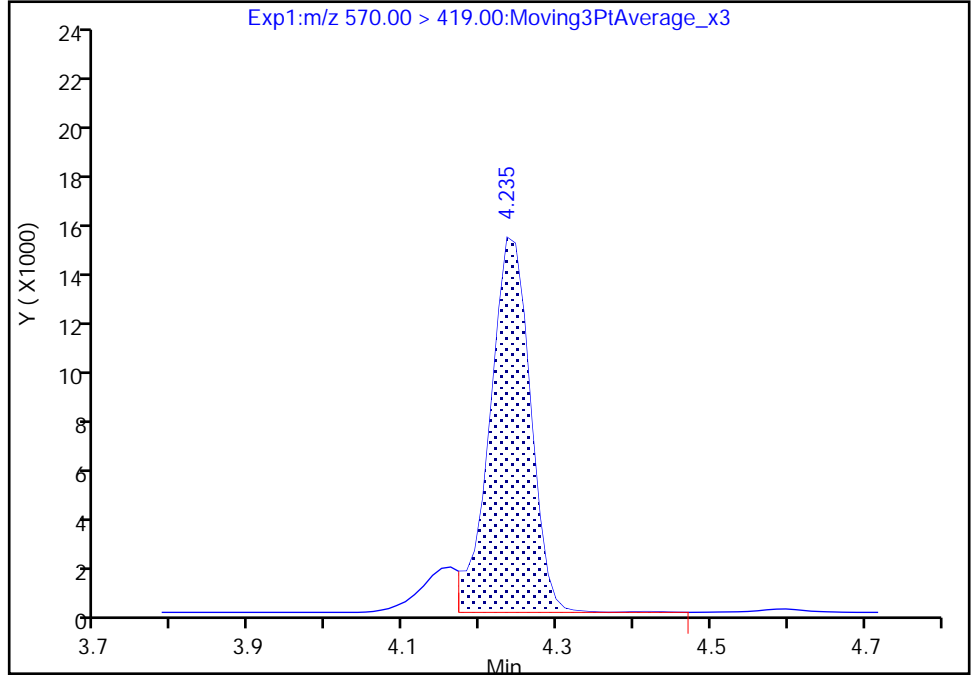
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d  
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

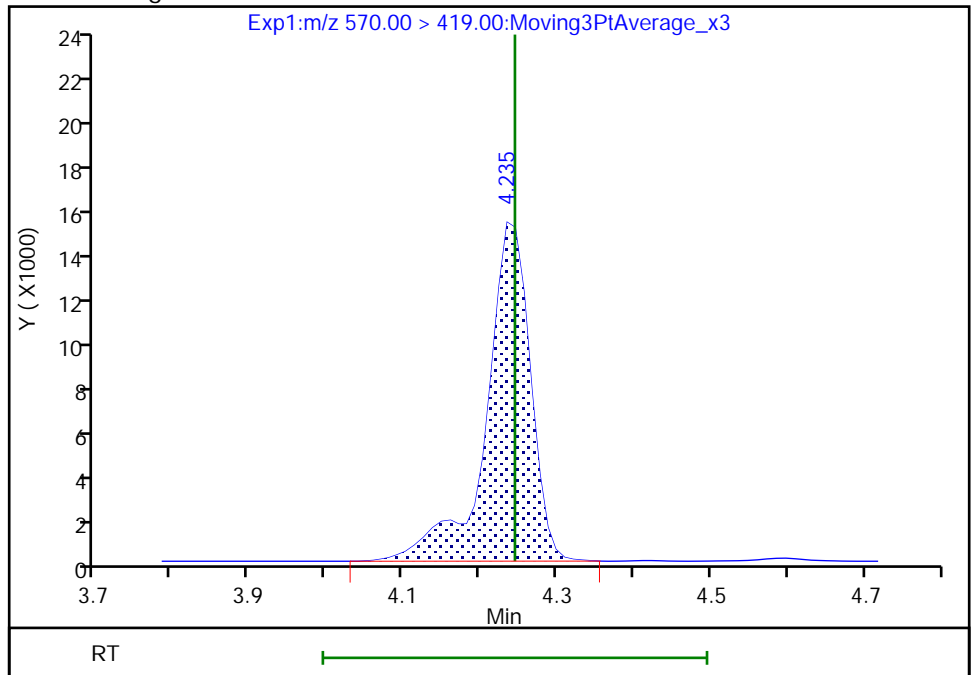
RT: 4.24  
Area: 54107  
Amount: 2.238450  
Amount Units: ng/ml

Processing Integration Results



RT: 4.24  
Area: 59827  
Amount: 2.401618  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

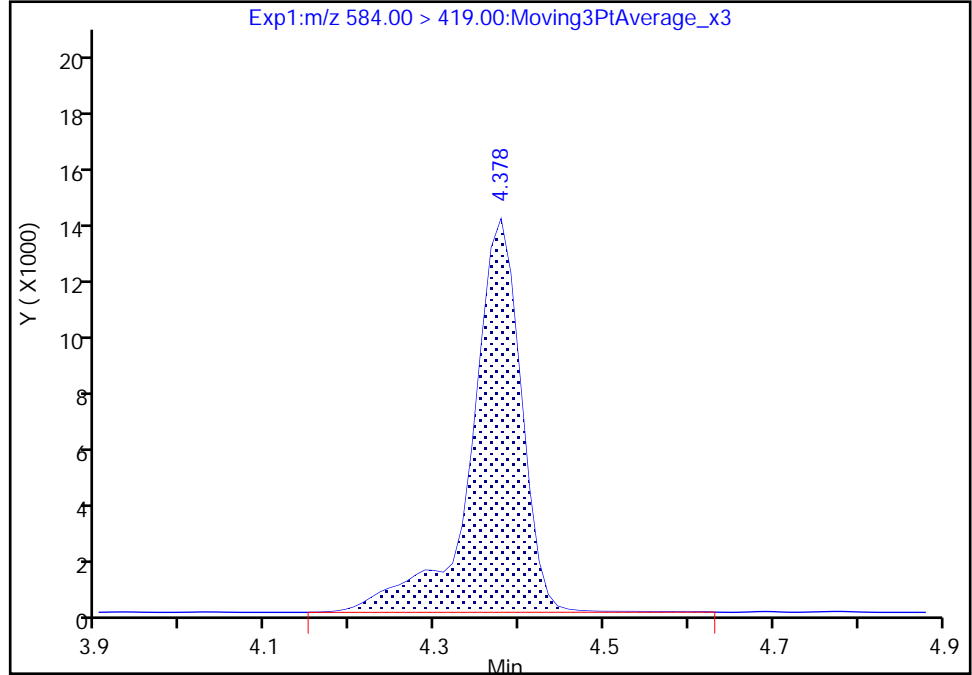
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL09.d  
Injection Date: 22-Sep-2020 20:03:40 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 6 Worklist Smp#: 9  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

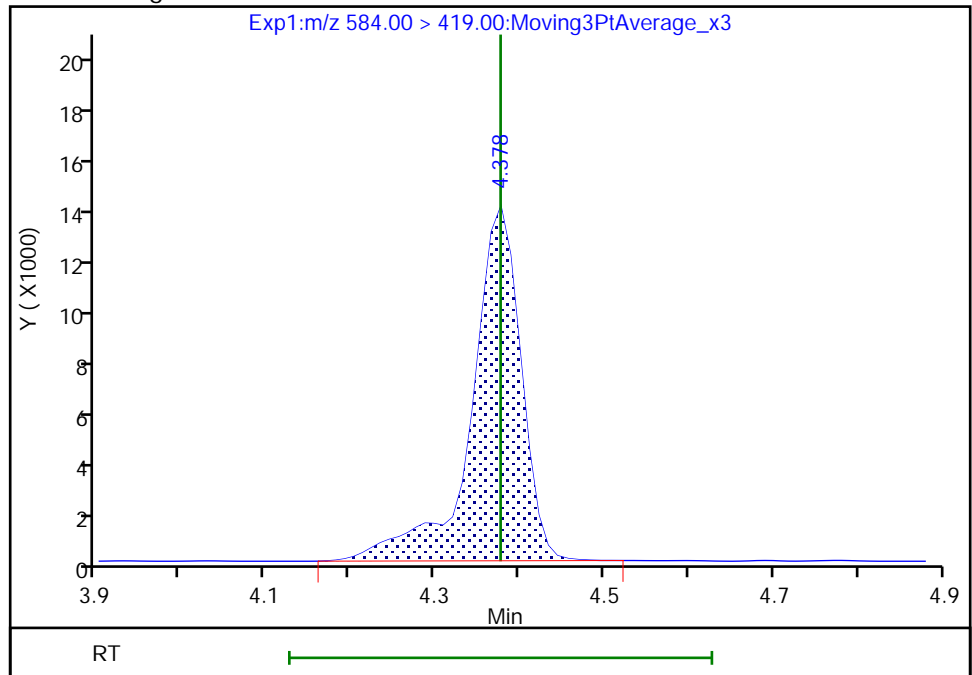
RT: 4.38  
Area: 56171  
Amount: 2.248187  
Amount Units: ng/ml

Processing Integration Results



RT: 4.38  
Area: 55787  
Amount: 2.237037  
Amount Units: ng/ml

Manual Integration Results



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

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										
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

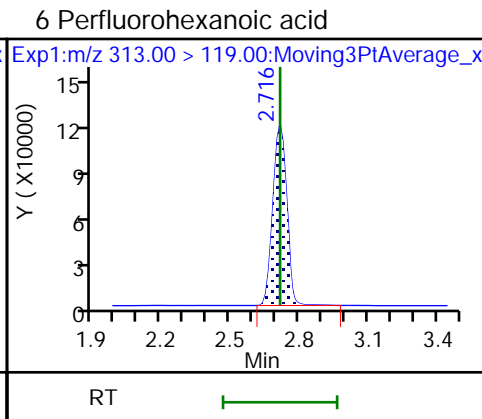
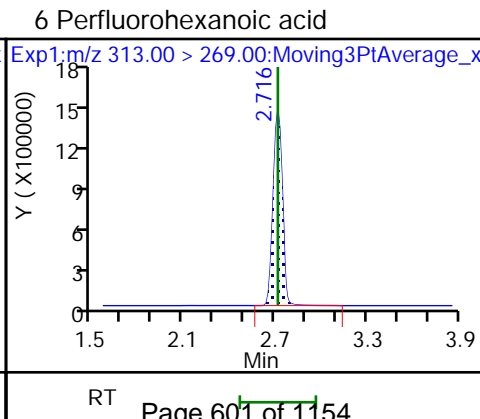
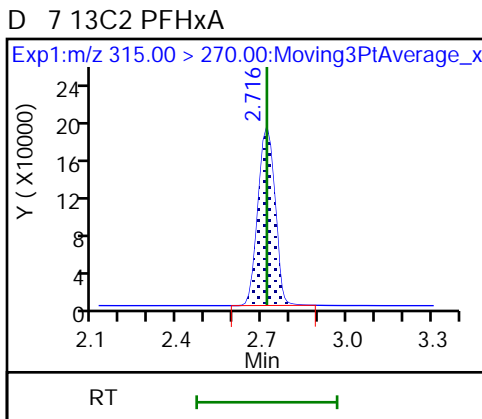
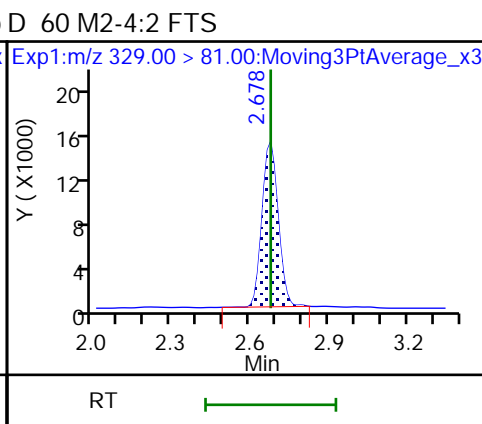
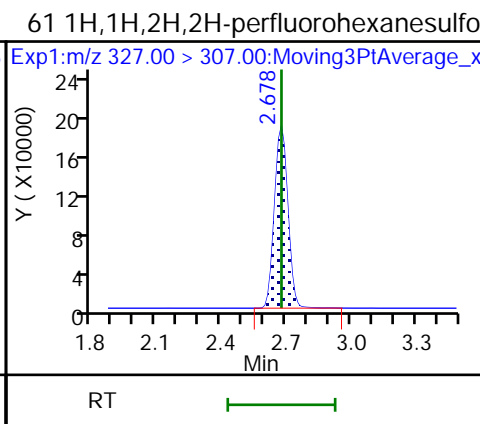
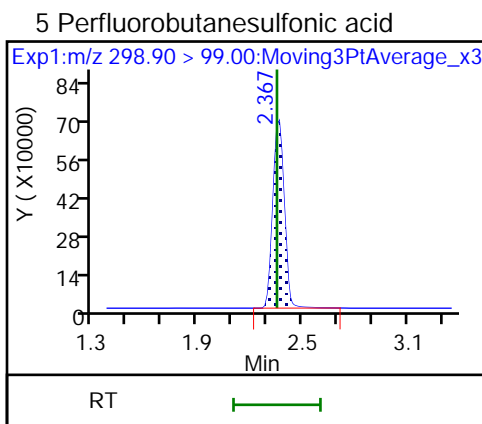
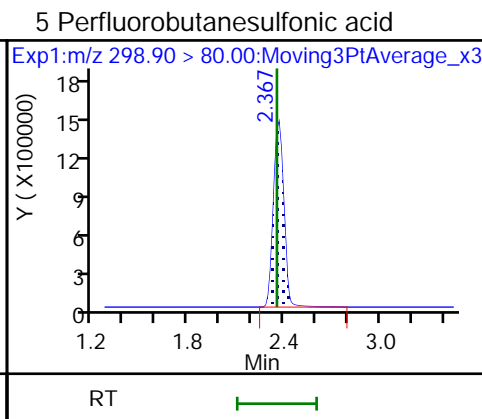
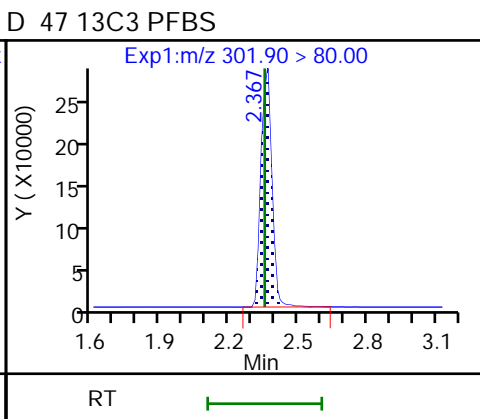
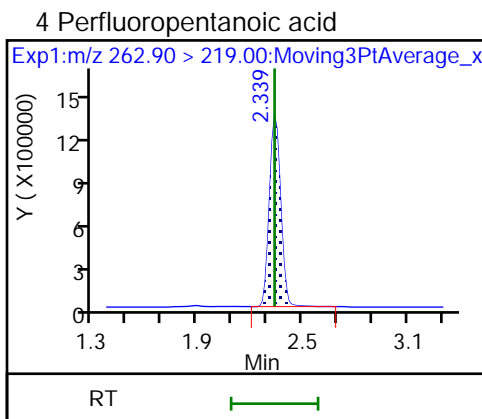
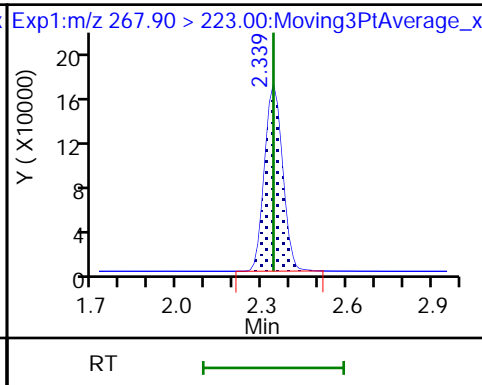
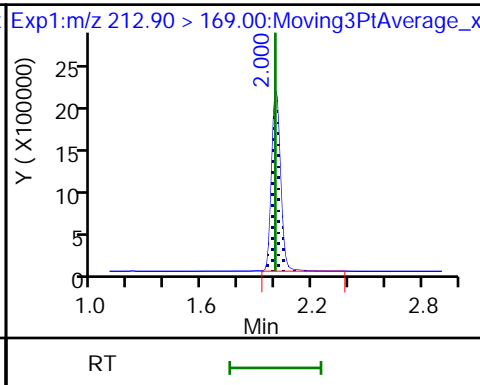
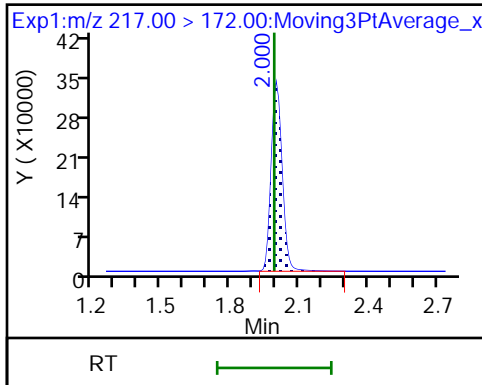
Method: PFC\_LC812

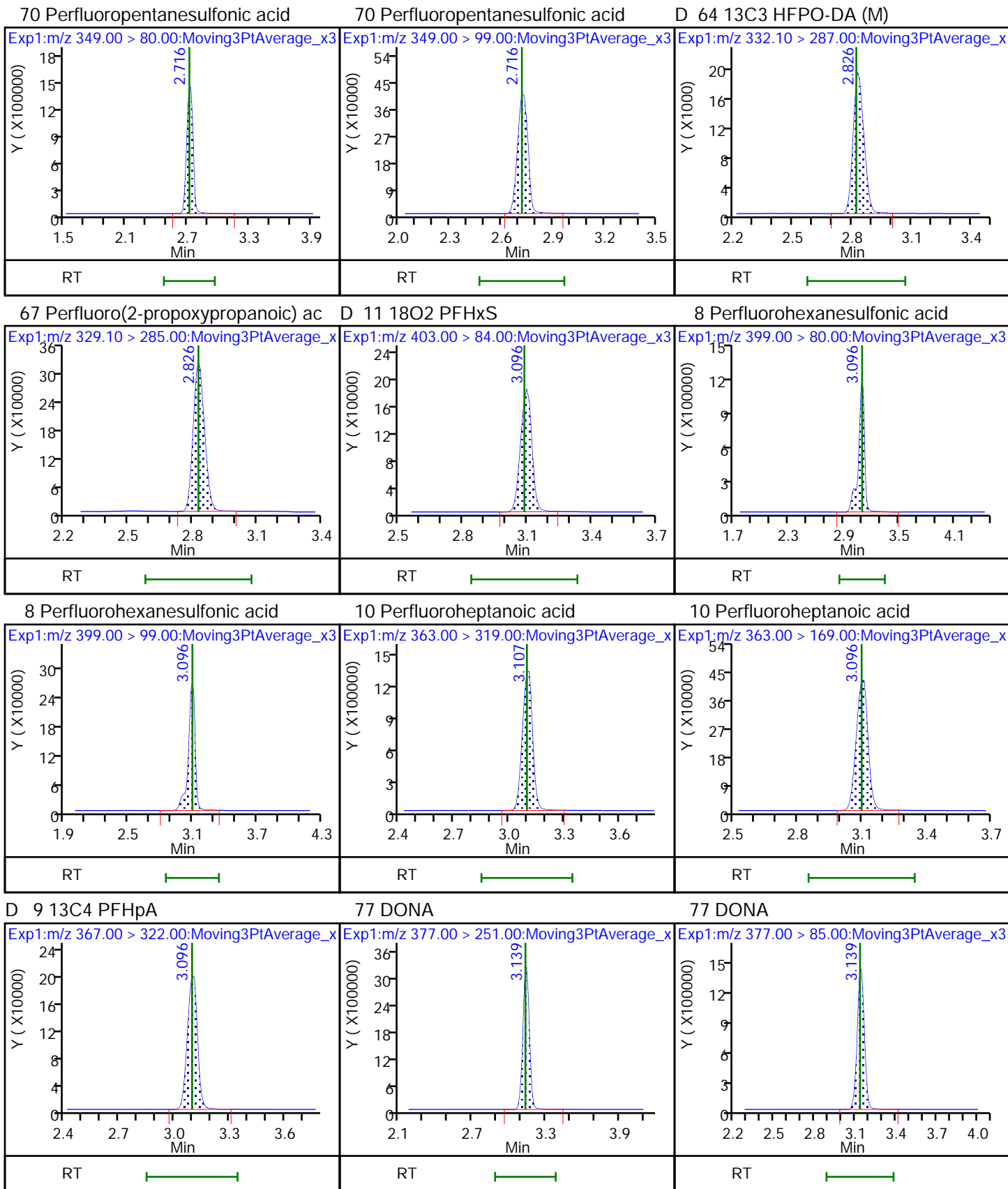
Limit Group: LC\_PFC\_ICAL

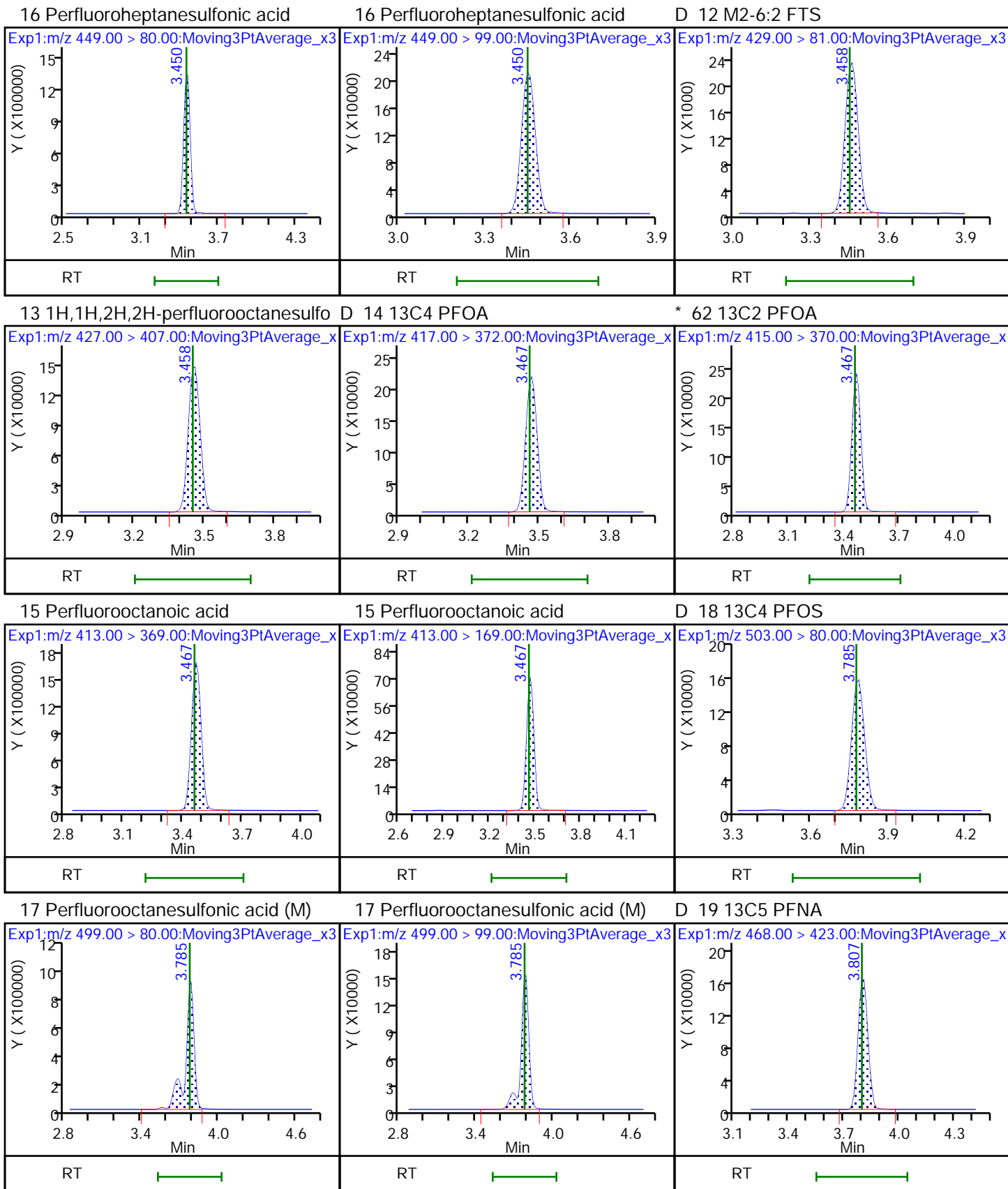
D 1 13C4 PFBA

2 Perfluorobutanoic acid

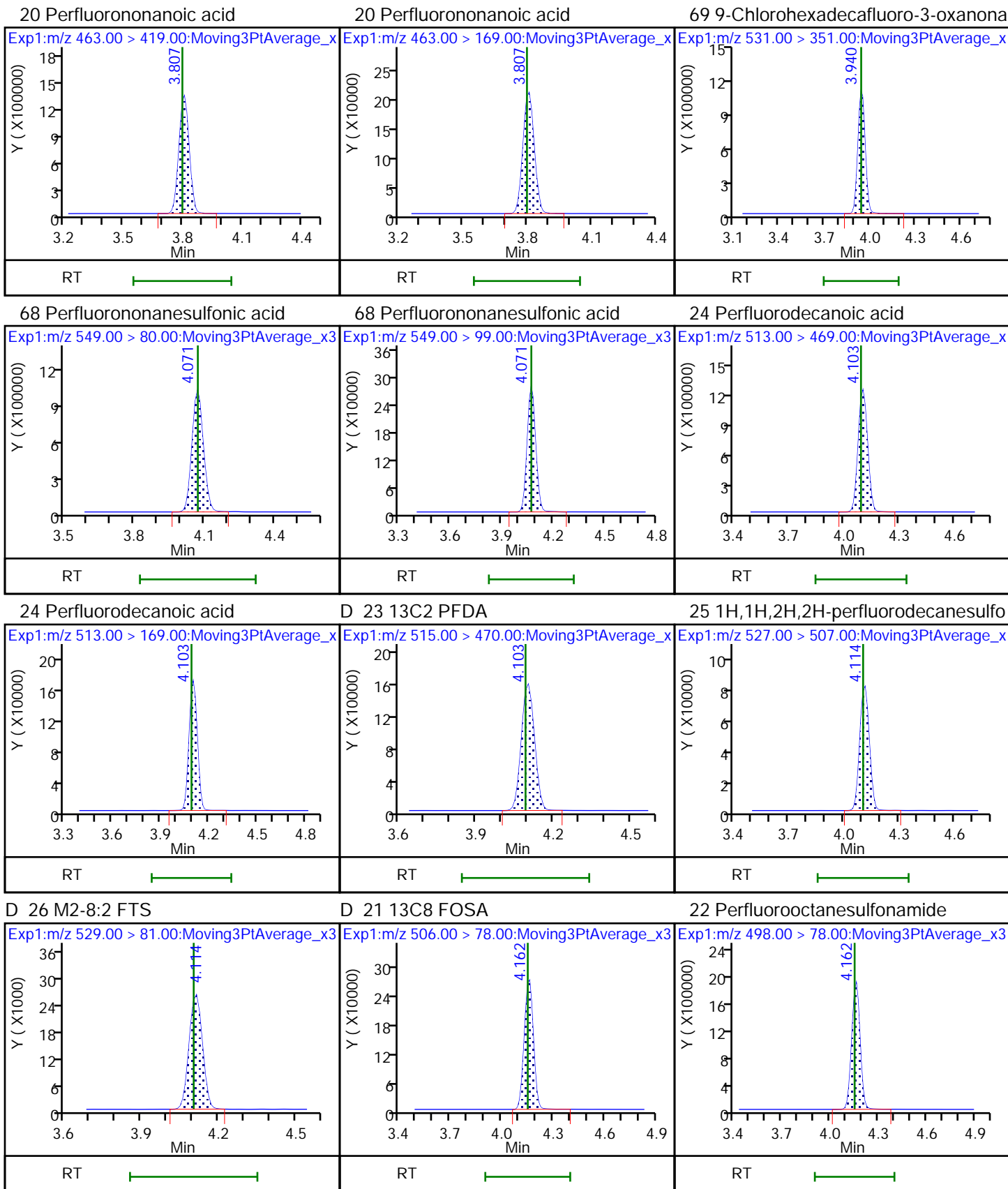
D 3 13C5 PFPeA





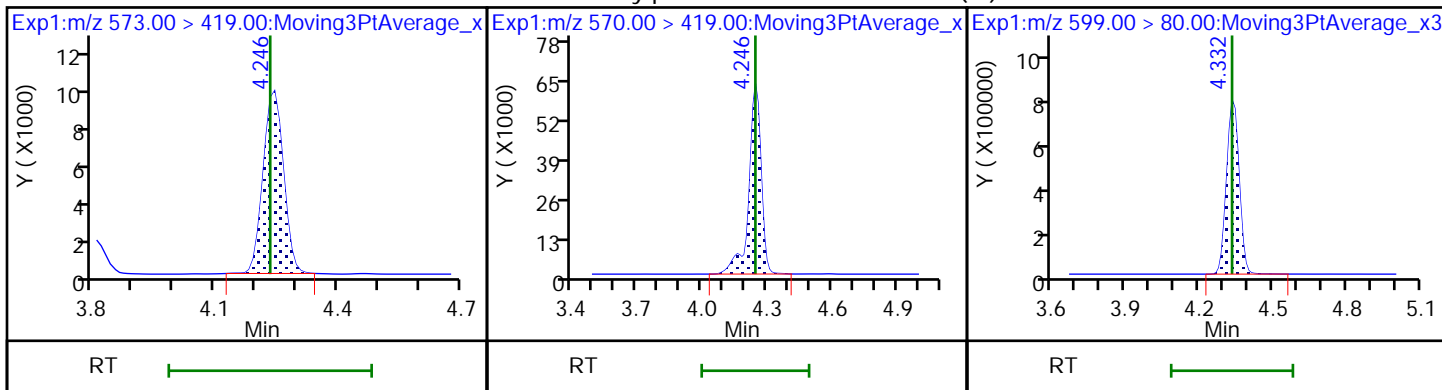






D 27 d3-NMeFOSAA

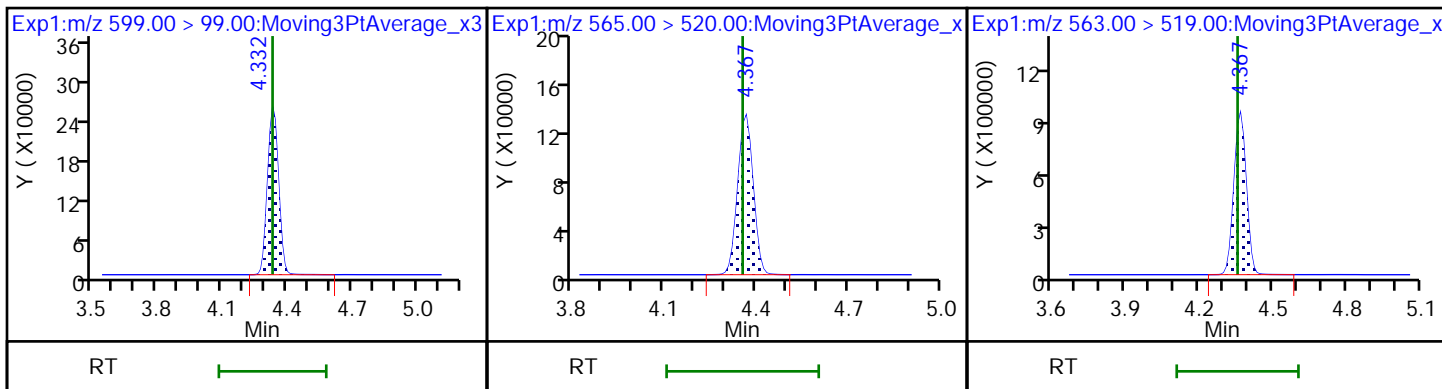
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

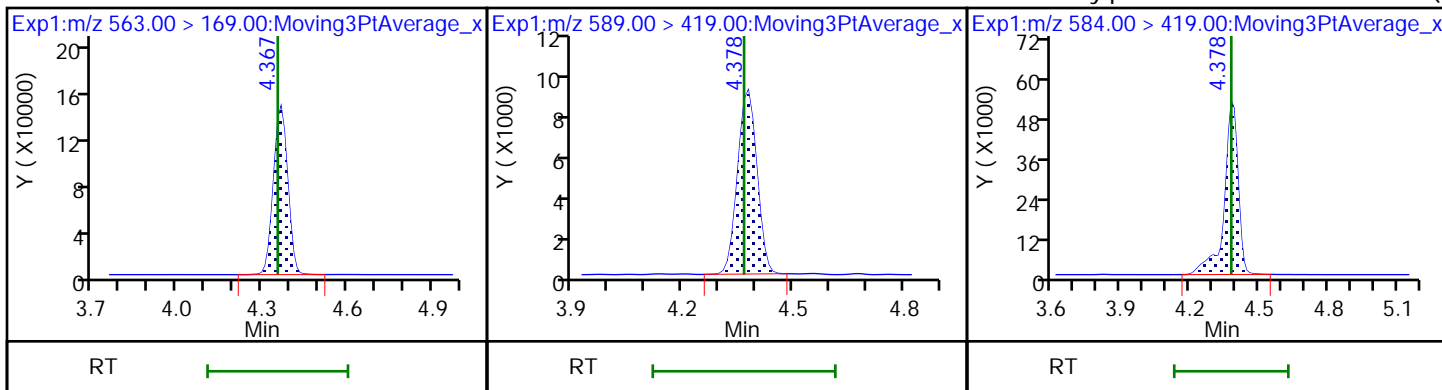
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

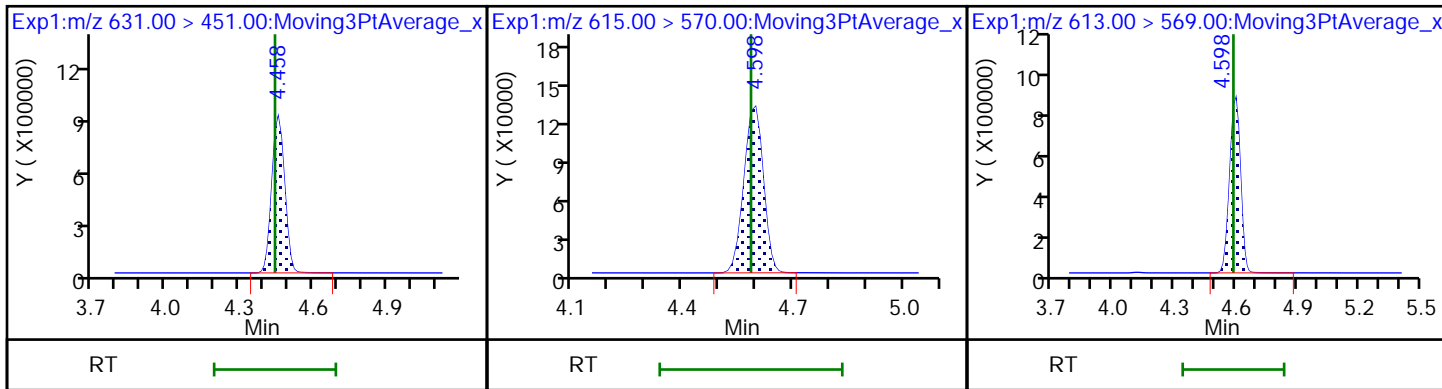
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

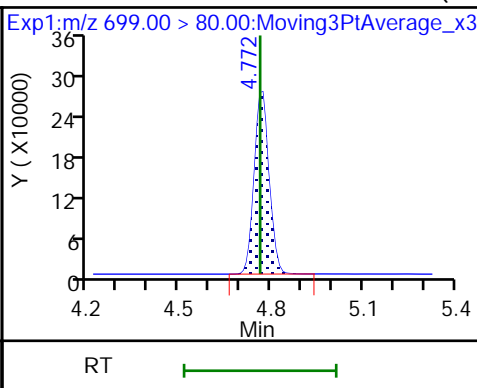
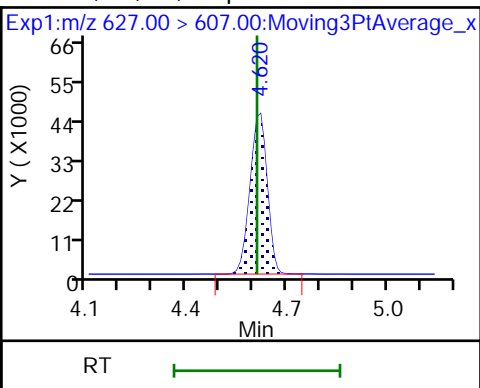
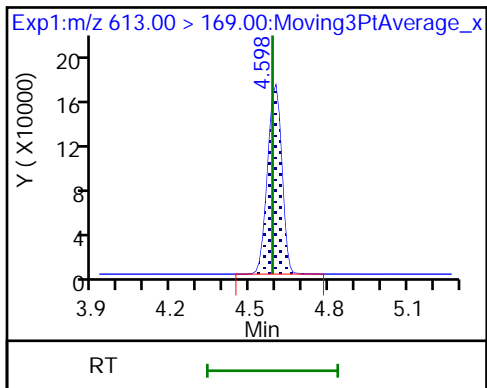
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

74 1H,1H,2H,2H-perfluorododecanesul

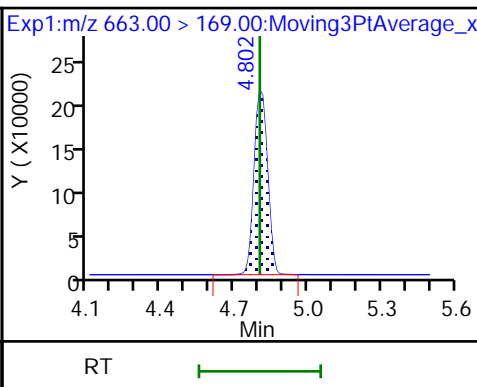
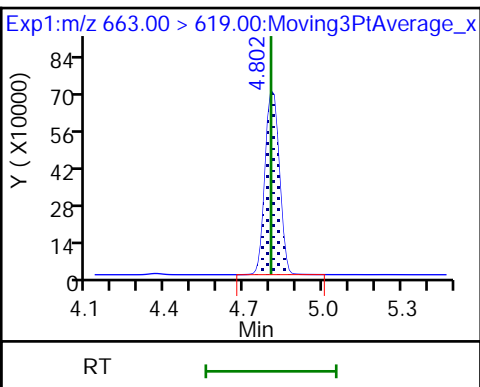
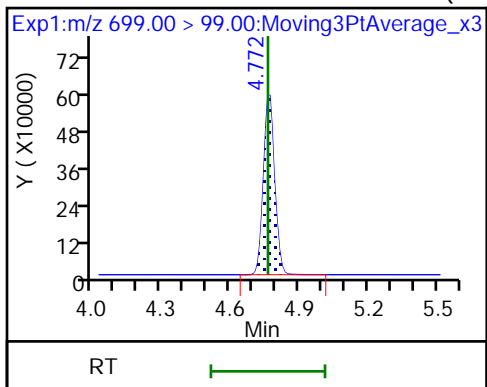
75 Perfluorododecanesulfonic acid (



75 Perfluorododecanesulfonic acid (

41 Perfluorotridecanoic acid

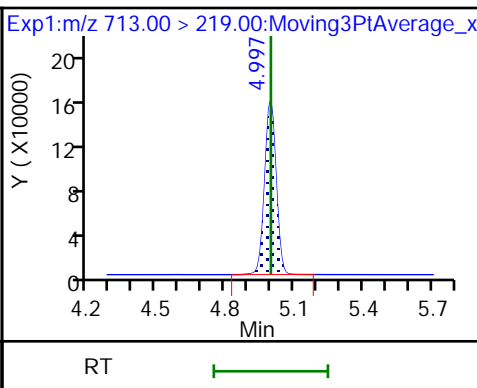
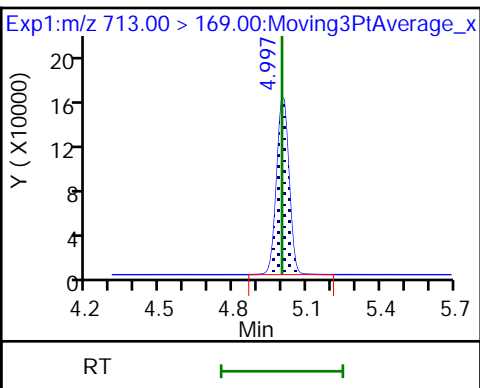
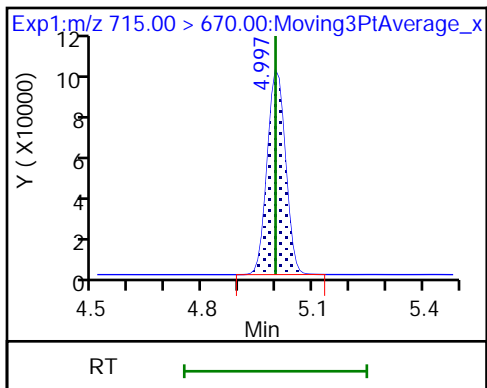
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

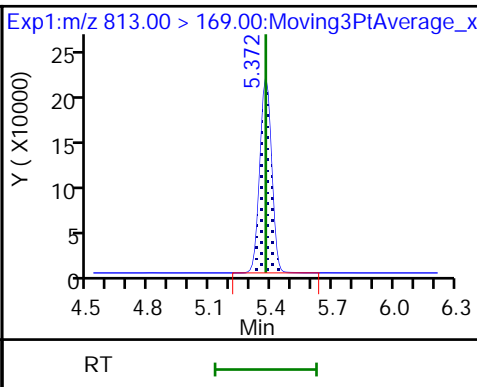
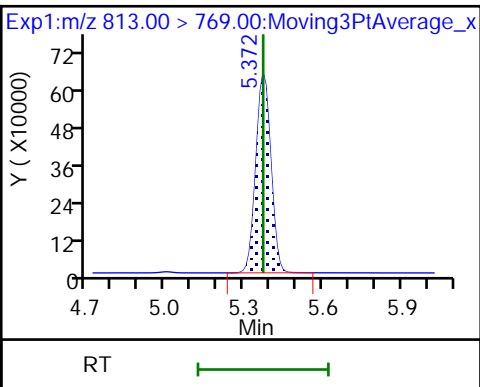
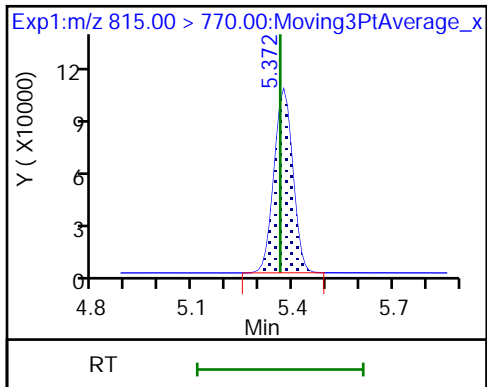
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

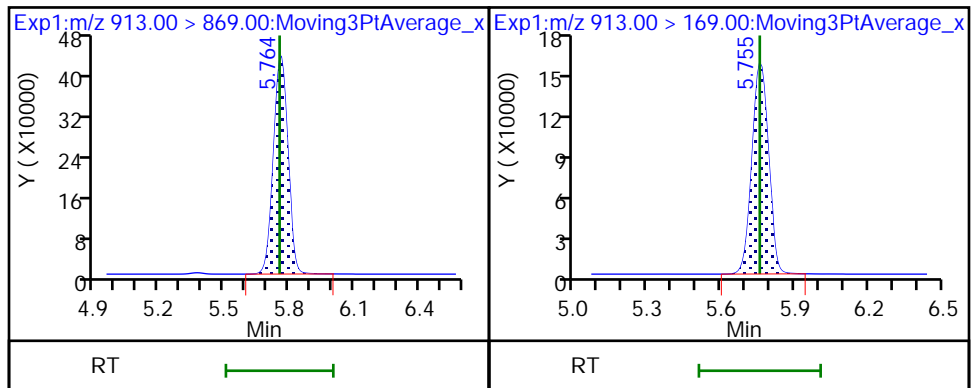
45 Perfluorohexadecanoic acid

45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Euofins TestAmerica, Burlington

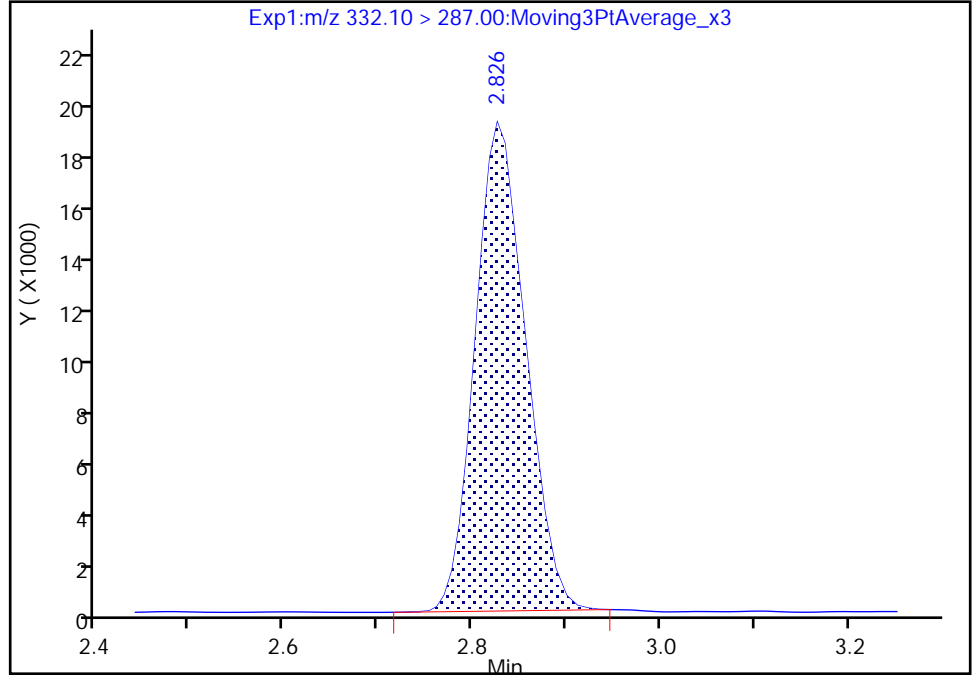
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d  
Injection Date: 22-Sep-2020 20:11:57 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 64 13C3 HFPO-DA, CAS: STL02255

Signal: 1

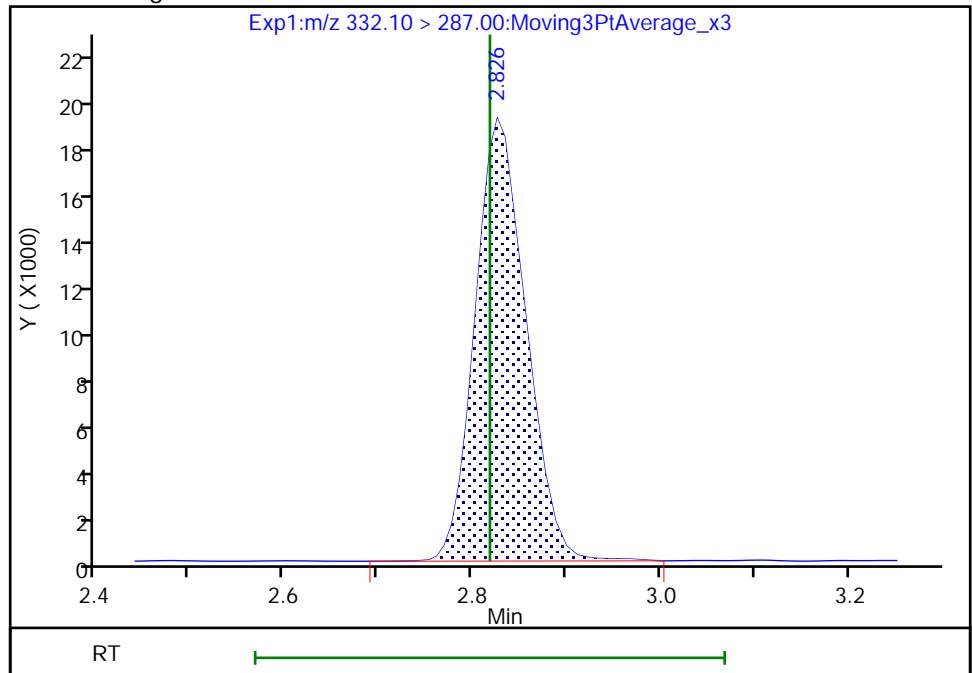
RT: 2.83  
Area: 69467  
Amount: 1.110400  
Amount Units: ng/ml

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

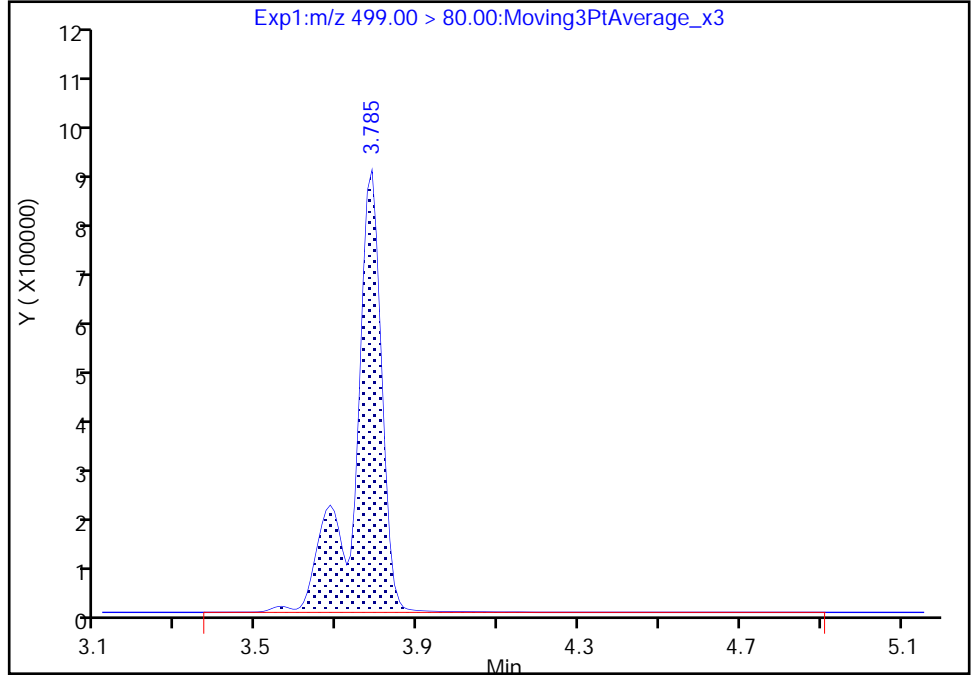
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d  
Injection Date: 22-Sep-2020 20:11:57 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

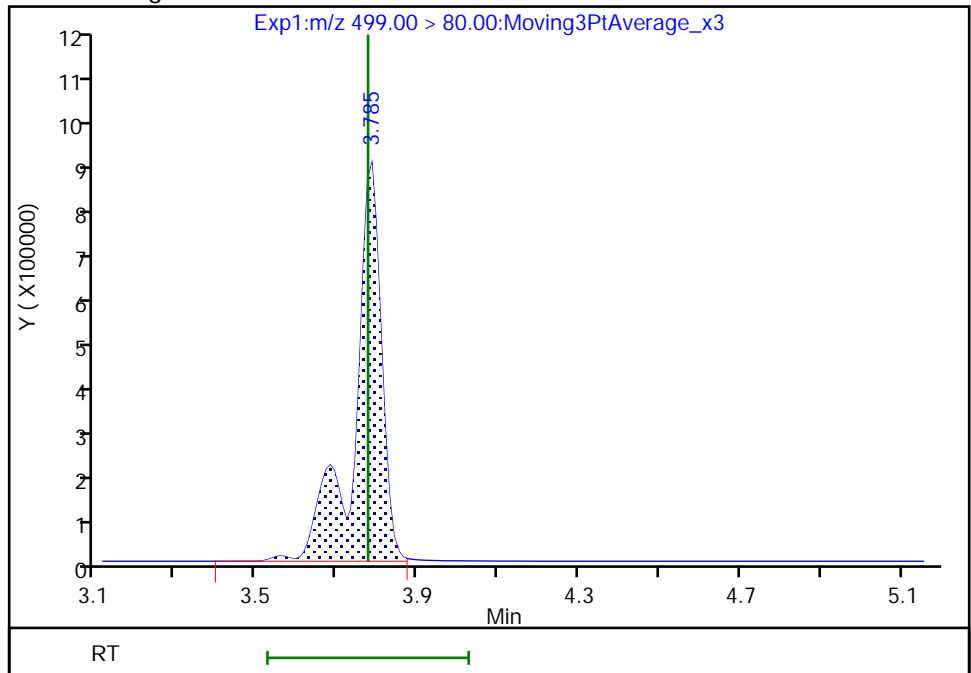
RT: 3.79  
Area: 4023417  
Amount: 8.346248  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 4001517  
Amount: 8.307597  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

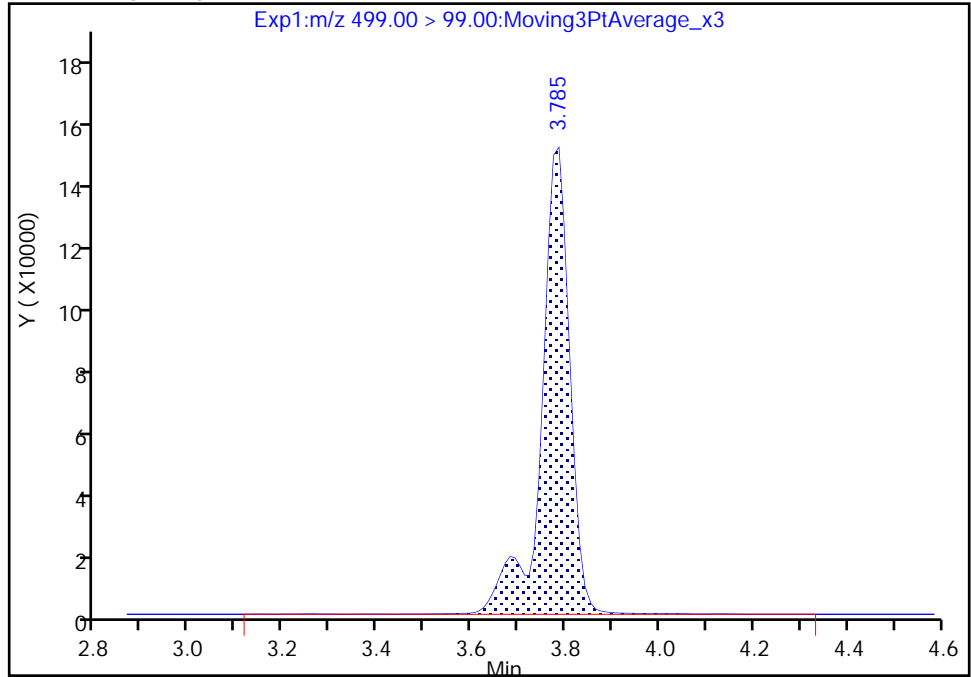
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d  
Injection Date: 22-Sep-2020 20:11:57 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

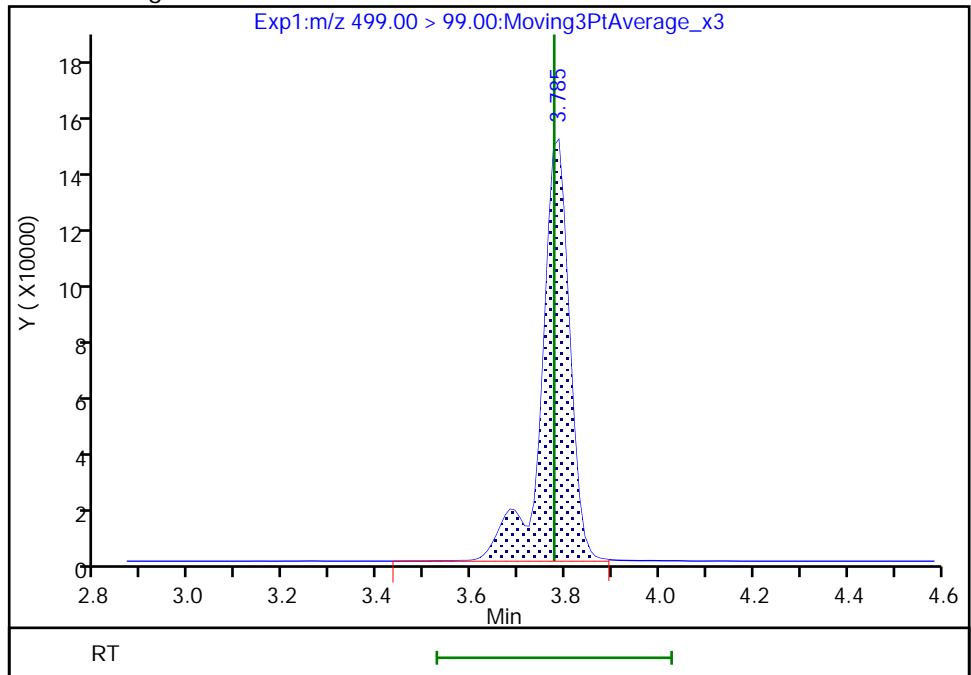
RT: 3.79  
Area: 608895  
Amount: 8.346248  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 606003  
Amount: 8.307597  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

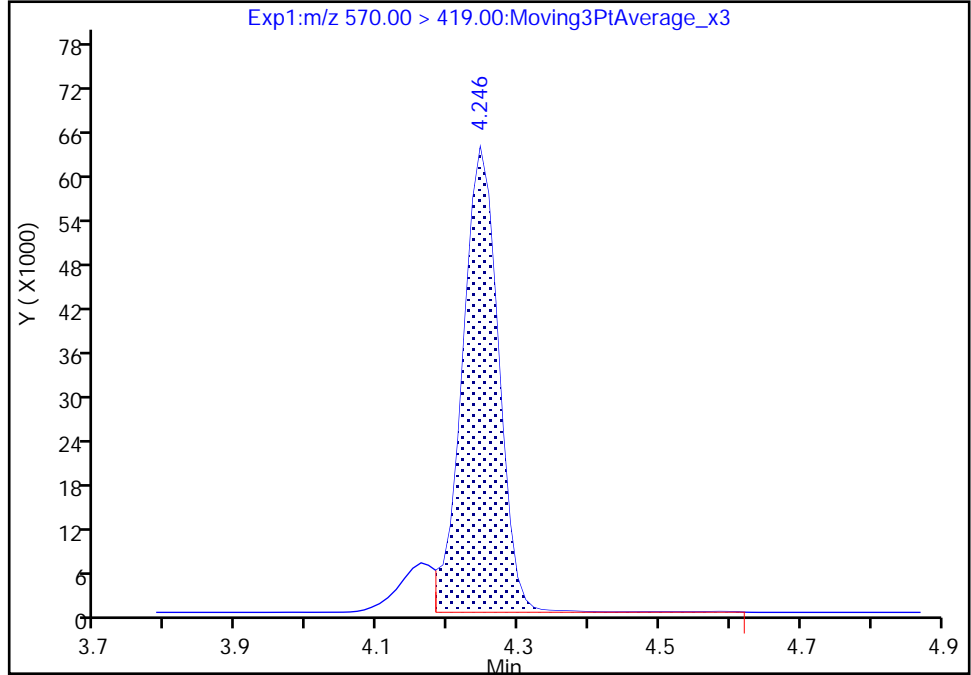
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d  
Injection Date: 22-Sep-2020 20:11:57 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

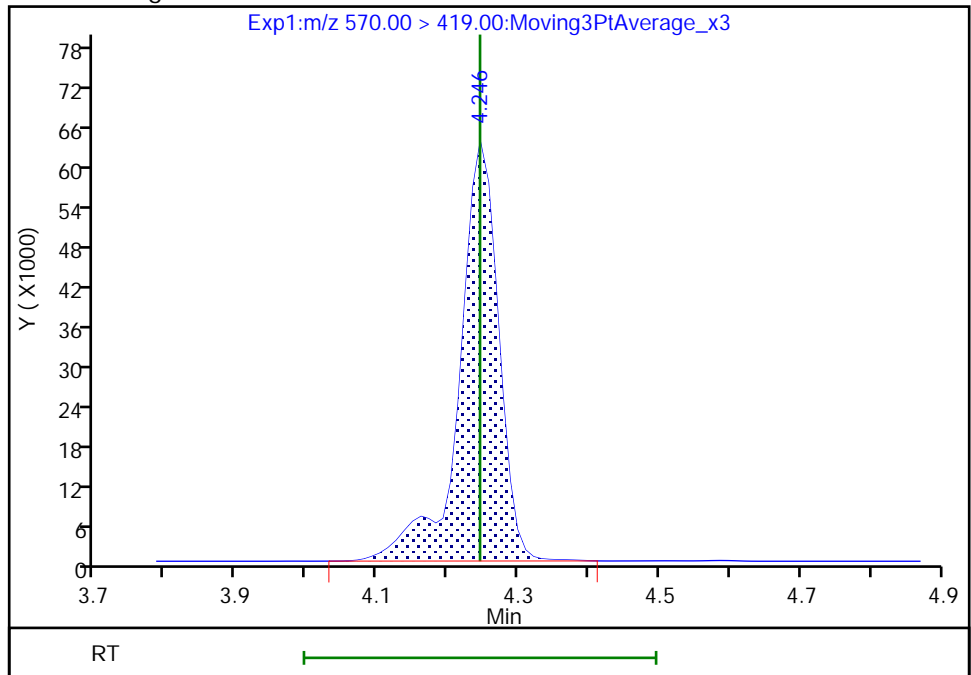
RT: 4.25  
Area: 223673  
Amount: 8.868980  
Amount Units: ng/ml

Processing Integration Results



RT: 4.25  
Area: 245746  
Amount: 9.604113  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

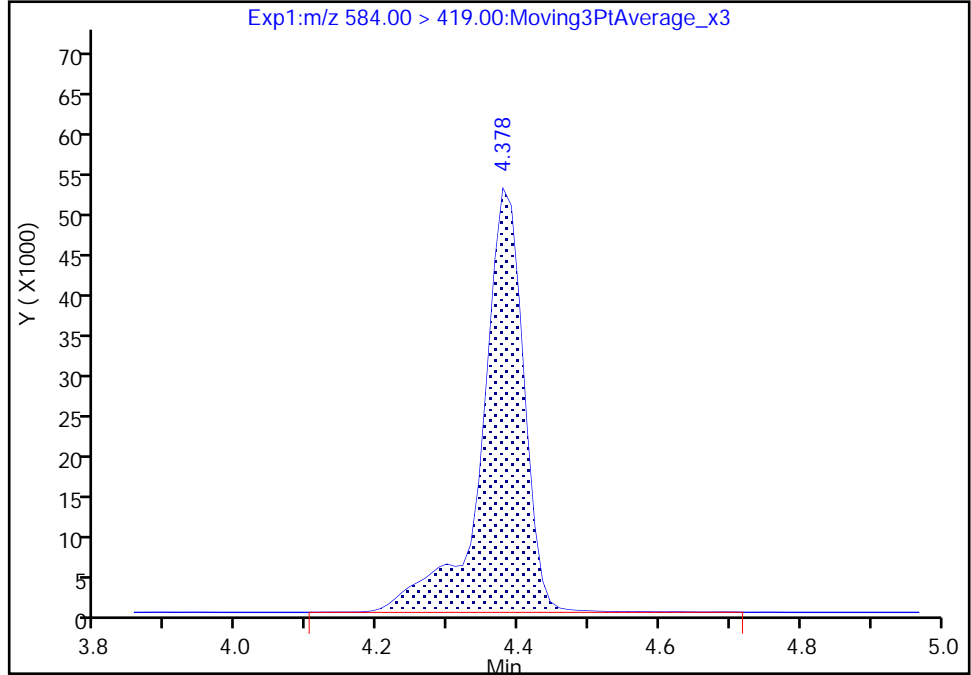
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL10.d  
Injection Date: 22-Sep-2020 20:11:57 Instrument ID: LC812  
Lims ID: IC  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 7 Worklist Smp#: 10  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

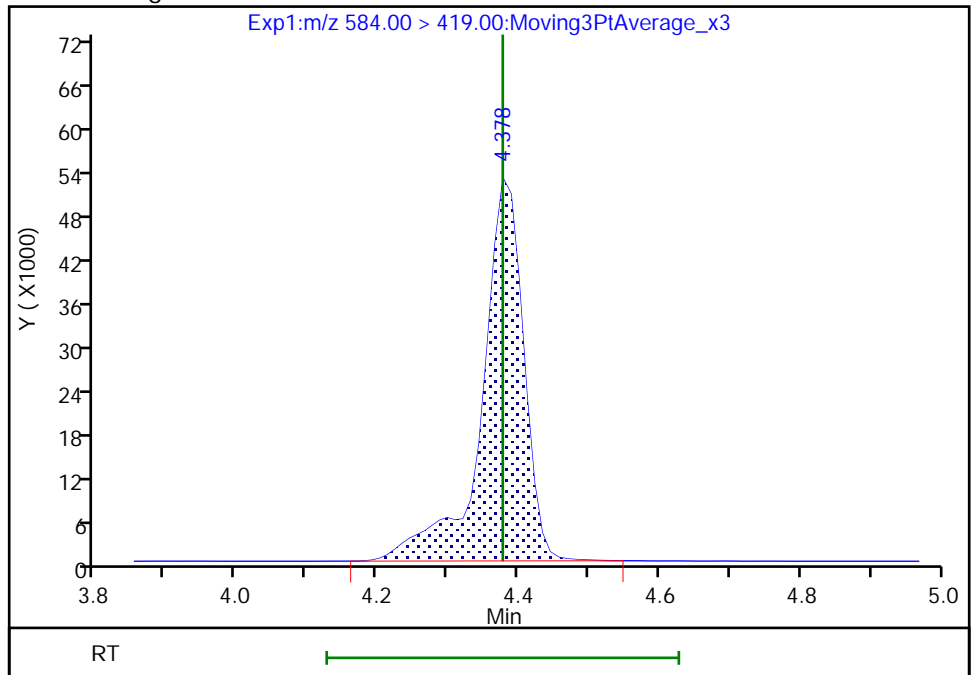
RT: 4.38  
Area: 219963  
Amount: 8.983798  
Amount Units: ng/ml

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

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 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 (PFPA)	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
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	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
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	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
Perfluorodecanesulfonamide (PFOSA)	AveID	0.9348	0.9201		0.984	1.00	-1.6	40.0
N-methylperfluorodecanesulfonamidoacetic 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-ethylperfluorodecanesulfonamidoacetic 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.: 480-175657-1  
 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
1802 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										
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 PFDoA										
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

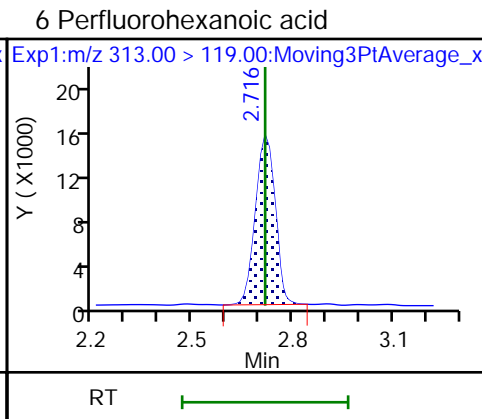
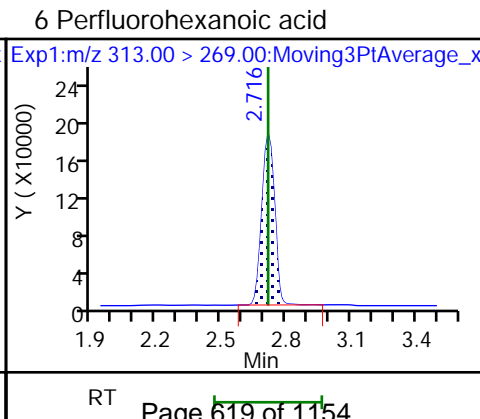
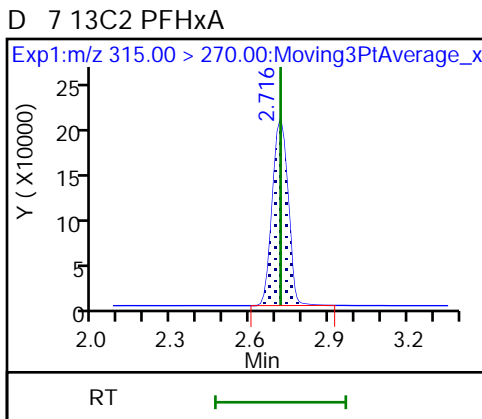
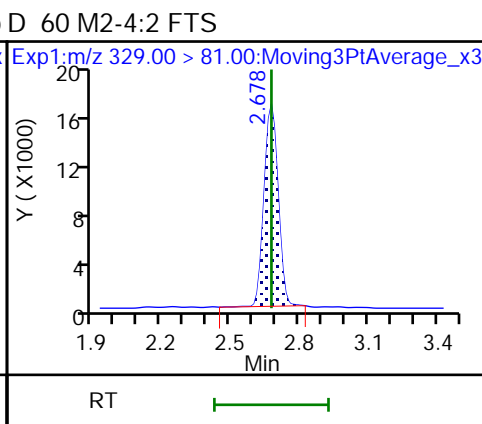
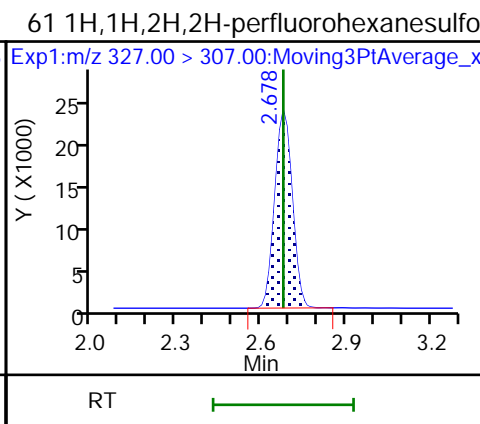
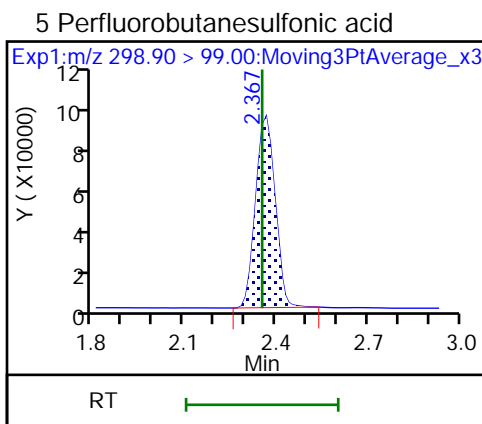
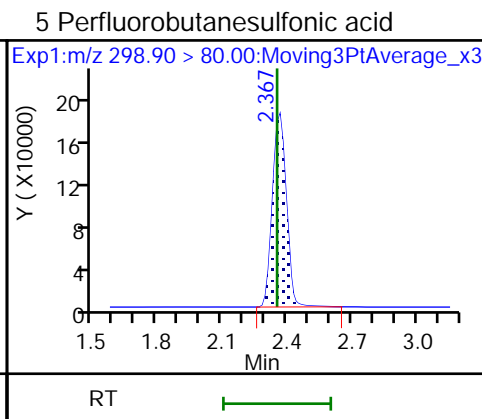
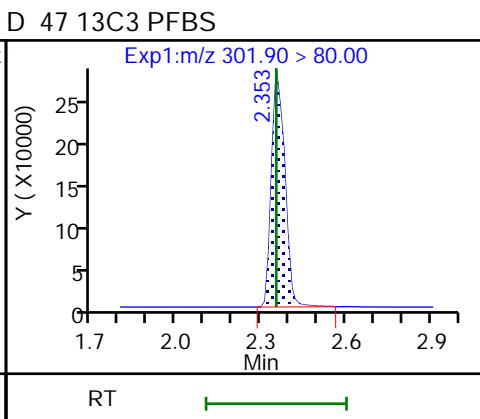
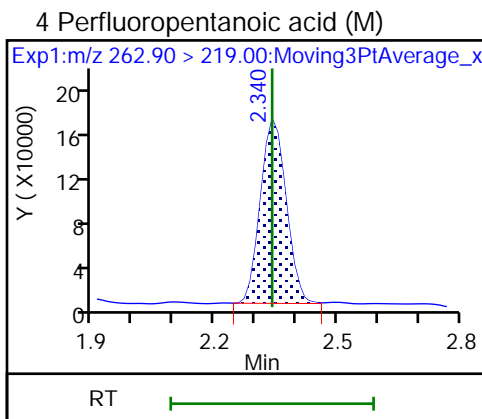
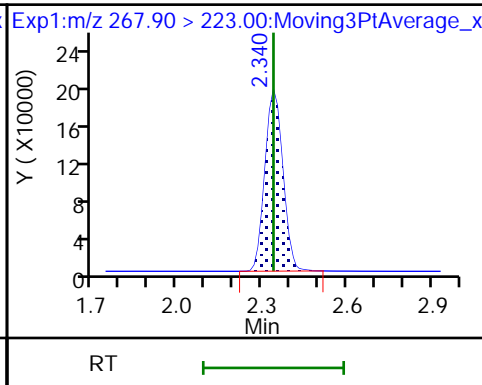
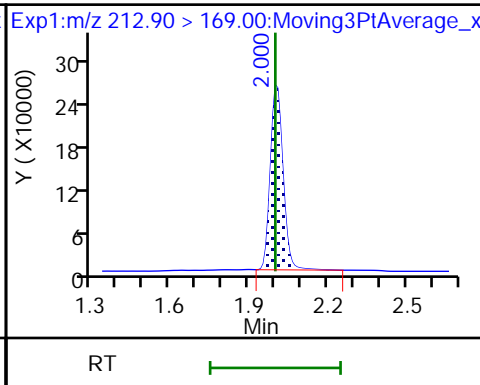
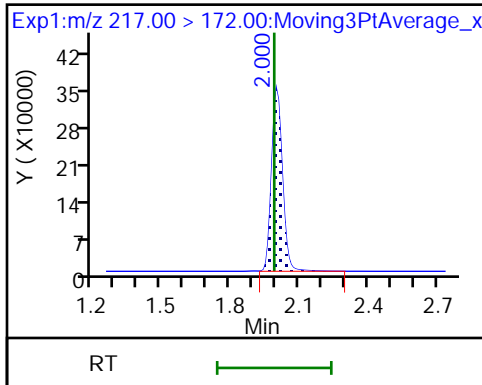
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

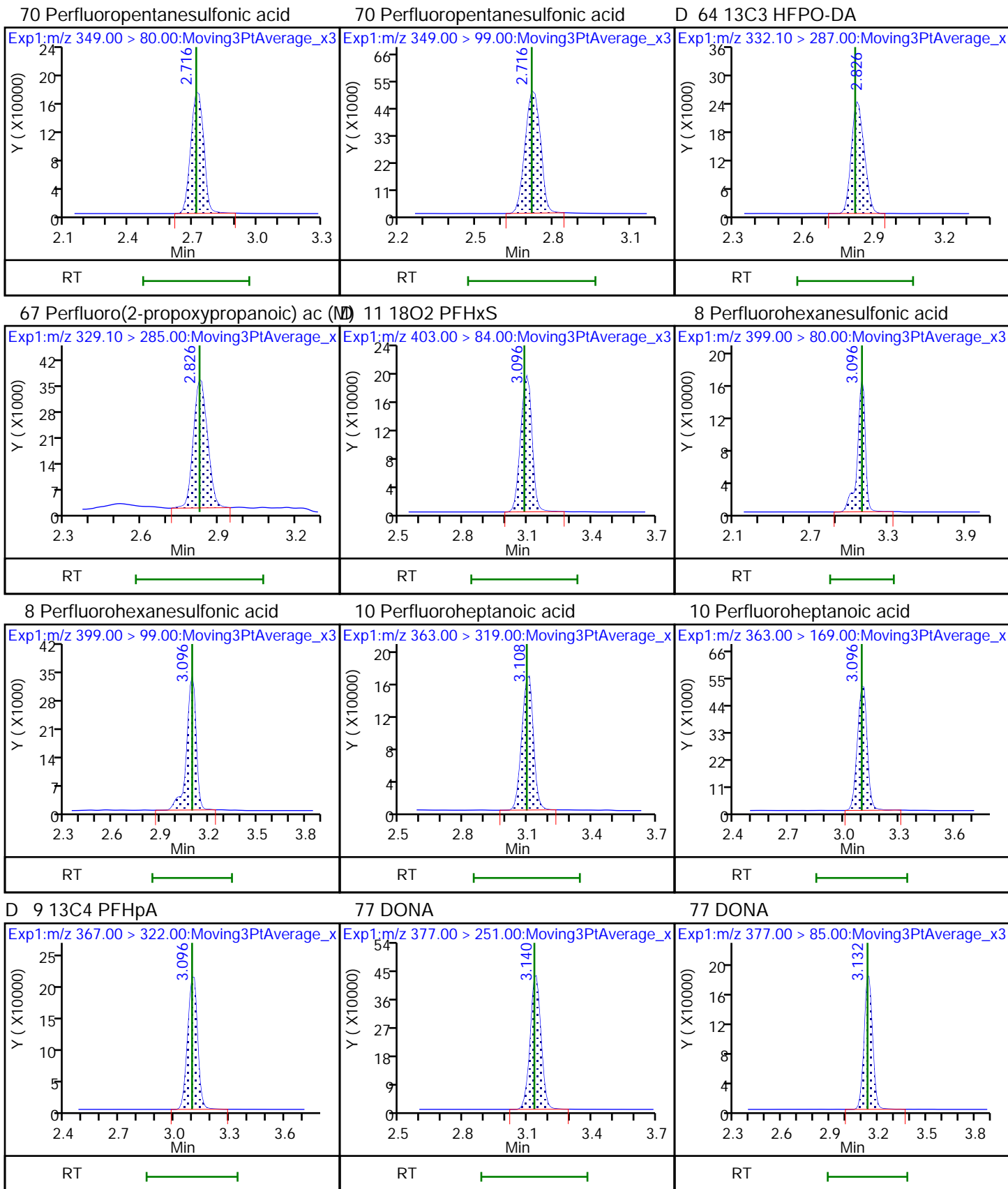
D 1 13C4 PFBA

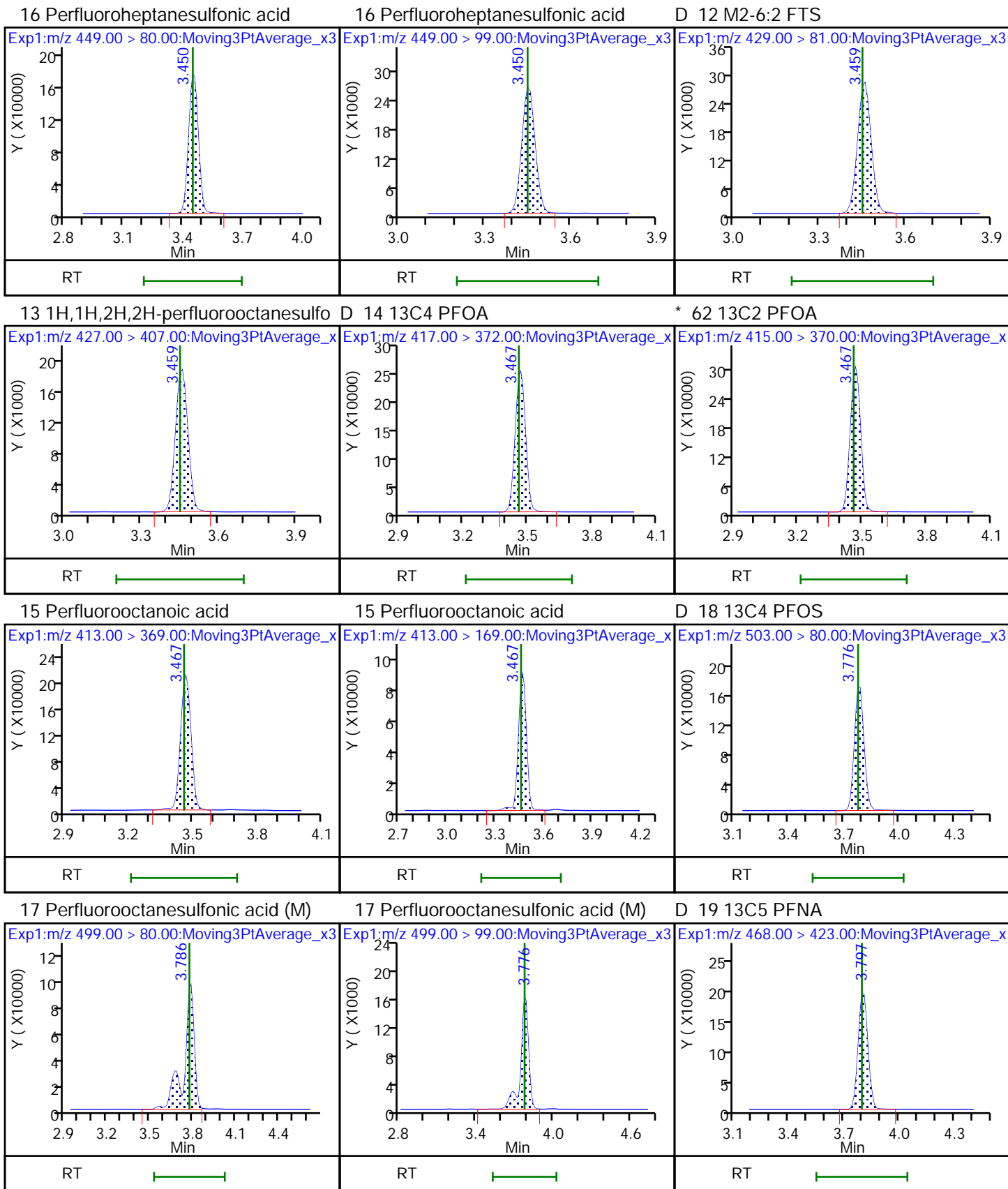
2 Perfluorobutanoic acid (M)

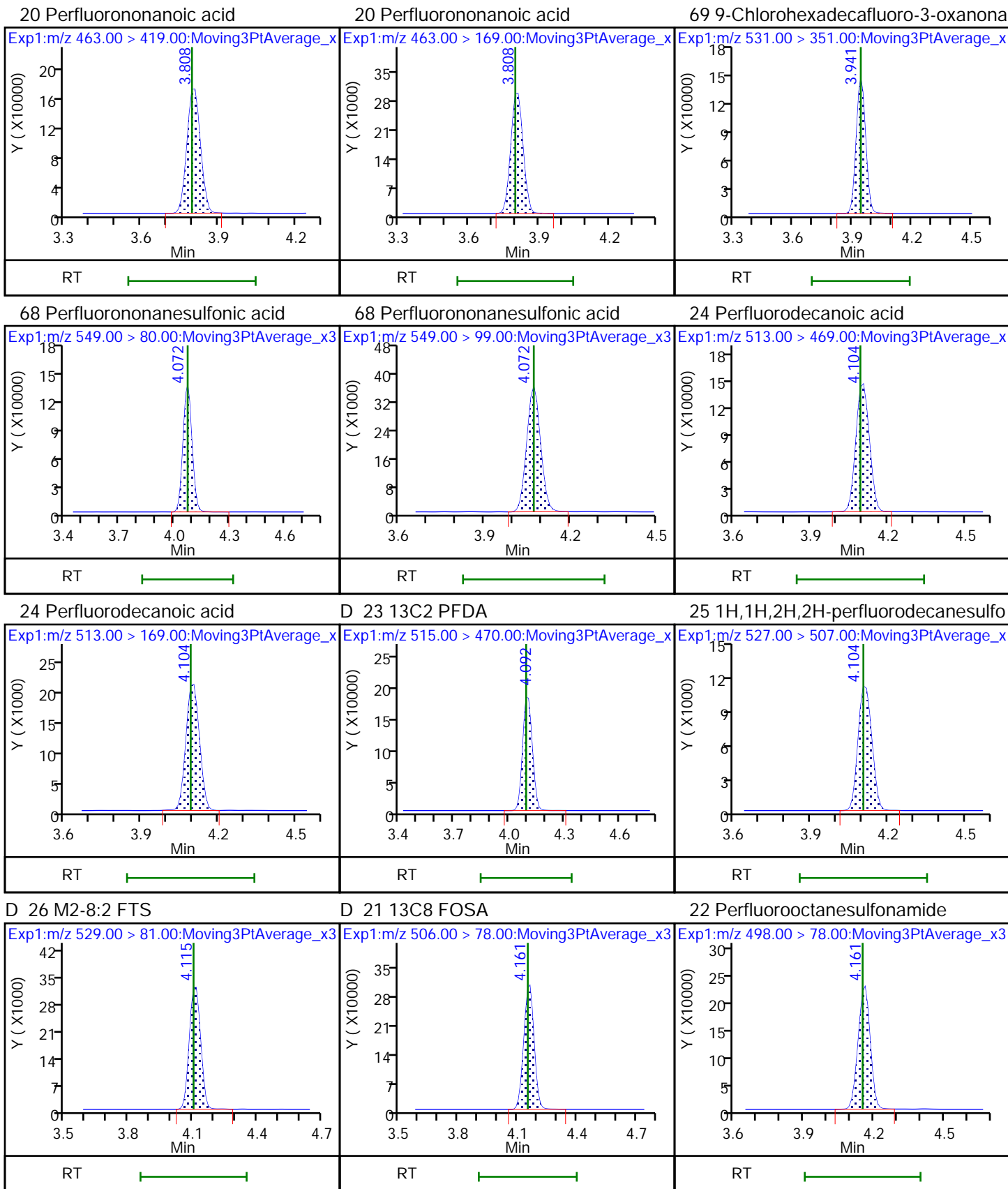
D 3 13C5 PFPeA





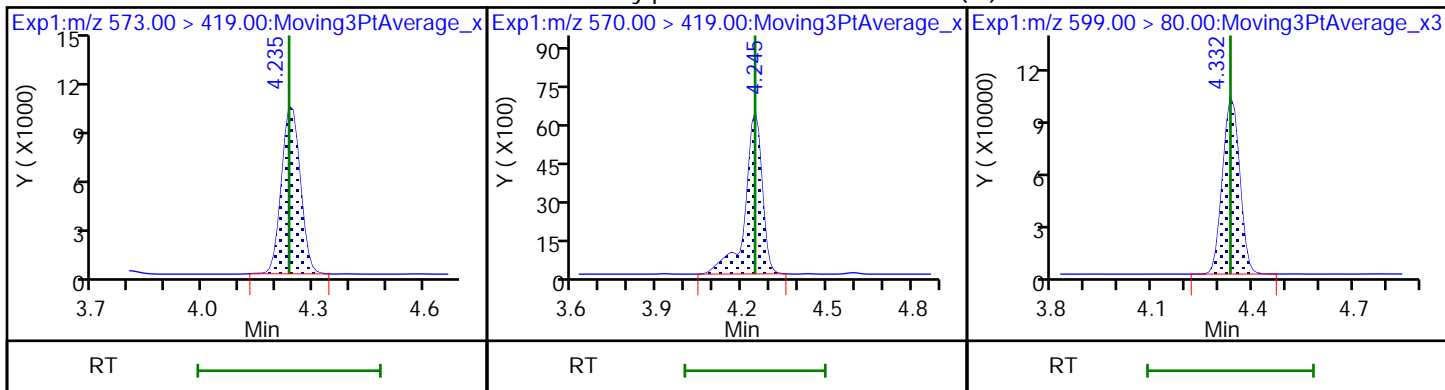






D 27 d3-NMeFOSAA

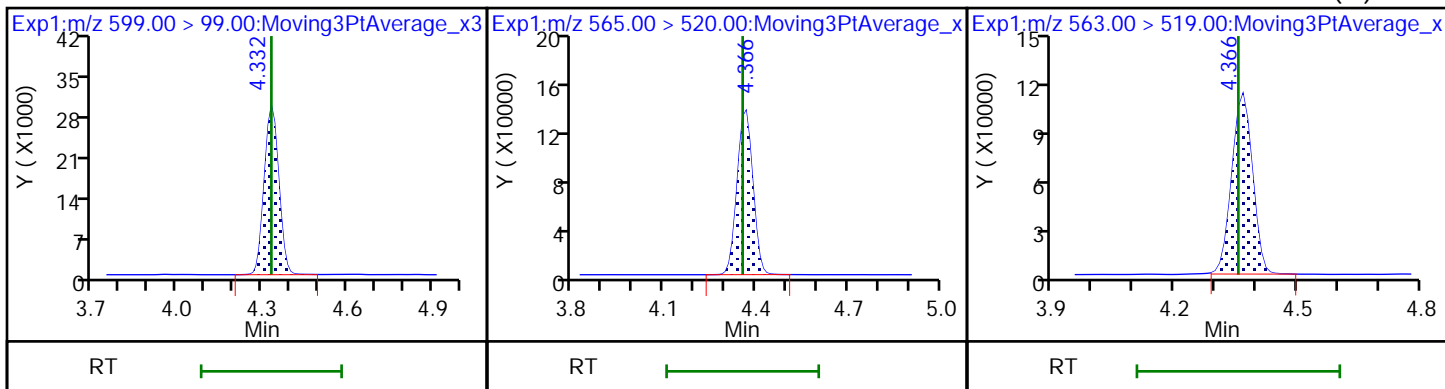
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

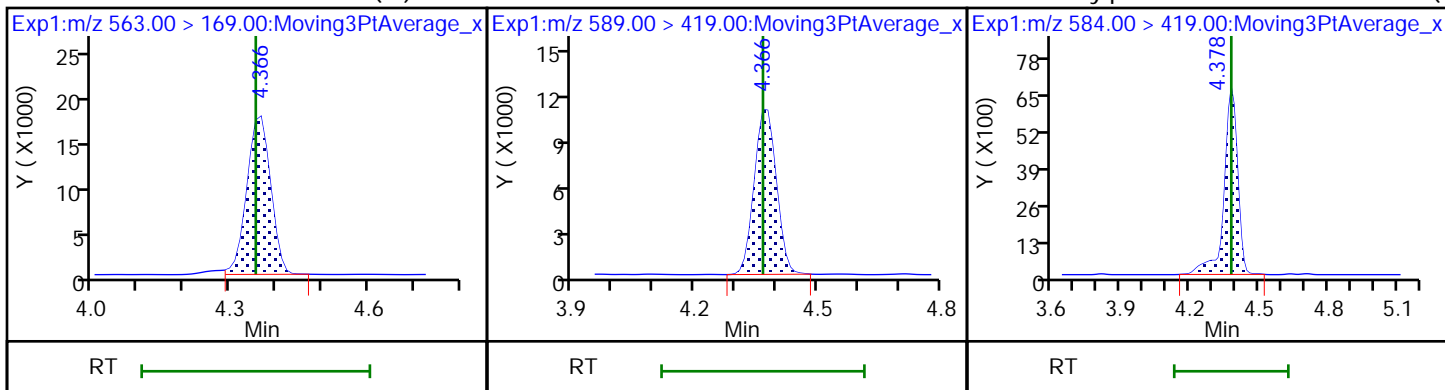
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

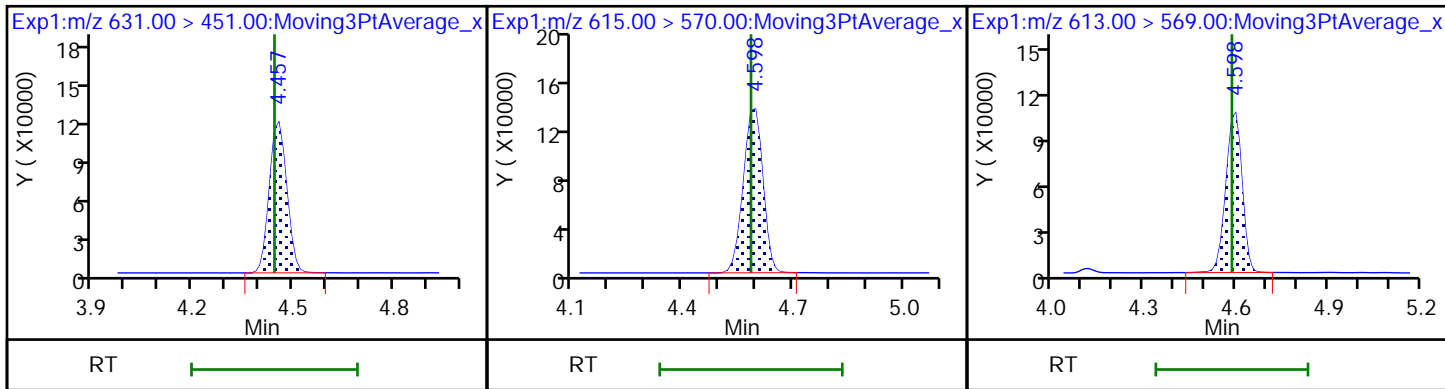
33 N-ethylperfluorooctanesulfonamid (M)

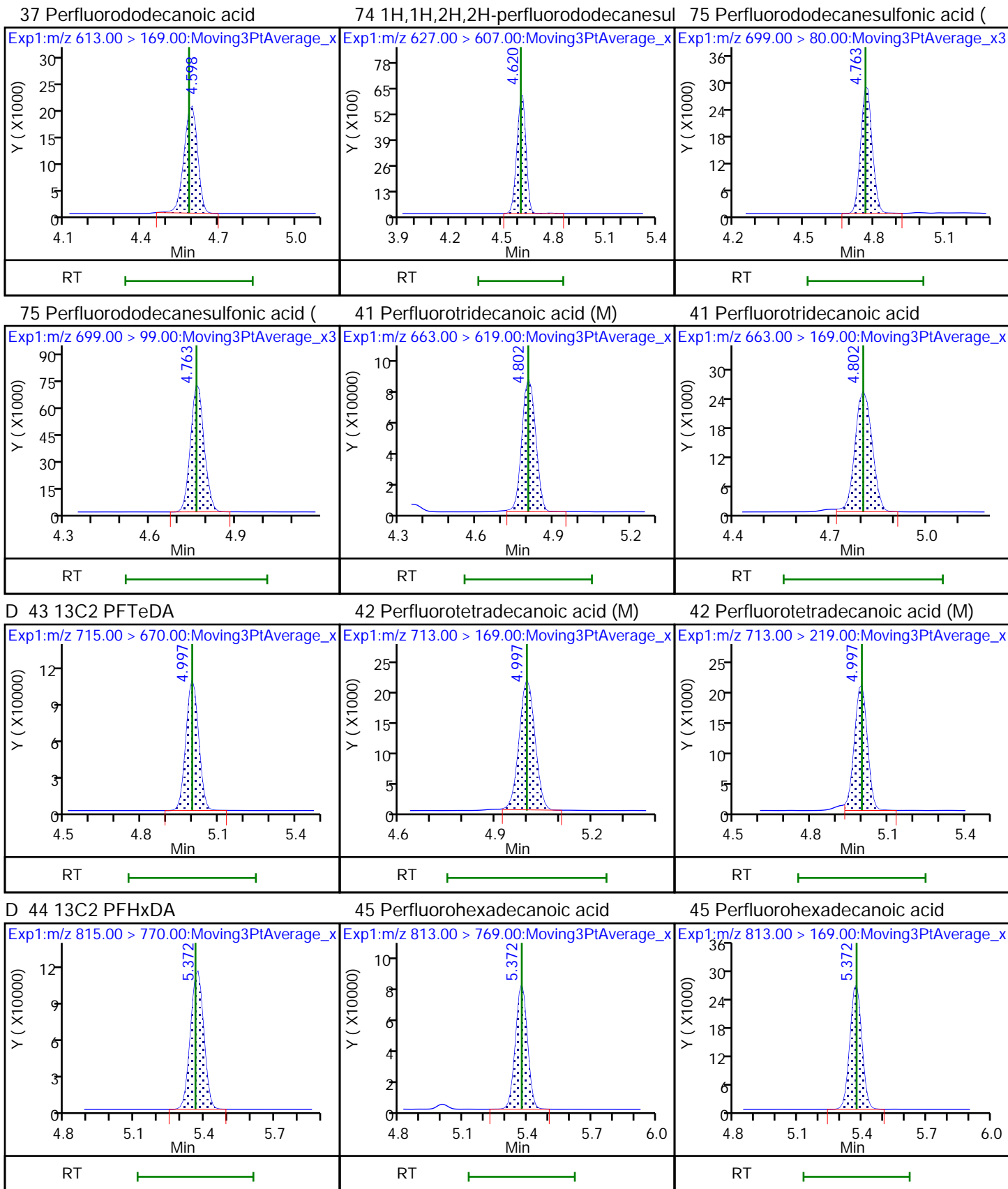


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

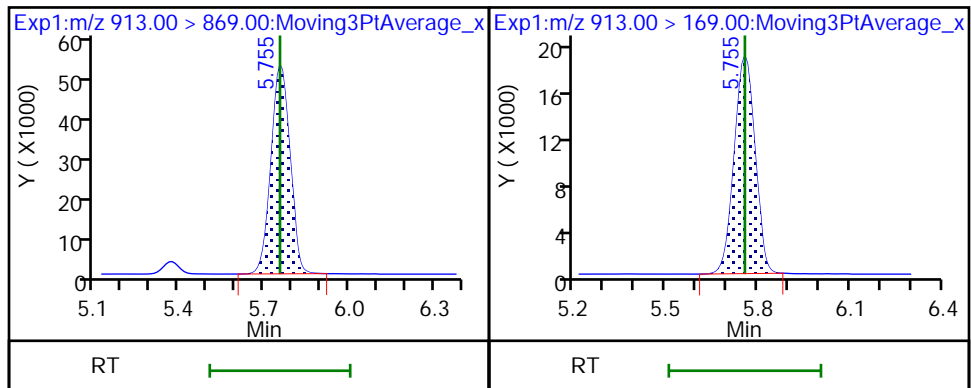
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

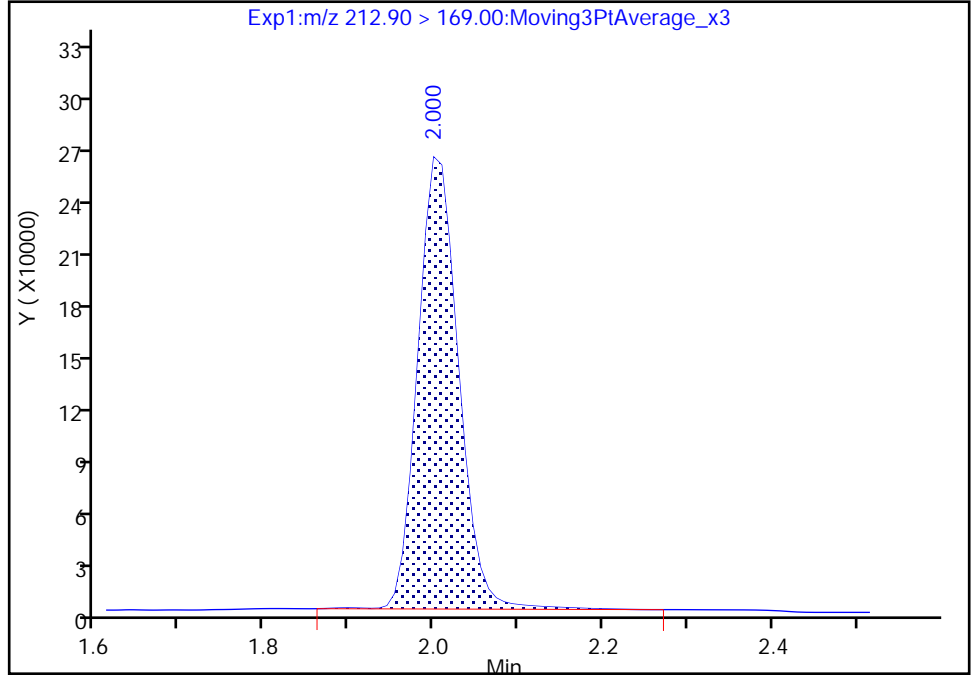
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

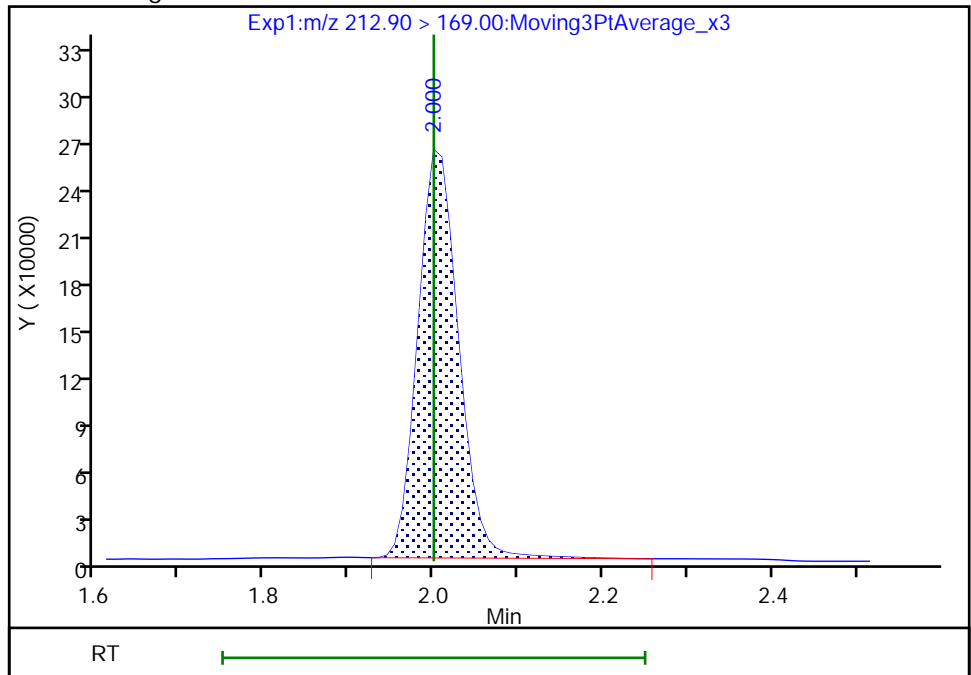
RT: 2.00  
Area: 867460  
Amount: 1.008181  
Amount Units: ng/ml

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

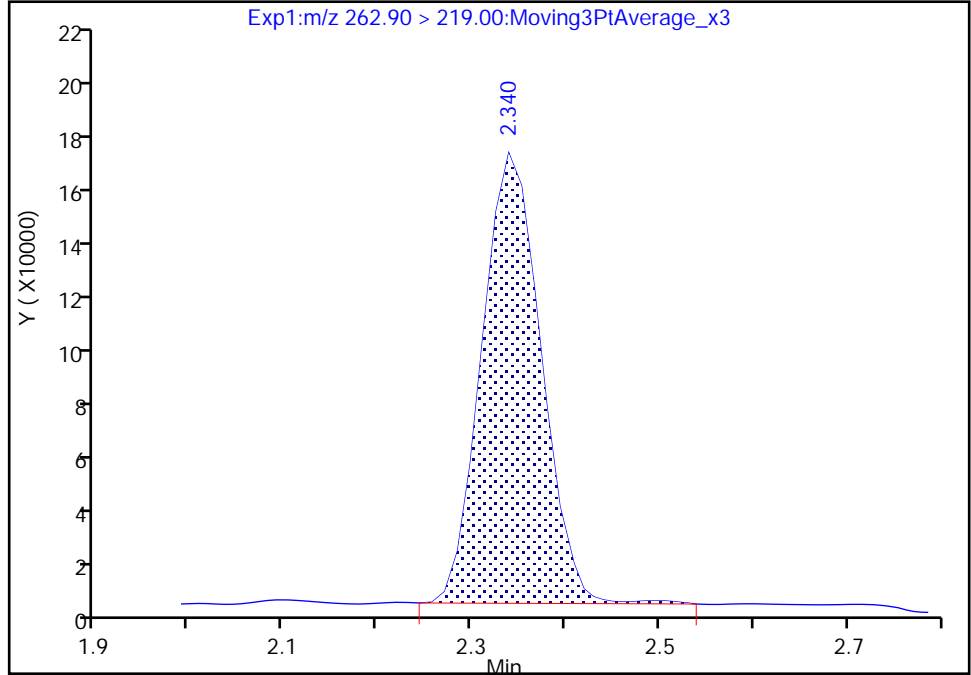
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

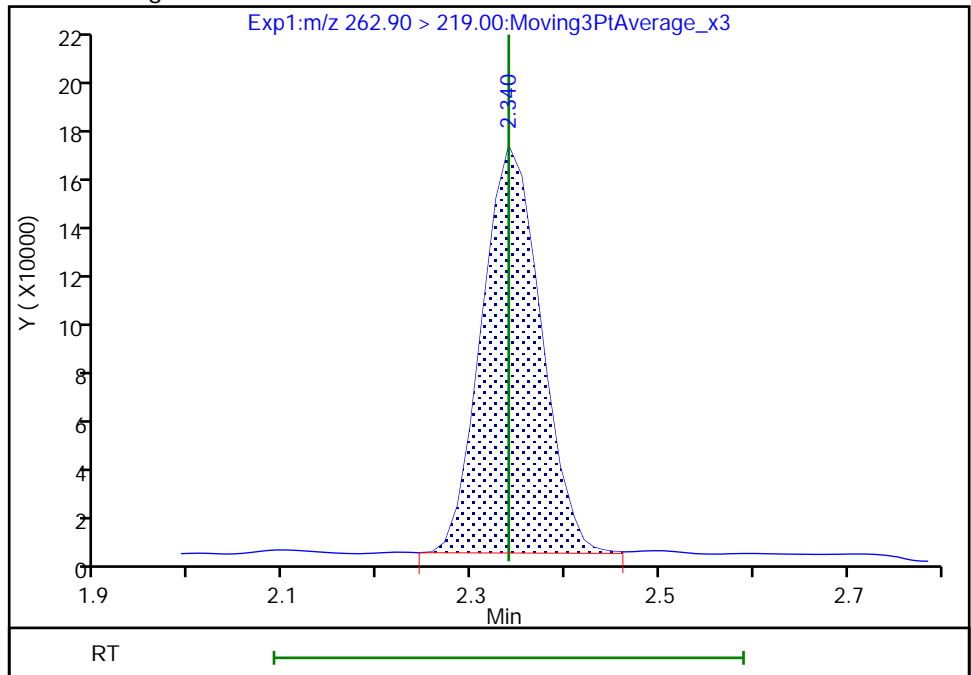
RT: 2.34  
Area: 741243  
Amount: 1.031896  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 737460  
Amount: 1.026629  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

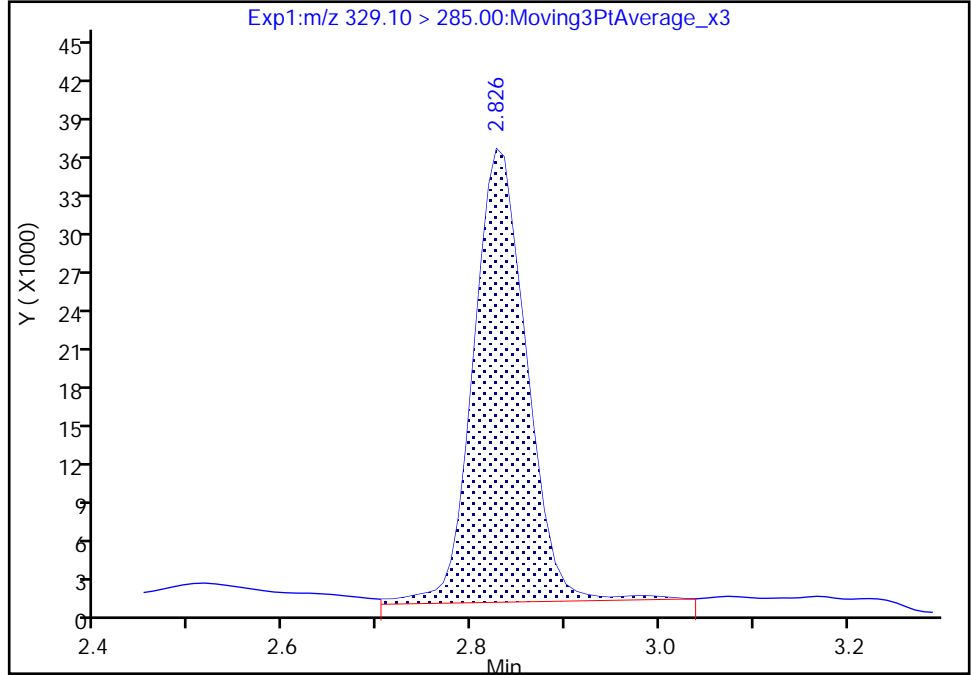
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

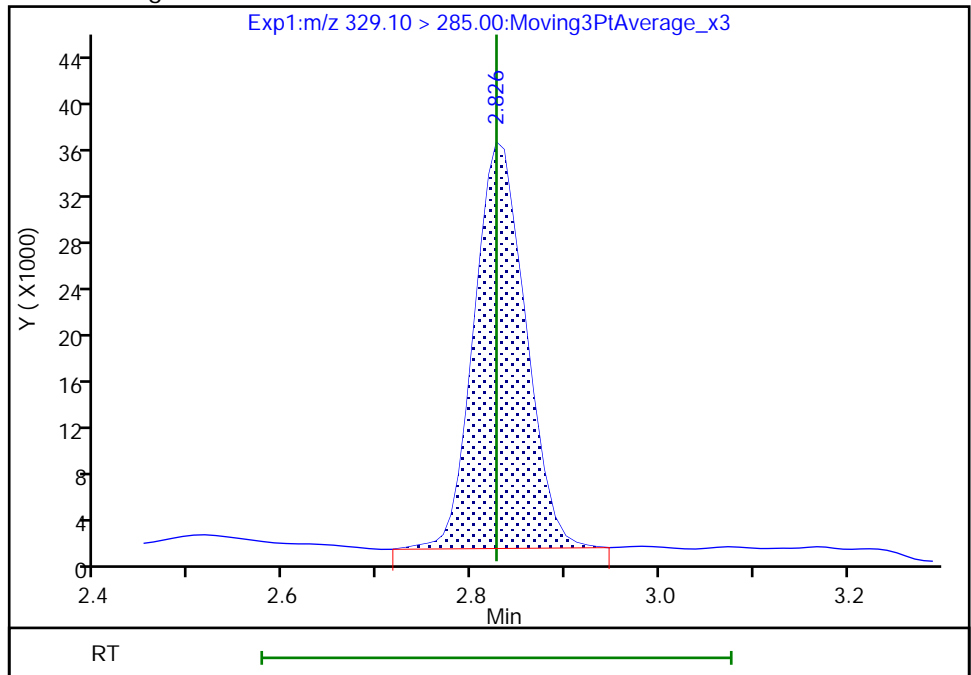
RT: 2.83  
Area: 139164  
Amount: 0.903019  
Amount Units: ng/ml

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

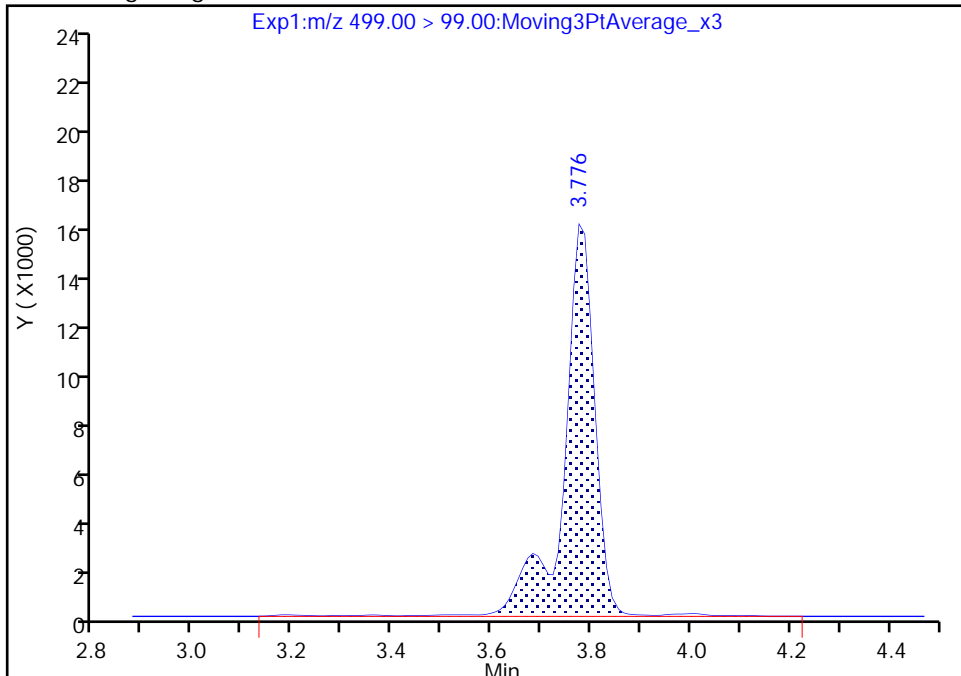
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

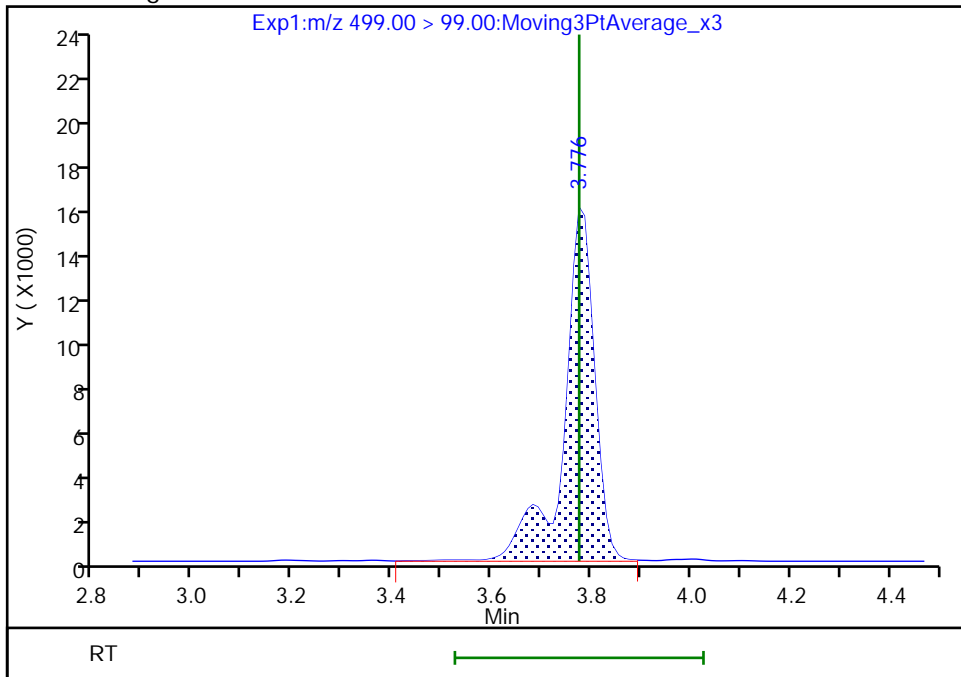
RT: 3.78  
Area: 69871  
Amount: 0.898380  
Amount Units: ng/ml

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

Eurofins TestAmerica, Burlington

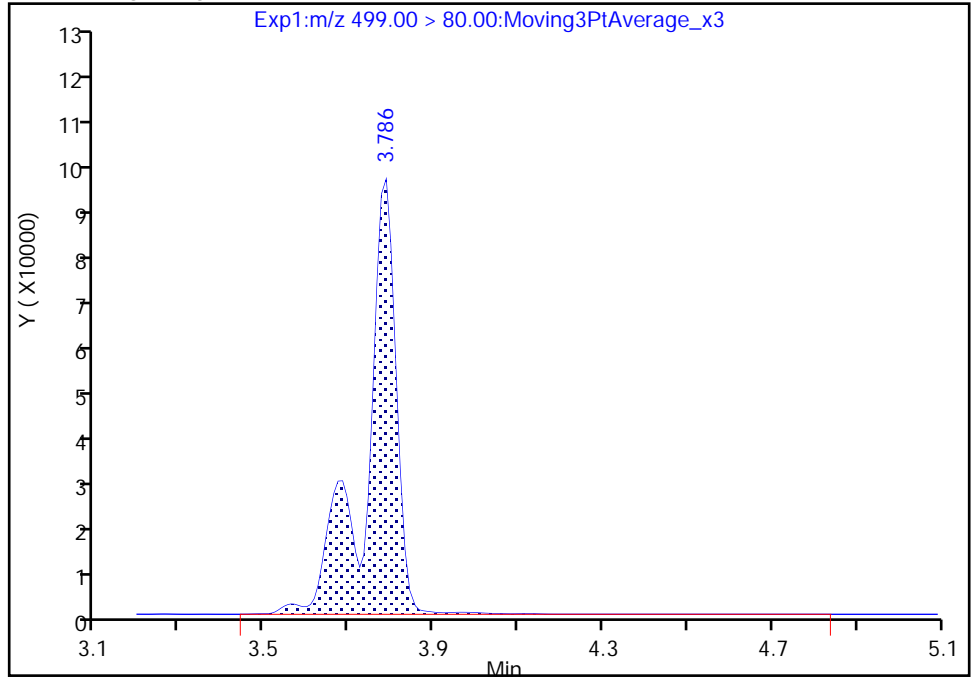
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

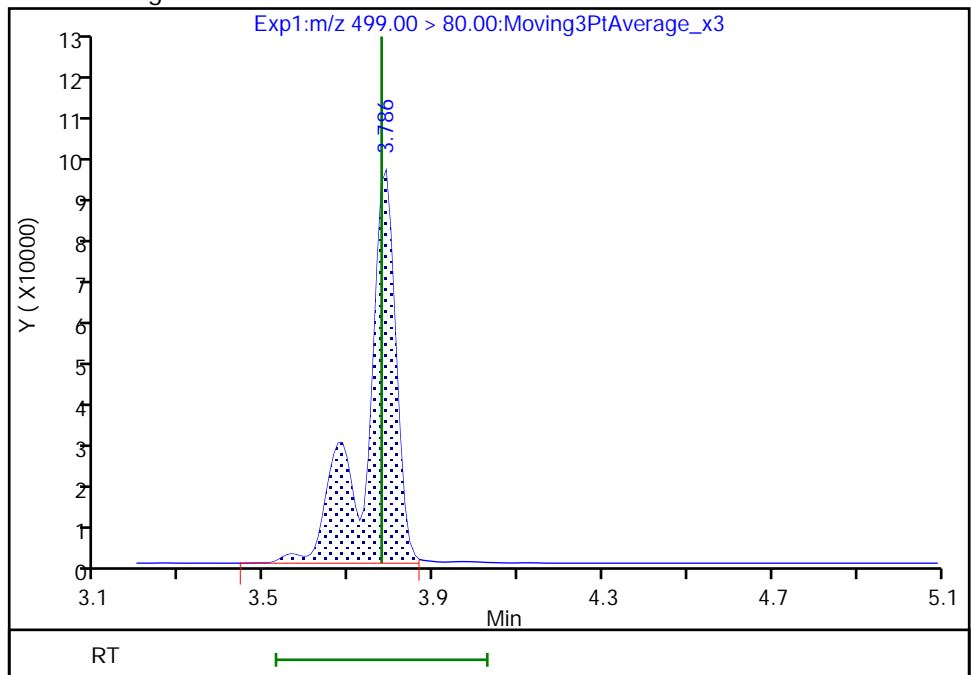
RT: 3.79  
Area: 479278  
Amount: 0.898380  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 474868  
Amount: 0.890113  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

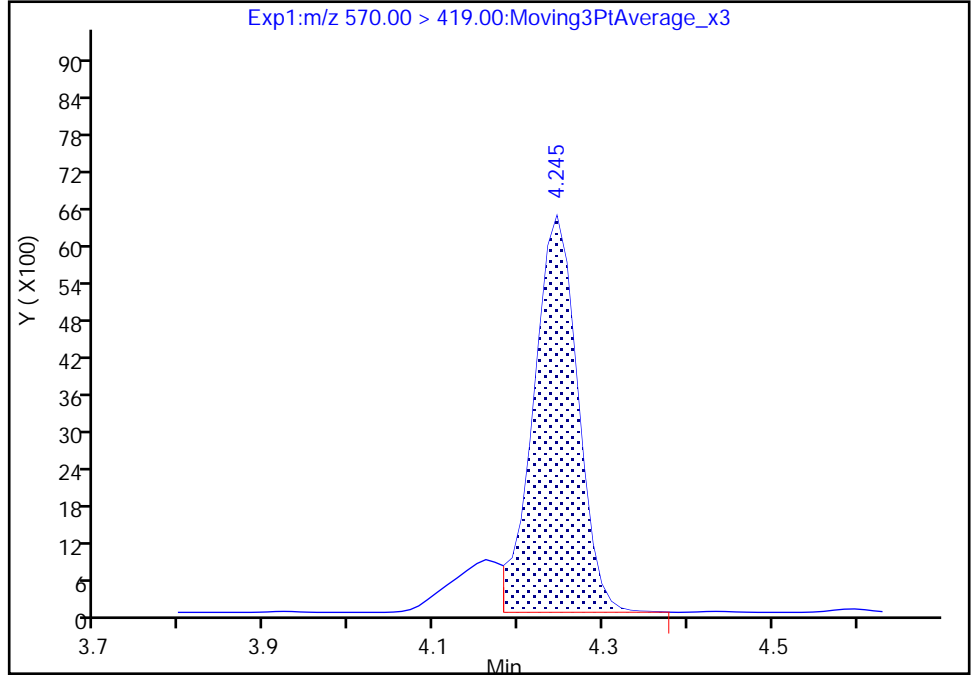
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

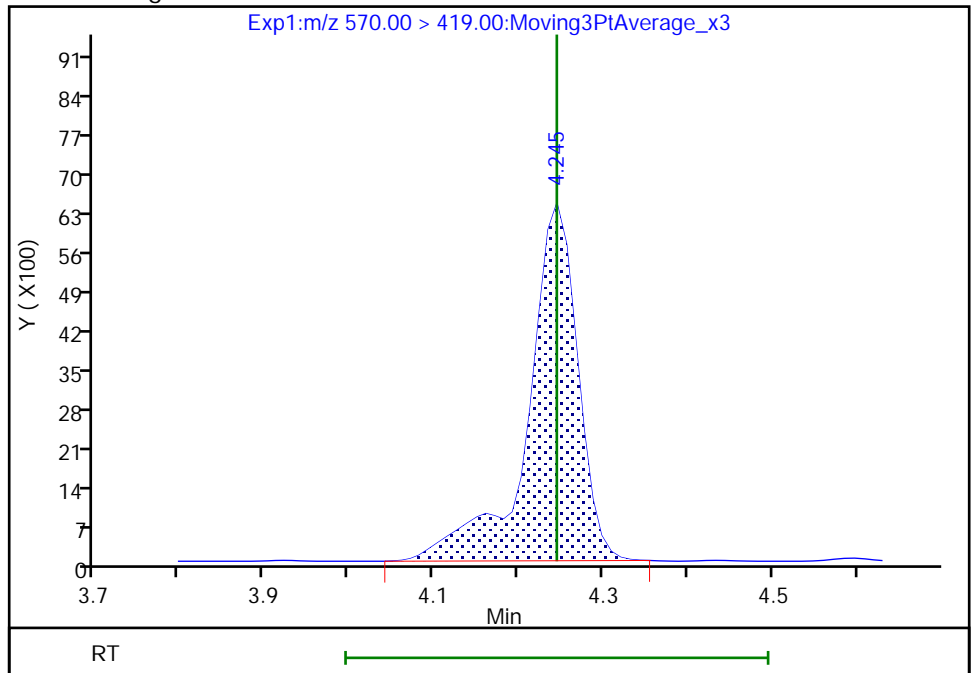
RT: 4.25  
Area: 23242  
Amount: 0.846607  
Amount Units: ng/ml

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

Eurofins TestAmerica, Burlington

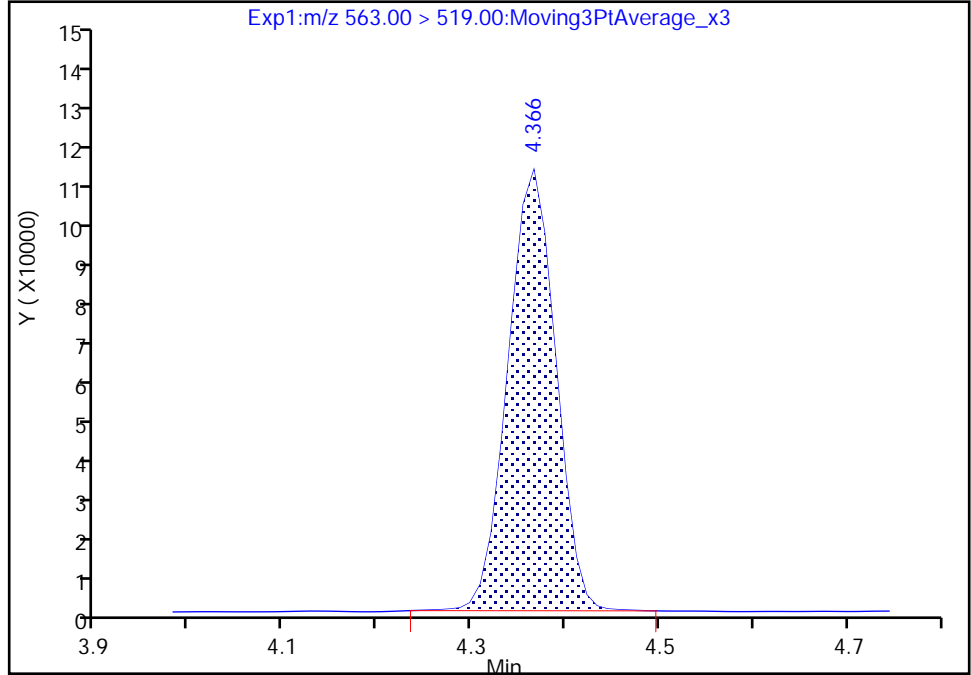
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

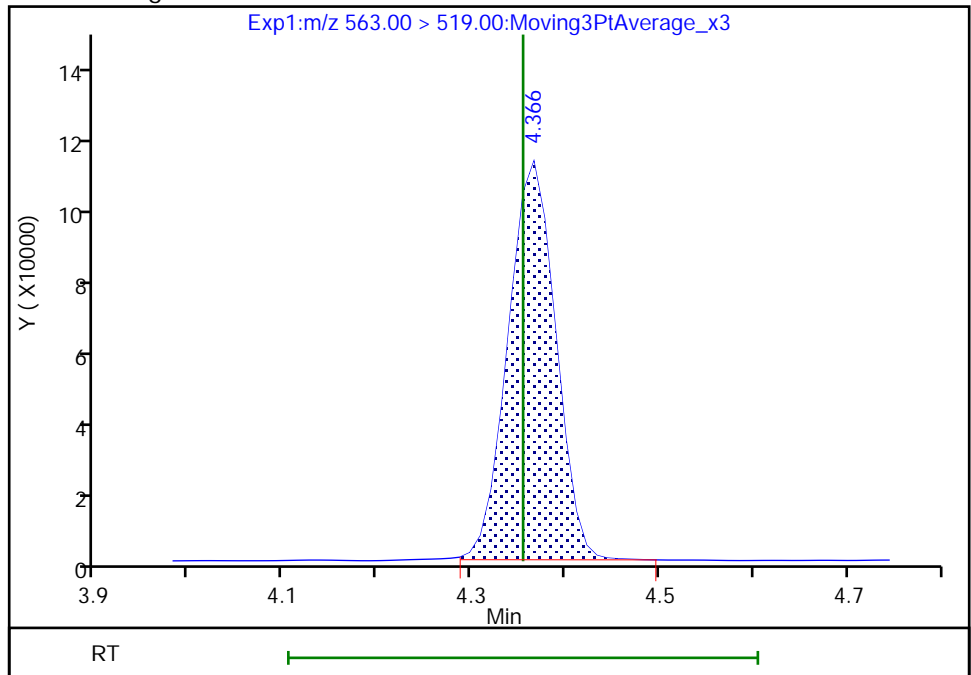
RT: 4.37  
Area: 378232  
Amount: 0.983639  
Amount Units: ng/ml

Processing Integration Results



RT: 4.37  
Area: 377469  
Amount: 0.981654  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

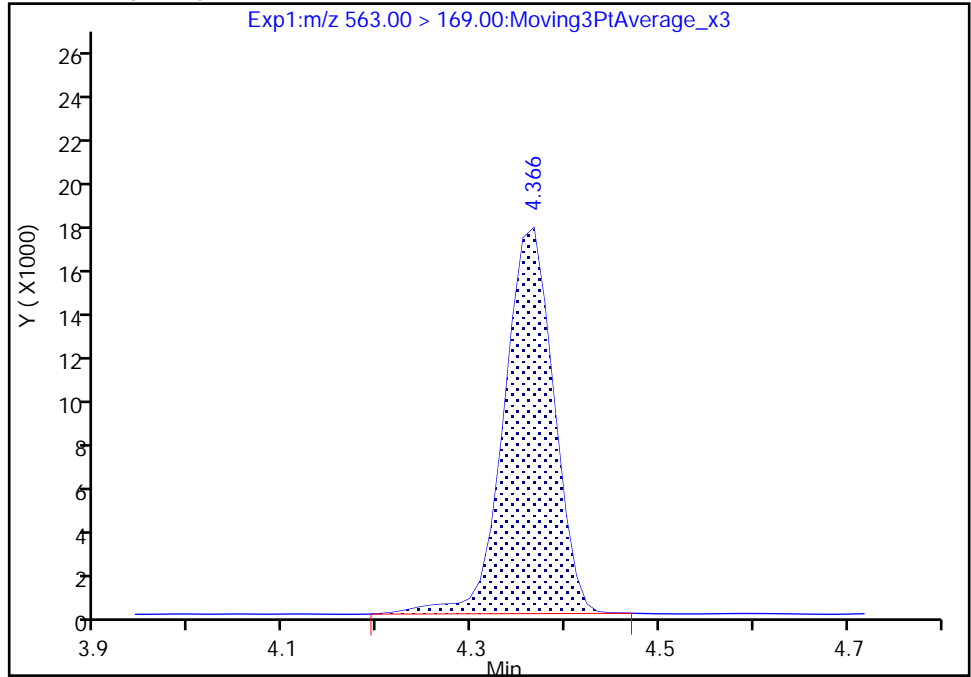
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

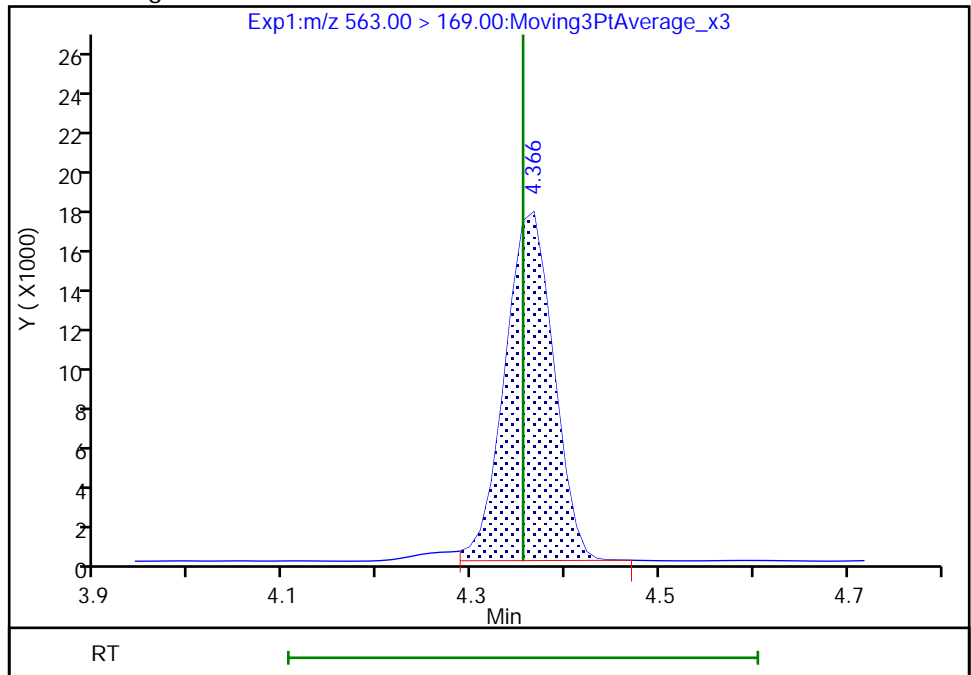
RT: 4.37  
Area: 65352  
Amount: 0.983639  
Amount Units: ng/ml

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

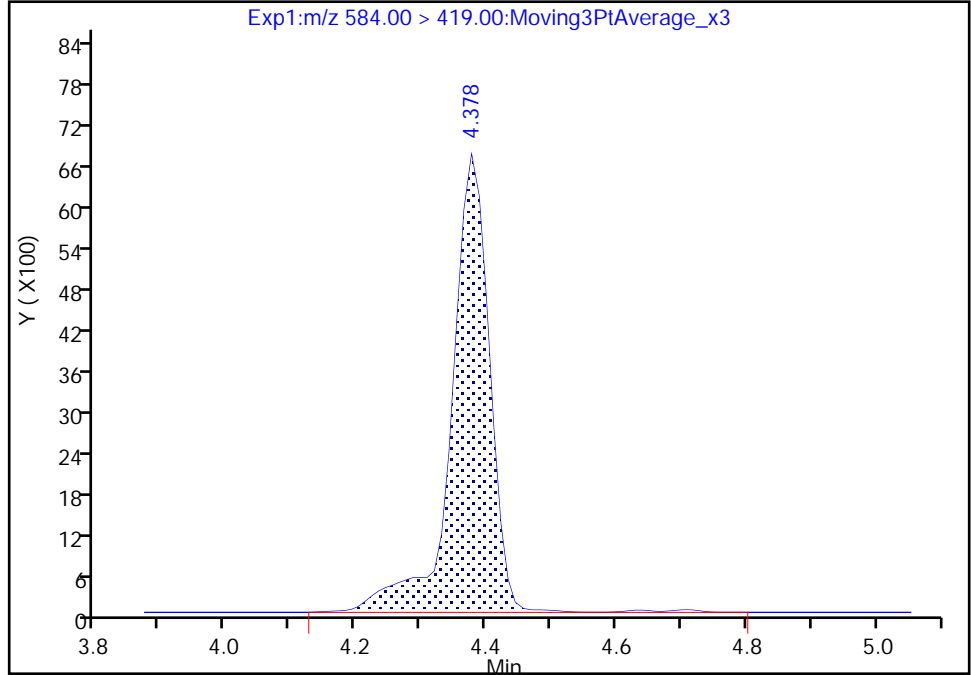
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

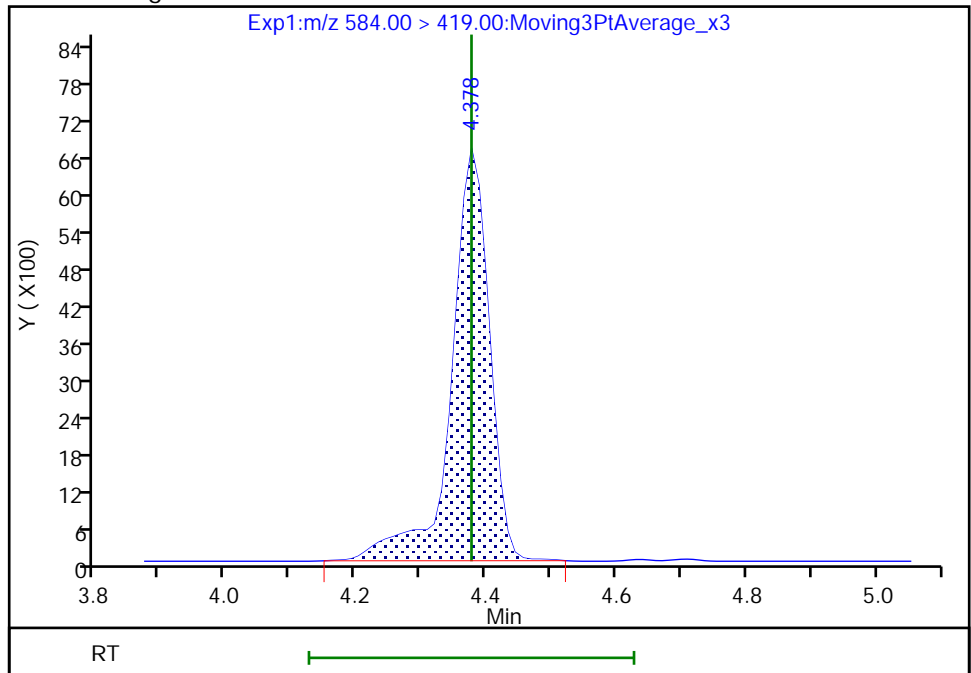
RT: 4.38  
Area: 27441  
Amount: 0.930709  
Amount Units: ng/ml

Processing Integration Results



RT: 4.38  
Area: 27079  
Amount: 0.918431  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

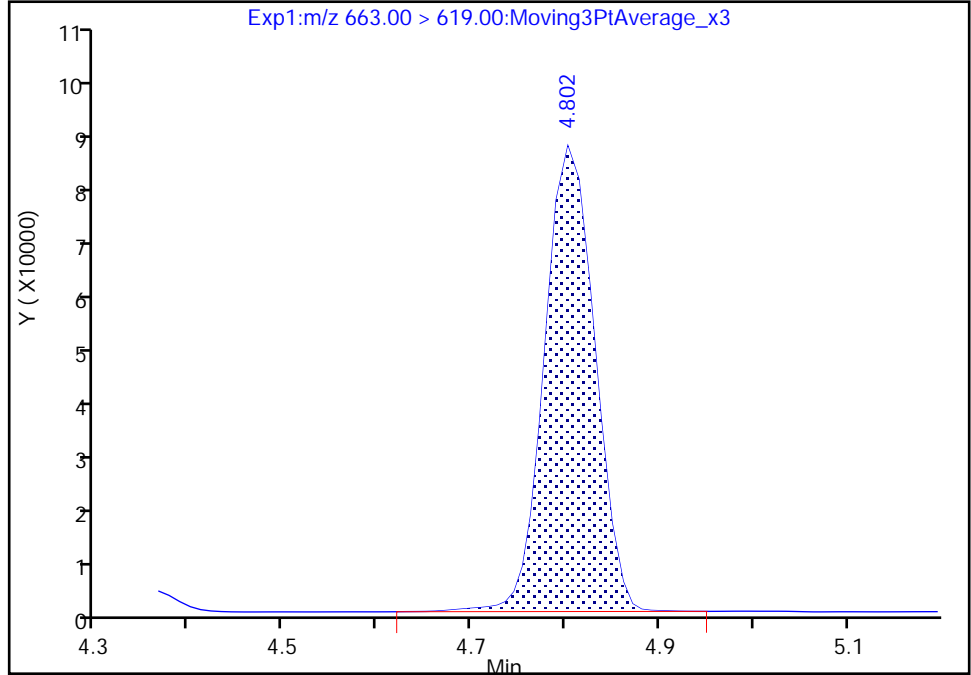
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

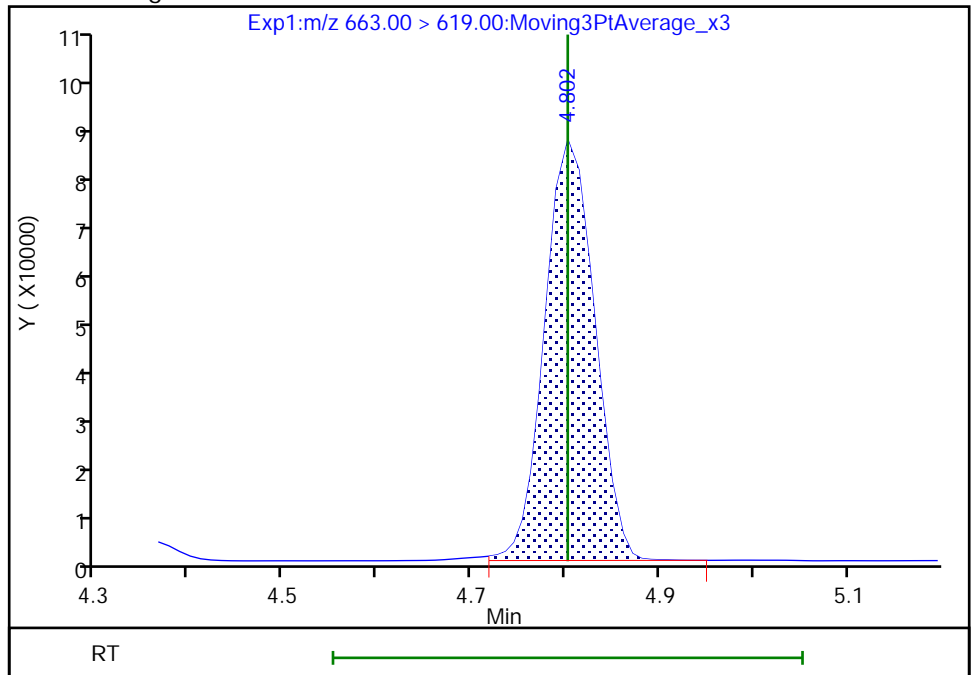
RT: 4.80  
Area: 324913  
Amount: 1.009498  
Amount Units: ng/ml

Processing Integration Results



RT: 4.80  
Area: 323186  
Amount: 1.004132  
Amount Units: ng/ml

Manual Integration Results





Euofins TestAmerica, Burlington

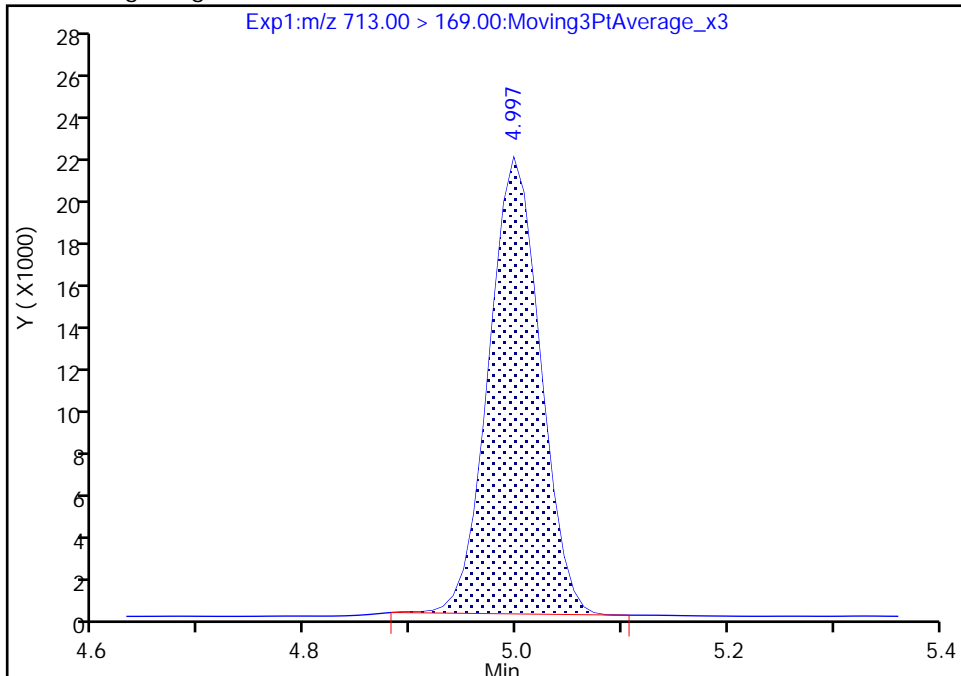
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

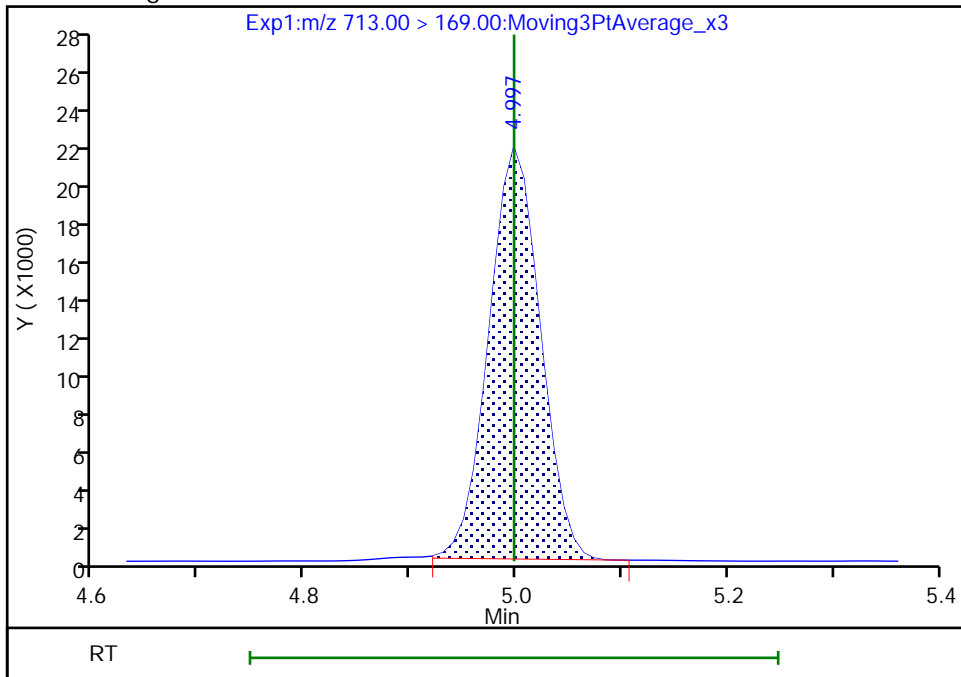
RT: 5.00  
Area: 73790  
Amount: 1.104928  
Amount Units: ng/ml

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

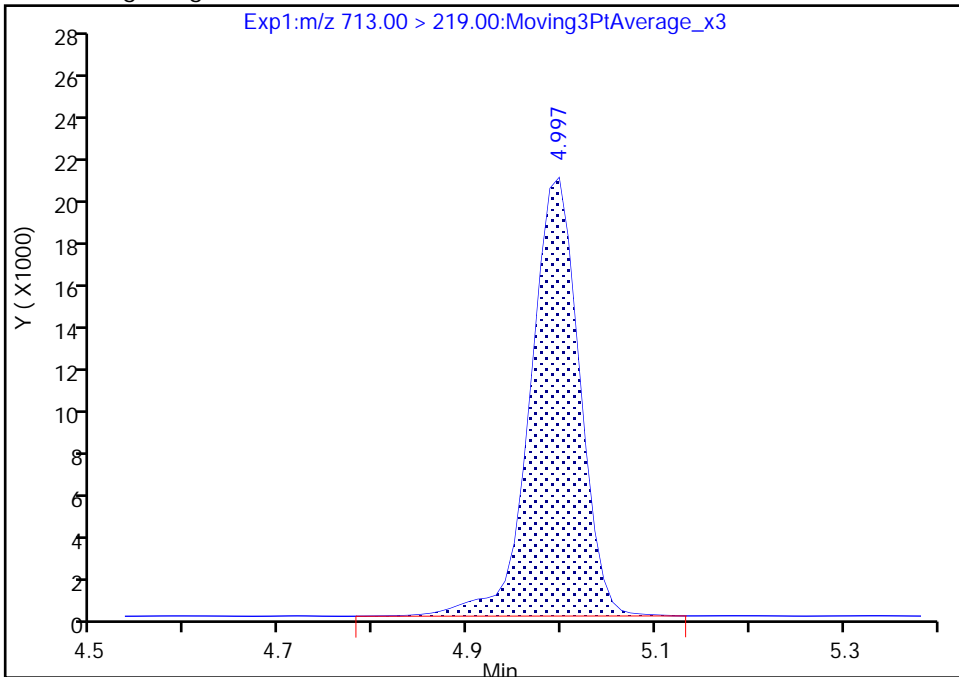
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL12.d  
Injection Date: 22-Sep-2020 20:28:29 Instrument ID: LC812  
Lims ID: ICV  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 9 Worklist Smp#: 12  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

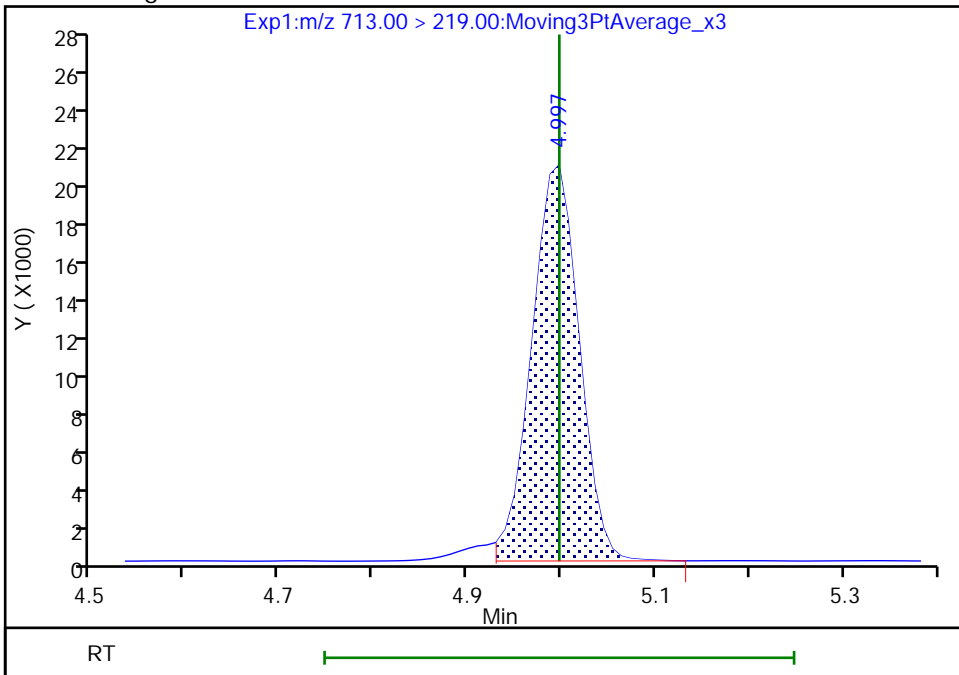
RT: 5.00  
Area: 73988  
Amount: 1.104928  
Amount Units: ng/ml

Processing Integration Results



RT: 5.00  
Area: 71553  
Amount: 1.102997  
Amount Units: ng/ml

Manual Integration Results



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 200-159389/5 Calibration Date: 09/30/2020 14:22  
 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: PA200930A05.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	0.9889		0.132	0.125	5.8	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	1.239		0.0587	0.0500	17.3	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.149		0.0510	0.0442	15.4	50.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.703		0.0492	0.0467	5.4	50.0
Perfluoroheptanoic acid (PFHxA)	AveID	1.007	1.167		0.0579	0.0500	15.9	50.0
Perfluoropentanesulfonic acid	AveID	1.184	1.308		0.0518	0.0469	10.5	50.0
HFPO-DA	AveID	2.128	2.024		0.0951	0.100	-4.9	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	1.036		0.0517	0.0500	3.4	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.348		0.0556	0.0455	22.1	50.0
DONA	AveID	3.081	3.235		0.0495	0.0471	5.0	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7481		0.111	0.119	-6.3	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.142		0.0469	0.0476	-1.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.171		0.0567	0.0500	13.4	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.124		0.0480	0.0464	3.4	50.0
Perfluorononanoic acid (PFNA)	AveID	1.018	1.059		0.0520	0.0500	4.0	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	1.104		0.0538	0.0466	15.4	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8405		0.0470	0.0480	-2.1	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.9819		0.0496	0.0500	-0.8	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.4184		0.0506	0.0479	5.7	50.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9348	1.038		0.0555	0.0500	11.0	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	1.059		0.140	0.125	12.2	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.7569		0.0508	0.0482	5.3	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	1.083		0.0549	0.0500	9.9	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	1.013		0.138	0.125	10.6	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7478		0.0427	0.0471	-9.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	1.059		0.0543	0.0500	8.6	50.0
10:2 FTS	AveID	0.2199	0.3119		0.0684	0.0482	41.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.2580		0.0542	0.0484	11.9	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8995		0.0543	0.0500	8.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2464		0.0538	0.0500	7.6	50.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 200-159389/5 Calibration Date: 09/30/2020 14:22  
 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: PA200930A05.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		1.149		0.0427	0.0500	-14.6	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.8537		0.0571	0.0500	14.2	50.0
13C4 PFBA	Ave	1.433	1.493		1.30	1.25	4.2	50.0
13C5 PFPeA	Ave	1.027	1.032		1.26	1.25	0.5	50.0
13C3 PFBS	Ave	1.251	1.174		1.09	1.16	-6.1	50.0
M2-4:2 FTS	Ave	0.0939	0.0953		1.18	1.17	1.4	50.0
13C2 PFHxA	Ave	1.058	1.111		1.31	1.25	5.1	50.0
13C3 HFPO-DA	Ave	0.0985	0.1174		1.49	1.25	19.1	50.0
13C4 PFHpA	Ave	0.9620	0.9644		1.25	1.25	0.2	50.0
18O2 PFHxS	Ave	0.8974	0.8918		1.18	1.18	-0.6	50.0
M2-6:2 FTS	Ave	0.1199	0.1265		1.25	1.19	5.5	50.0
13C4 PFOA	Ave	0.9845	0.9414		1.20	1.25	-4.4	50.0
13C4 PFOS	Ave	0.7341	0.7179		1.17	1.20	-2.2	50.0
13C5 PFNA	Ave	0.8296	0.7958		1.20	1.25	-4.1	50.0
13C2 PFDA	Ave	0.7956	0.7768		1.22	1.25	-2.4	50.0
M2-8:2 FTS	Ave	0.1413	0.1418		1.20	1.20	0.4	50.0
13C8 FOSA	Ave	1.282	1.204		1.17	1.25	-6.1	50.0
d3-NMeFOSAA	Ave	0.0453	0.0456		1.26	1.25	0.6	50.0
13C2 PFUnA	Ave	0.6006	0.5726		1.19	1.25	-4.7	50.0
d5-NEtFOSAA	Ave	0.0487	0.0471		1.21	1.25	-3.3	50.0
13C2 PFDoA	Ave	0.6348	0.5465		1.08	1.25	-13.9	50.0
13C2 PFTeDA	Ave	0.4522	0.3944		1.09	1.25	-12.8	50.0
13C2 PFHxDA	Ave	0.5124	0.3850		0.939	1.25	-24.9	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
 Lims ID: CCVL  
 Client ID:  
 Sample Type: CCVL  
 Inject. Date: 30-Sep-2020 14:22:29 ALS Bottle#: 2 Worklist Smp#: 5  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCVL  
 Misc. Info.: 200-0043031-005 Plate: 1 Rack: 1  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 13:34:23 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 08:35:17

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	1.990	1.990	0.0	0.577	966804	1.30	104	14345	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.000	1.990	0.010	1.005	95611	0.1322		106	30.6	M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	668227	1.26	100	3299	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	33122	0.0587		117	2.5	M
D 47 13C3 PFBS	301.90 > 80.00	2.353	2.339	0.014	0.682	707147	1.09	93.9	262367	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.353	0.0	1.000	30906	0.0510	Target=2.07	115	161	M
298.90 > 99.00	2.353	2.353	0.0	1.000	14619		2.11(1.04-3.11)		32.9	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.665	2.665	0.0	0.773	57647	1.18	101	136	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.665	2.665	0.0	1.000	3927	0.0492		105	128	
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.784	719836	1.31	105	2625	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	33595	0.0579	Target=12.44	116	20.5	M
313.00 > 119.00	2.703	2.703	0.0	1.000	3738		8.99(6.22-18.66)		4.0	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.716	2.703	0.013	0.881	28351	0.0518	Target=3.64	110	244	M
349.00 > 99.00	2.716	2.703	0.013	0.881	7846		3.61(1.82-5.46)		81.7	M
D 64 13C3 HFPO-DA	332.10 > 287.00	2.818	2.810	0.008	0.817	76039	1.49	119	1017	

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	12312	0.0951		95.1	4.0	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.084	3.073	0.011	0.894	546429	1.18		99.4	2512	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.000	28351	0.0556	Target=4.60	122	119	M
399.00 > 99.00	3.084	3.073	0.011	1.000	7160		3.96(2.30-6.91)		21.5	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.084	0.0	0.894	624627	1.25		100	1917	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	25881	0.0517	Target=3.34	103	20.8	M
363.00 > 169.00	3.084	3.084	0.0	1.000	9386		2.76(1.67-5.01)		16.1	M
77 DONA										
377.00 > 251.00	3.124	3.115	0.009	0.830	56686	0.0495	Target=2.44	105	299	
377.00 > 85.00	3.124	3.115	0.009	0.830	23693		2.39(1.22-3.67)		88.8	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.433	0.009	0.914	20228	0.0469	Target=7.08	98.6	243	M
449.00 > 99.00	3.441	3.433	0.009	0.914	2835		7.14(3.54-10.63)		56.8	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.009	1.000	5810	0.1111		93.7	171	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.997	77823	1.25		105	804	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	609755	1.20		95.6	2342	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		647706	1.25			2935	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.458	3.450	0.008	1.003	28560	0.0567	Target=2.29	113	18.3	M
413.00 > 169.00	3.458	3.450	0.008	1.003	10922		2.61(1.14-3.43)		29.7	
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	444539	1.17		97.8	2675	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	19396	0.0480	Target=7.10	103	96.6	M
499.00 > 99.00	3.765	3.765	0.0	1.000	3733		5.20(3.55-10.64)		39.1	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	515439	1.20		95.9	3395	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.786	3.786	0.0	1.000	21834	0.0520	Target=5.83	104	9.1	M
463.00 > 169.00	3.786	3.786	0.0	1.000	4032		5.42(2.91-8.74)		83.8	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.932	3.922	0.010	1.044	19130	0.0538		115	256	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.062	4.052	0.010	1.079	15008	0.0470	Target=3.38	97.9	278	M
549.00 > 99.00	4.052	4.052	0.0	1.076	4278		3.51(1.69-5.08)		37.8	M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	503160	1.22		97.6	4199	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.082	4.082	0.0	1.000	19762	0.0496	Target=6.81	99.2	59.3	
513.00 > 169.00	4.082	4.082	0.0	1.000	2922		6.76(3.41-10.22)		61.1	M
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.103	4.082	0.021	1.003	1473	0.0506		106	46.8	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	88015	1.20		100	1022	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.139	0.012	1.203	780073	1.17		93.9	3776	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.151	4.139	0.012	1.000	32387	0.0555		111	123	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.224	29510	1.26		101	592	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.235	4.224	0.011	1.002	3124	0.1402		112	36.6	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.321	4.309	0.012	1.147	13572	0.0508	Target=3.31	105	109	M
599.00 > 99.00	4.321	4.309	0.012	1.147	3902		3.48(1.66-4.97)		40.2	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	370884	1.19		95.3	3391	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.343	4.343	0.0	1.000	16074	0.0549	Target=6.57	110	28.7	M
563.00 > 169.00	4.343	4.343	0.0	1.000	1822		8.82(3.28-9.85)		39.7	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	30490	1.21		96.7	675	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.366	4.355	0.011	1.003	3088	0.1383		111	101	M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.444	4.433	0.011	1.180	13103	0.0427		90.7	312	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	353942	1.08		86.1	3979	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.573	4.573	0.0	1.000	14994	0.0543	Target=5.16	109	18.9	M
613.00 > 169.00	4.573	4.573	0.0	1.000	2538		5.91(2.58-7.75)		57.4	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.597	4.585	0.012	1.124	1105	0.0684		142		M
75 Perfluorododecanesulfonic acid (										M
699.00 > 80.00	4.754	4.736	0.018	1.263	4645	0.0542	Target=0.45	112	28.0	M
699.00 > 99.00	4.745	4.736	0.009	1.260	8829		0.53(0.22-0.67)		154	M
41 Perfluorotridecanoic acid										M
663.00 > 619.00	4.781	4.772	0.009	1.045	12735	0.0543	Target=3.30	109	16.8	M
663.00 > 169.00	4.781	4.772	0.009	1.045	3445		3.70(1.65-4.95)		113	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.969	0.010	1.443	255468	1.09		87.2	2325	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.979	4.969	0.010	1.000	2518	0.0538	Target=1.06	108	135	M
713.00 > 219.00	4.969	4.969	0.0	0.998	2466		1.02(0.53-1.59)		90.8	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	5.340	5.329	0.011	1.548	249360	0.9391		75.1	3147	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.340	5.329	0.011	1.000	11463	0.0427	Target=3.06	85.4	11.6	
813.00 > 169.00	5.340	5.329	0.011	1.000	4093		2.80(1.53-4.58)		136	M
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.703	5.694	0.009	1.068	8515	0.0571	Target=2.82	114	24.4	
913.00 > 169.00	5.694	5.694	0.0	1.066	3091		2.75(1.41-4.24)		134	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

PFAS32NCLOQV\_00010

Amount Added: 100.00

Units: uL



Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d

Injection Date: 30-Sep-2020 14:22:29

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

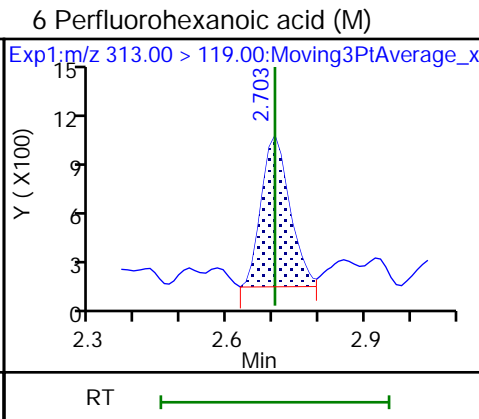
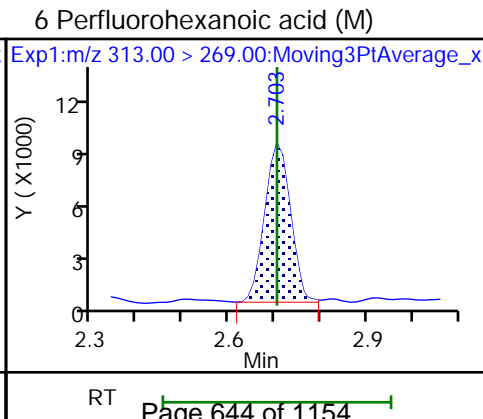
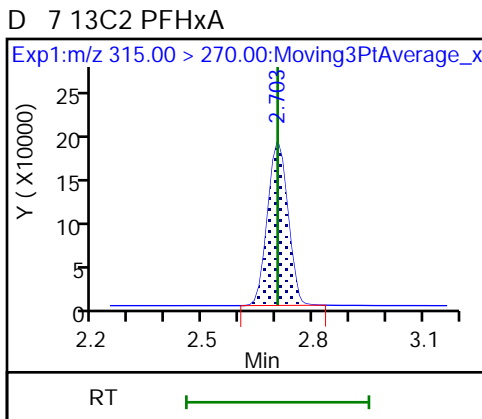
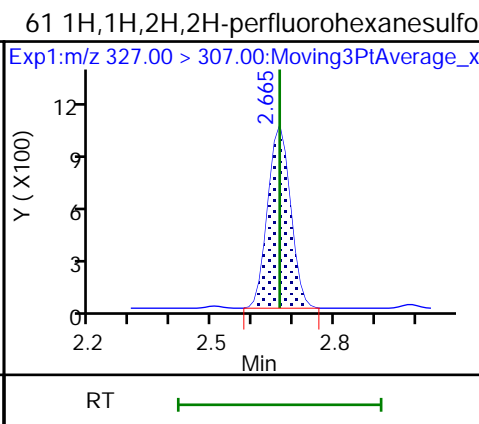
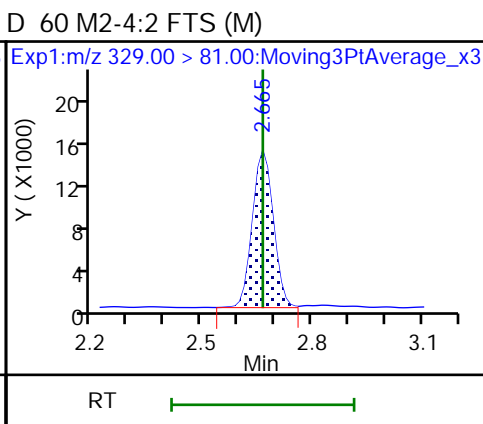
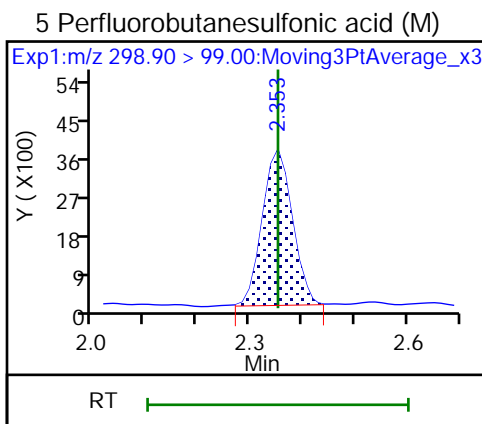
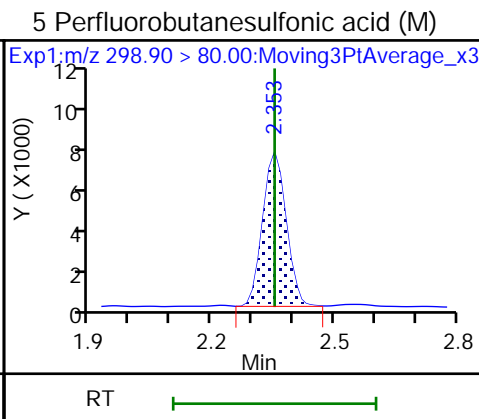
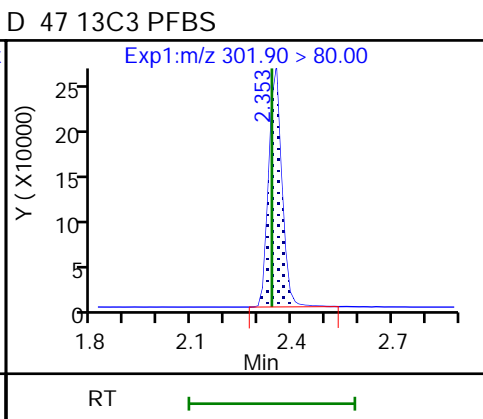
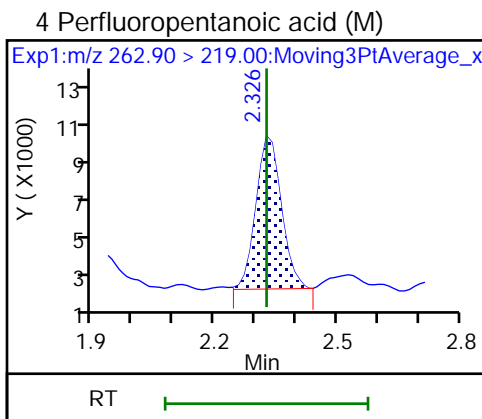
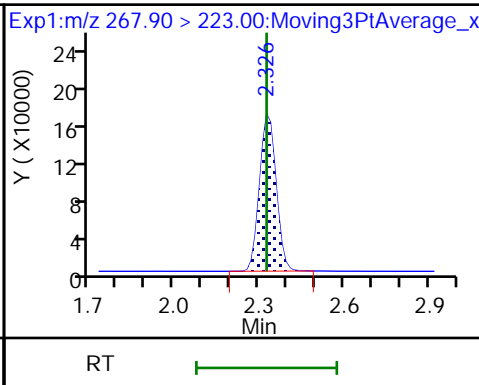
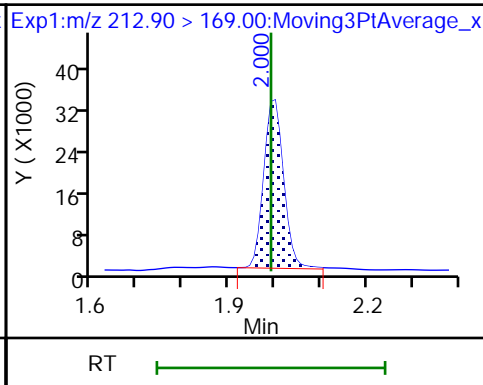
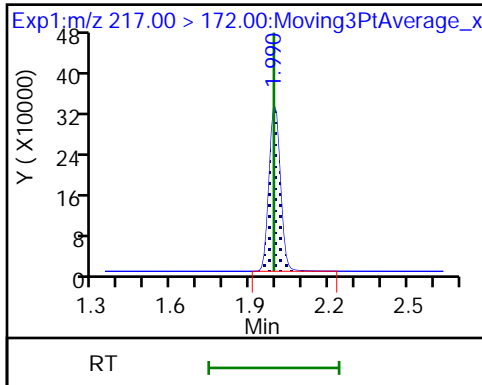
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

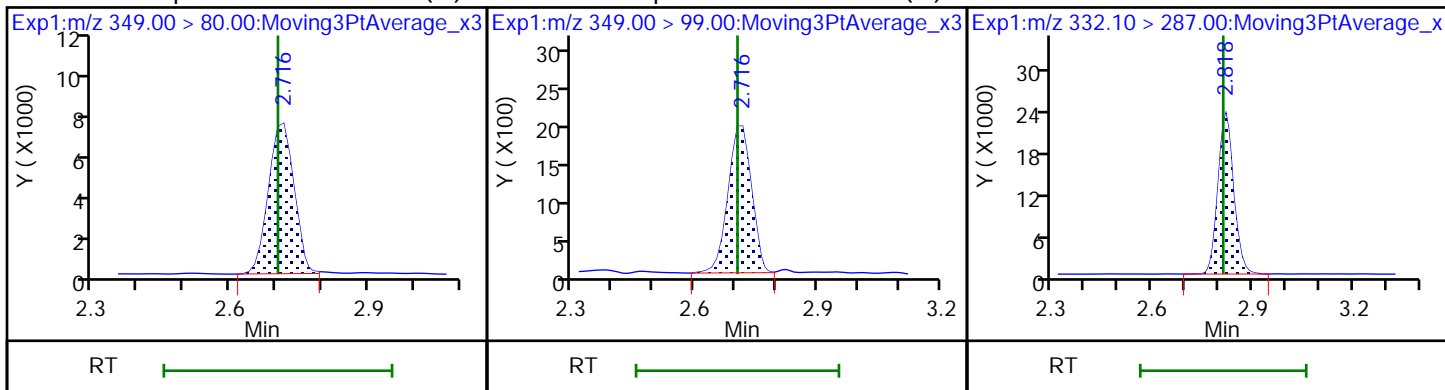
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

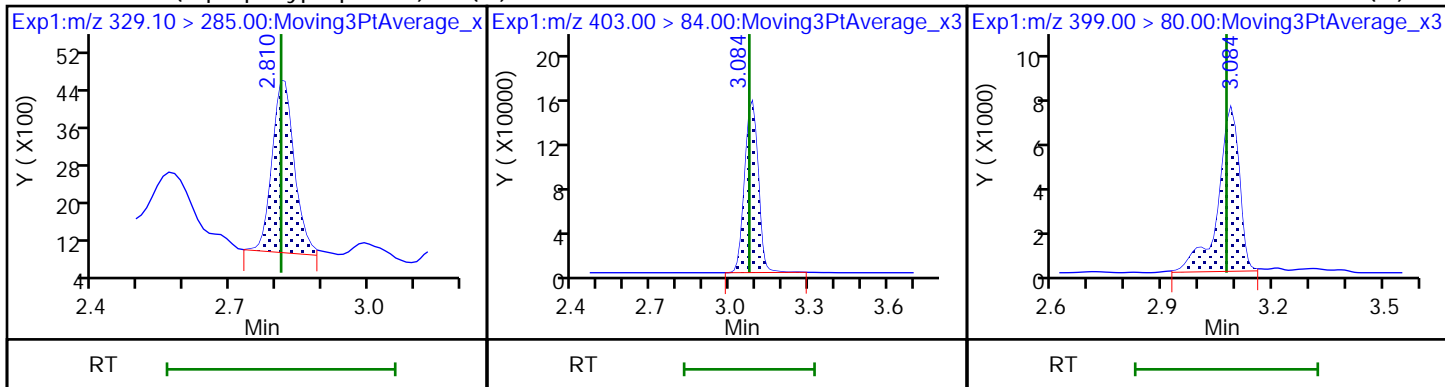
D 3 13C5 PFPeA



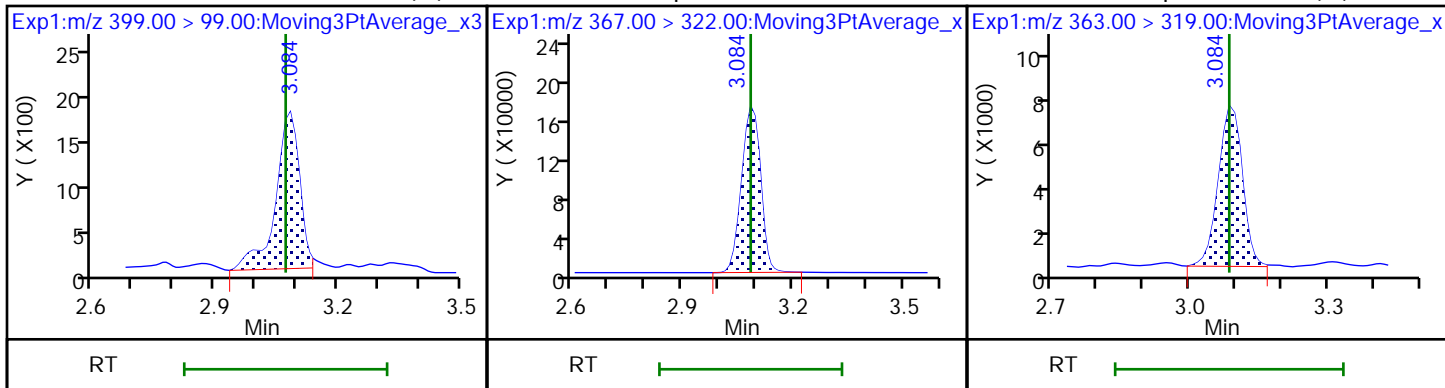
70 Perfluoropentanesulfonic acid (M) 70 Perfluoropentanesulfonic acid (M) D 64 13C3 HFPO-DA



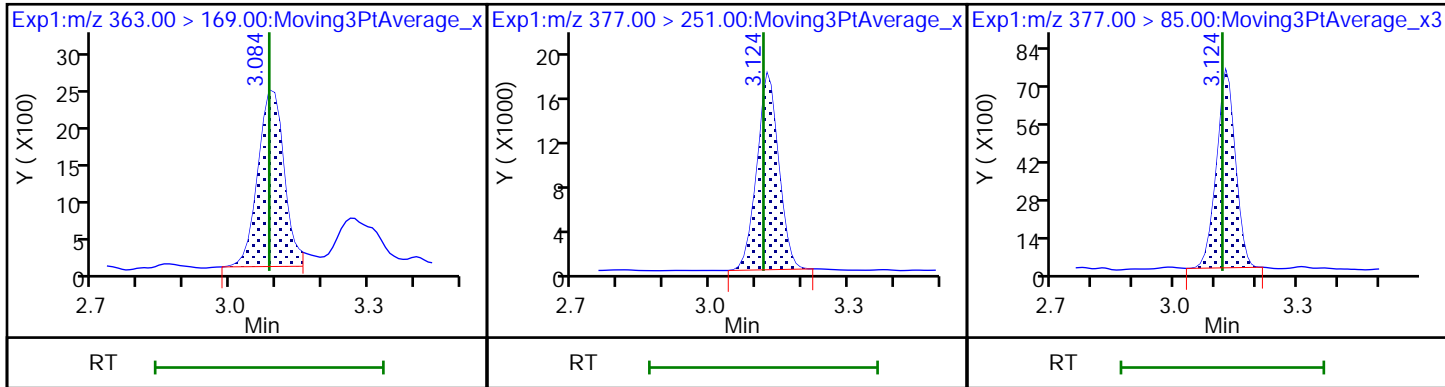
67 Perfluoro(2-propoxypropanoic) ac (M) 11 18O2 PFHxS 8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M) D 9 13C4 PFHpA 10 Perfluoroheptanoic acid (M)



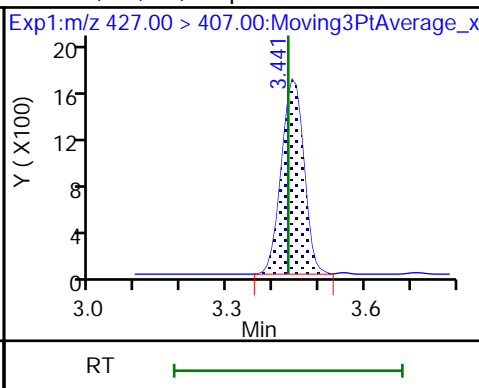
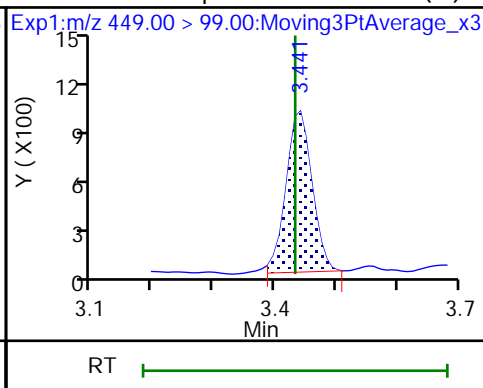
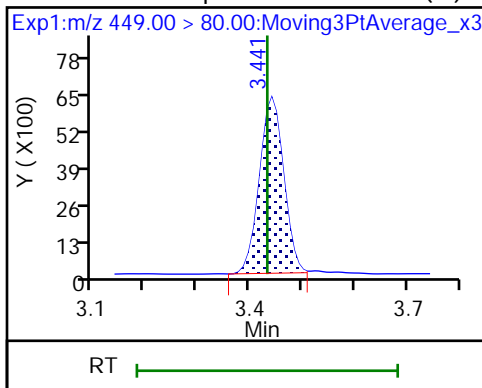
10 Perfluoroheptanoic acid (M) 77 DONA 77 DONA



16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

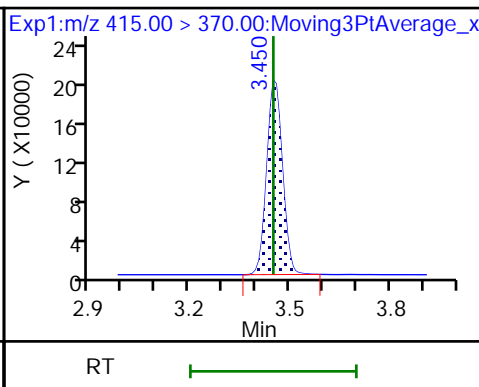
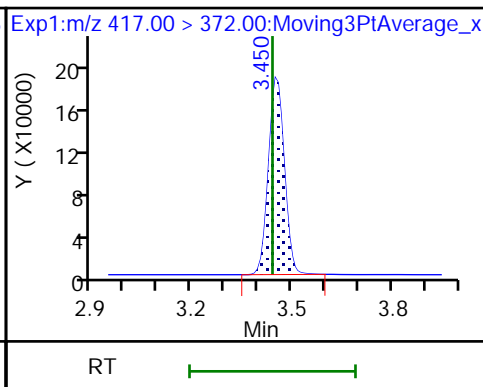
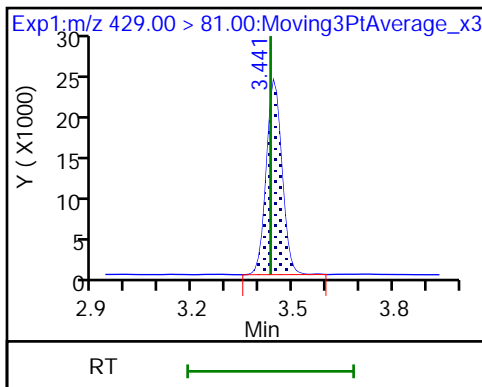
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



D 12 M2-6:2 FTS

D 14 13C4 PFOA

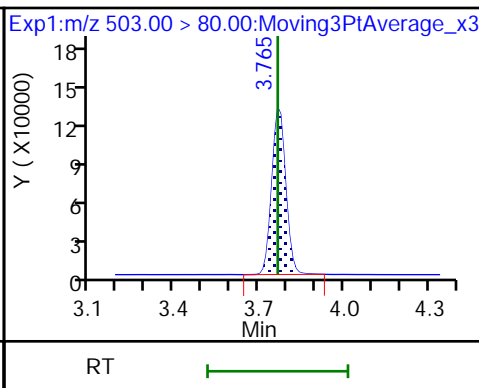
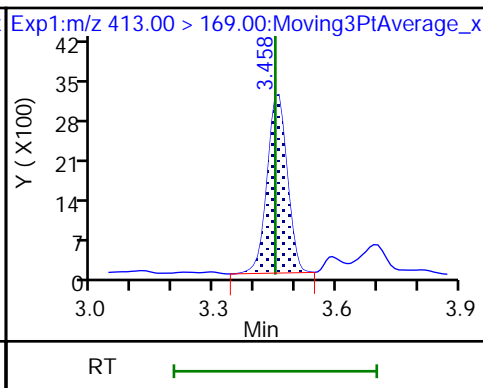
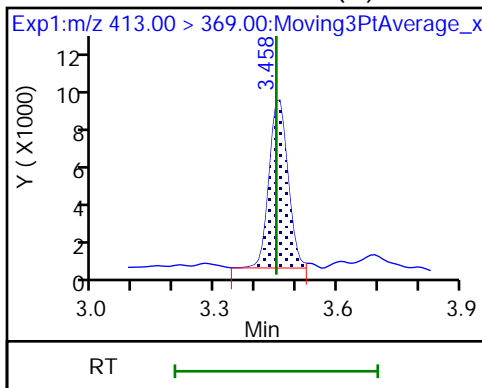
\* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid

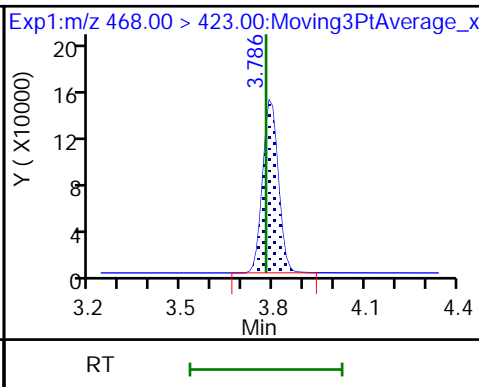
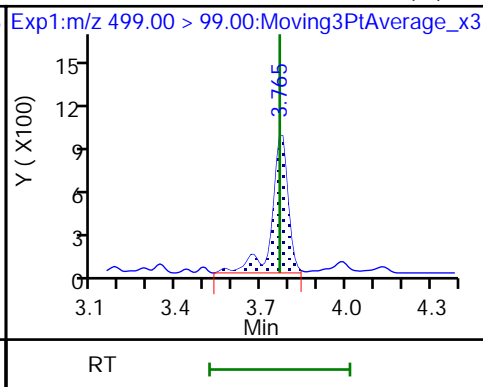
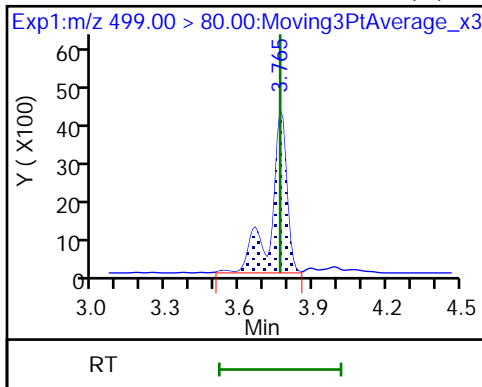
D 18 13C4 PFOS

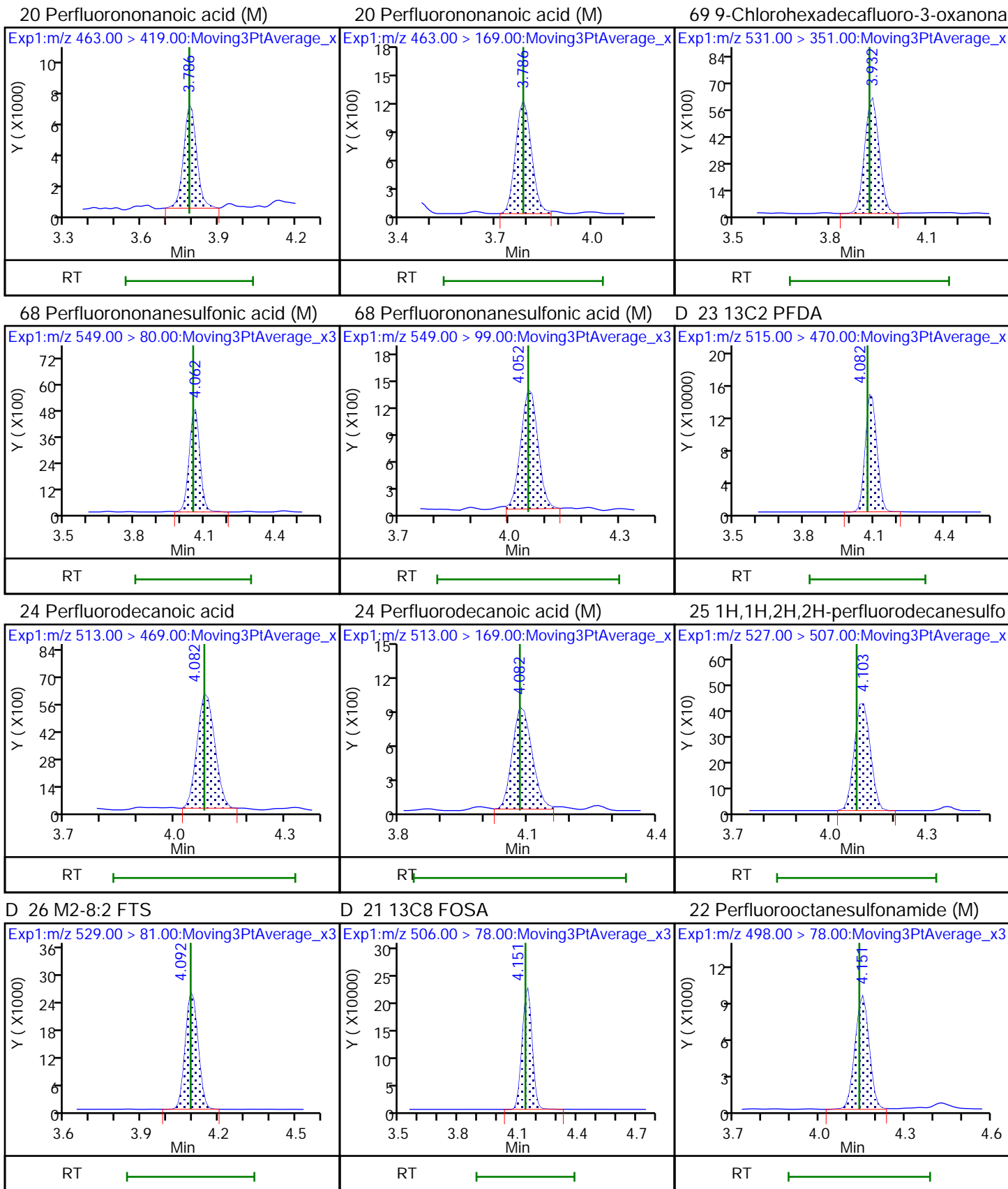


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

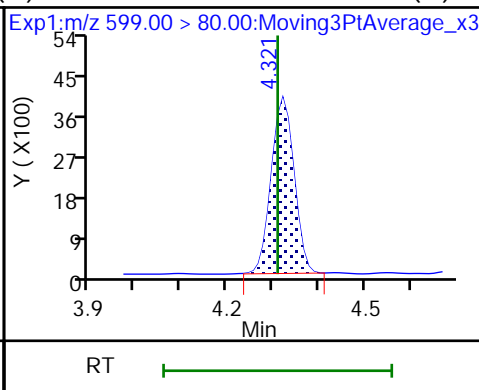
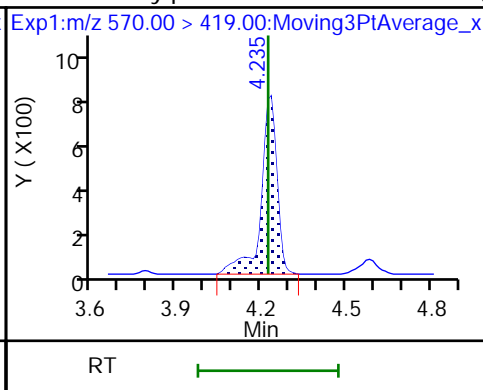
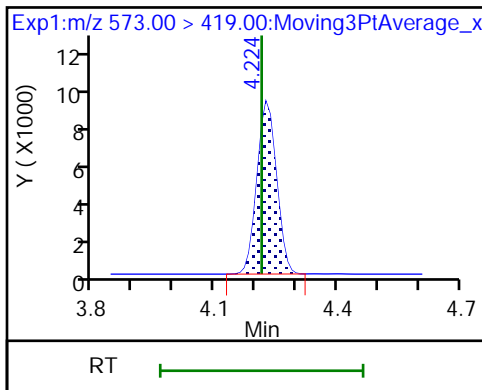
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

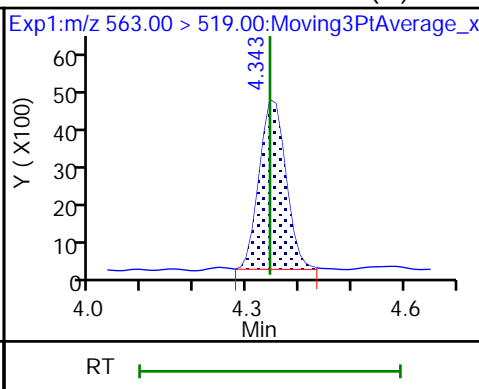
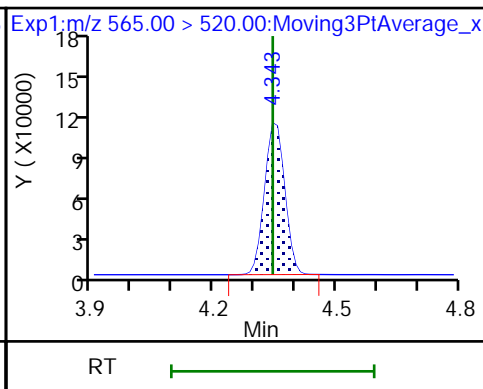
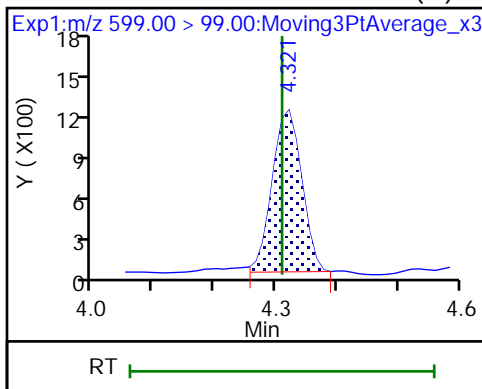
28 N-methylperfluorooctanesulfonami (M)  
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

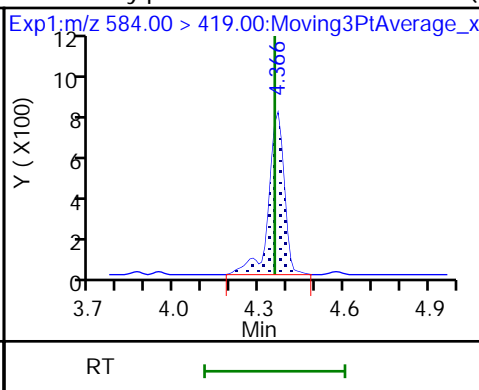
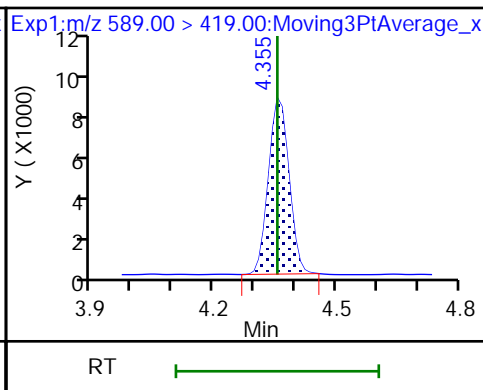
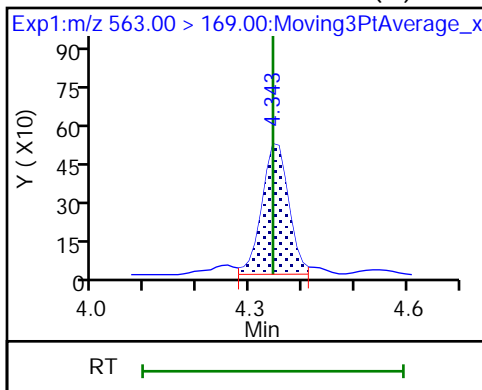
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

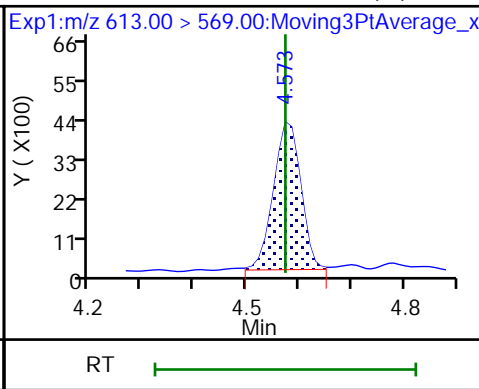
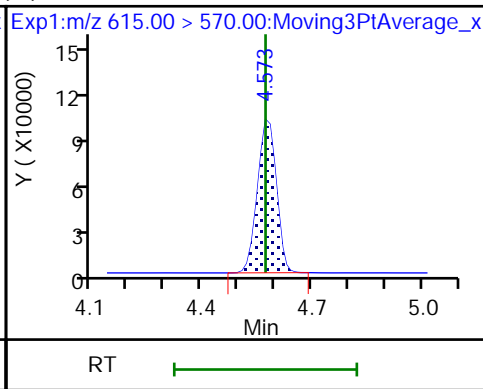
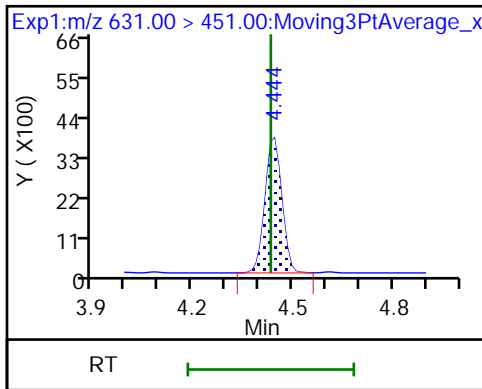
33 N-ethylperfluorooctanesulfonamid (M)



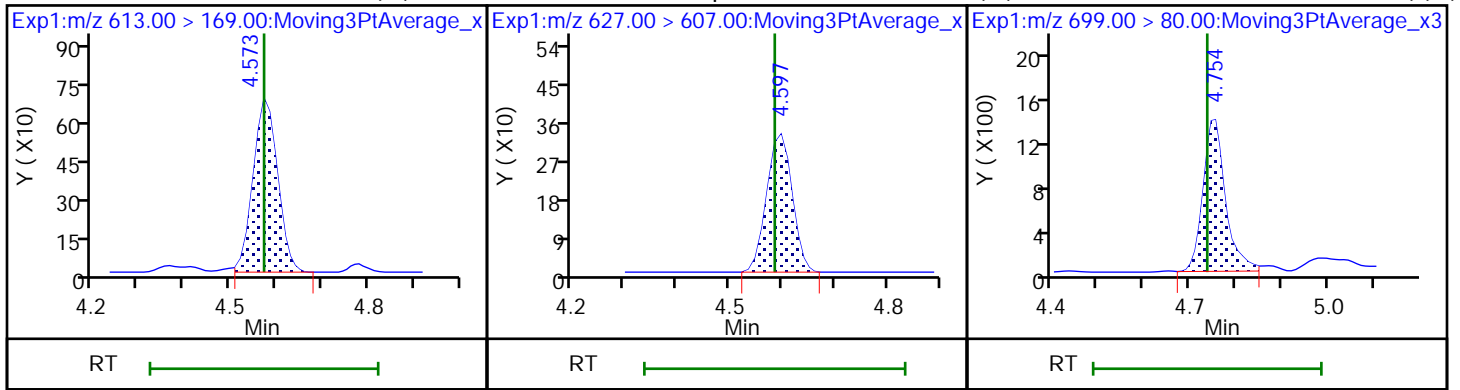
66 11-Chloroeicosafuoro-3-oxaundec (M)

D 36 13C2 PFDoA

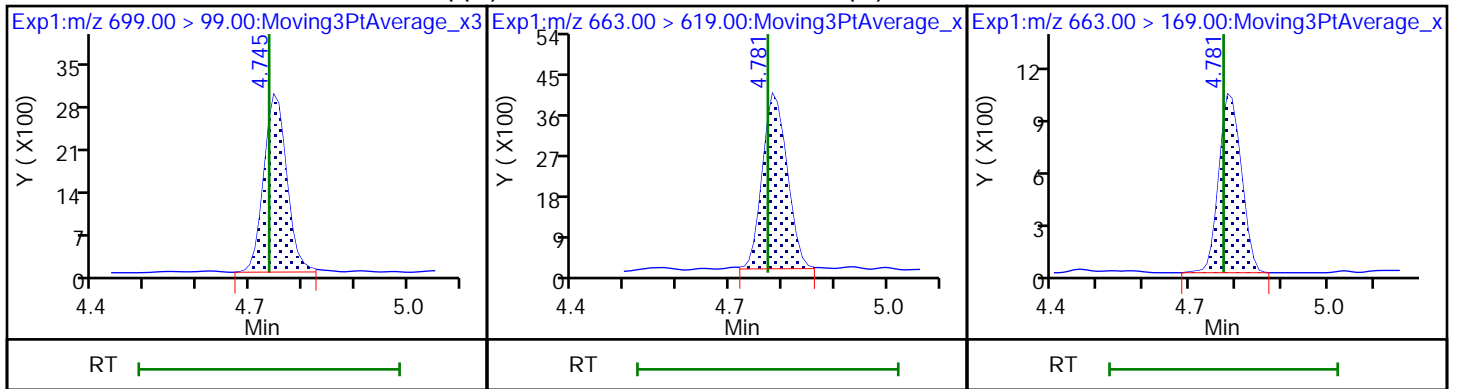
37 Perfluorododecanoic acid (M)



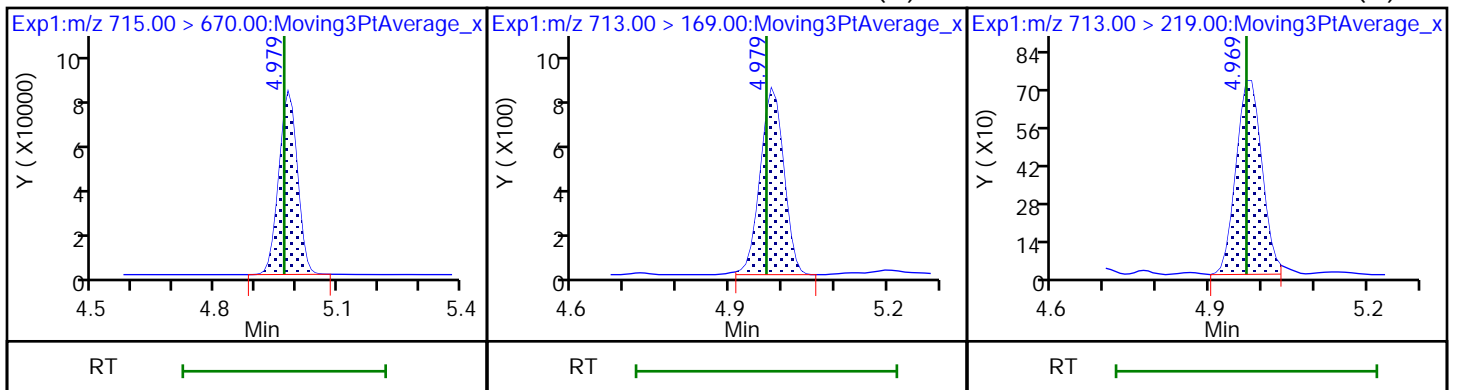
37 Perfluorododecanoic acid (M) 74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



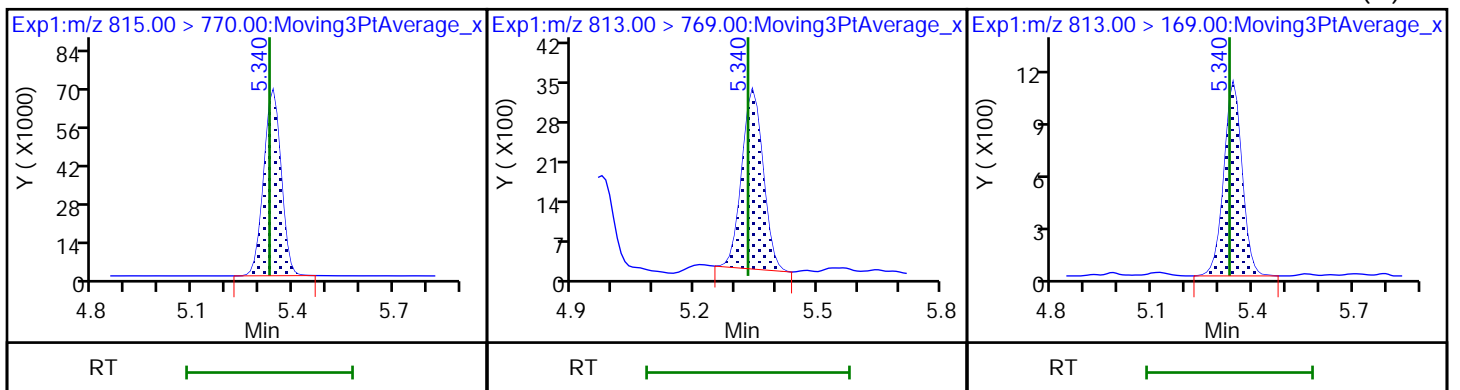
75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M) 41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA 42 Perfluorotetradecanoic acid (M) 42 Perfluorotetradecanoic acid (M)

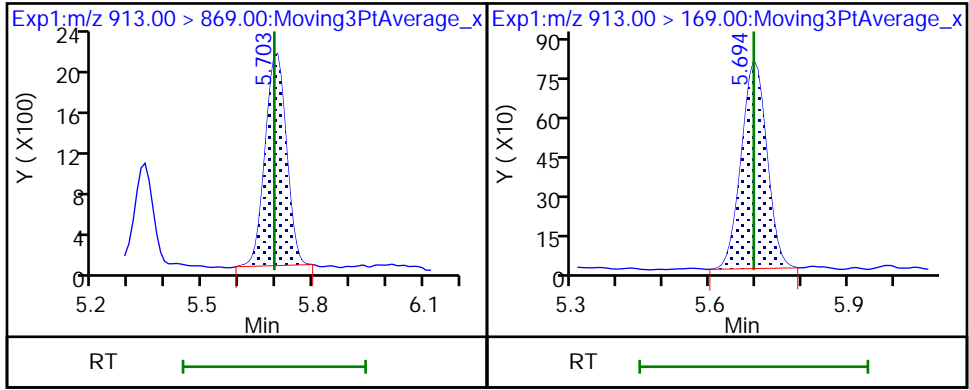


D 44 13C2 PFHxDA 45 Perfluorohexadecanoic acid 45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Euofins TestAmerica, Burlington

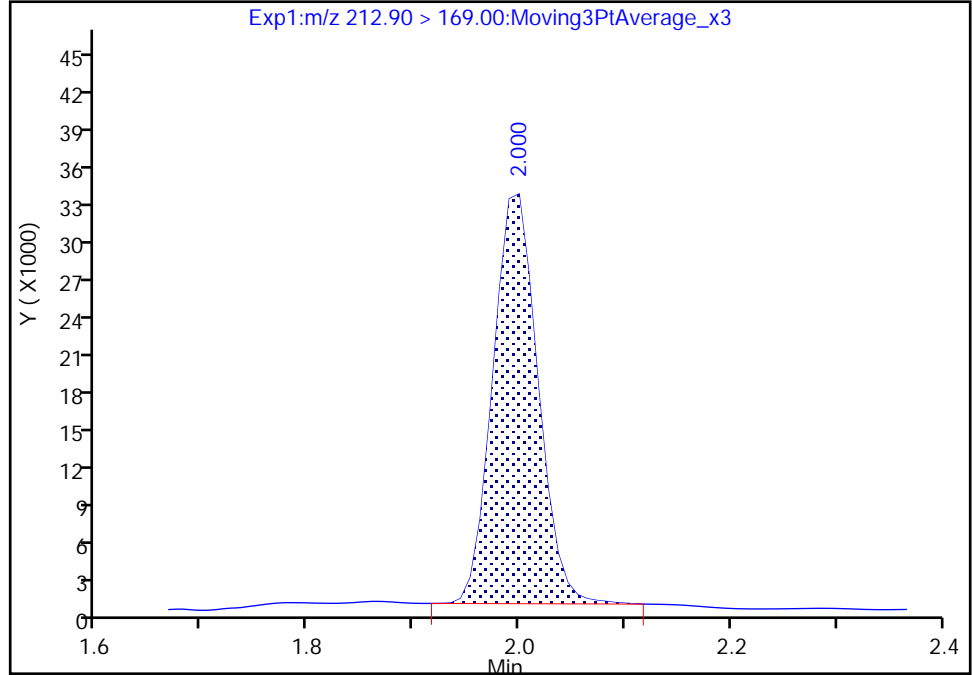
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

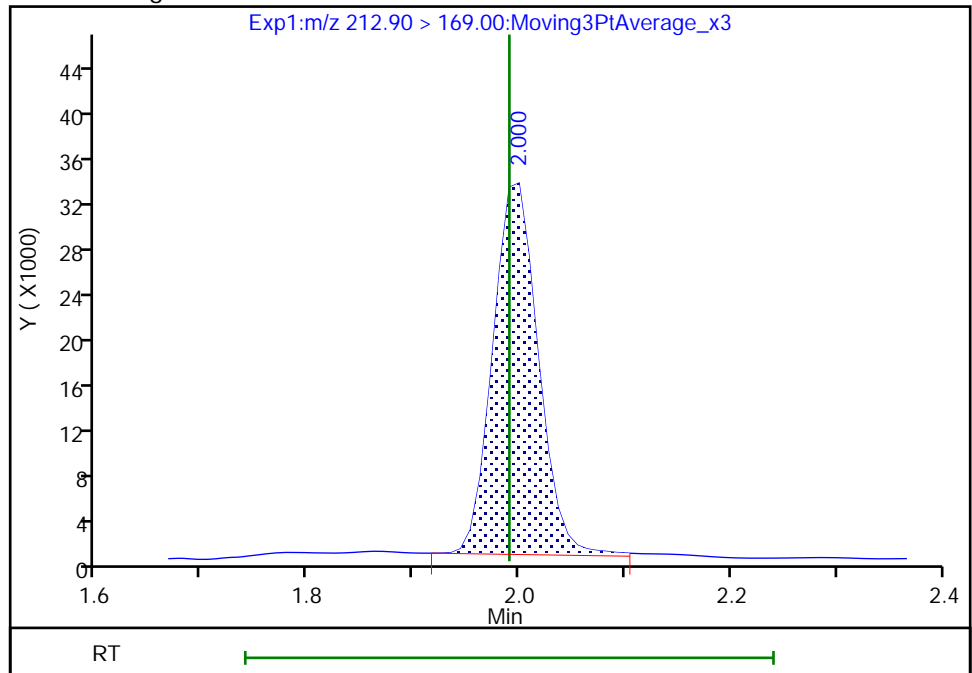
RT: 2.00  
Area: 94408  
Amount: 0.130584  
Amount Units: ng/ml

Processing Integration Results



RT: 2.00  
Area: 95611  
Amount: 0.132248  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:25:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

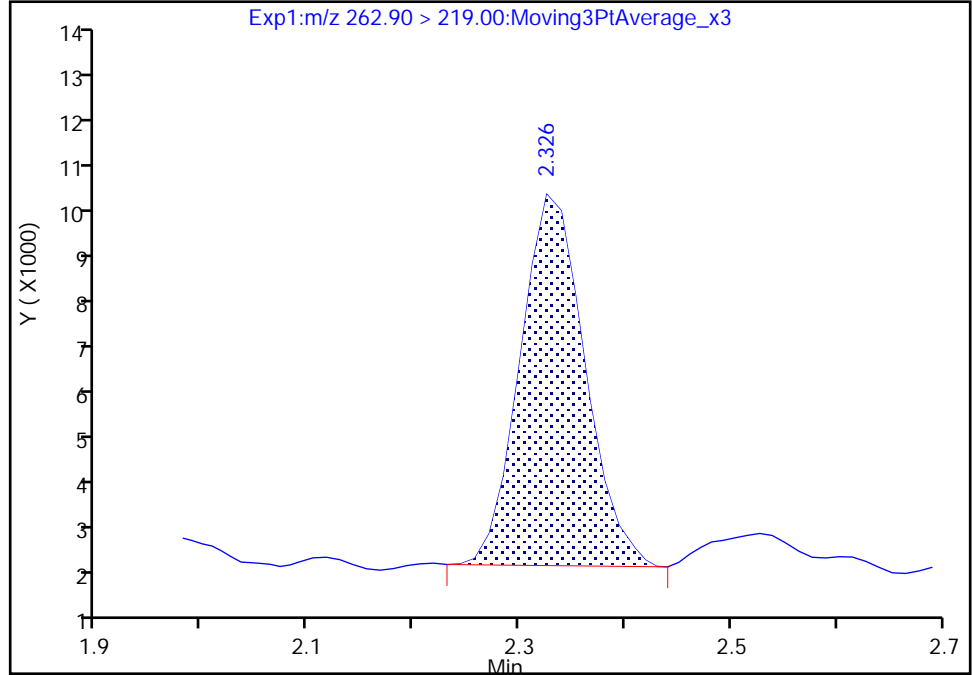
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

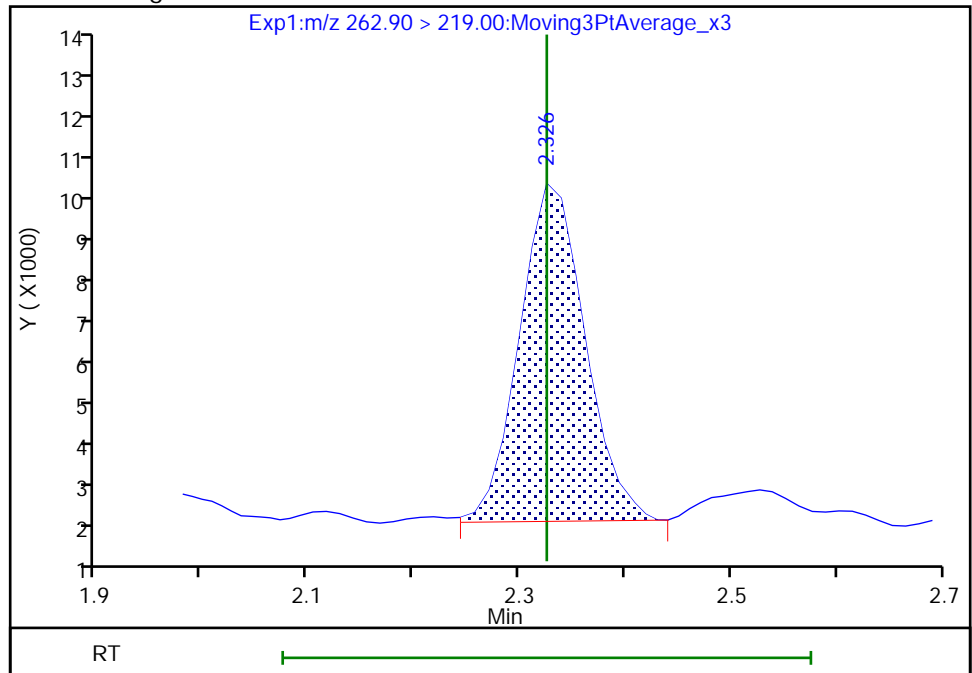
RT: 2.33  
Area: 32564  
Amount: 0.057680  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 33122  
Amount: 0.058669  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:26:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

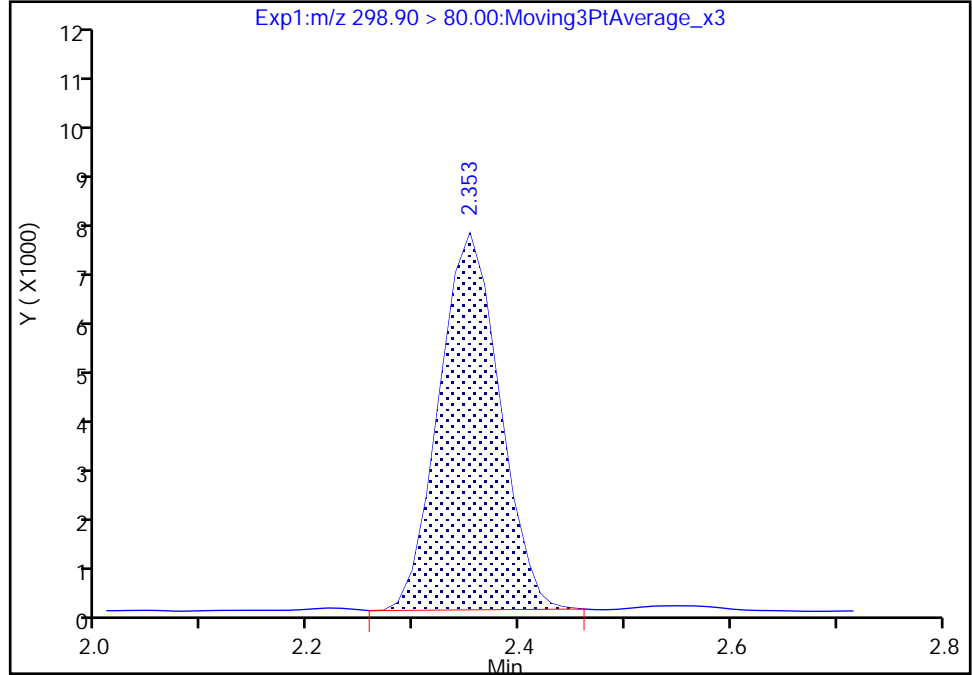
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

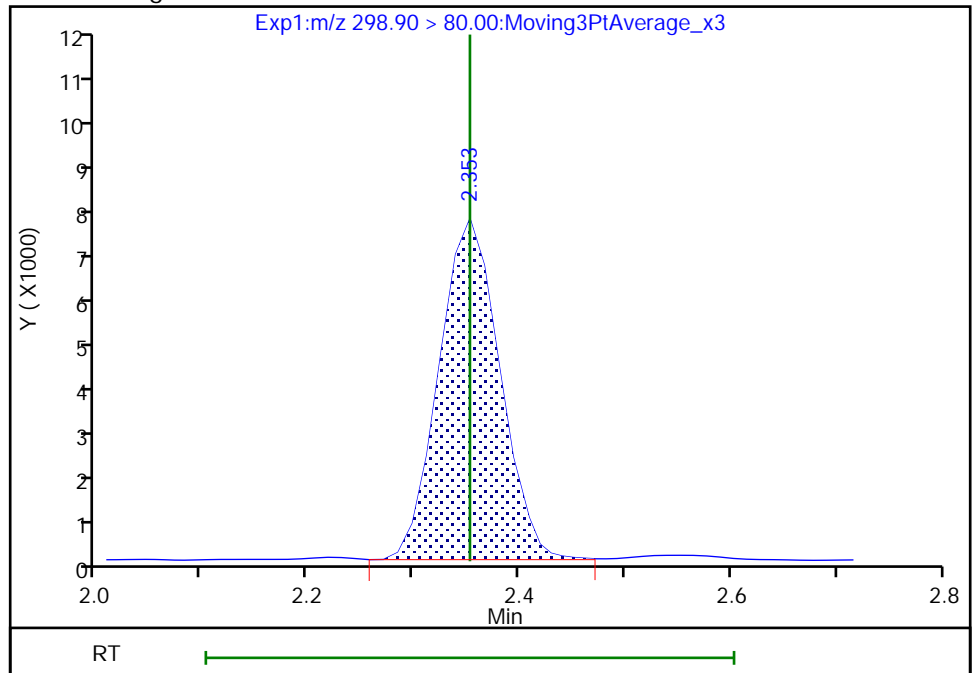
RT: 2.35  
Area: 30688  
Amount: 0.050631  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 30906  
Amount: 0.050990  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:26:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

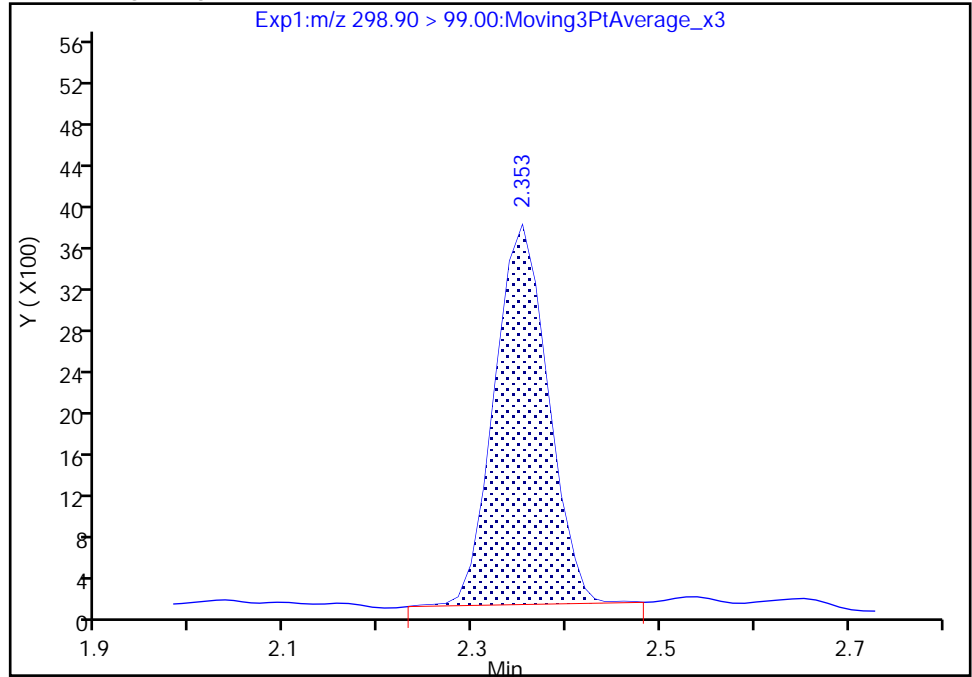
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

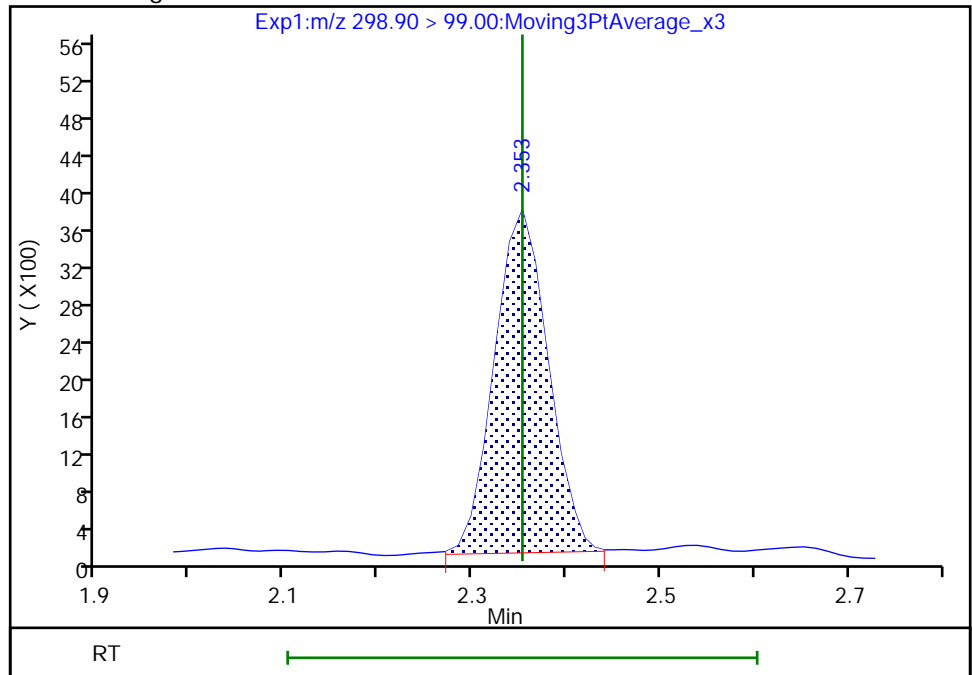
RT: 2.35  
Area: 14617  
Amount: 0.050631  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 14619  
Amount: 0.050990  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:26:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

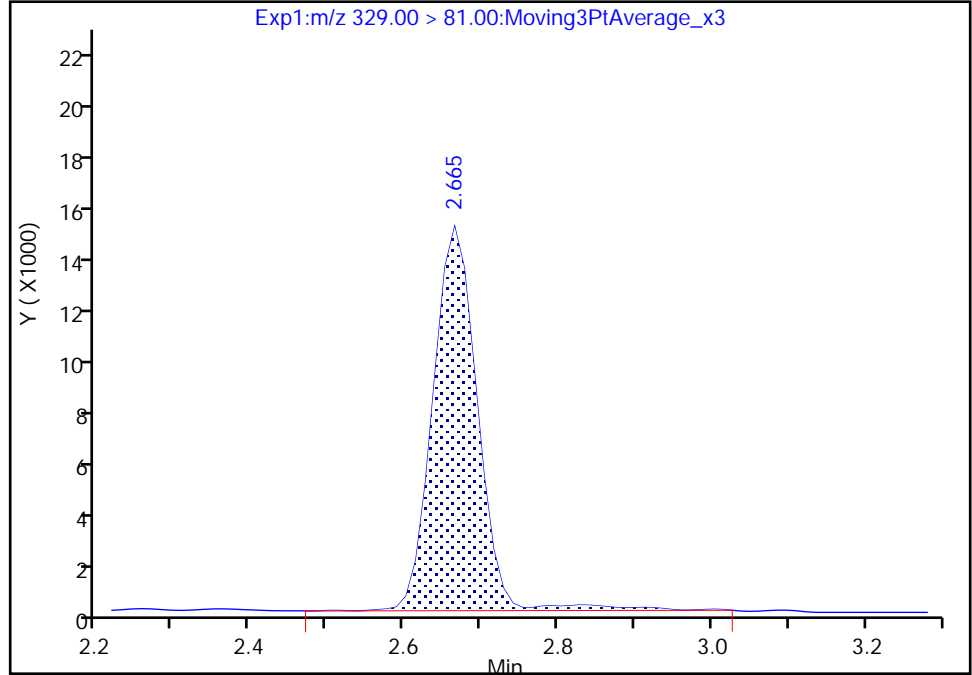
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 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

D 60 M2-4:2 FTS, CAS: STL02395  
Signal: 1

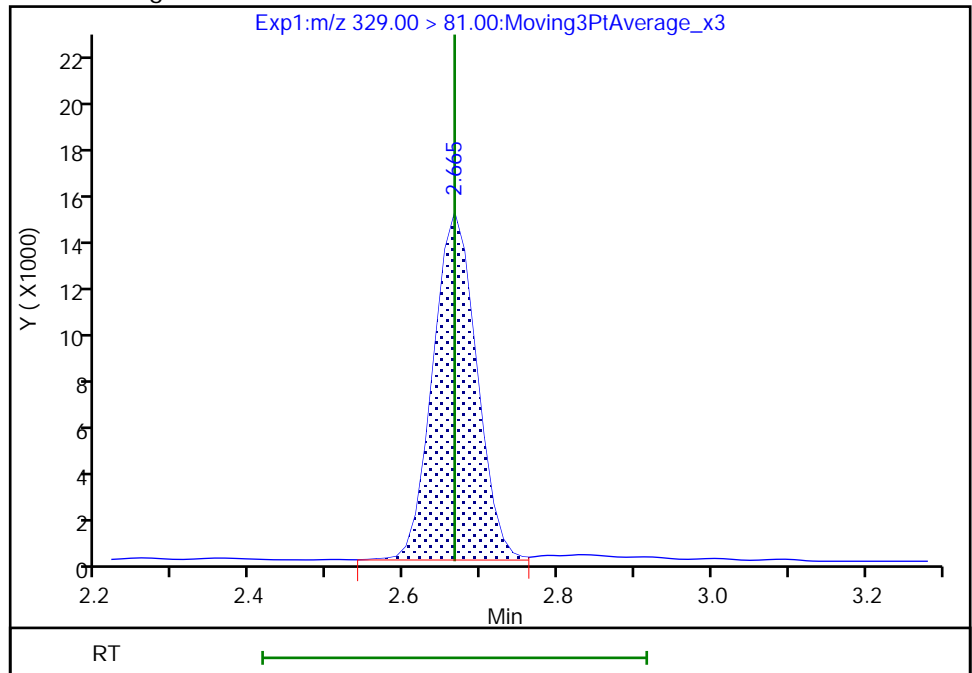
RT: 2.67  
Area: 59158  
Amount: 1.215257  
Amount Units: ng/ml

Processing Integration Results



RT: 2.67  
Area: 57647  
Amount: 1.184217  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:24:19  
Audit Action: Manually Integrated

Audit Reason: Split Peak

Euofins TestAmerica, Burlington

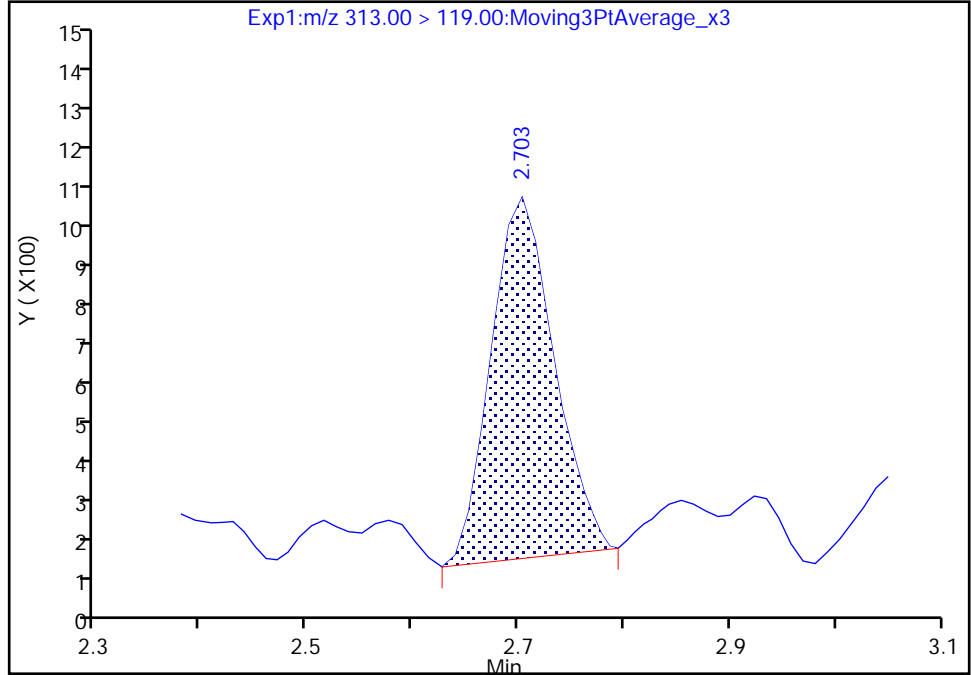
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

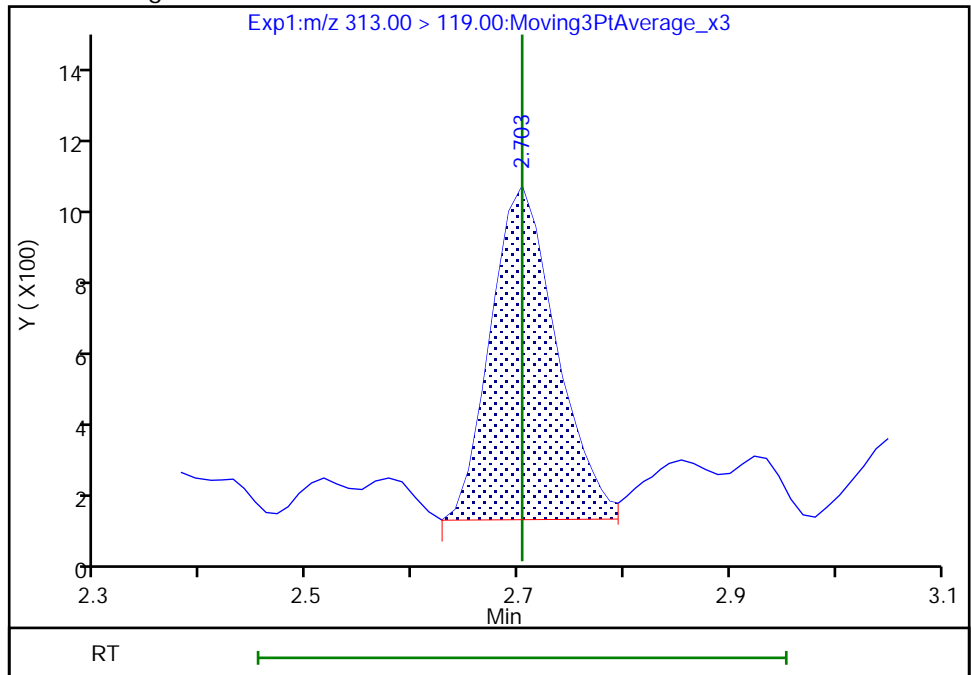
RT: 2.70  
Area: 3533  
Amount: 0.058765  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 3738  
Amount: 0.057935  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:27:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

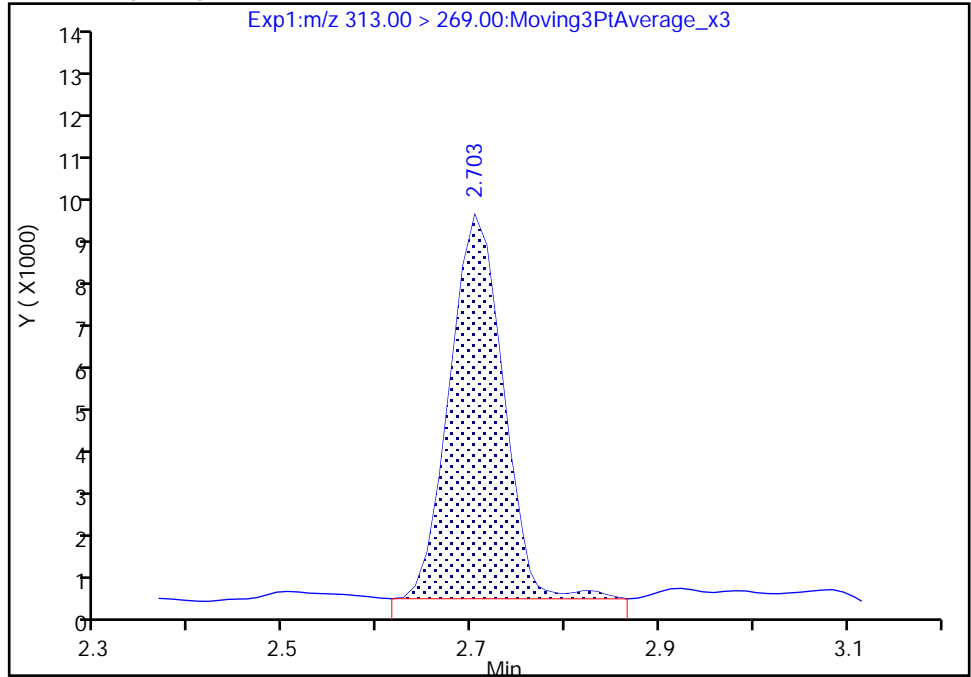
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

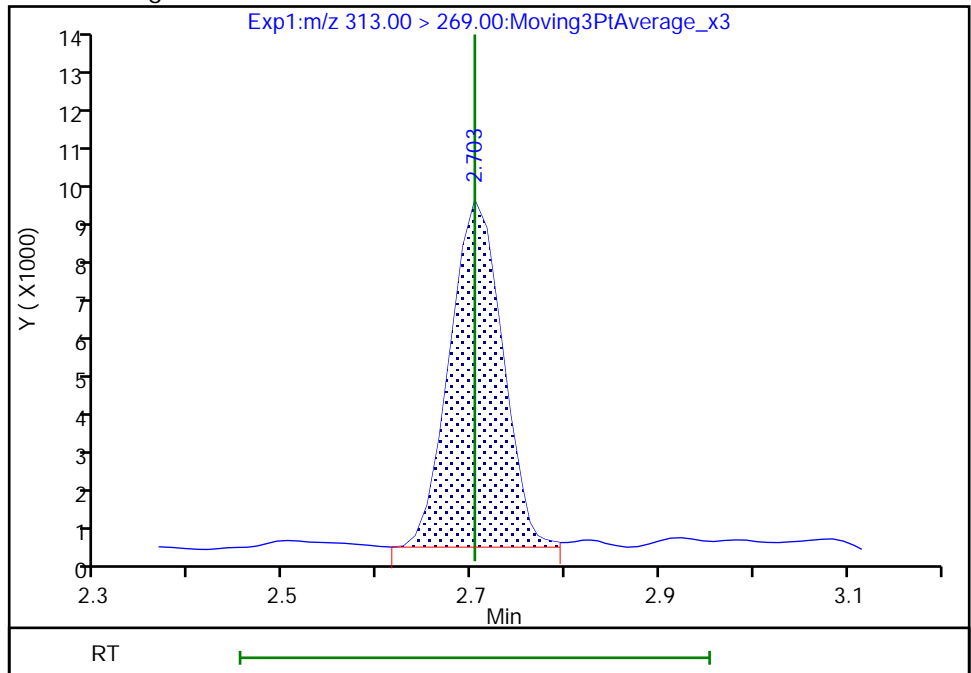
RT: 2.70  
Area: 34076  
Amount: 0.058765  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 33595  
Amount: 0.057935  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:27:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

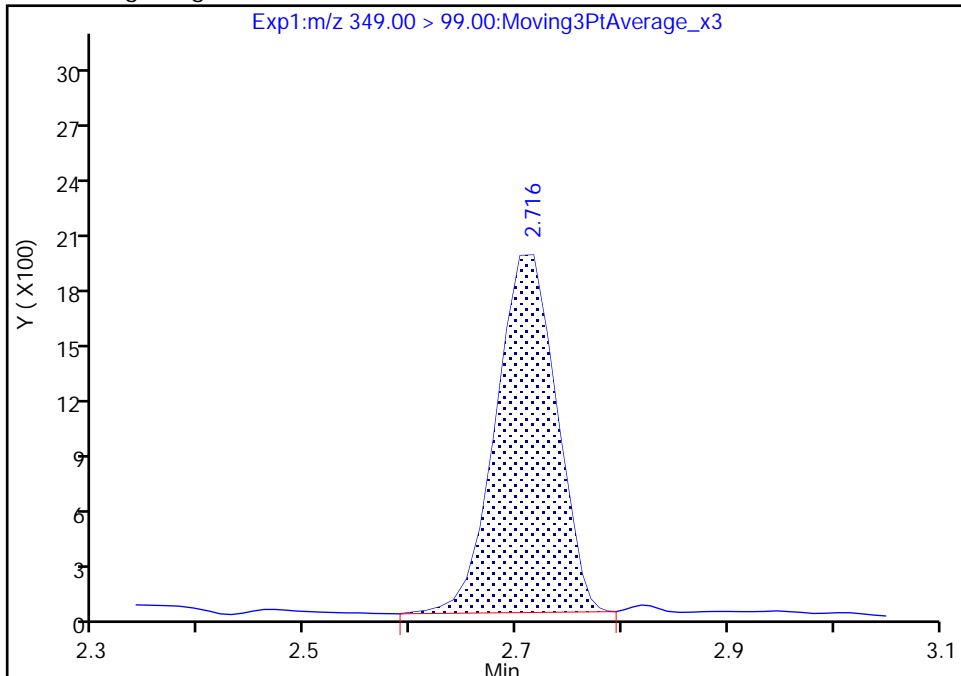
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

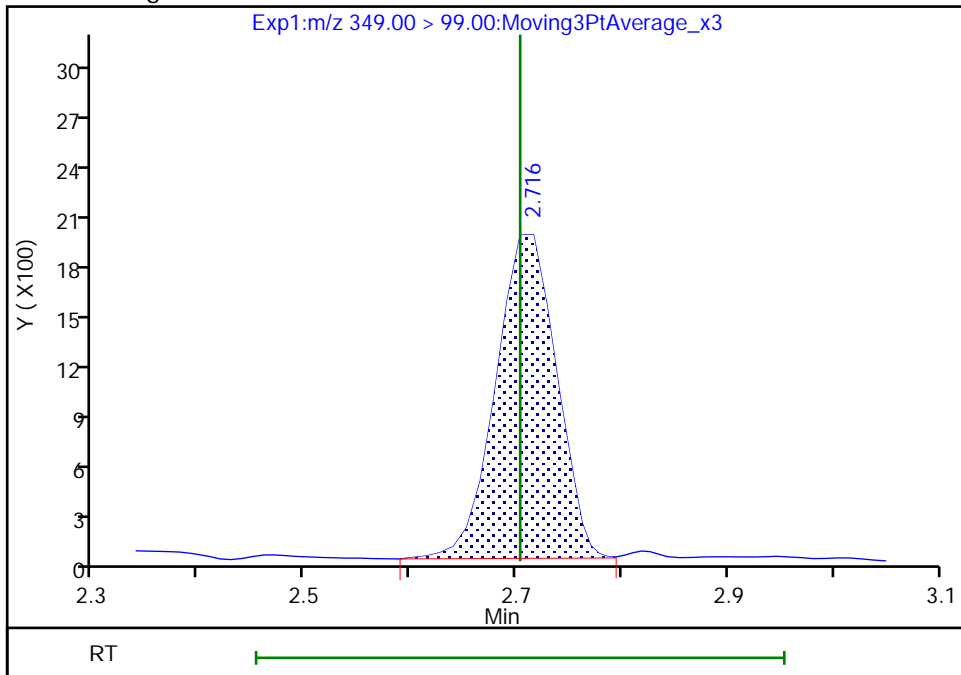
RT: 2.72  
Area: 7809  
Amount: 0.051152  
Amount Units: ng/ml

Processing Integration Results



RT: 2.72  
Area: 7846  
Amount: 0.051817  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:27:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

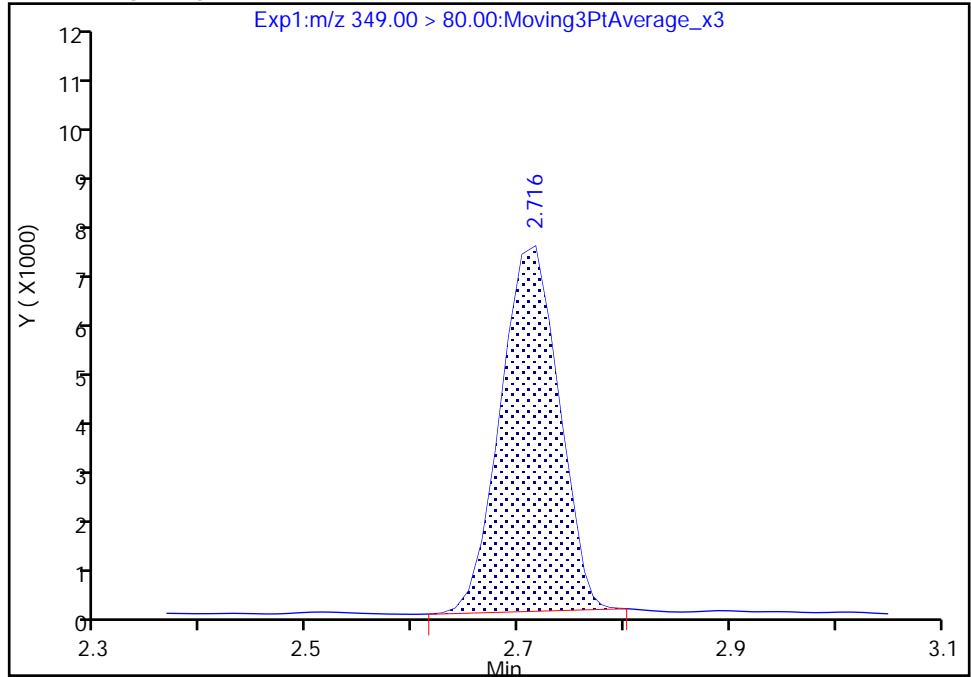
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

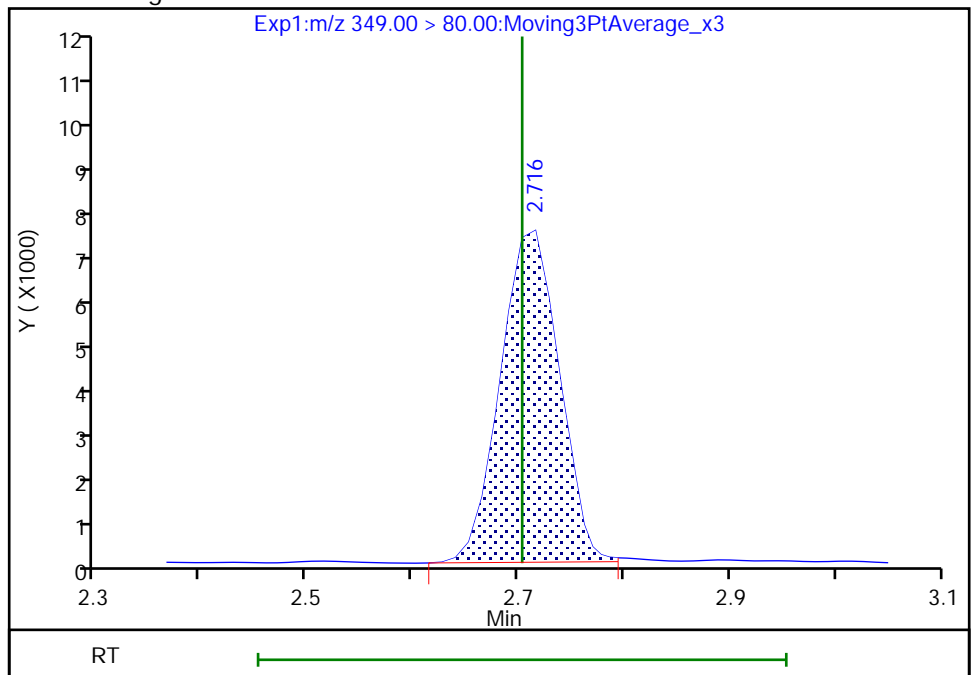
RT: 2.72  
Area: 27987  
Amount: 0.051152  
Amount Units: ng/ml

Processing Integration Results



RT: 2.72  
Area: 28351  
Amount: 0.051817  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:27:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

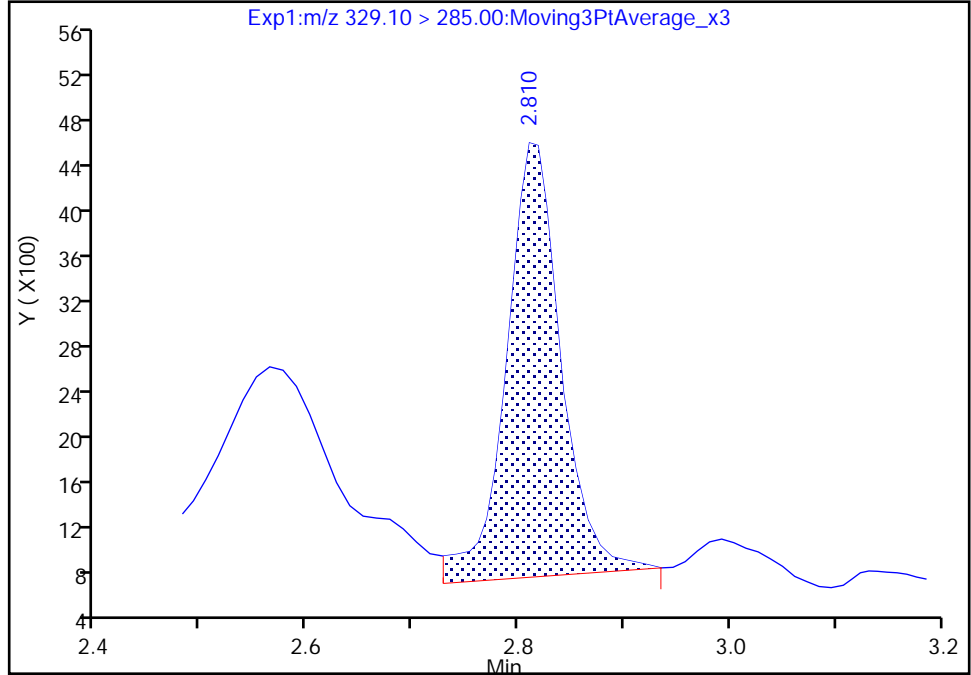
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

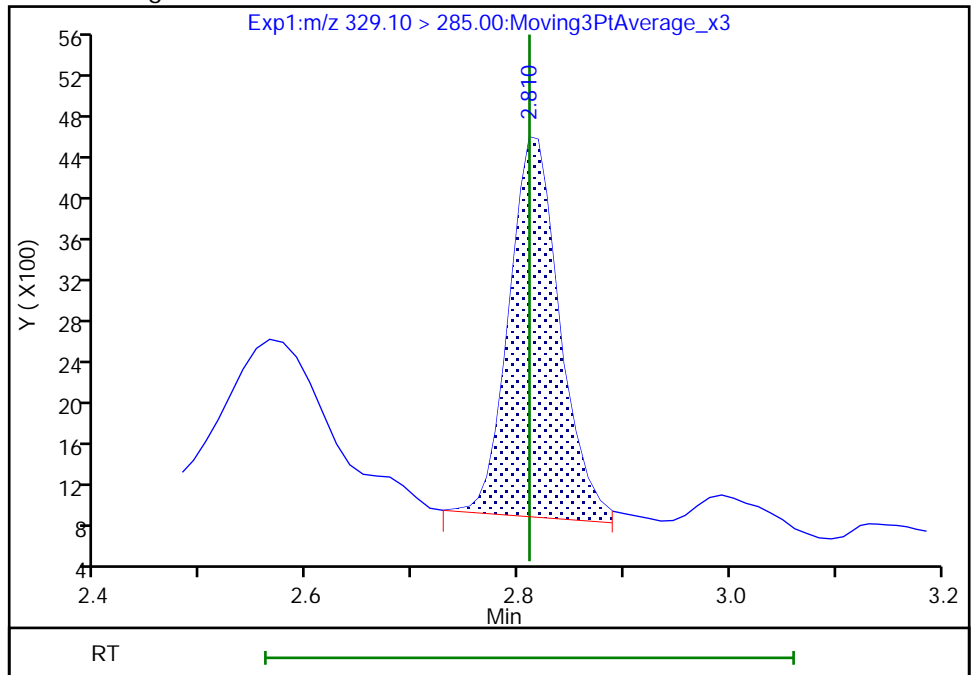
RT: 2.81  
Area: 13712  
Amount: 0.105935  
Amount Units: ng/ml

Processing Integration Results



RT: 2.81  
Area: 12312  
Amount: 0.095119  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:28:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

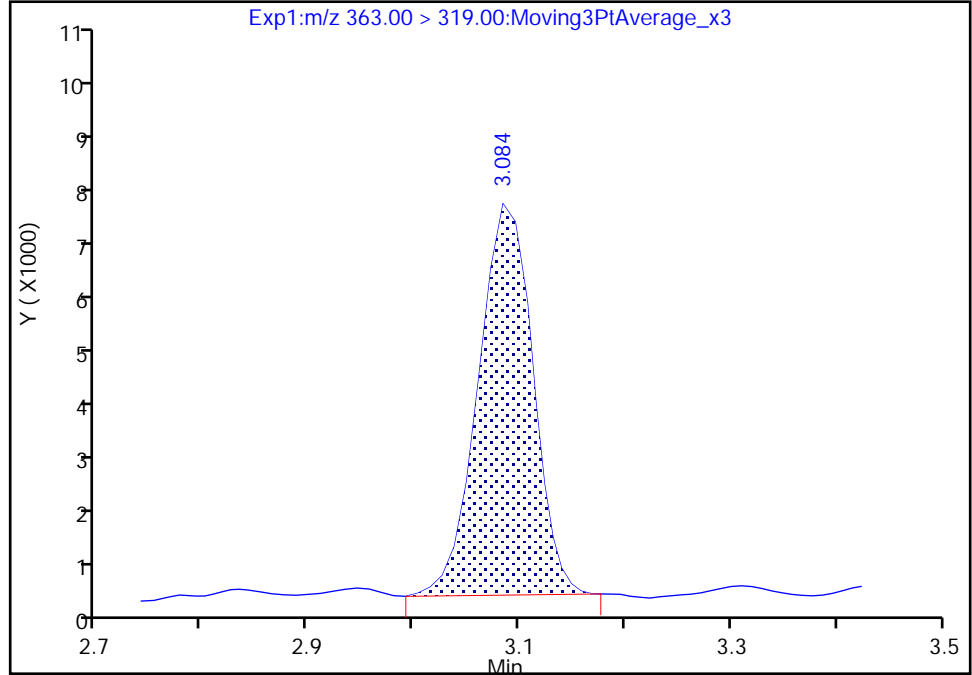
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

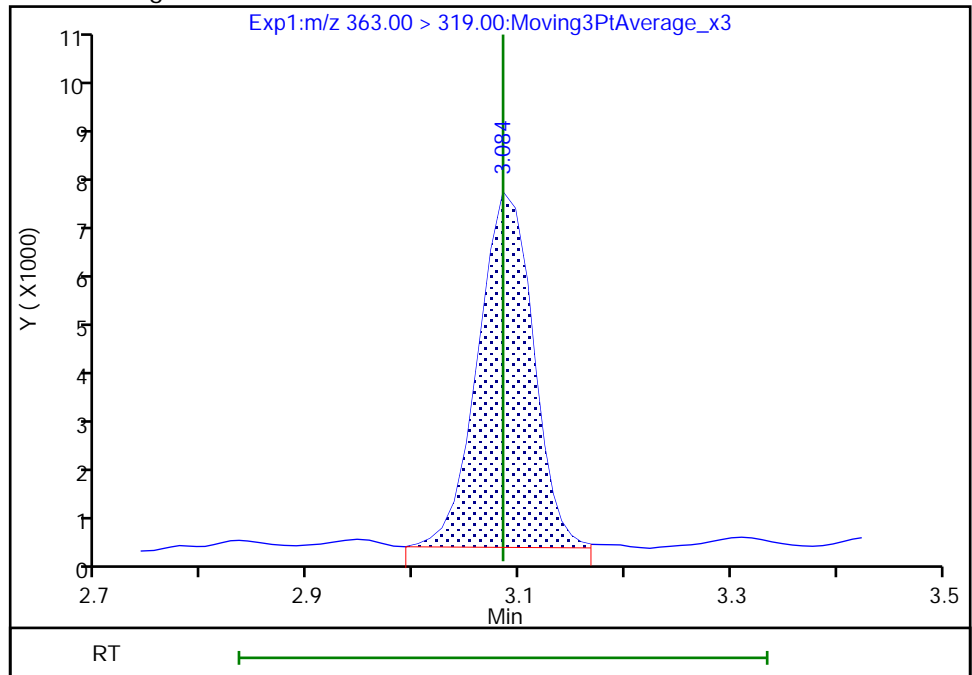
RT: 3.08  
Area: 25542  
Amount: 0.051009  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 25881  
Amount: 0.051686  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:28:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

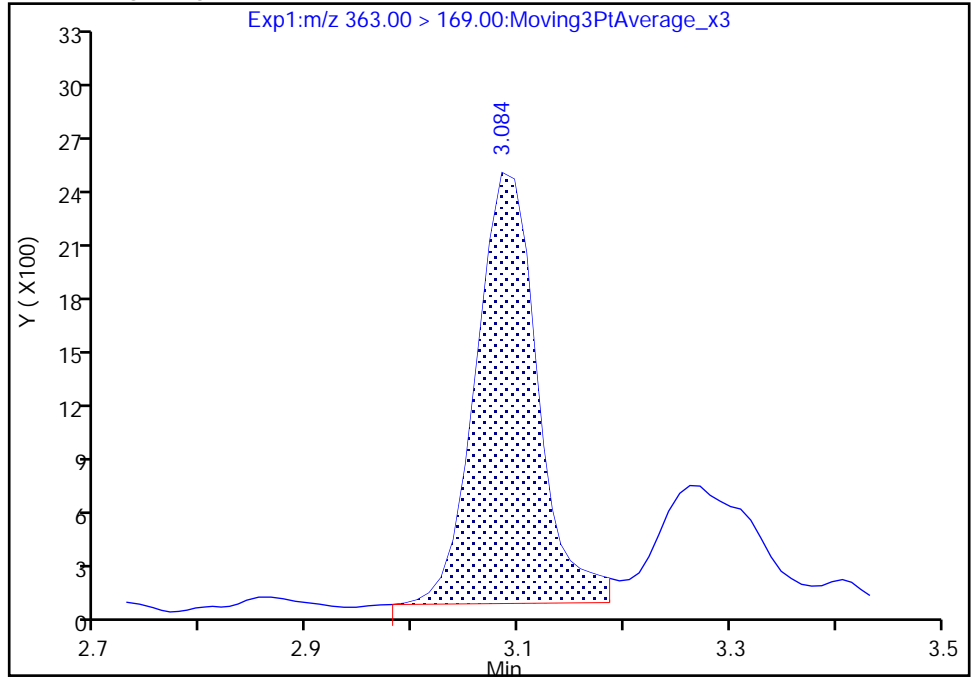
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

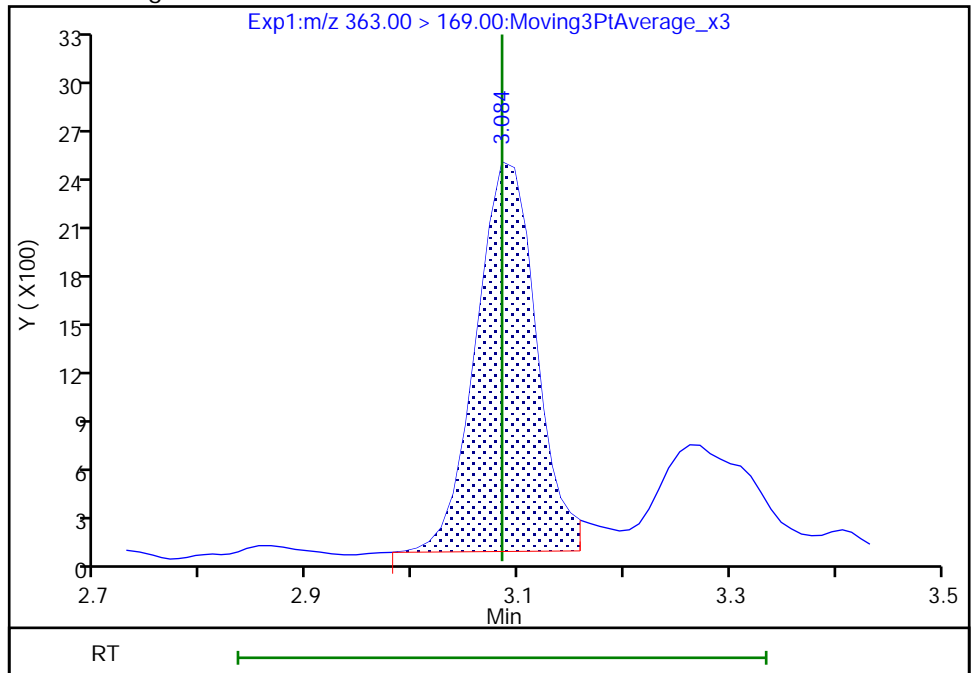
RT: 3.08  
Area: 9649  
Amount: 0.051009  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 9386  
Amount: 0.051686  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:28:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

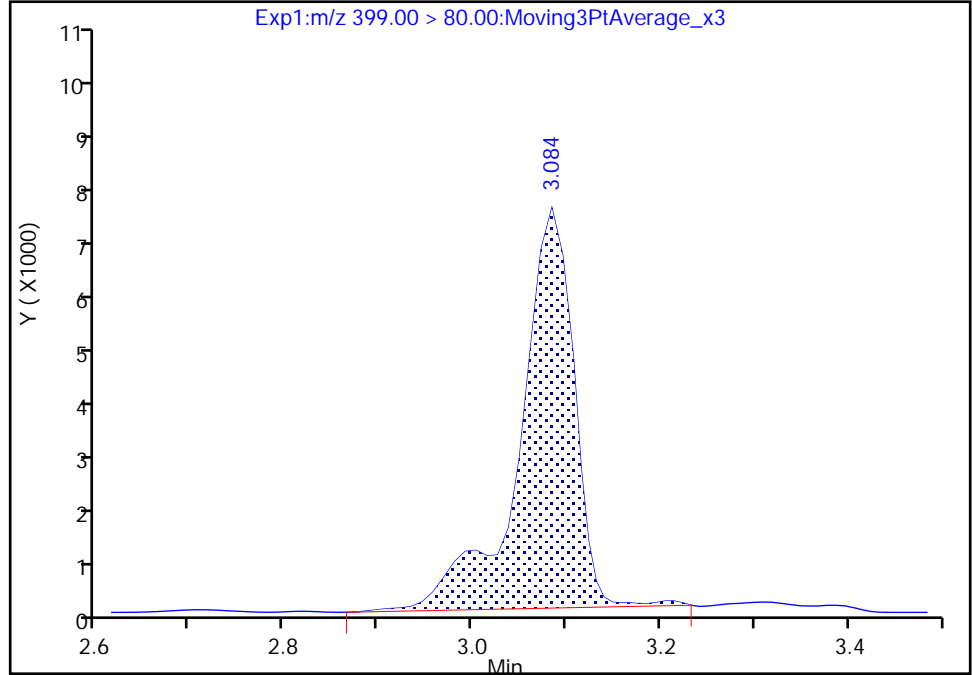
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

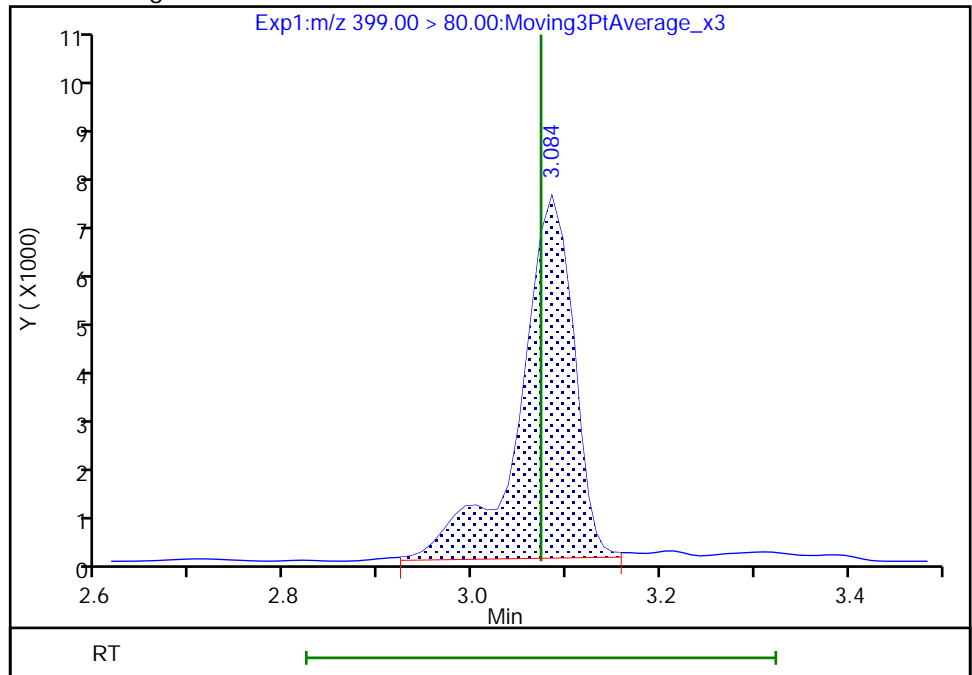
RT: 3.08  
Area: 28522  
Amount: 0.055888  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 28351  
Amount: 0.055553  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:28:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

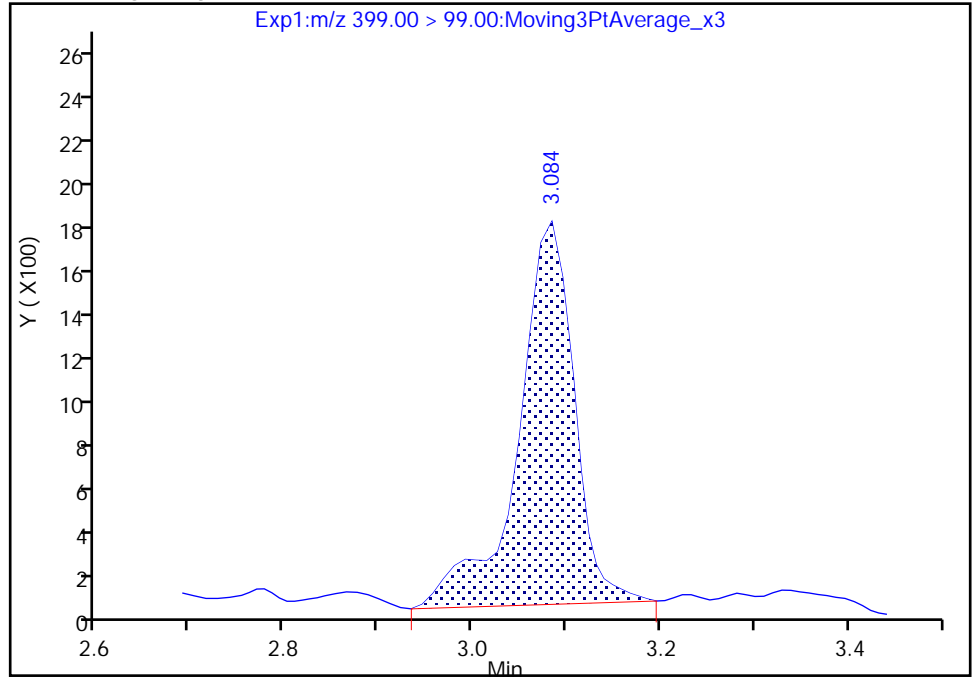
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

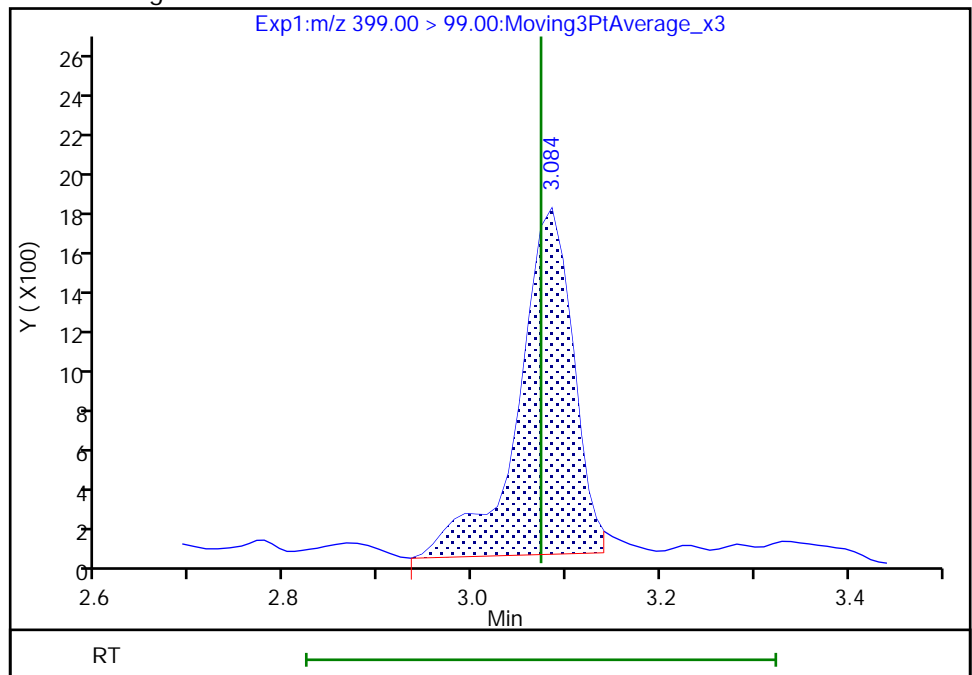
RT: 3.08  
Area: 7306  
Amount: 0.055888  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 7160  
Amount: 0.055553  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:28:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

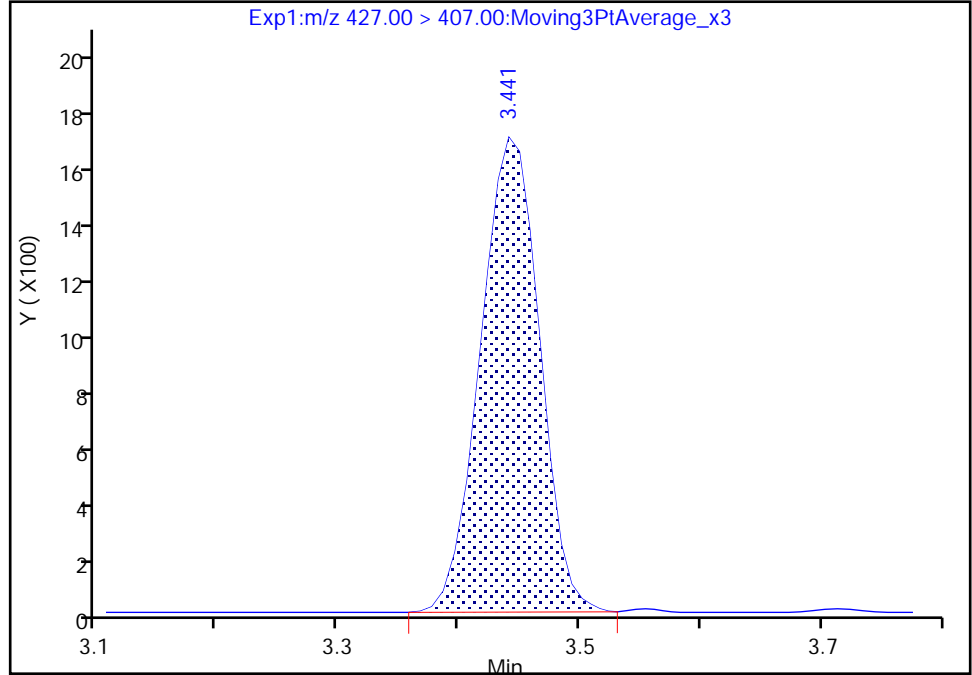
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

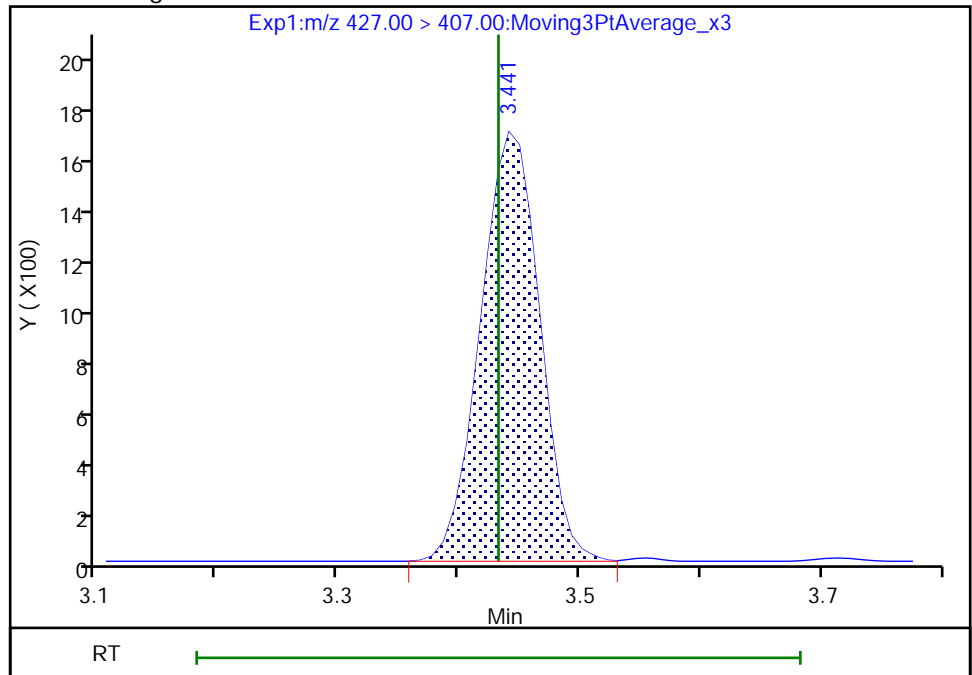
RT: 3.44  
Area: 5799  
Amount: 0.110876  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 5810  
Amount: 0.111086  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:29:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

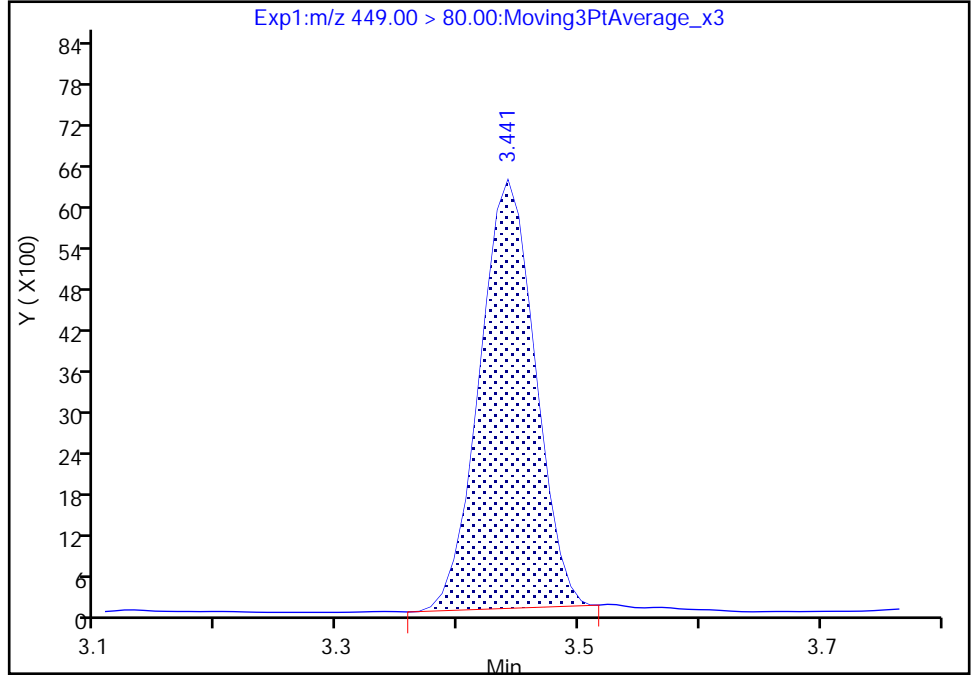
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

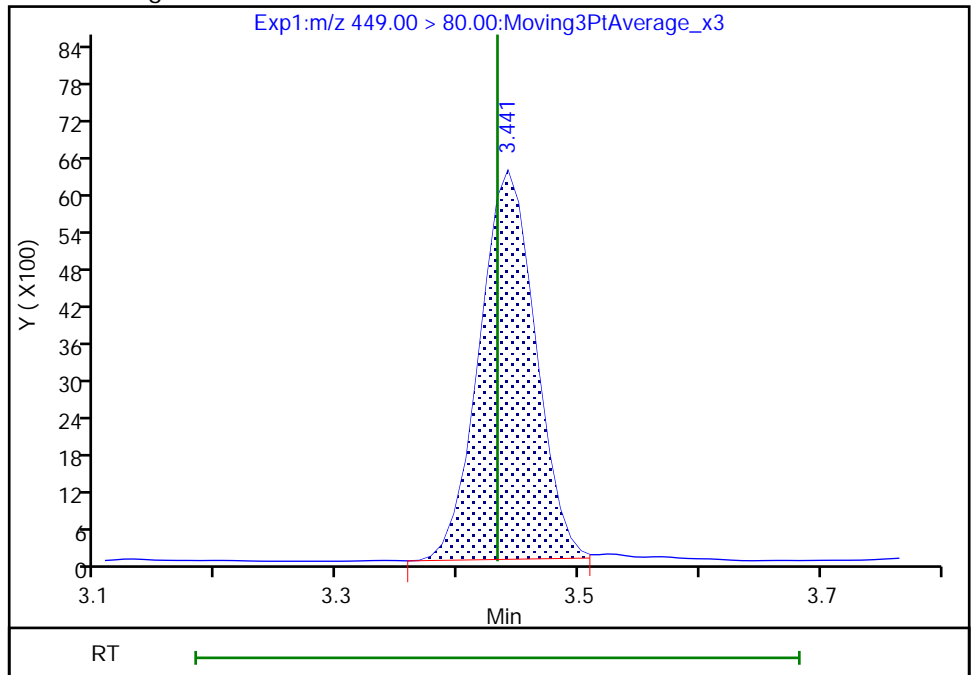
RT: 3.44  
Area: 20005  
Amount: 0.046417  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 20228  
Amount: 0.046934  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:29:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

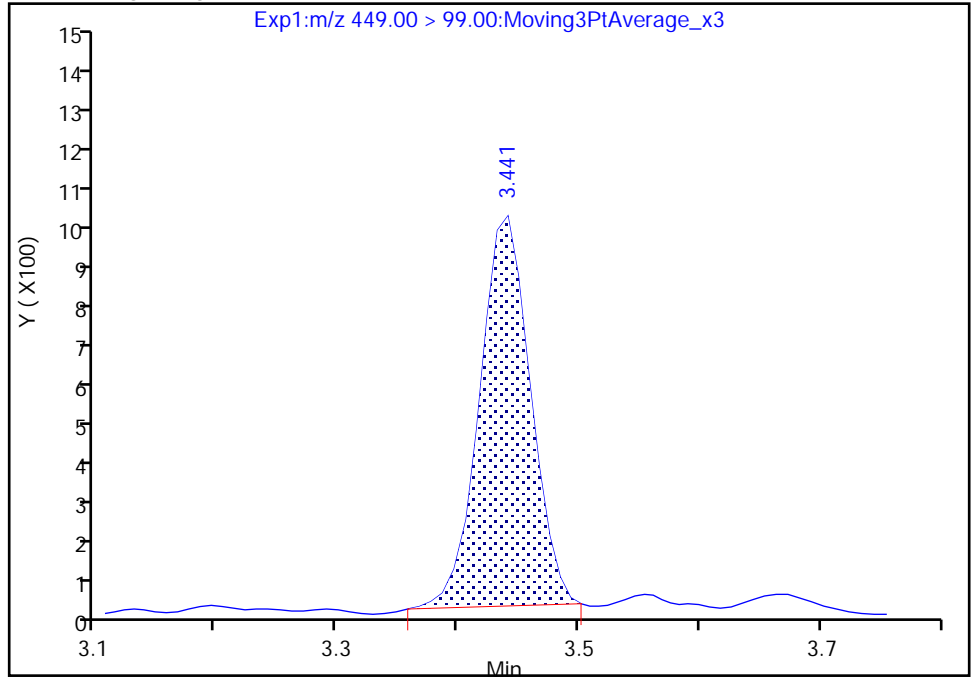
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

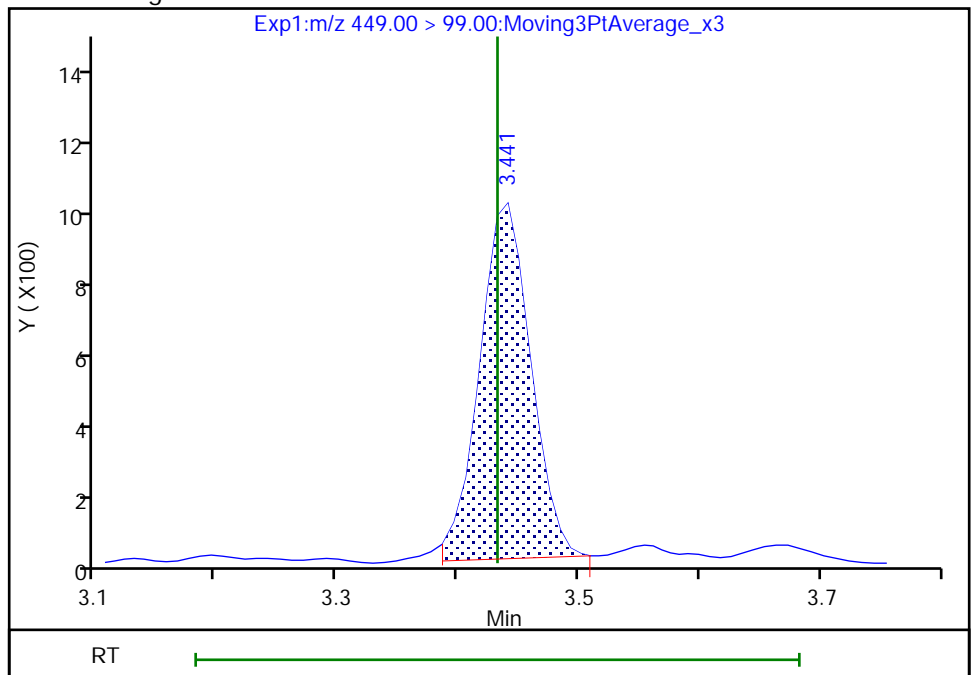
RT: 3.44  
Area: 2800  
Amount: 0.046417  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 2835  
Amount: 0.046934  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:29:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

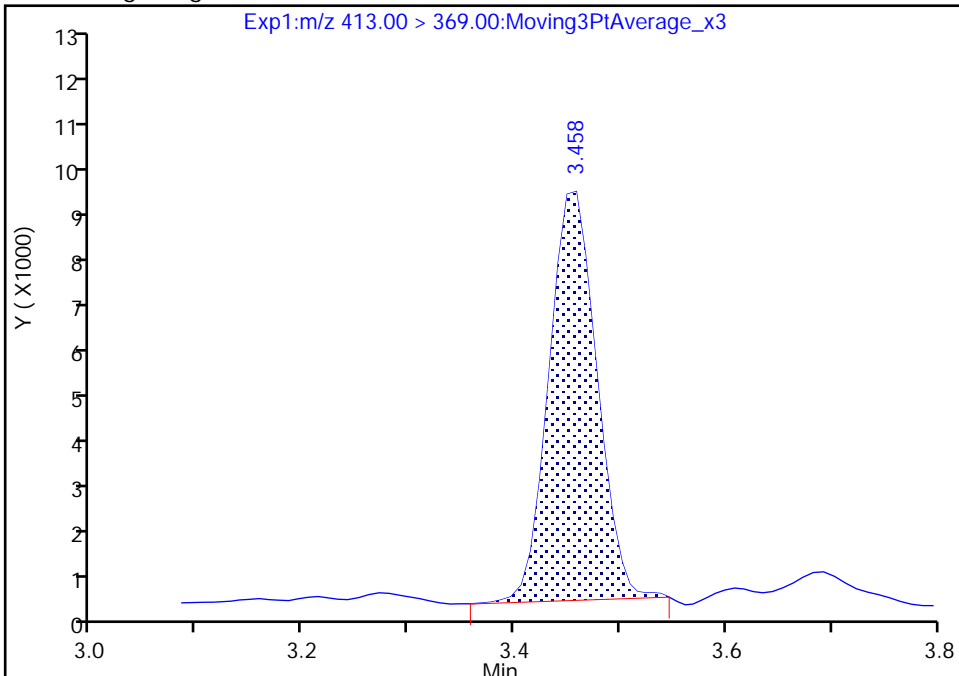
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

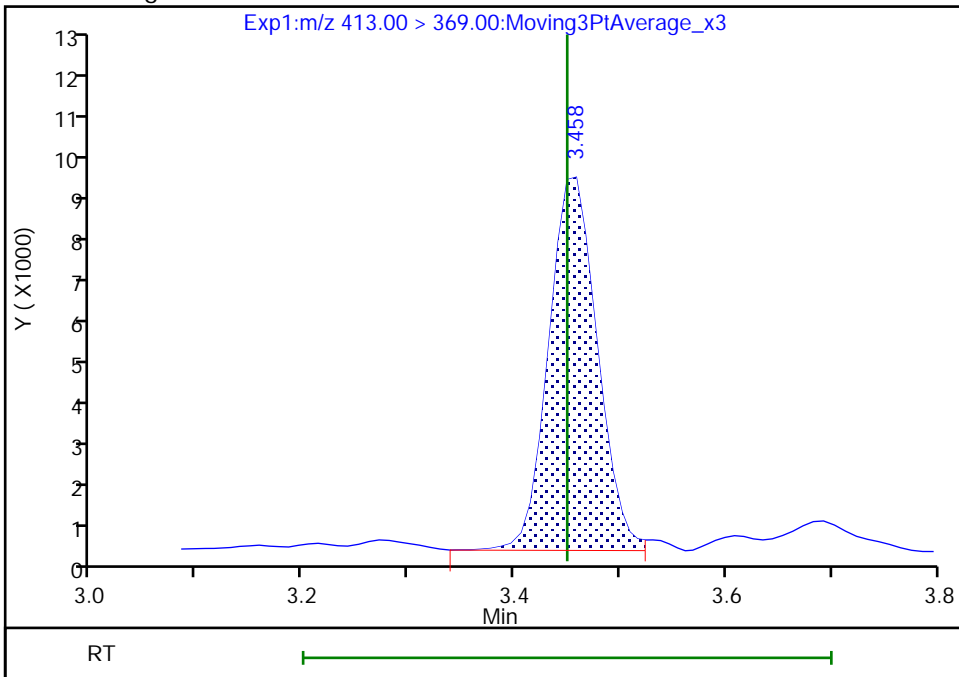
RT: 3.46  
Area: 27944  
Amount: 0.055486  
Amount Units: ng/ml

Processing Integration Results



RT: 3.46  
Area: 28560  
Amount: 0.056709  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:29:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

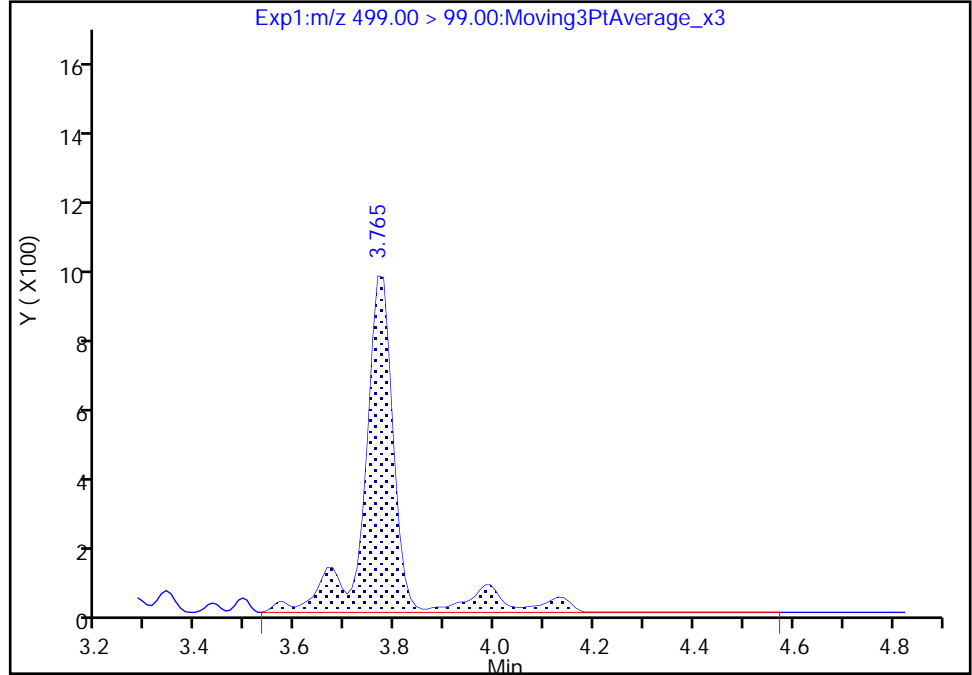
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

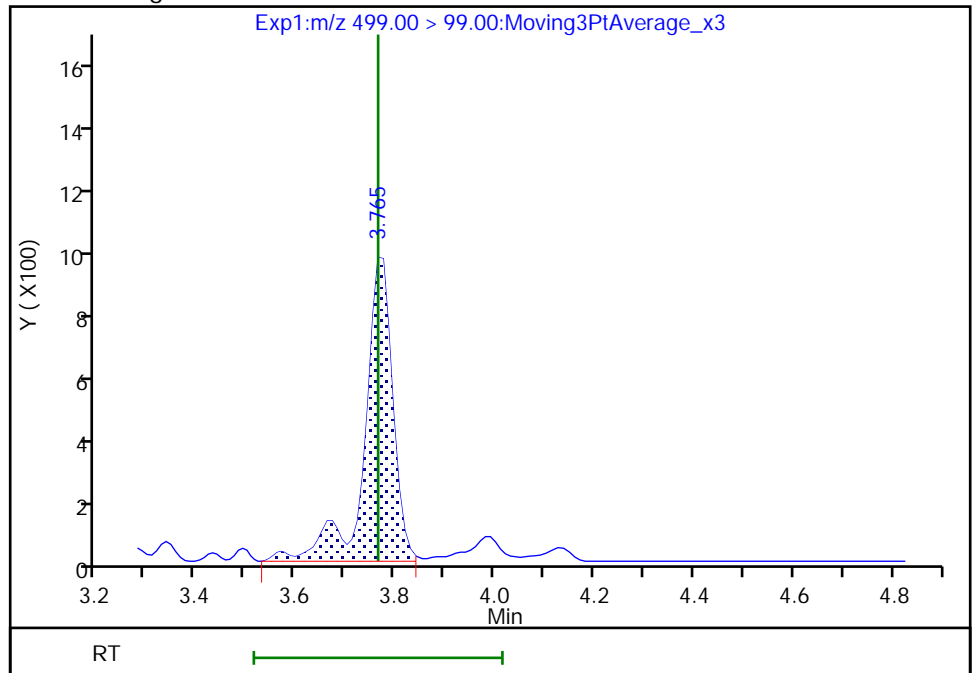
RT: 3.77  
Area: 4283  
Amount: 0.052052  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 3733  
Amount: 0.047980  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:30:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

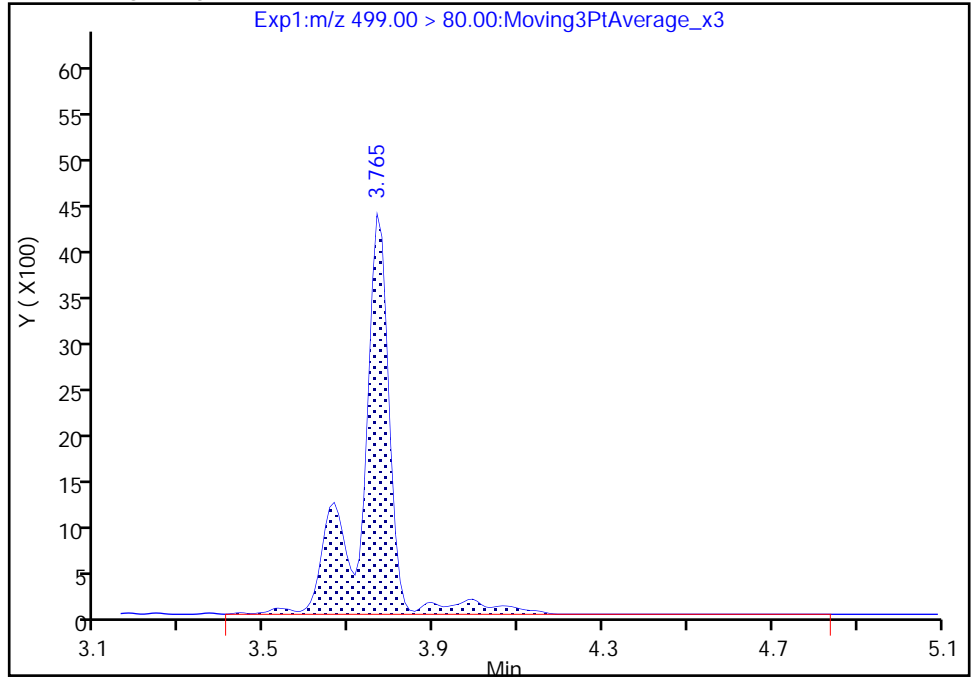
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

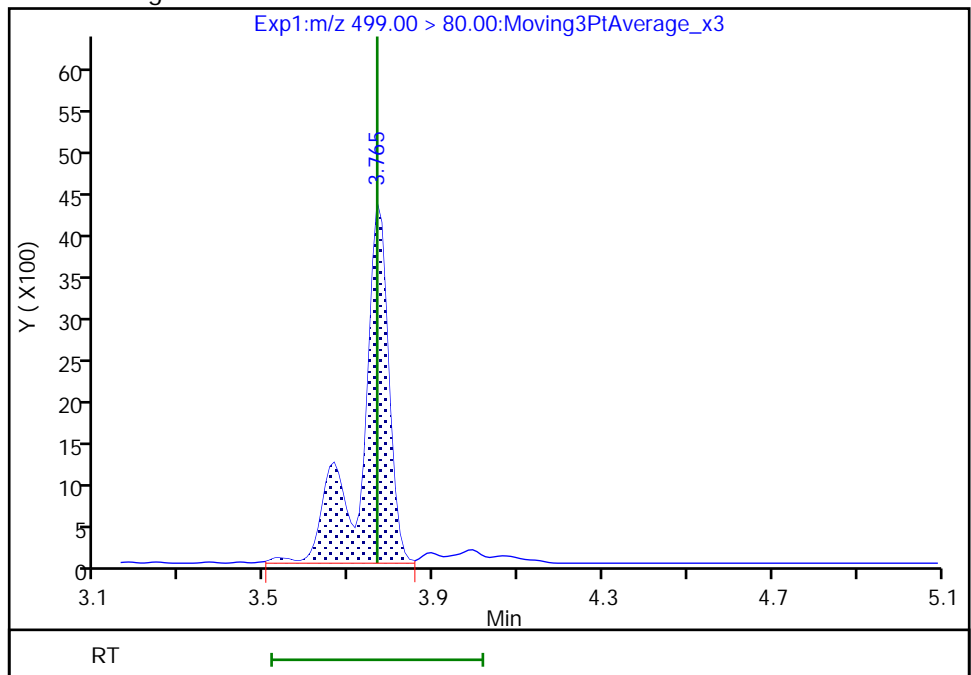
RT: 3.77  
Area: 21042  
Amount: 0.052052  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 19396  
Amount: 0.047980  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:30:16

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

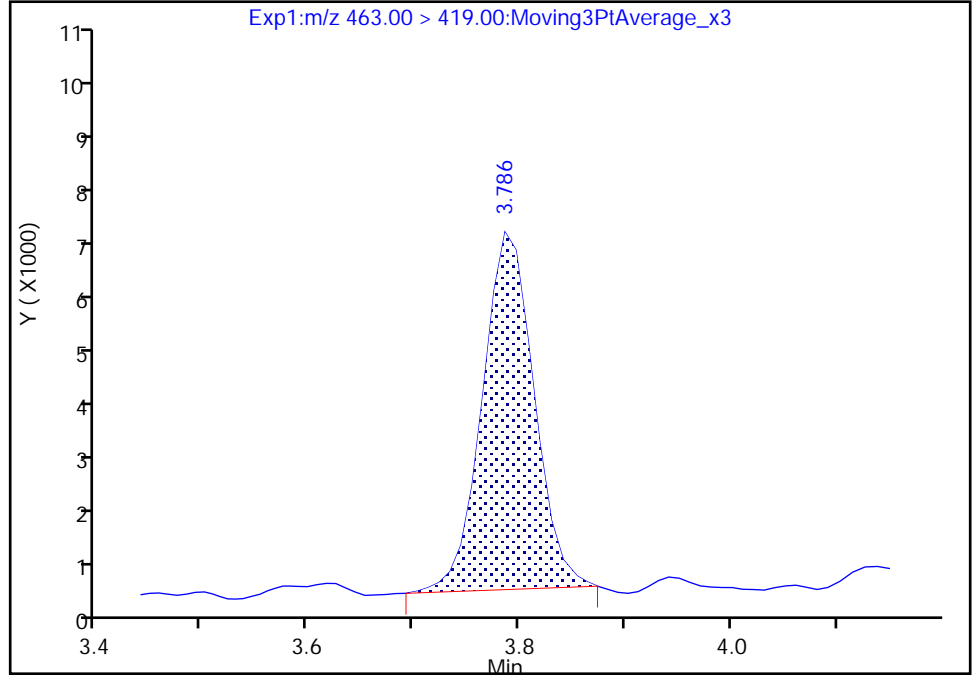
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

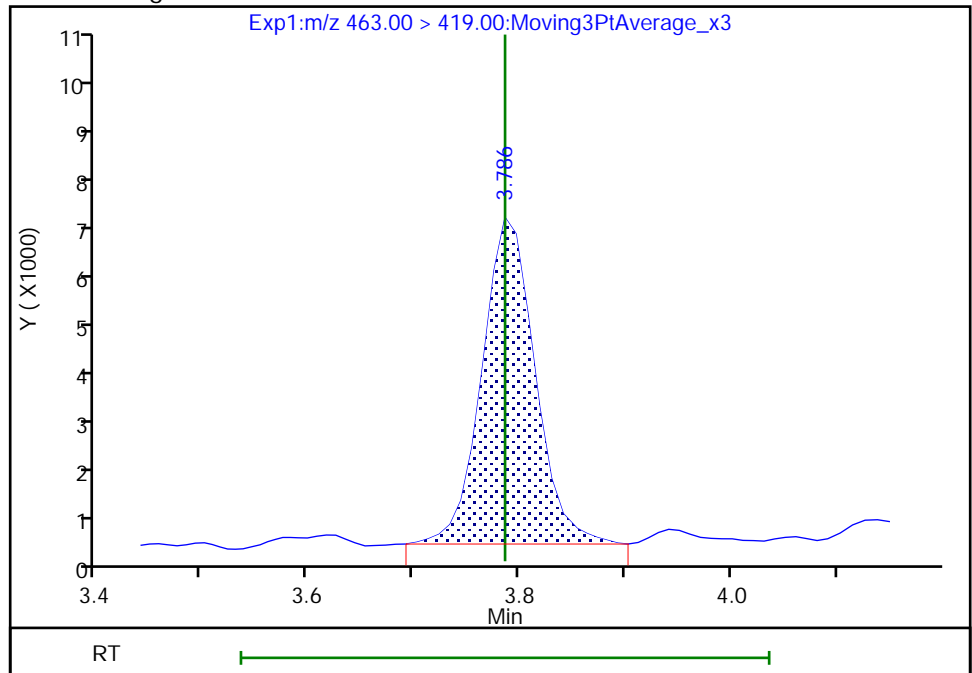
RT: 3.79  
Area: 21073  
Amount: 0.050184  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 21834  
Amount: 0.051996  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:30:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

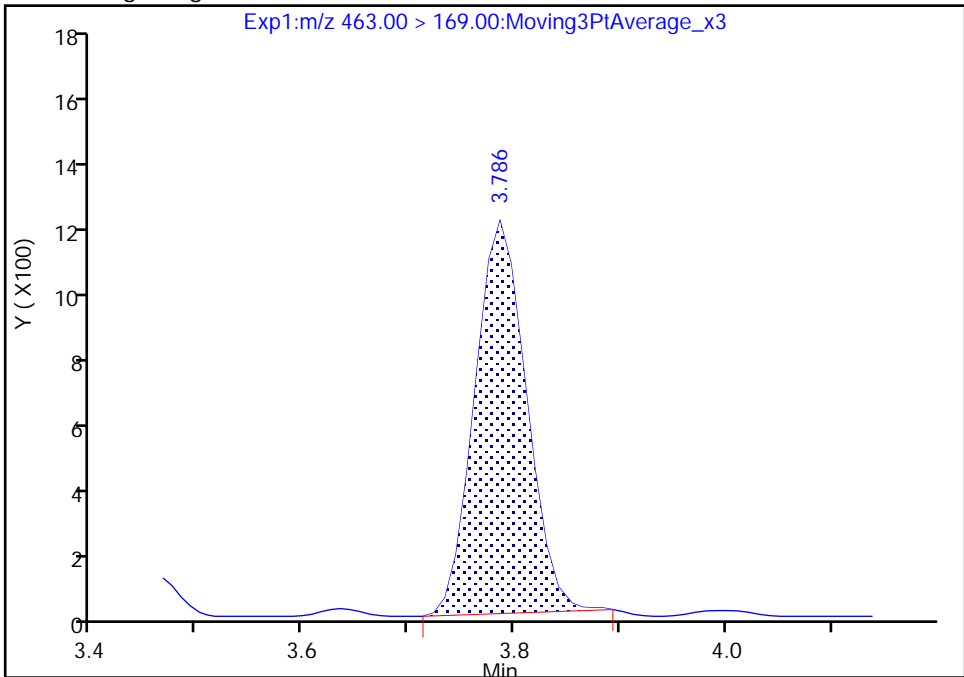
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

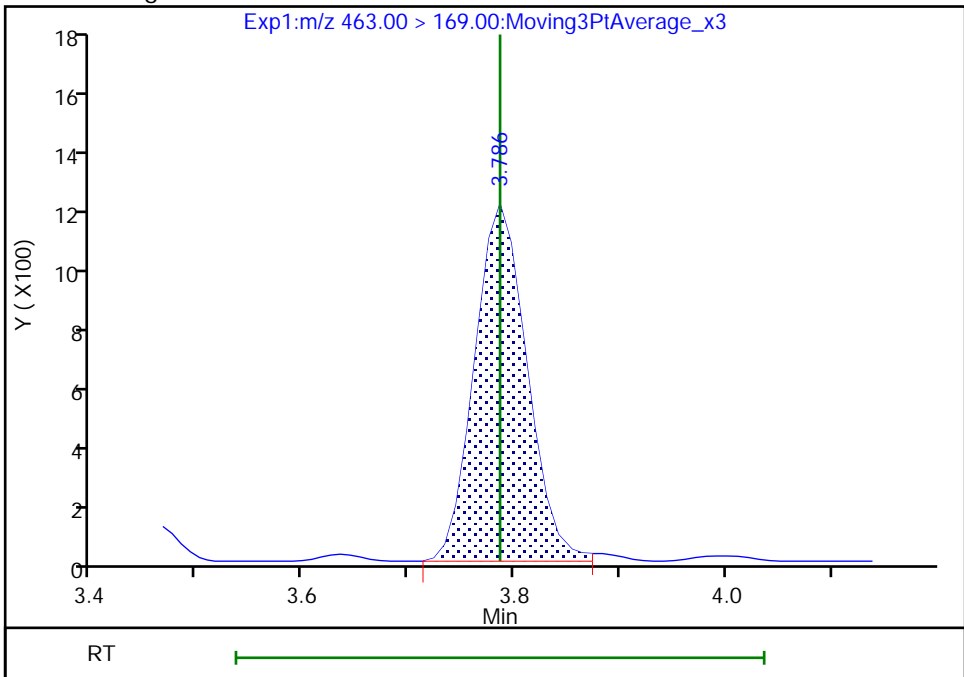
RT: 3.79  
Area: 3952  
Amount: 0.050184  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 4032  
Amount: 0.051996  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:30:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

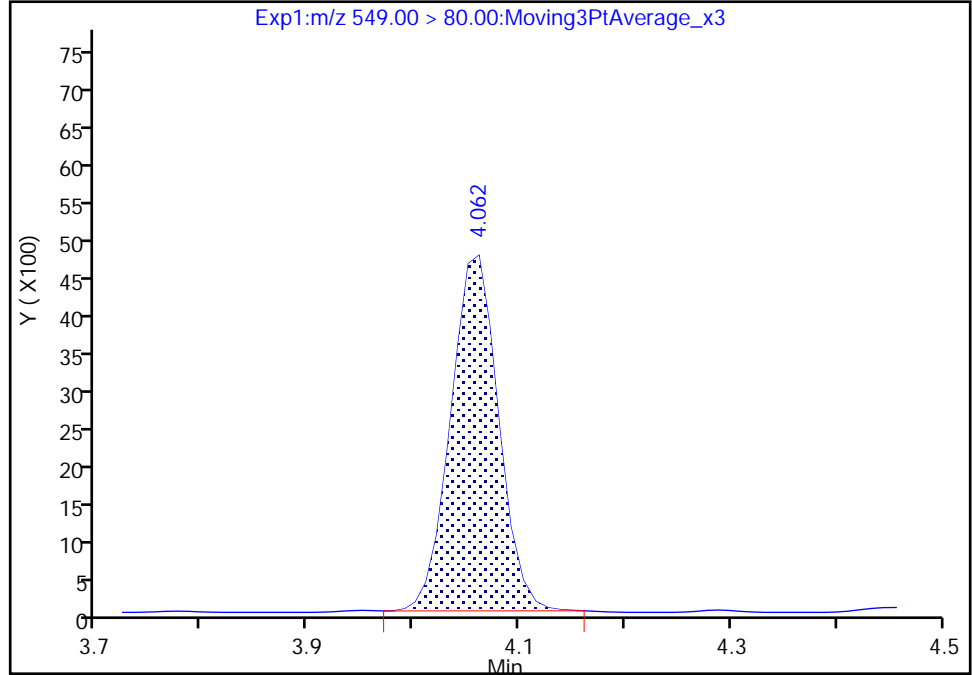
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

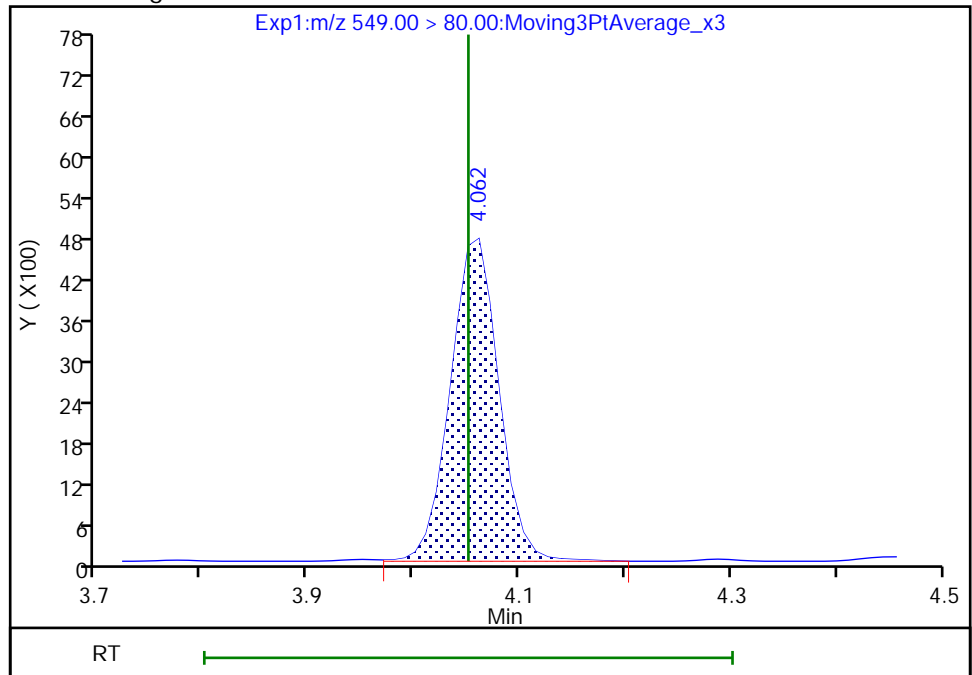
RT: 4.06  
Area: 14758  
Amount: 0.046195  
Amount Units: ng/ml

Processing Integration Results



RT: 4.06  
Area: 15008  
Amount: 0.046977  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:31:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

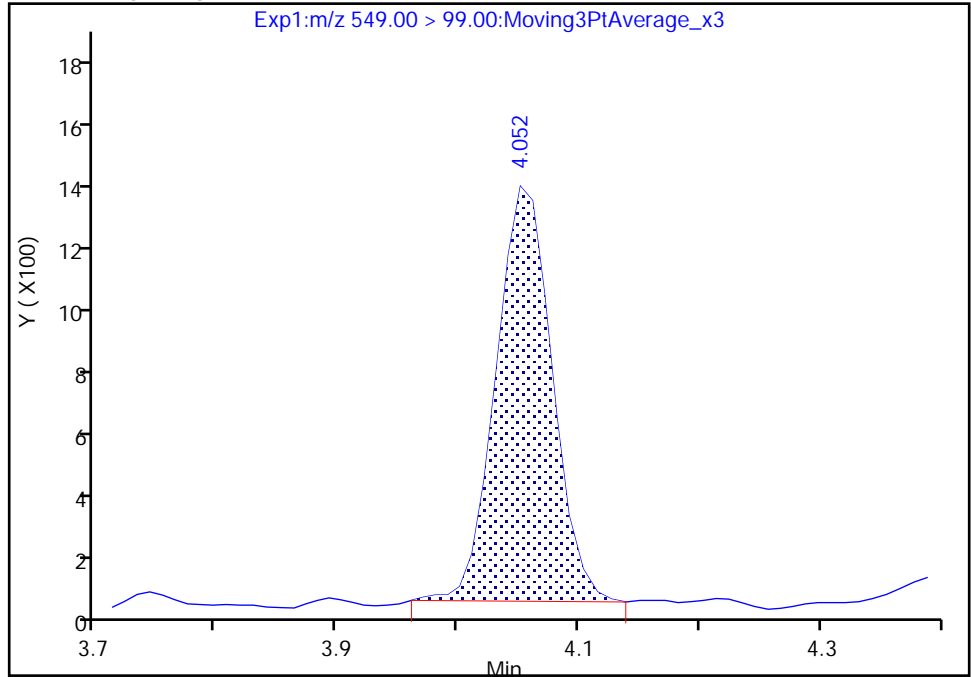
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

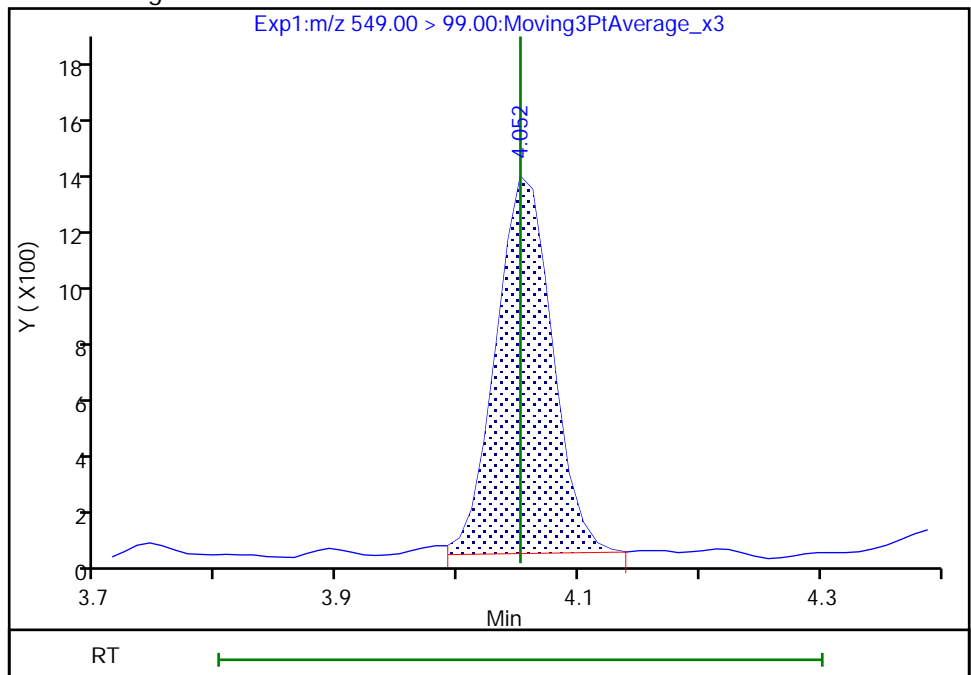
RT: 4.05  
Area: 4242  
Amount: 0.046195  
Amount Units: ng/ml

Processing Integration Results



RT: 4.05  
Area: 4278  
Amount: 0.046977  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:31:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

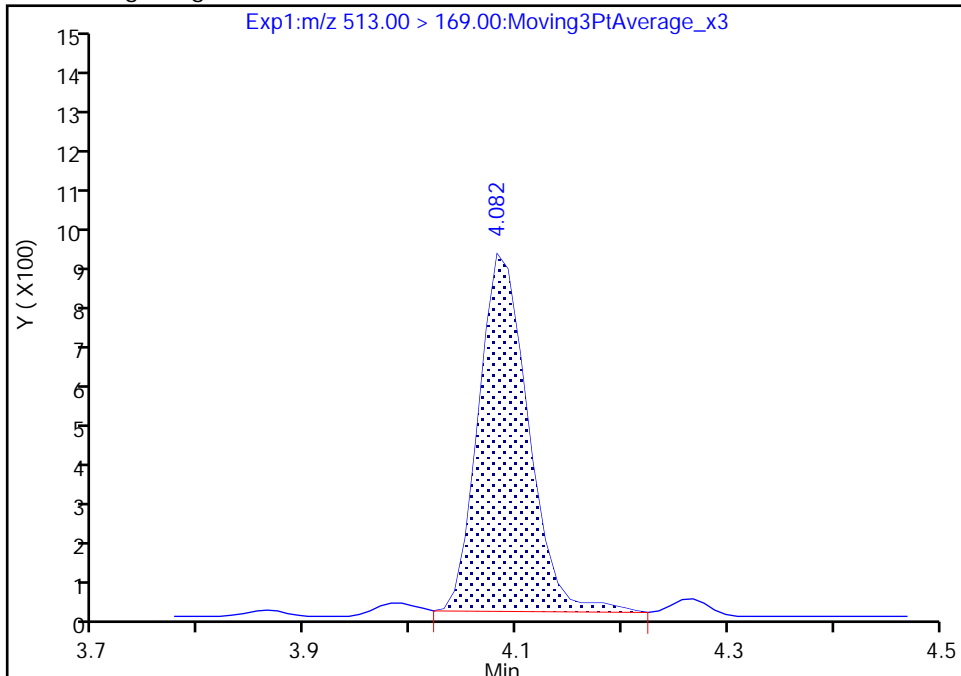
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

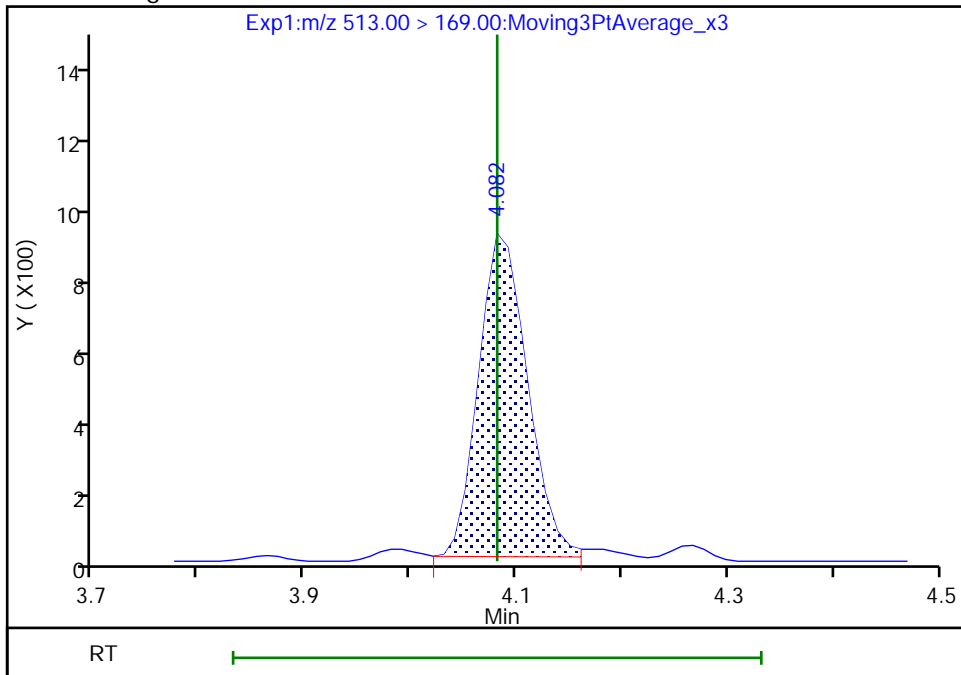
RT: 4.08  
Area: 2981  
Amount: 0.049621  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 2922  
Amount: 0.049621  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:31:11  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

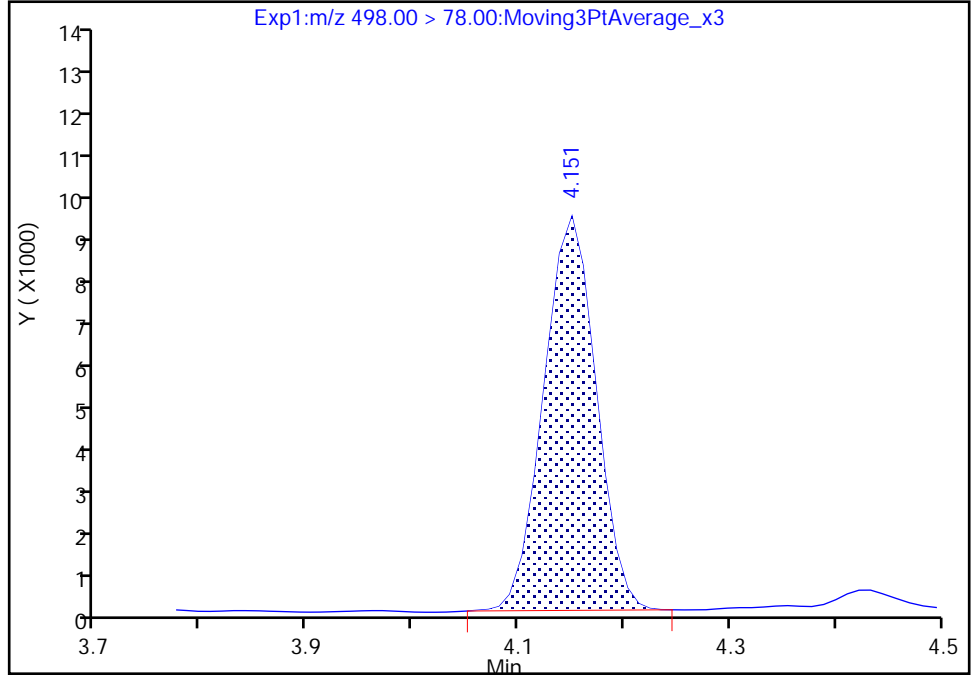
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

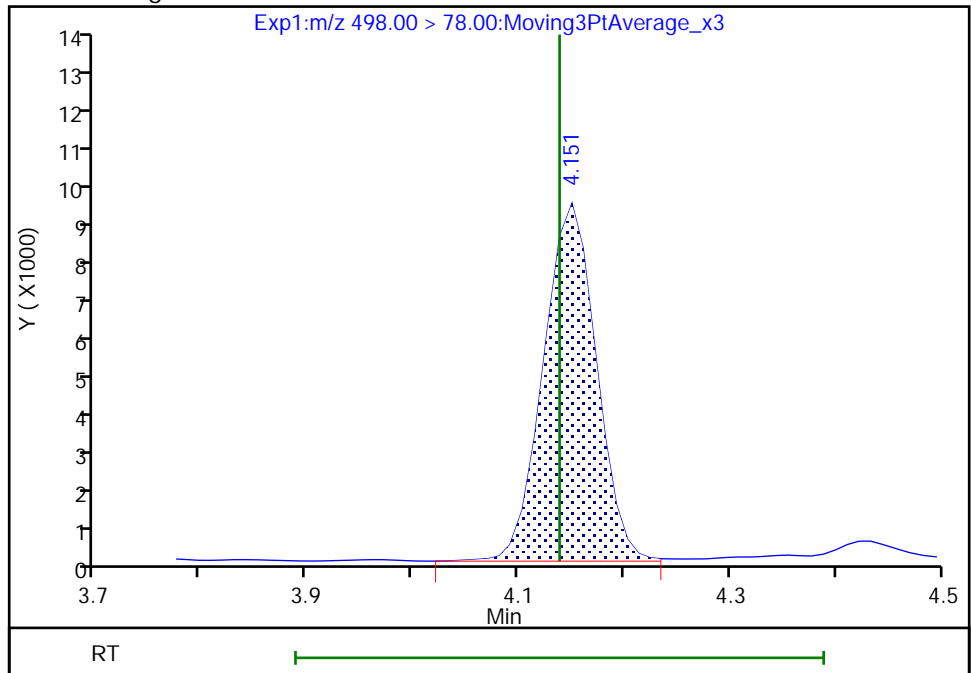
RT: 4.15  
Area: 31898  
Amount: 0.054677  
Amount Units: ng/ml

Processing Integration Results



RT: 4.15  
Area: 32387  
Amount: 0.055515  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:31:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

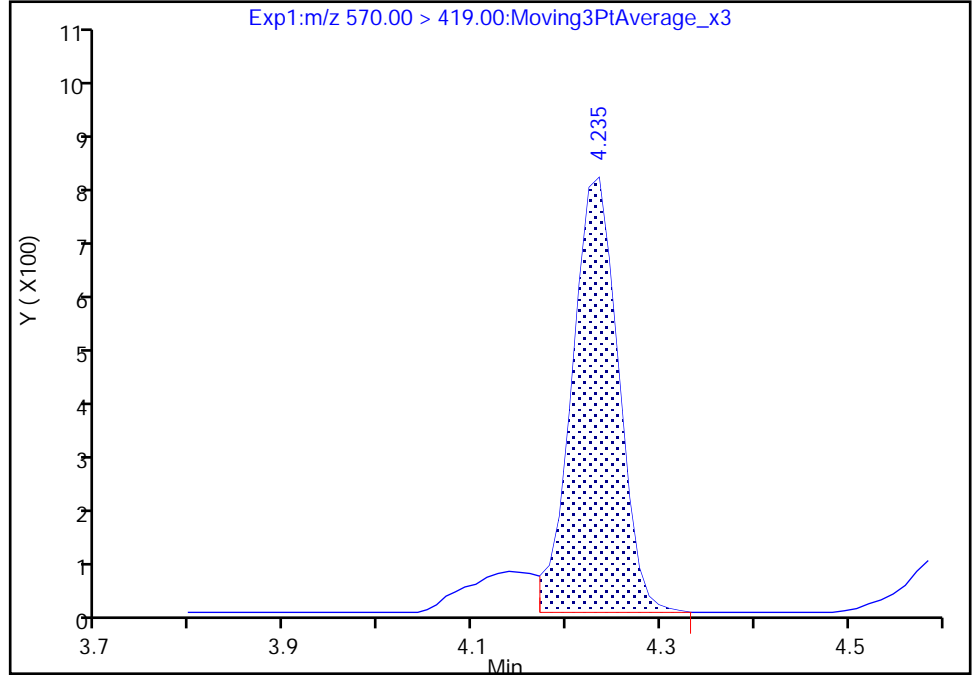
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

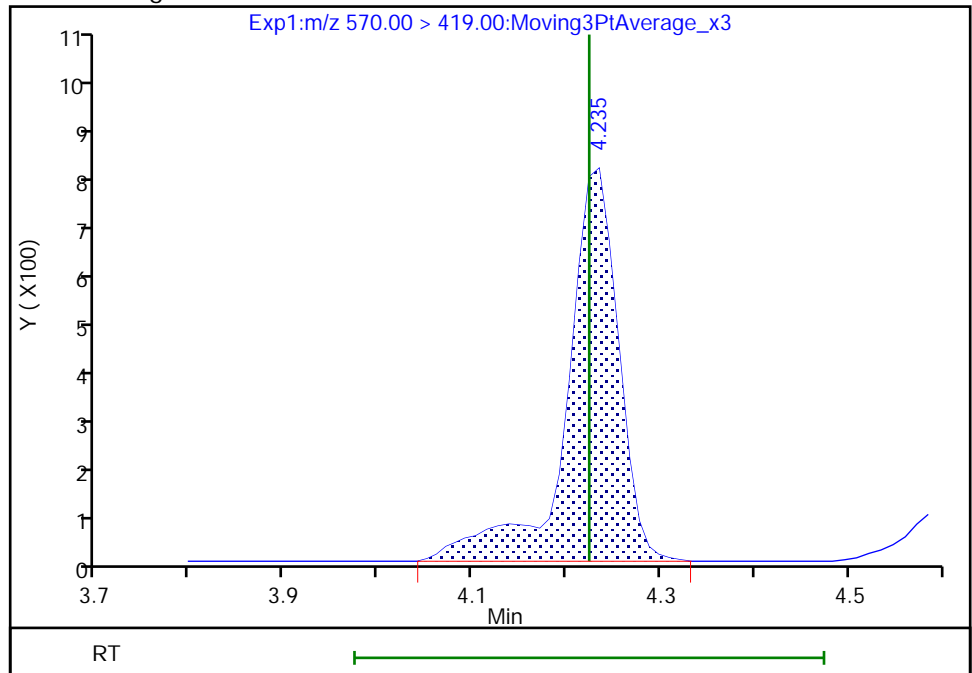
RT: 4.23  
Area: 2737  
Amount: 0.122850  
Amount Units: ng/ml

Processing Integration Results



RT: 4.23  
Area: 3124  
Amount: 0.140220  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:31:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

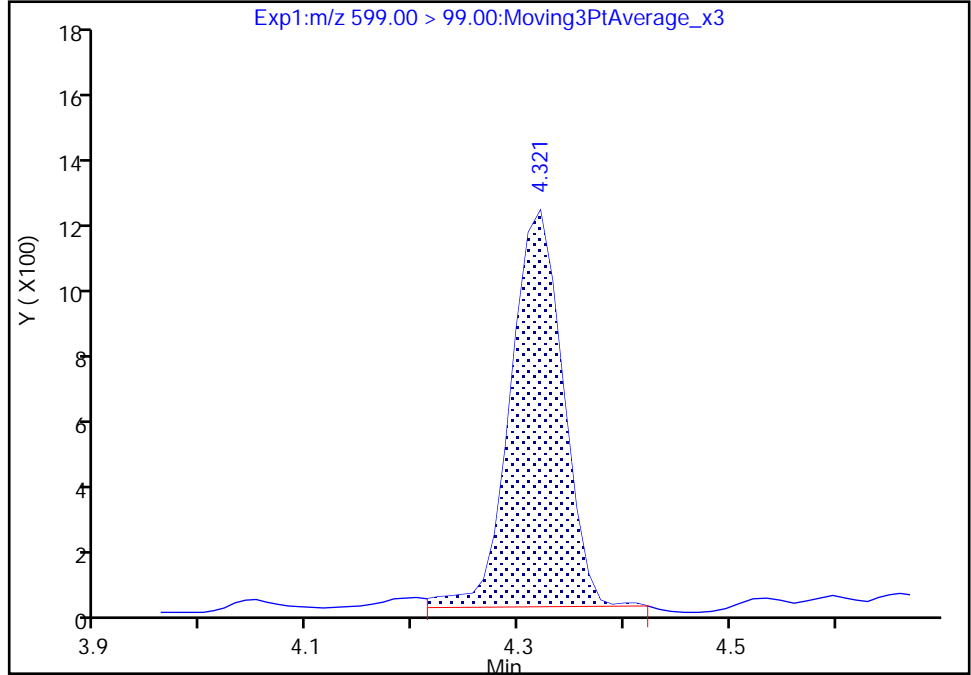
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

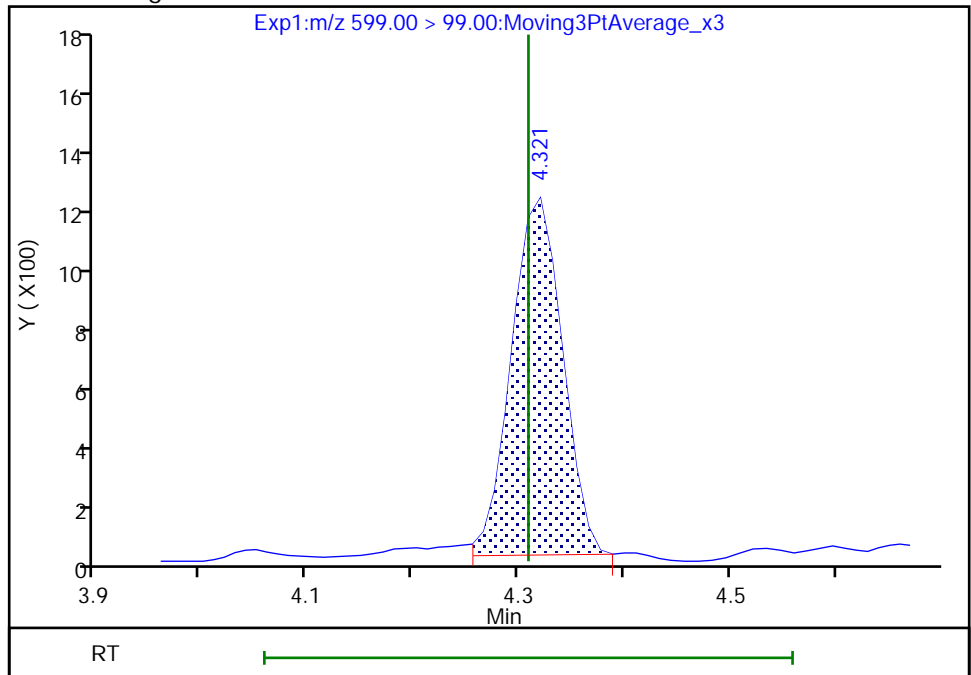
RT: 4.32  
Area: 4033  
Amount: 0.050718  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 3902  
Amount: 0.050774  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:31:44  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

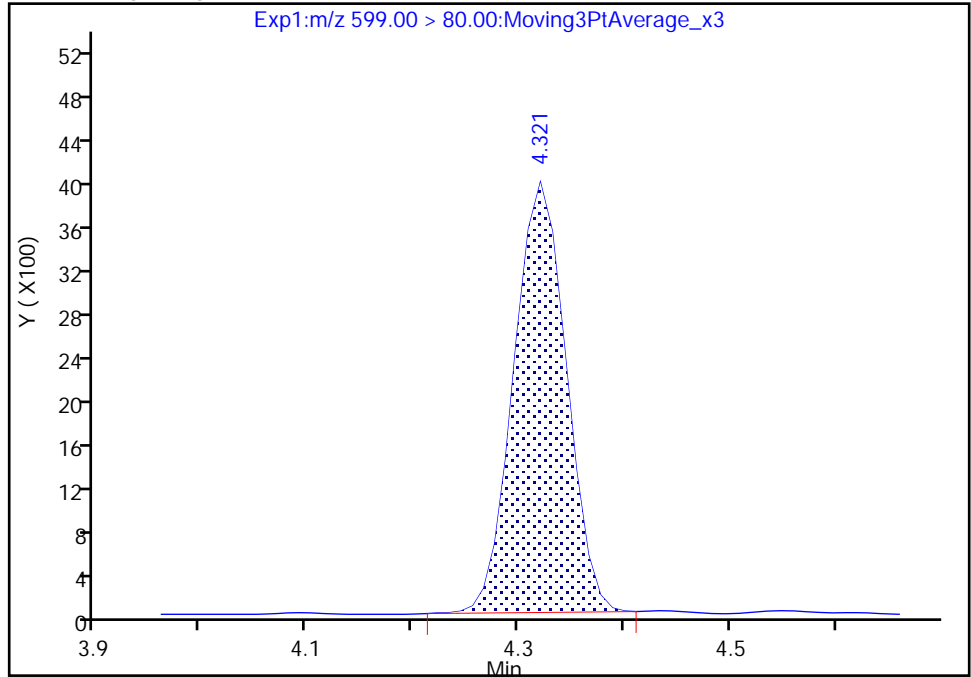
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

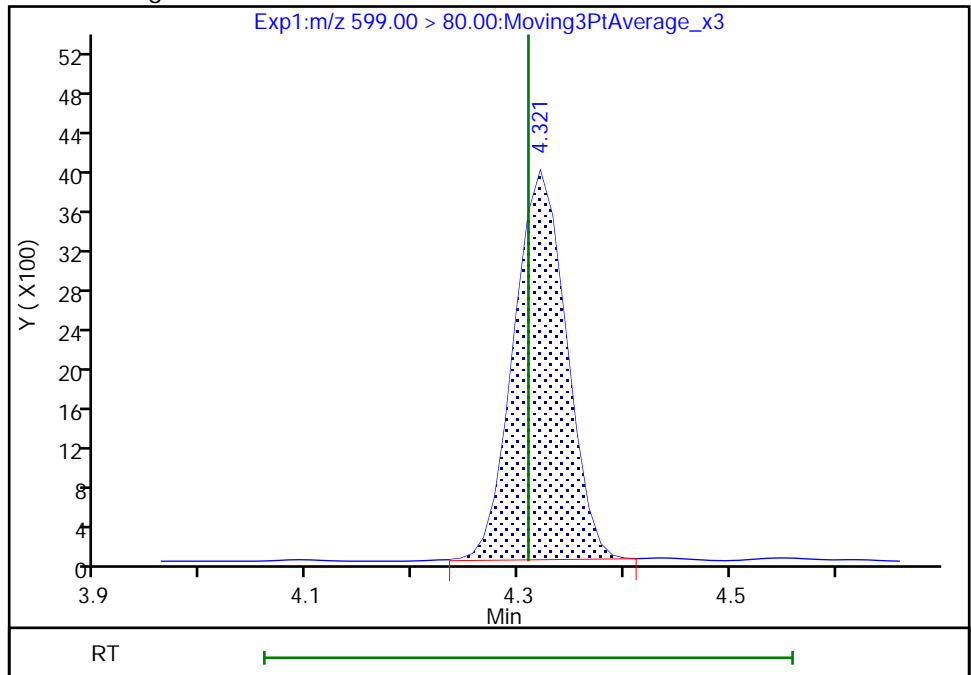
RT: 4.32  
Area: 13557  
Amount: 0.050718  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 13572  
Amount: 0.050774  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:31:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

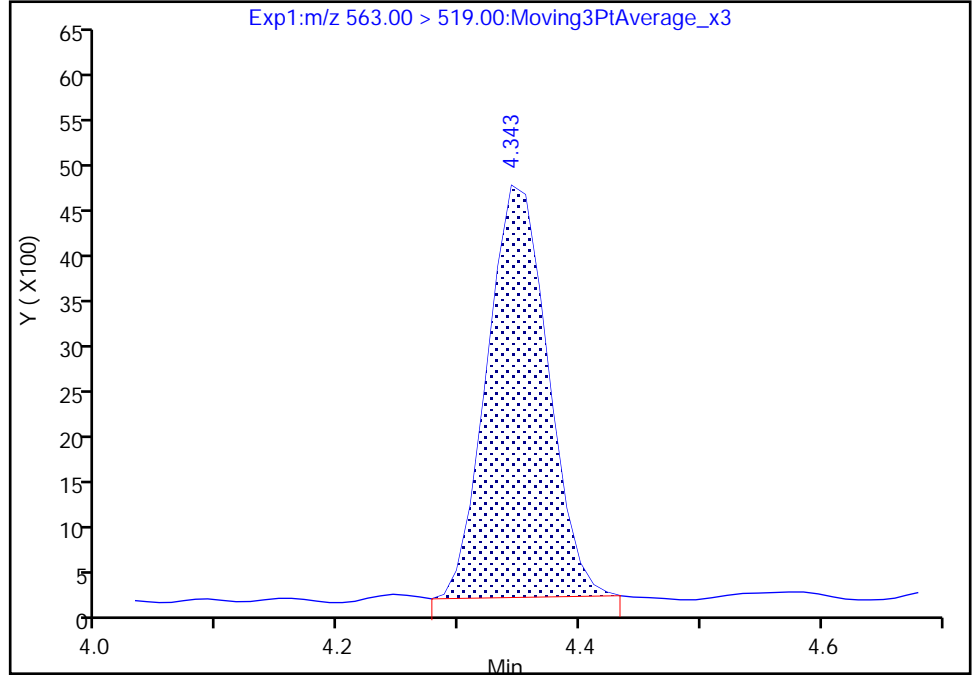
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

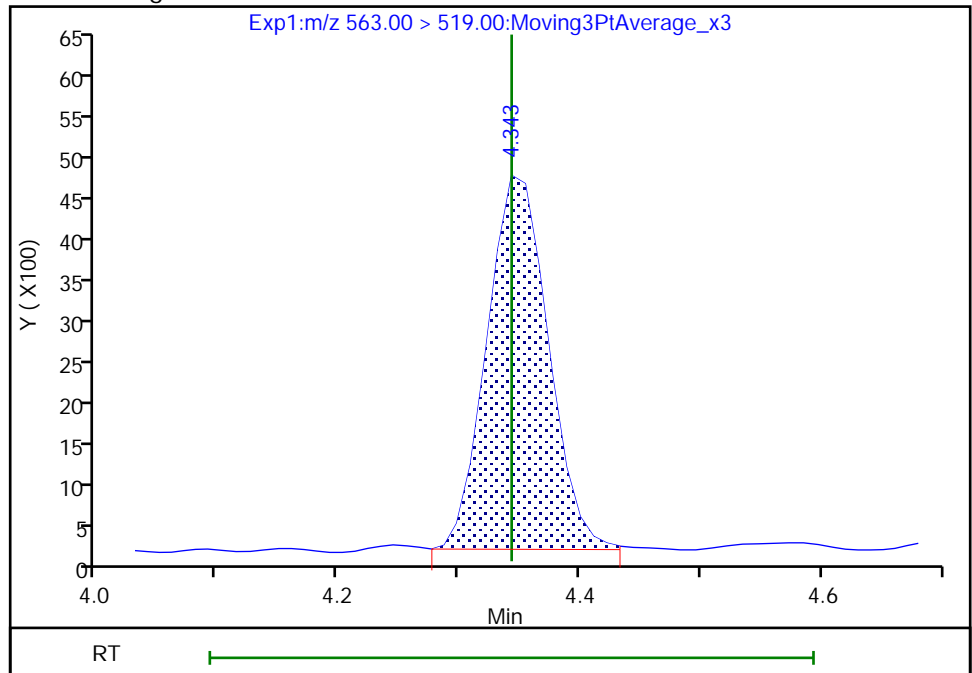
RT: 4.34  
Area: 15878  
Amount: 0.054256  
Amount Units: ng/ml

Processing Integration Results



RT: 4.34  
Area: 16074  
Amount: 0.054926  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:32:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

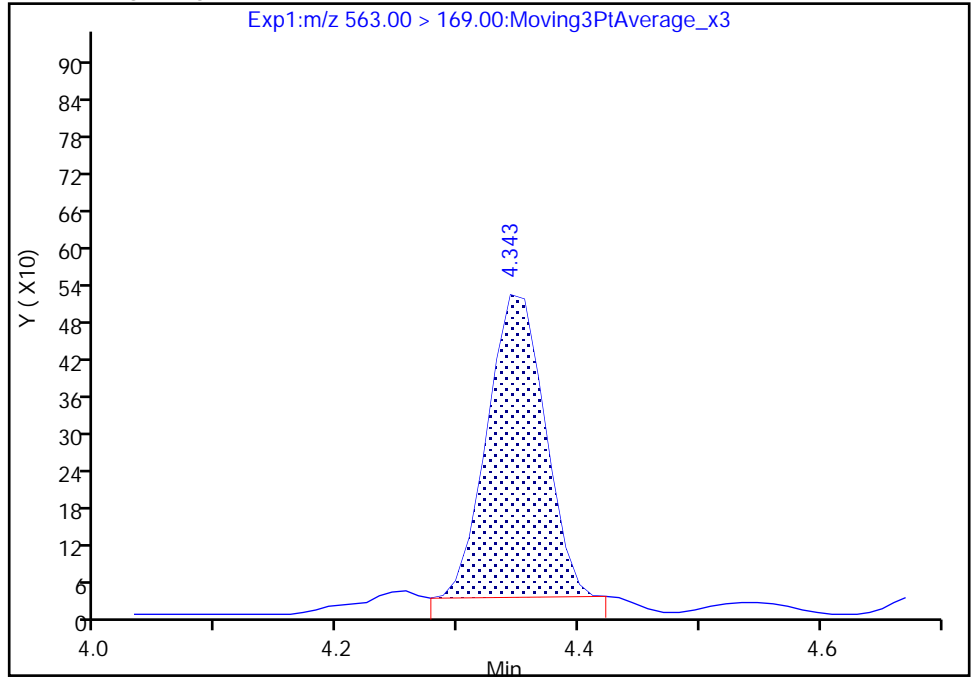
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

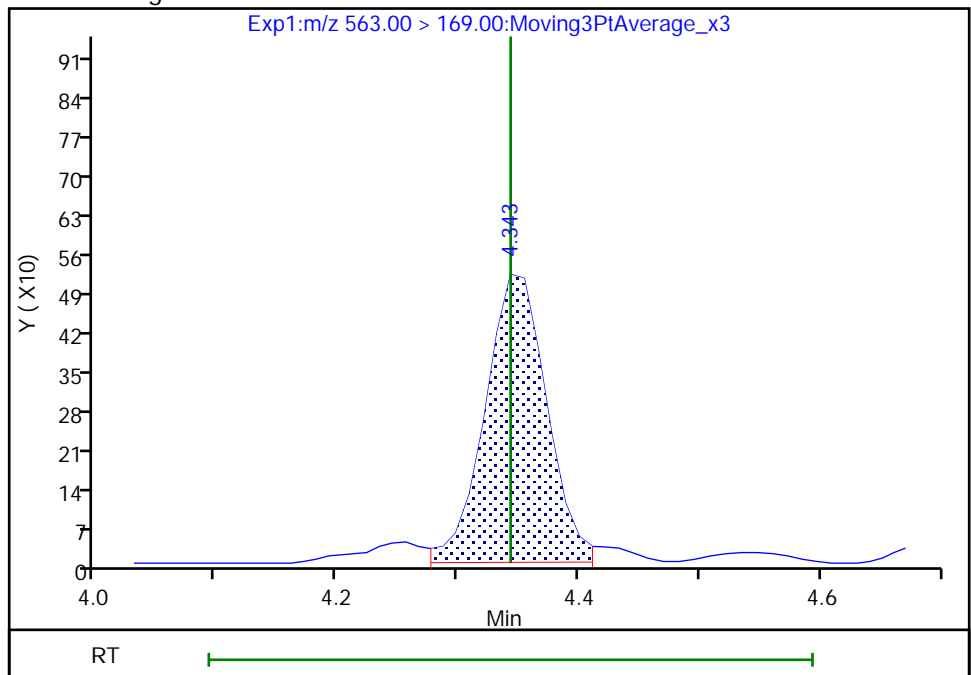
RT: 4.34  
Area: 1614  
Amount: 0.054256  
Amount Units: ng/ml

Processing Integration Results



RT: 4.34  
Area: 1822  
Amount: 0.054926  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:32:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

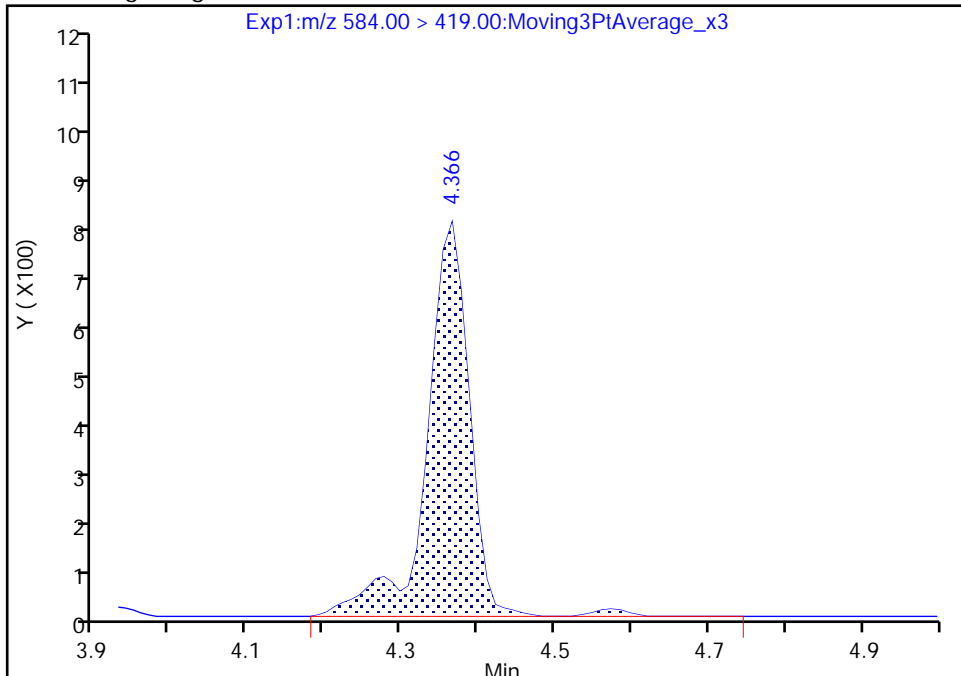
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

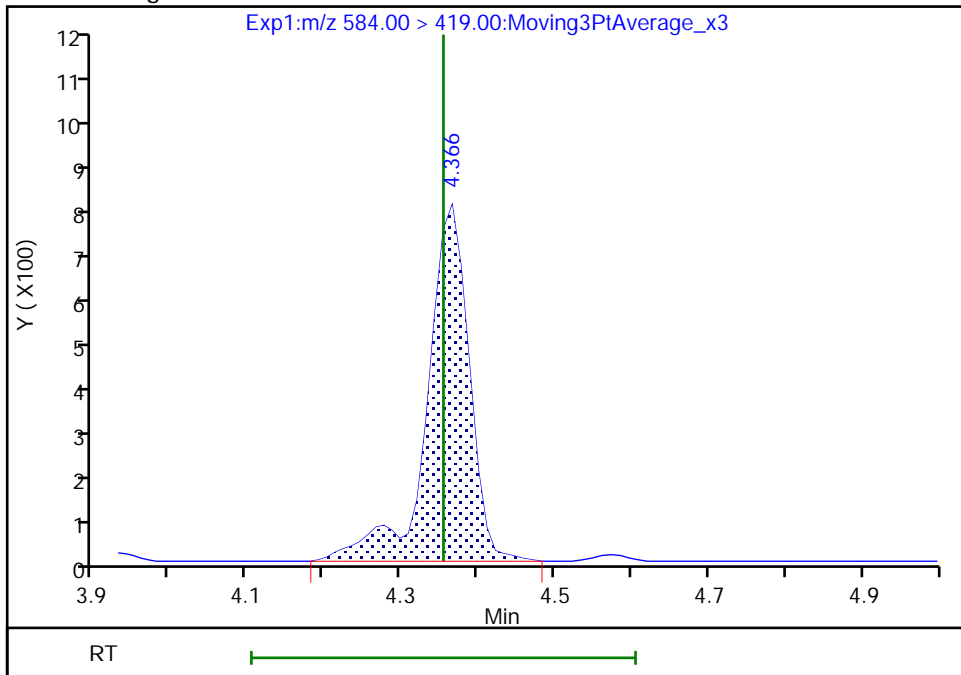
RT: 4.37  
Area: 3134  
Amount: 0.140341  
Amount Units: ng/ml

Processing Integration Results



RT: 4.37  
Area: 3088  
Amount: 0.138282  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:32:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

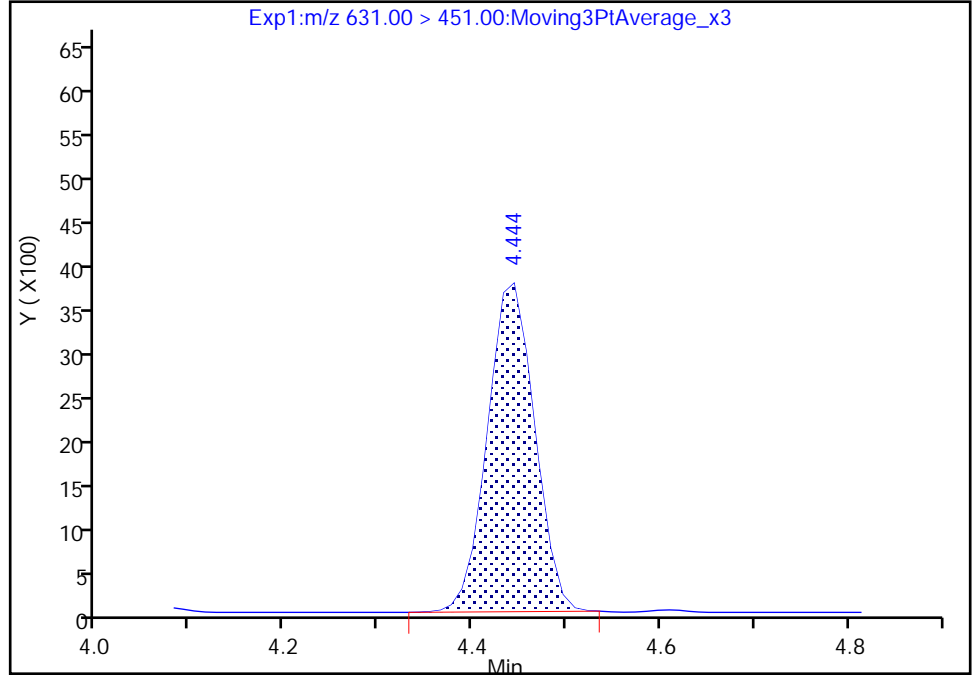
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

66 11-Chloroeicosafuoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

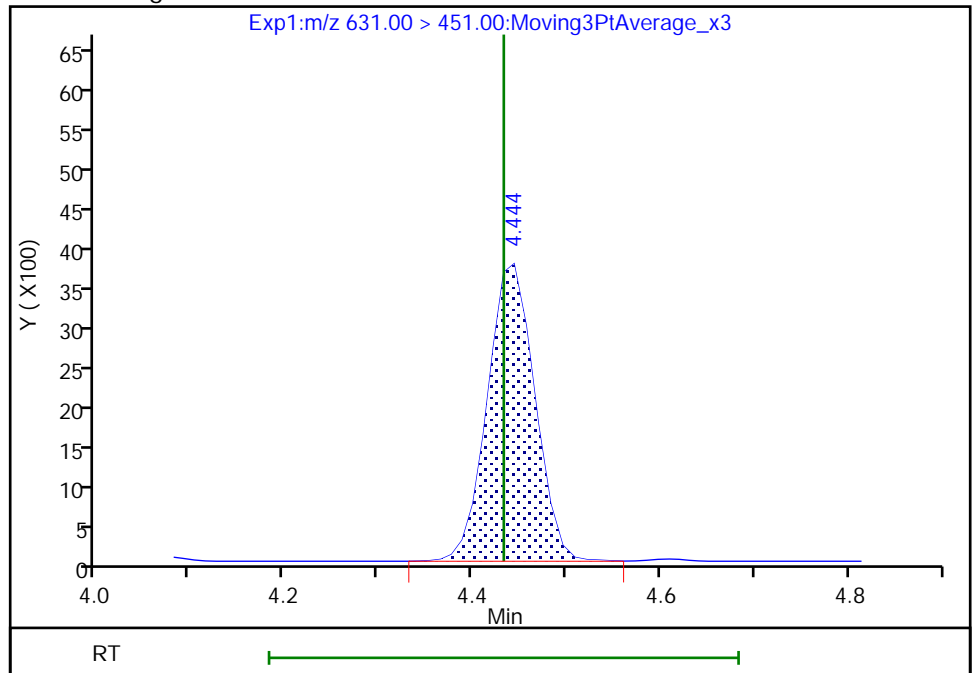
RT: 4.44  
Area: 13007  
Amount: 0.042384  
Amount Units: ng/ml

Processing Integration Results



RT: 4.44  
Area: 13103  
Amount: 0.042697  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:32:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

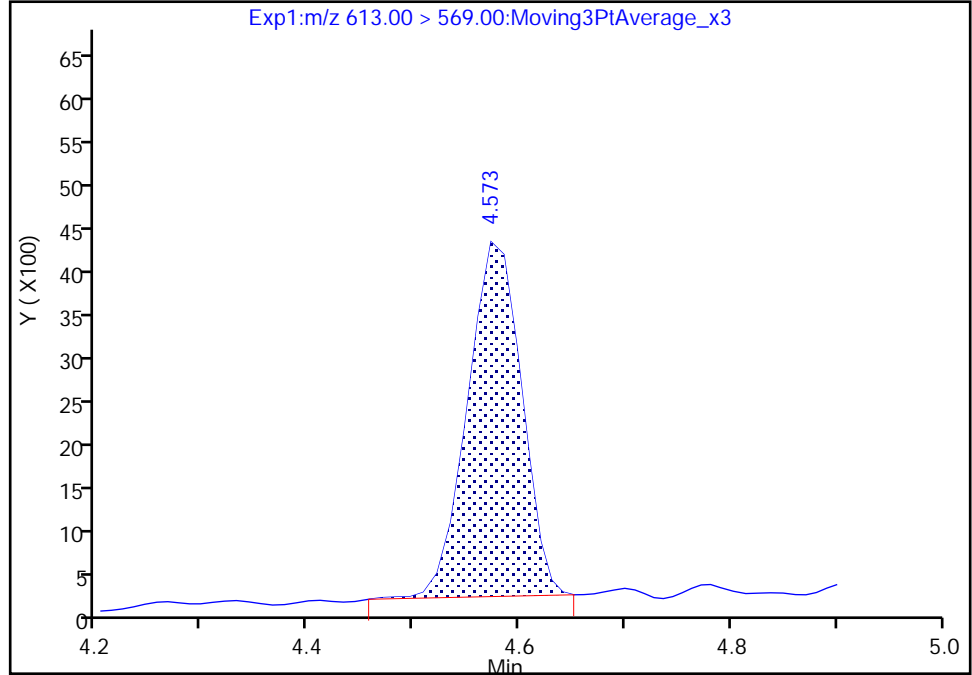
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

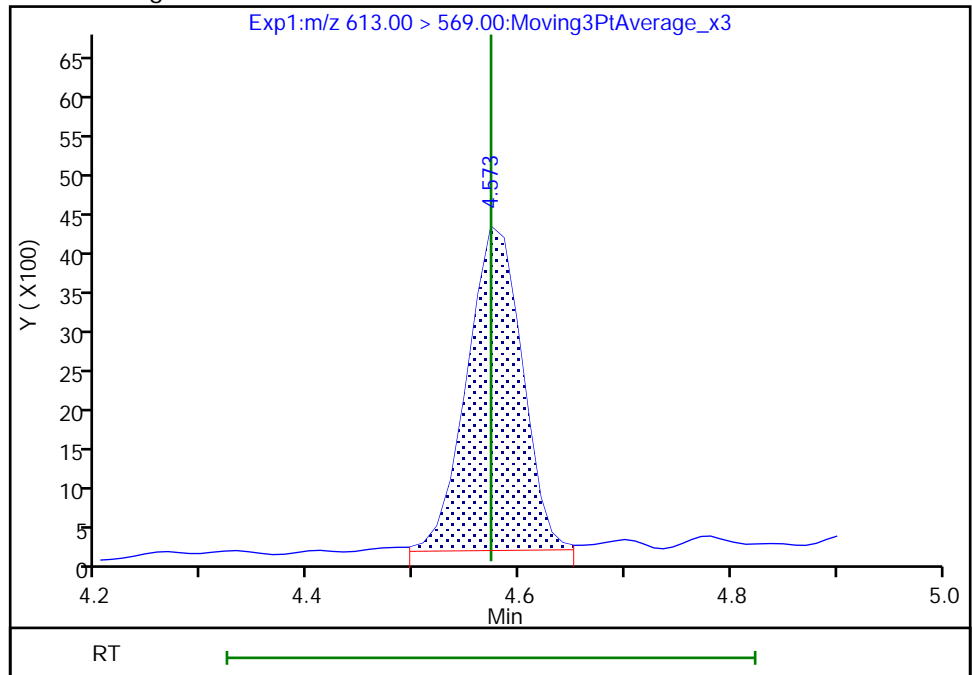
RT: 4.57  
Area: 14603  
Amount: 0.052885  
Amount Units: ng/ml

Processing Integration Results



RT: 4.57  
Area: 14994  
Amount: 0.054301  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:33:18  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

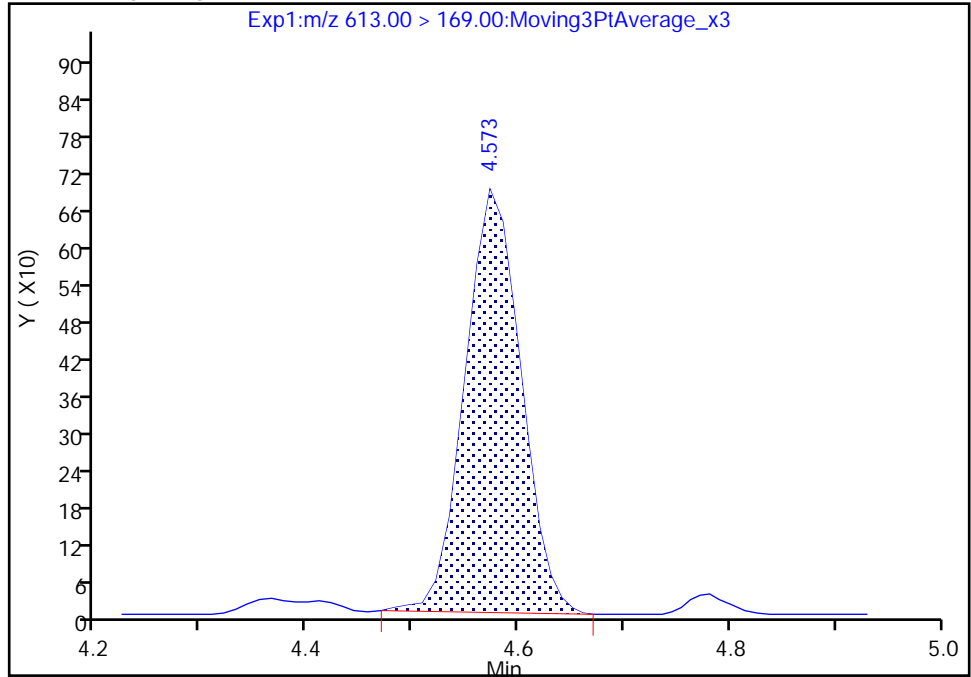
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

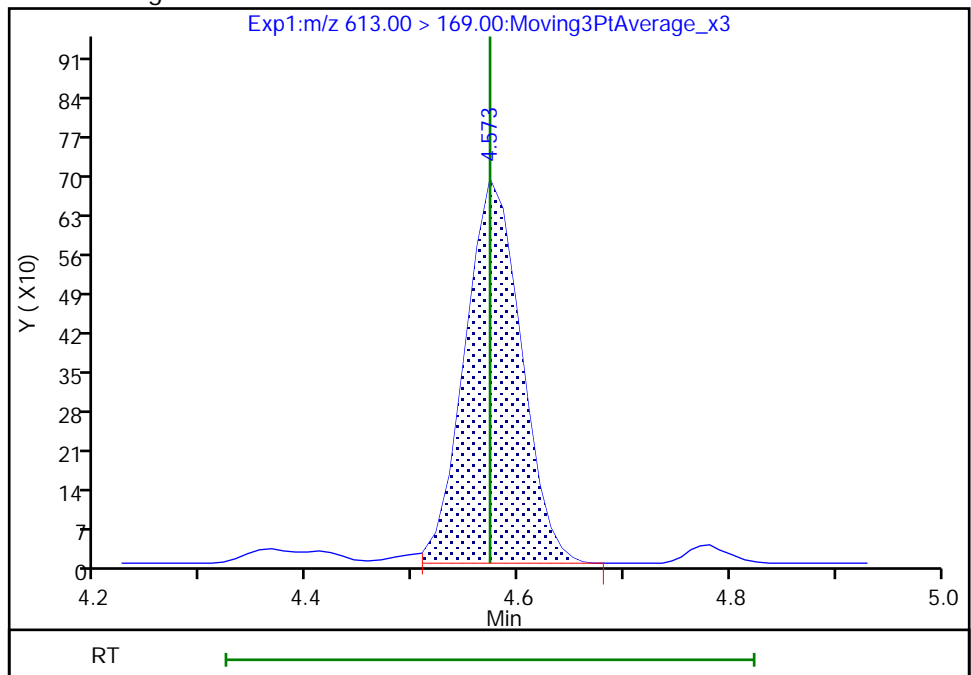
RT: 4.57  
Area: 2531  
Amount: 0.052885  
Amount Units: ng/ml

Processing Integration Results



RT: 4.57  
Area: 2538  
Amount: 0.054301  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:33:19

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

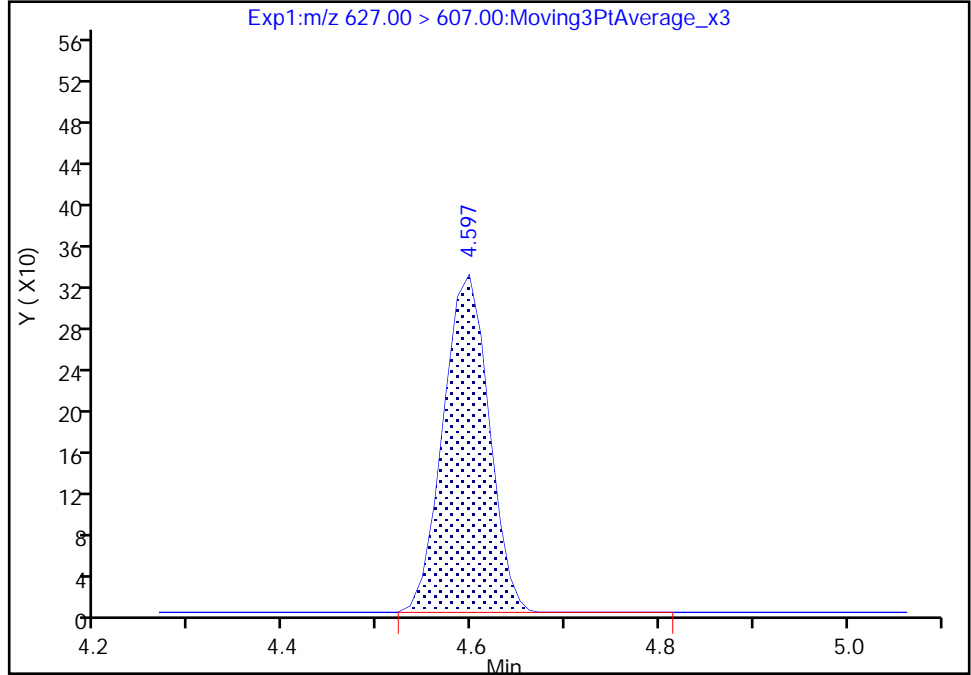
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

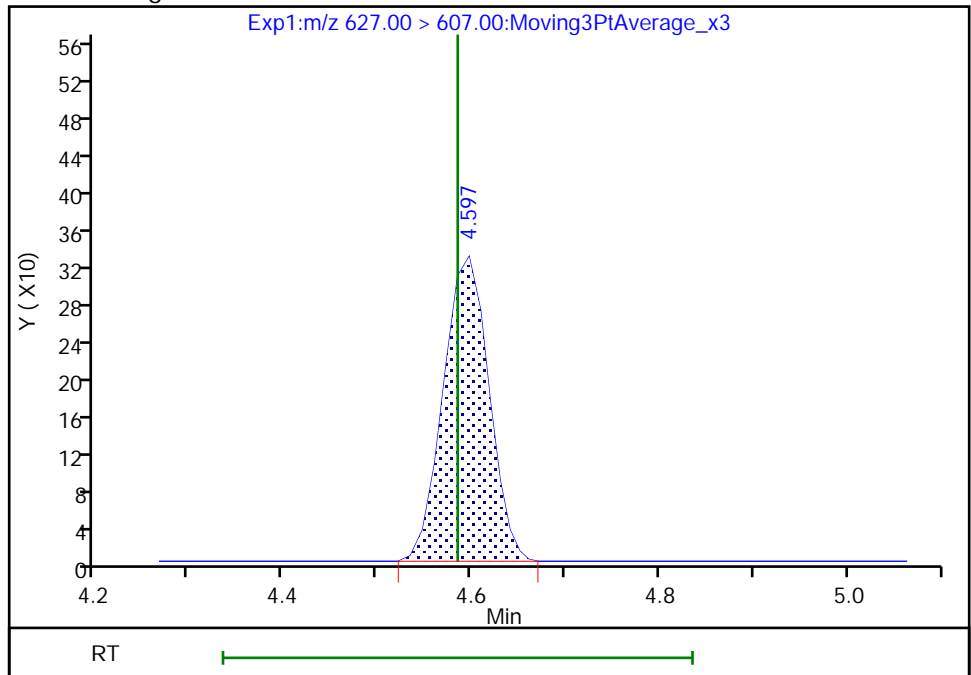
RT: 4.60  
Area: 1105  
Amount: 0.068356  
Amount Units: ng/ml

Processing Integration Results



RT: 4.60  
Area: 1105  
Amount: 0.068356  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:33:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

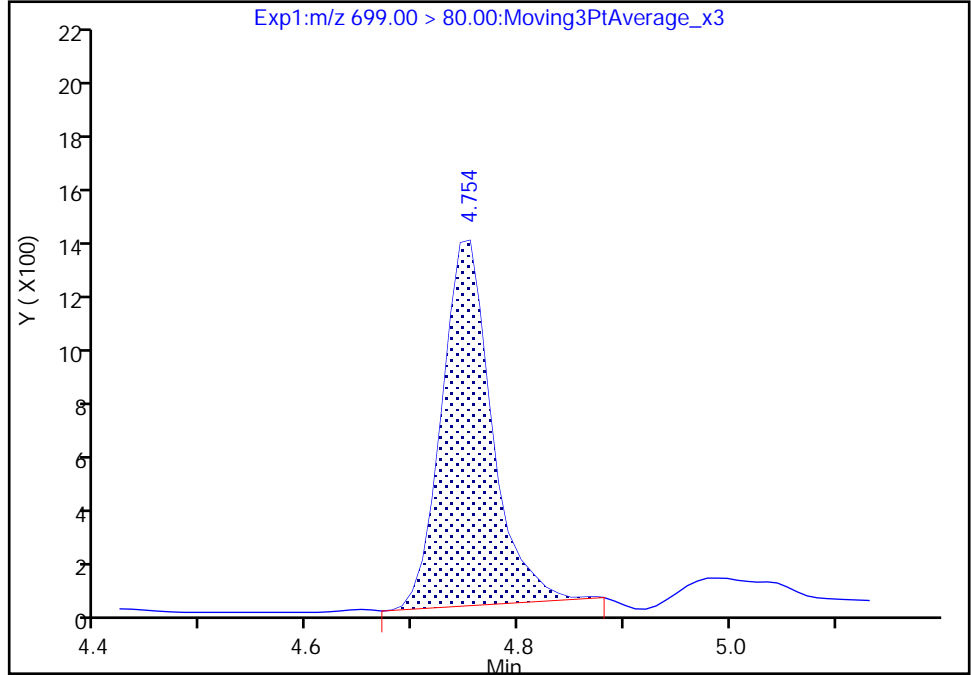
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

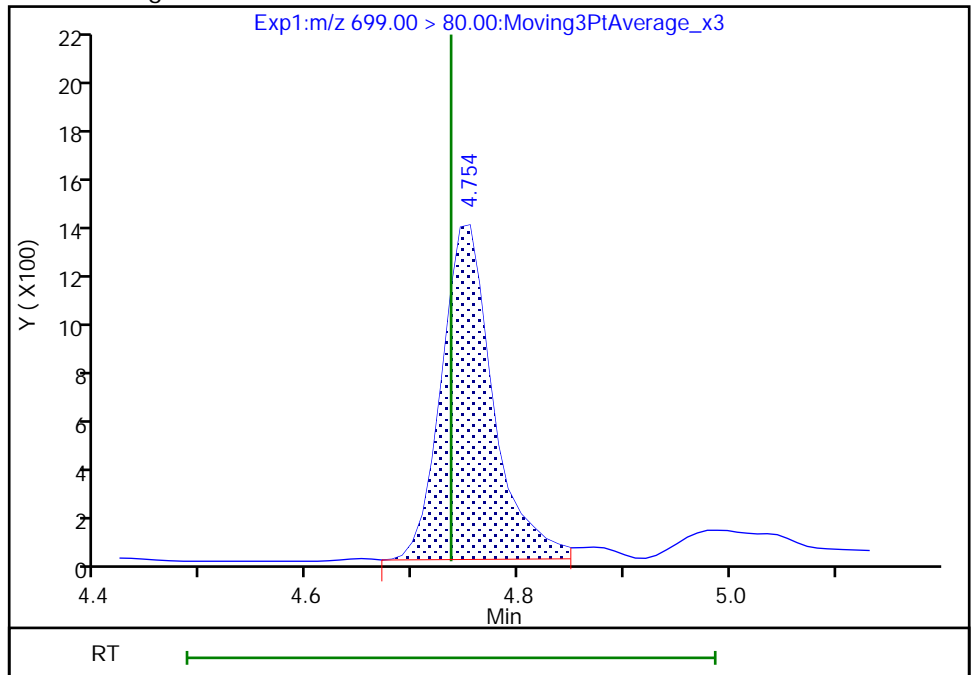
RT: 4.75  
Area: 4453  
Amount: 0.051915  
Amount Units: ng/ml

Processing Integration Results



RT: 4.75  
Area: 4645  
Amount: 0.054153  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:33:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

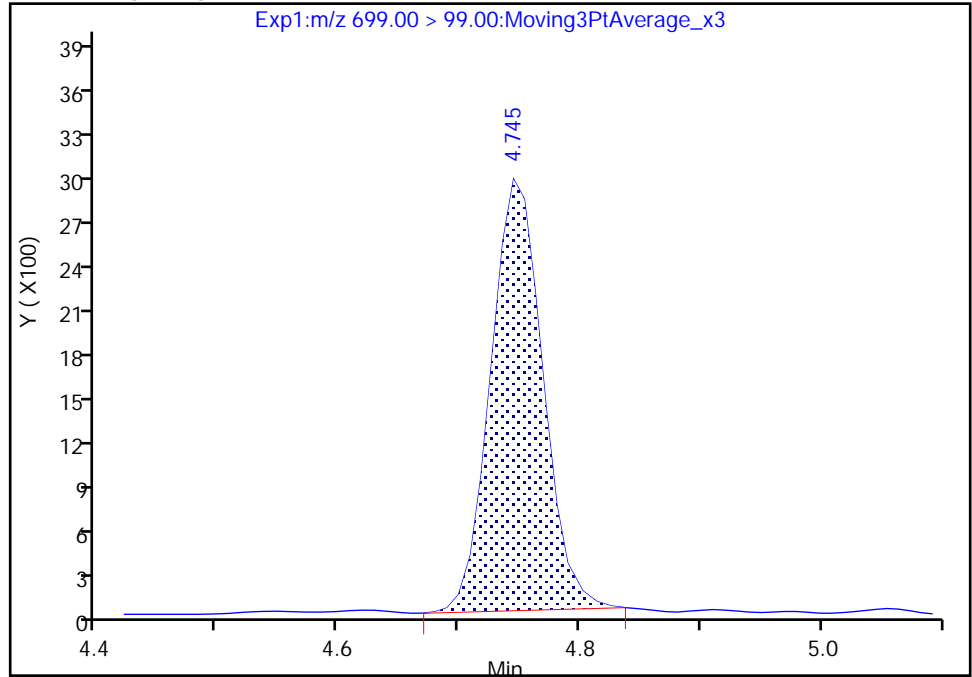
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

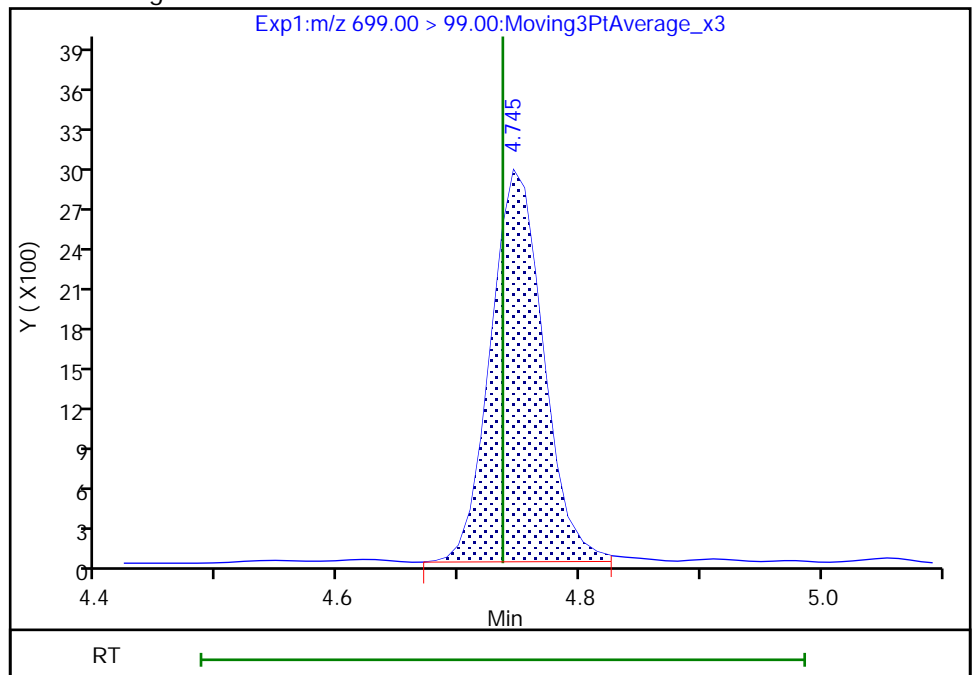
RT: 4.75  
Area: 8702  
Amount: 0.051915  
Amount Units: ng/ml

Processing Integration Results



RT: 4.75  
Area: 8829  
Amount: 0.054153  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:33:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

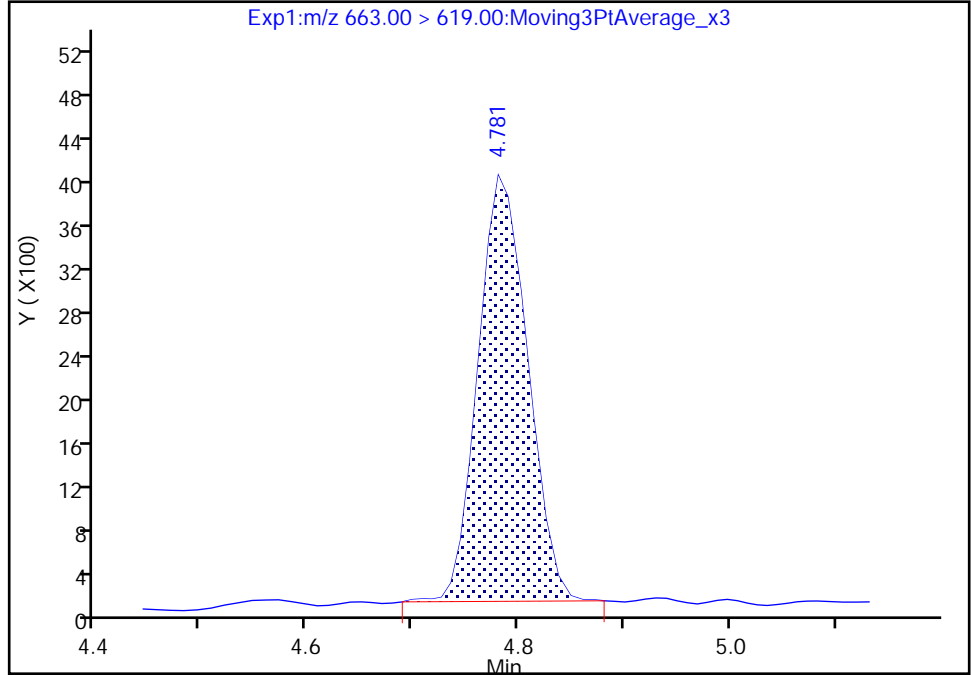
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

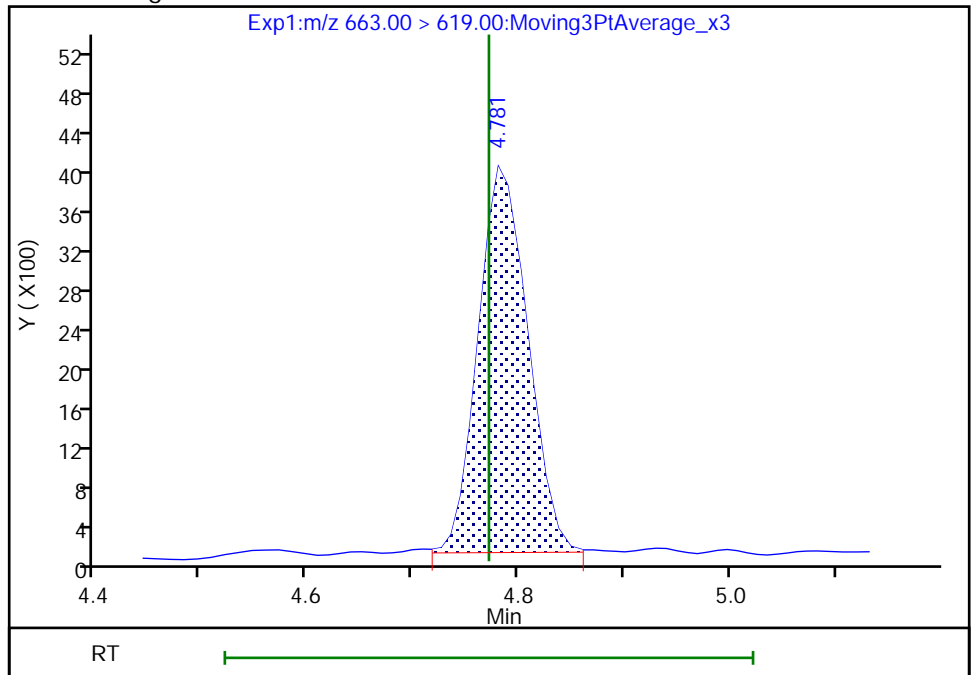
RT: 4.78  
Area: 12663  
Amount: 0.053998  
Amount Units: ng/ml

Processing Integration Results



RT: 4.78  
Area: 12735  
Amount: 0.054305  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:34:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

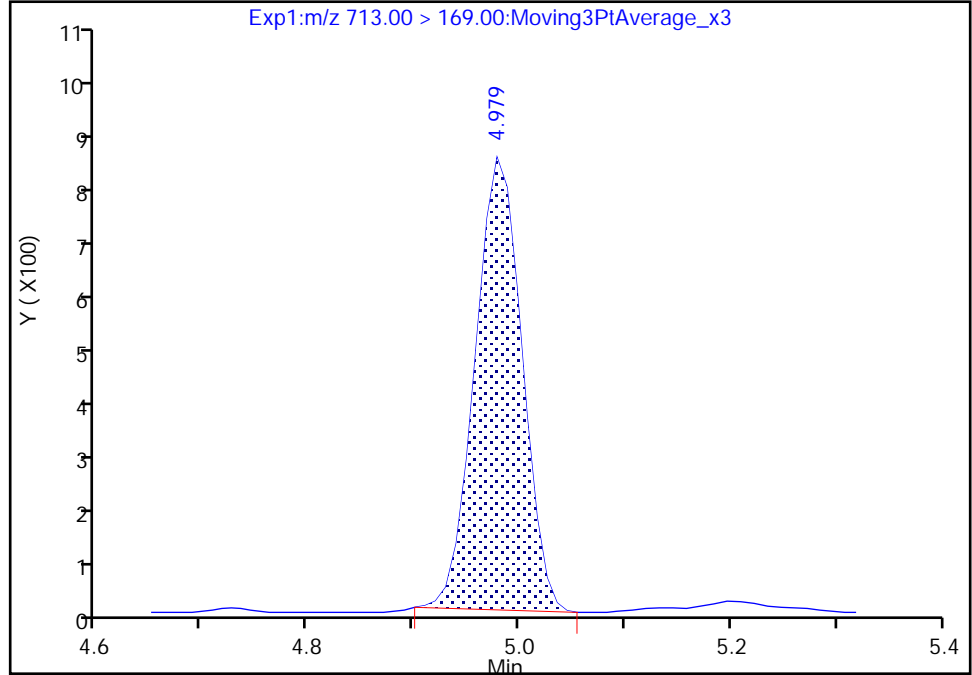
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

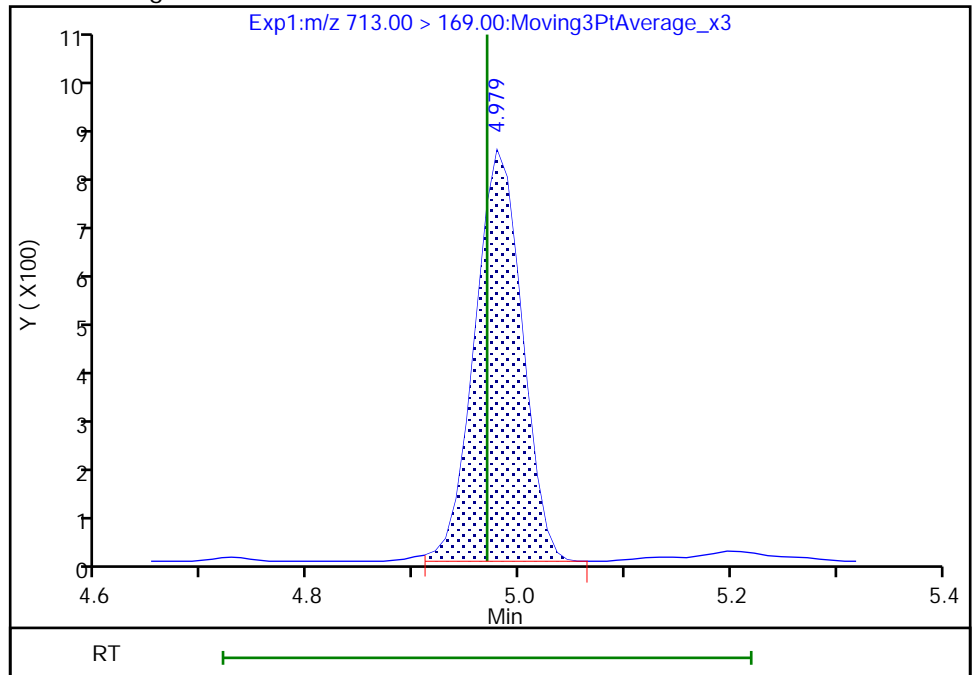
RT: 4.98  
Area: 2483  
Amount: 0.053042  
Amount Units: ng/ml

Processing Integration Results



RT: 4.98  
Area: 2518  
Amount: 0.053790  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:34:22  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

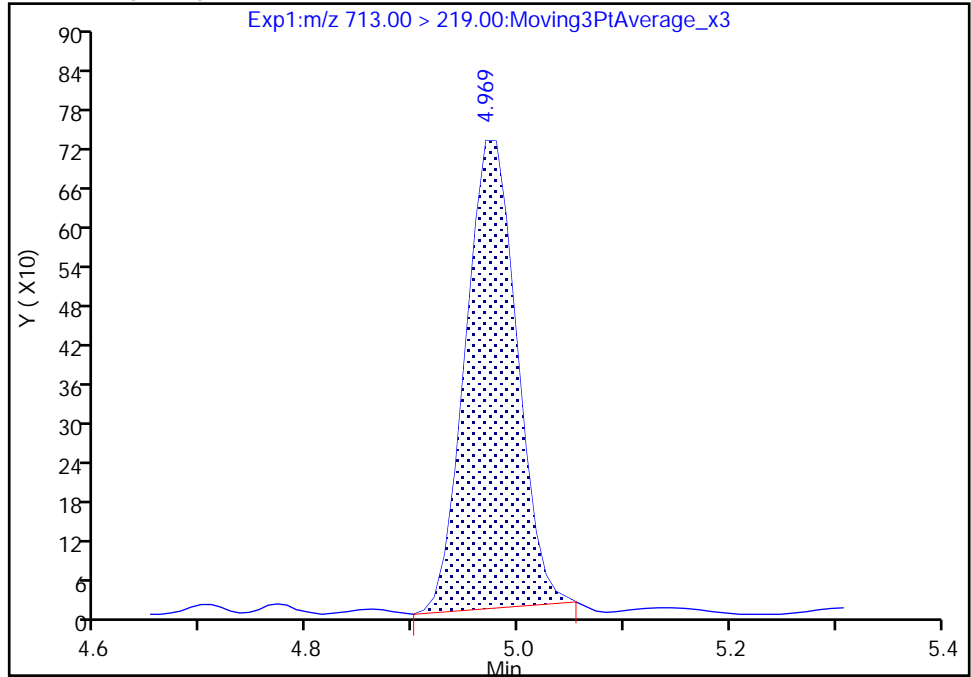
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

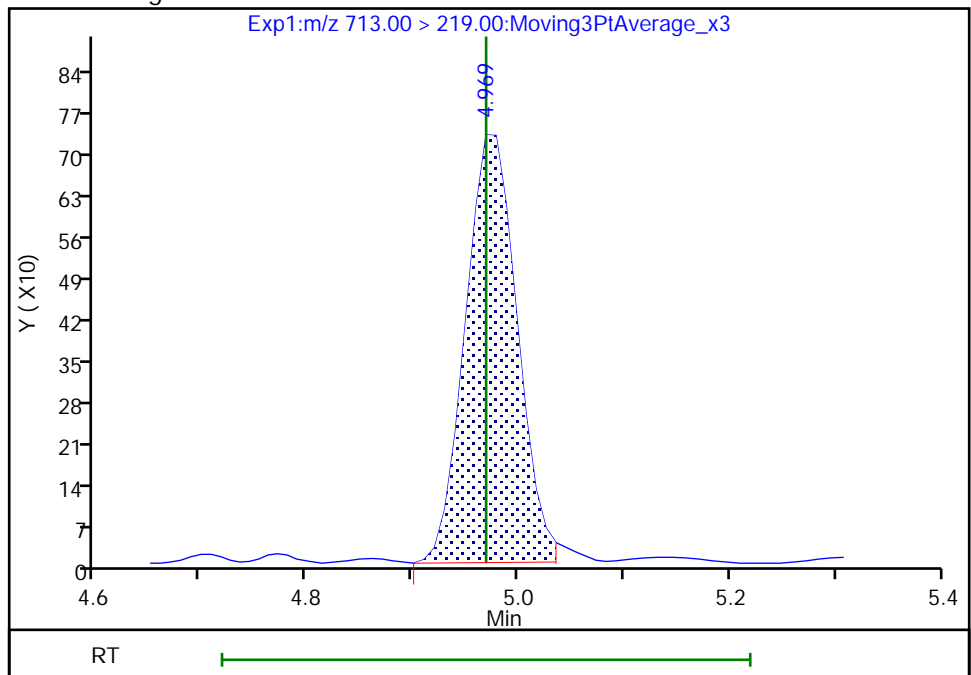
RT: 4.97  
Area: 2417  
Amount: 0.053042  
Amount Units: ng/ml

Processing Integration Results



RT: 4.97  
Area: 2466  
Amount: 0.053790  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:34:23

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

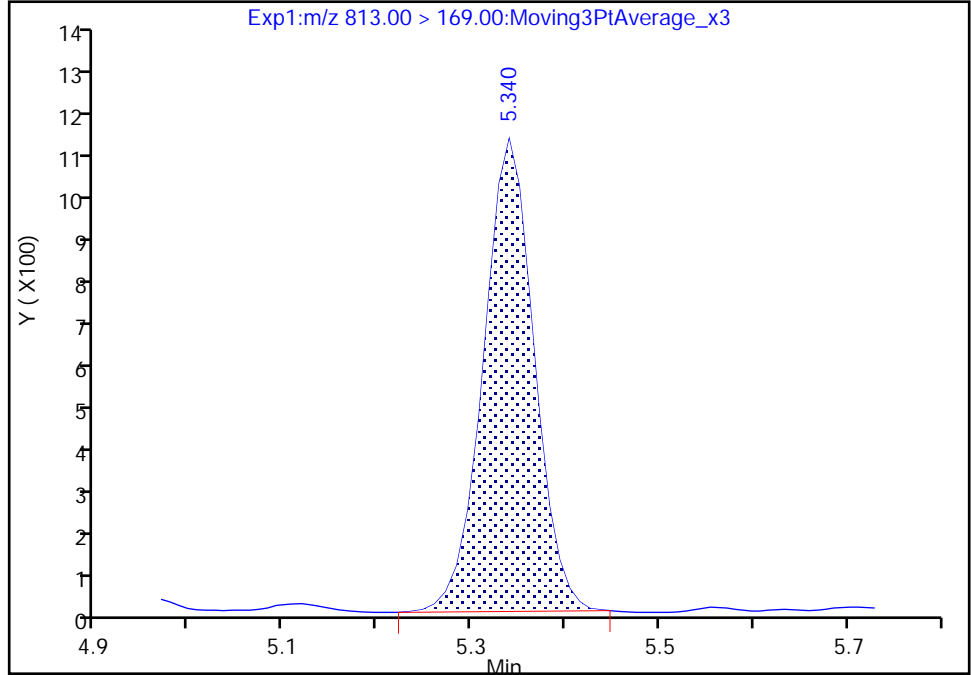
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A05.d  
Injection Date: 30-Sep-2020 14:22:29 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

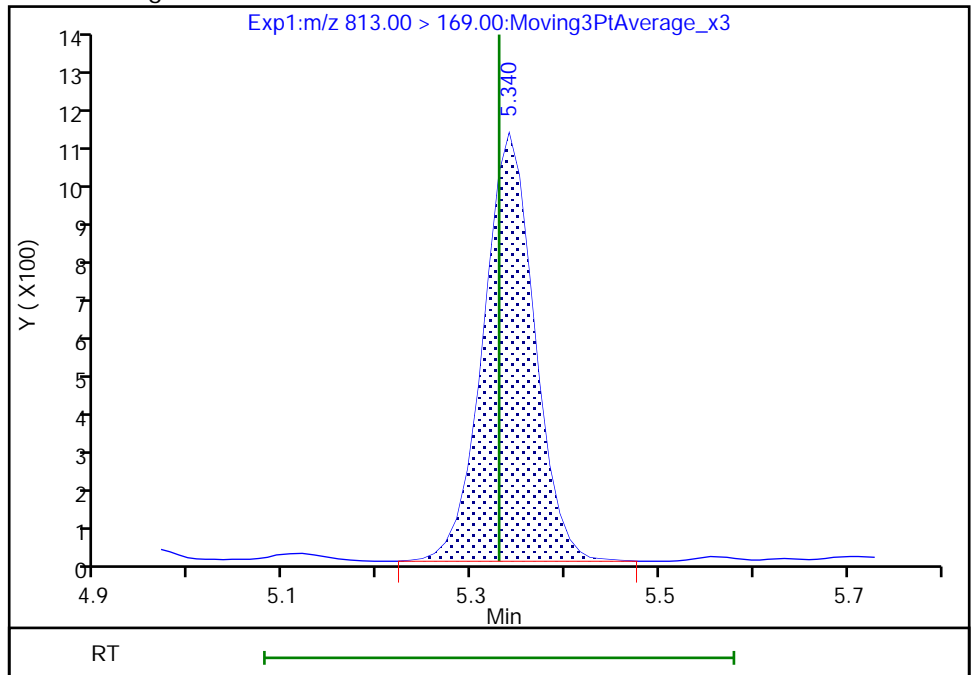
RT: 5.34  
Area: 4063  
Amount: 0.042707  
Amount Units: ng/ml

Processing Integration Results



RT: 5.34  
Area: 4093  
Amount: 0.042707  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:34:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-159389/6 Calibration Date: 09/30/2020 14:30  
 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: PA200930A06.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	0.8751		0.936	1.00	-6.4	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	0.9799		0.928	1.00	-7.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	0.9883		0.877	0.884	-0.8	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.420		0.821	0.934	-12.1	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	0.9631		0.956	1.00	-4.4	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.175		0.931	0.938	-0.8	50.0
HFPO-DA	AveID	2.128	1.935		0.909	1.00	-9.1	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.029		0.848	0.910	-6.8	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	1.014		1.01	1.00	1.2	40.0
DONA	AveID	3.081	2.957		0.904	0.942	-4.0	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7237		0.860	0.948	-9.3	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.164		0.957	0.952	0.5	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.011		0.979	1.00	-2.1	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	0.9752		0.833	0.928	-10.3	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	0.9703		0.953	1.00	-4.7	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.8865		0.864	0.932	-7.3	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8263		0.924	0.960	-3.8	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.4164		1.01	0.958	5.2	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.9634		0.974	1.00	-2.6	40.0
Perfluorodecanesulfonamide (PFOSA)	AveID	0.9348	0.9603		1.03	1.00	2.7	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9618		1.02	1.00	1.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6717		0.901	0.964	-6.5	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	1.029		1.04	1.00	4.3	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.8448		0.923	1.00	-7.7	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7960		0.909	0.942	-3.5	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.8600		0.882	1.00	-11.8	40.0
10:2 FTS	AveID	0.2199	0.2049		0.898	0.964	-6.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.1810		0.760	0.968	-21.5	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.7682		0.928	1.00	-7.2	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2171		0.948	1.00	-5.2	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-159389/6 Calibration Date: 09/30/2020 14:30  
 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: PA200930A06.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		0.8713		0.979	1.00	-2.1	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.7054		0.944	1.00	-5.6	50.0
13C4 PFBA	Ave	1.433	1.526		1.33	1.25	6.5	50.0
13C5 PFPeA	Ave	1.027	1.036		1.26	1.25	0.8	50.0
13C3 PFBS	Ave	1.251	1.216		1.13	1.16	-2.8	50.0
M2-4:2 FTS	Ave	0.0939	0.1037		1.29	1.17	10.4	50.0
13C2 PFHxA	Ave	1.058	1.134		1.34	1.25	7.2	50.0
13C3 HFPO-DA	Ave	0.0985	0.1120		1.42	1.25	13.7	50.0
18O2 PFHxS	Ave	0.8974	0.8984		1.18	1.18	0.1	50.0
13C4 PFHpA	Ave	0.9620	0.9888		1.28	1.25	2.8	50.0
M2-6:2 FTS	Ave	0.1199	0.1248		1.24	1.19	4.1	50.0
13C4 PFOA	Ave	0.9845	0.9619		1.22	1.25	-2.3	50.0
13C4 PFOS	Ave	0.7341	0.7372		1.20	1.20	0.4	50.0
13C5 PFNA	Ave	0.8296	0.8209		1.24	1.25	-1.1	50.0
13C2 PFDA	Ave	0.7956	0.7675		1.21	1.25	-3.5	50.0
M2-8:2 FTS	Ave	0.1413	0.1364		1.16	1.20	-3.4	50.0
13C8 FOSA	Ave	1.282	1.217		1.19	1.25	-5.1	50.0
d3-NMeFOSAA	Ave	0.0453	0.0369		1.02	1.25	-18.6	50.0
13C2 PFUnA	Ave	0.6006	0.5471		1.14	1.25	-8.9	50.0
d5-NEtFOSAA	Ave	0.0487	0.0470		1.21	1.25	-3.4	50.0
13C2 PFDoA	Ave	0.6348	0.6081		1.20	1.25	-4.2	50.0
13C2 PFTeDA	Ave	0.4522	0.3970		1.10	1.25	-12.2	50.0
13C2 PFHxDA	Ave	0.5124	0.3859		0.941	1.25	-24.7	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 30-Sep-2020 14:30:45 ALS Bottle#: 3 Worklist Smp#: 6  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 200-0043031-006 Plate: 1 Rack: 1  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 13:34:27 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 08:39:31

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	1.990	0.0	0.577	983389	1.33	107	14545		
2 Perfluorobutanoic acid	212.90 > 169.00	1.990	1.990	0.0	1.000	688428	0.9362	93.6	230		
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	667191	1.26	101	2904		
4 Perfluoropentanoic acid	262.90 > 219.00	2.326	2.326	0.0	1.000	523045	0.9279	92.8	41.0	M	
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	728329	1.13	97.2	270404		
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.353	2.353	0.0	1.006	547350	0.8768	Target=2.07	99.2	1111	M
	298.90 > 99.00	2.353	2.353	0.0	1.006	285311	1.92(1.04-3.11)		452	M	
D 60 M2-4:2 FTS	329.00 > 81.00	2.665	2.665	0.0	0.773	62430	1.29	110	129	M	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.665	2.665	0.0	1.000	70917	0.8206	87.9	988		
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.784	730695	1.34	107	2655		
6 Perfluorohexanoic acid	313.00 > 269.00	2.703	2.703	0.0	1.000	562976	0.9564	Target=12.44	95.6	281	M
	313.00 > 119.00	2.703	2.703	0.0	1.000	48823	11.53(6.22-18.66)		52.6	M	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.703	2.703	0.0	0.880	510275	0.9307	Target=3.64	99.2	1488	
	349.00 > 99.00	2.703	2.703	0.0	0.880	150952	3.38(1.82-5.46)		523		
D 64 13C3 HFPO-DA	332.10 > 287.00	2.810	2.810	0.0	0.815	72175	1.42	114	955		

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	111705	0.9092		90.9	36.5	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	547558	1.18		100	1191	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	433732	0.8481	Target=4.60	93.2	1222	
399.00 > 99.00	3.073	3.073	0.0	1.000	99534		4.36(2.30-6.91)		264	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.084	0.0	0.894	637043	1.28		103	3502	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.000	516980	1.01	Target=3.34	101	393	
363.00 > 169.00	3.084	3.084	0.0	1.000	147014		3.52(1.67-5.01)		259	
77 DONA										
377.00 > 251.00	3.115	3.115	0.0	0.827	1058236	0.9039	Target=2.44	96.0	3094	
377.00 > 85.00	3.115	3.115	0.0	0.827	435692		2.43(1.22-3.67)		1386	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.433	3.433	0.0	0.912	421143	0.9567	Target=7.08	100	2198	
449.00 > 99.00	3.433	3.433	0.0	0.912	58711		7.17(3.54-10.63)		728	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.433	3.433	0.0	1.000	44143	0.8597		90.7	1372	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.433	3.433	0.0	0.995	76405	1.24		104	937	
D 14 13C4 PFOA										
417.00 > 372.00	3.441	3.441	0.0	0.997	619726	1.22		97.7	4796	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		644288	1.25			2210	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.450	3.450	0.0	1.003	501151	0.9791	Target=2.29	97.9	304	
413.00 > 169.00	3.450	3.450	0.0	1.003	218896		2.29(1.14-3.43)		660	
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	454046	1.20		100	2097	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	343866	0.8328	Target=7.10	89.7	1063	M
499.00 > 99.00	3.765	3.765	0.0	1.000	49100		7.00(3.55-10.64)		605	M
D 19 13C5 PFNA										
468.00 > 423.00	3.776	3.776	0.0	1.094	528885	1.24		98.9	3455	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.786	3.786	0.0	1.003	410546	0.9528	Target=5.83	95.3	166	M
463.00 > 169.00	3.786	3.786	0.0	1.003	71082		5.78(2.91-8.74)		974	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	313911	0.8639		92.7	2544	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.052	0.0	1.076	301387	0.9236	Target=3.38	96.2	4457	
549.00 > 99.00	4.052	4.052	0.0	1.076	85399		3.53(1.69-5.08)		580	
D 23 13C2 PFDA										
515.00 > 470.00	4.072	4.072	0.0	1.180	494487	1.21		96.5	4824	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.082	4.082	0.0	1.002	381106	0.9737	Target=6.81	97.4	1130	
513.00 > 169.00	4.072	4.082	-0.010	1.000	52447		7.27(3.41-10.22)		968	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.082	4.082	0.0	0.998	28051	1.01		105	626	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	84197	1.16		96.6	998	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	784158	1.19		94.9	2894	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.139	0.0	1.000	602432	1.03		103	1147	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.214	0.0	1.221	23767	1.02		81.4	90.8	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.224	4.224	0.0	1.002	18287	1.02		102	198	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.309	4.309	0.0	1.144	246018	0.9011	Target=3.31	93.5	1796	M
599.00 > 99.00	4.309	4.309	0.0	1.144	76062		3.23(1.66-4.97)		847	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	352462	1.14		91.1	5225	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.343	0.0	1.000	290211	1.04	Target=6.57	104	484	
563.00 > 169.00	4.343	4.343	0.0	1.000	45889		6.32(3.28-9.85)		1226	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	30291	1.21		96.6	394	M
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.355	0.0	1.000	20472	0.9228		92.3	492	
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.177	284887	0.9089		96.5	2631	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	391770	1.20		95.8	3757	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	269545	0.8819	Target=5.16	88.2	374	
613.00 > 169.00	4.573	4.573	0.0	1.000	55306		4.87(2.58-7.75)		1947	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.585	4.585	0.0	1.121	13889	0.8981		93.2	557	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.736	4.736	0.0	1.258	66560	0.7597	Target=0.45	78.5	527	
699.00 > 99.00	4.745	4.736	0.009	1.260	156307		0.43(0.22-0.67)		1824	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.772	4.772	0.0	1.044	240773	0.9276	Target=3.30	92.8	309	
663.00 > 169.00	4.772	4.772	0.0	1.044	65609		3.67(1.65-4.95)		1432	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.969	4.969	0.0	1.440	255774	1.10		87.8	4535	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.969	4.969	0.0	1.000	44420	0.9478	Target=1.06	94.8	1272	
713.00 > 219.00	4.969	4.969	0.0	1.000	47142		0.94(0.53-1.59)		935	

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	5.329	5.329	0.0	1.545	248620	0.9413		75.3	2801	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.329	5.329	0.0	1.000	173306	0.9794	Target=3.06	97.9	157	
813.00 > 169.00	5.329	5.329	0.0	1.000	55513		3.12(1.53-4.58)		1373	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.694	5.694	0.0	1.068	140307	0.9439	Target=2.82	94.4	290	
913.00 > 169.00	5.686	5.694	-0.008	1.067	48701		2.88(1.41-4.24)		814	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

PFAS32NCIC4\_00011

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d

Injection Date: 30-Sep-2020 14:30:45

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

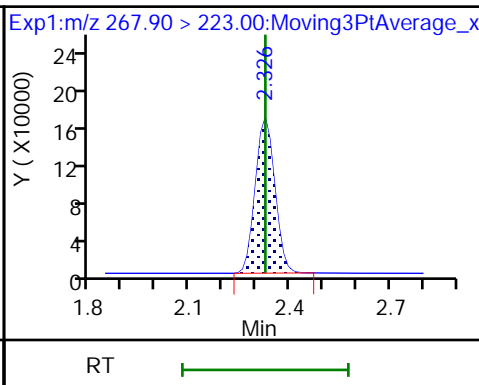
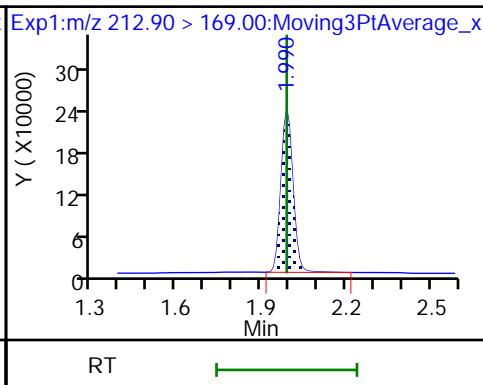
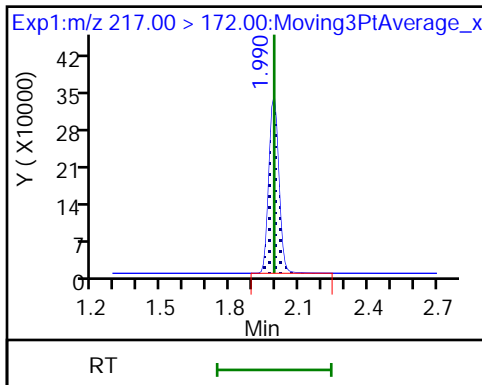
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

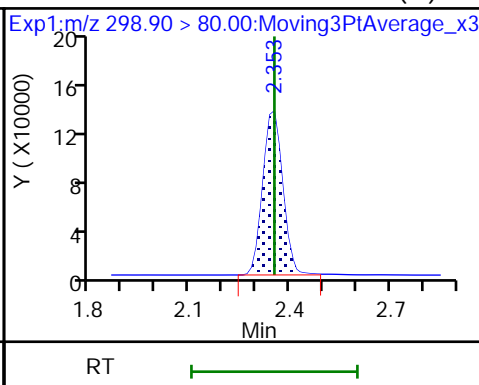
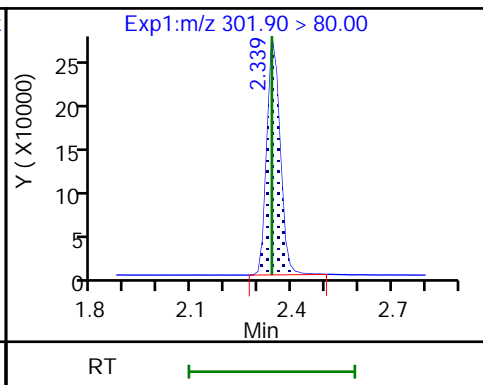
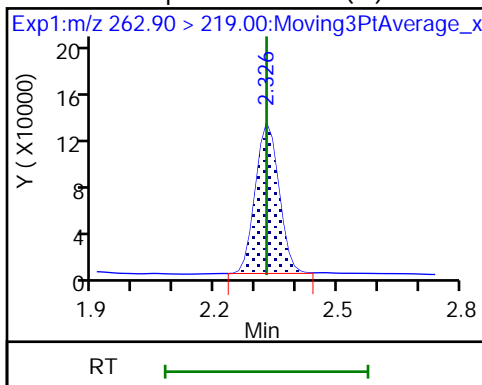
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

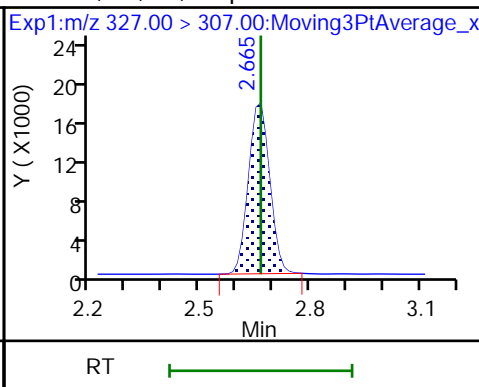
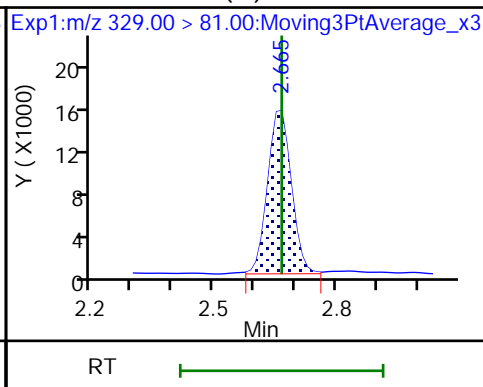
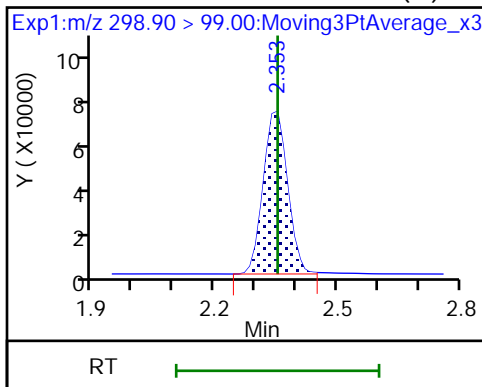
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 60 M2-4:2 FTS (M)

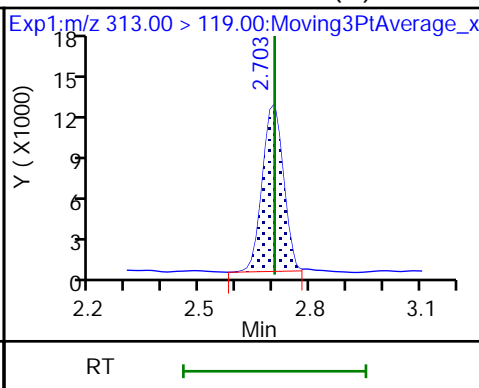
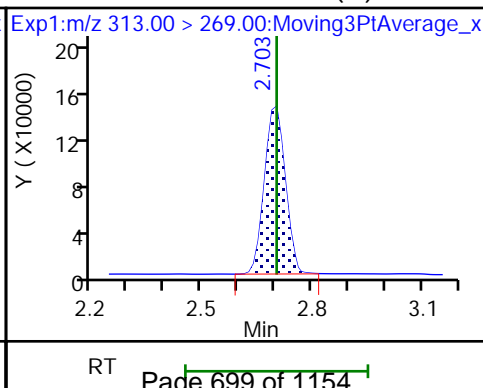
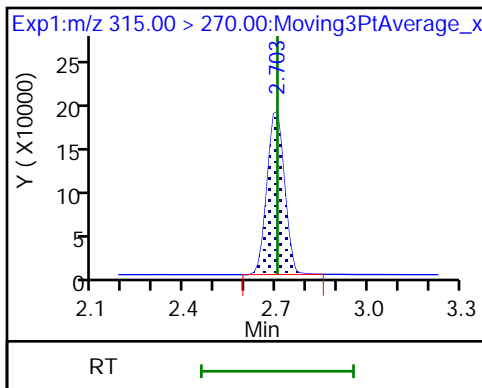
61 1H,1H,2H,2H-perfluorohexanesulfo



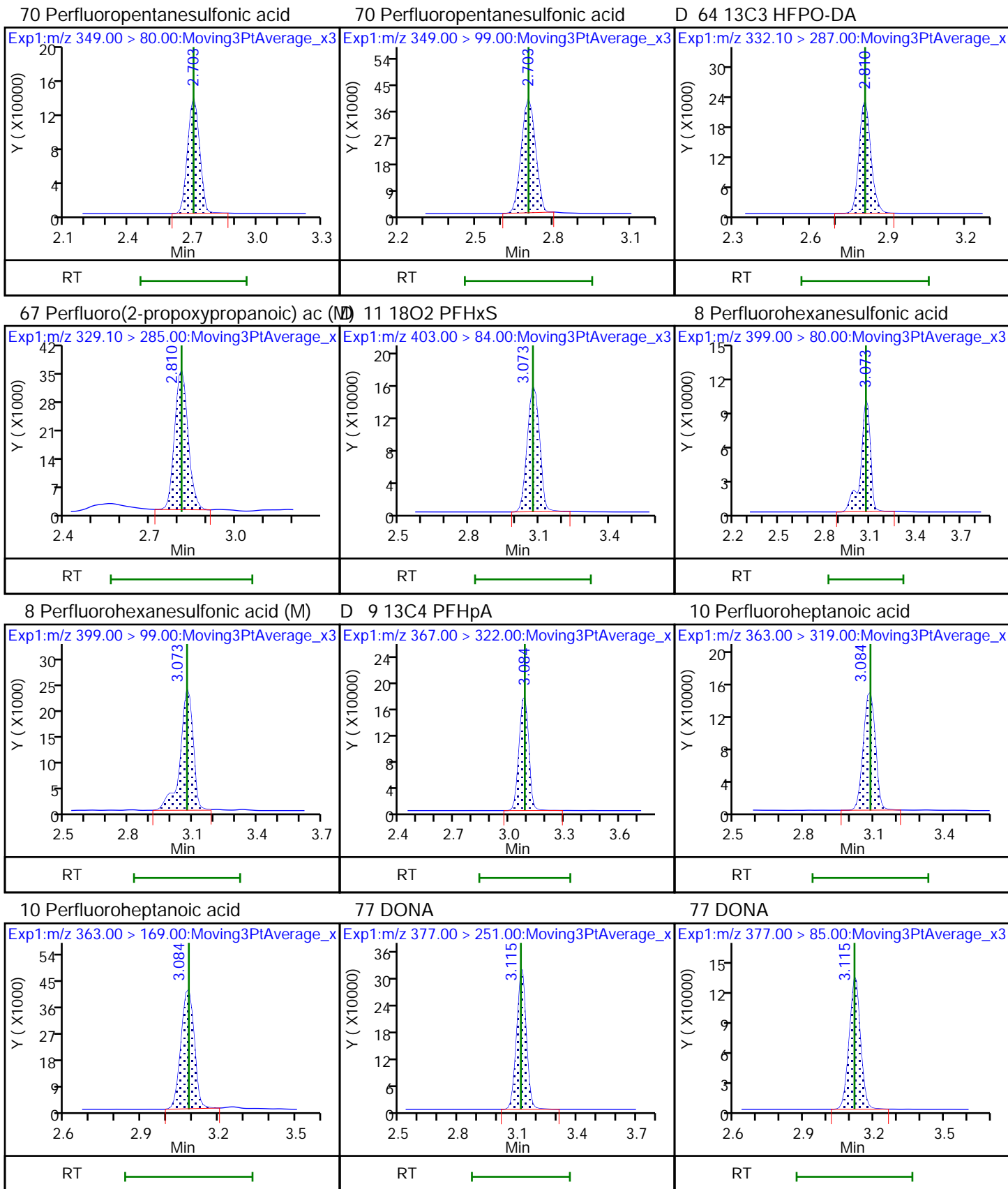
D 7 13C2 PFHxA

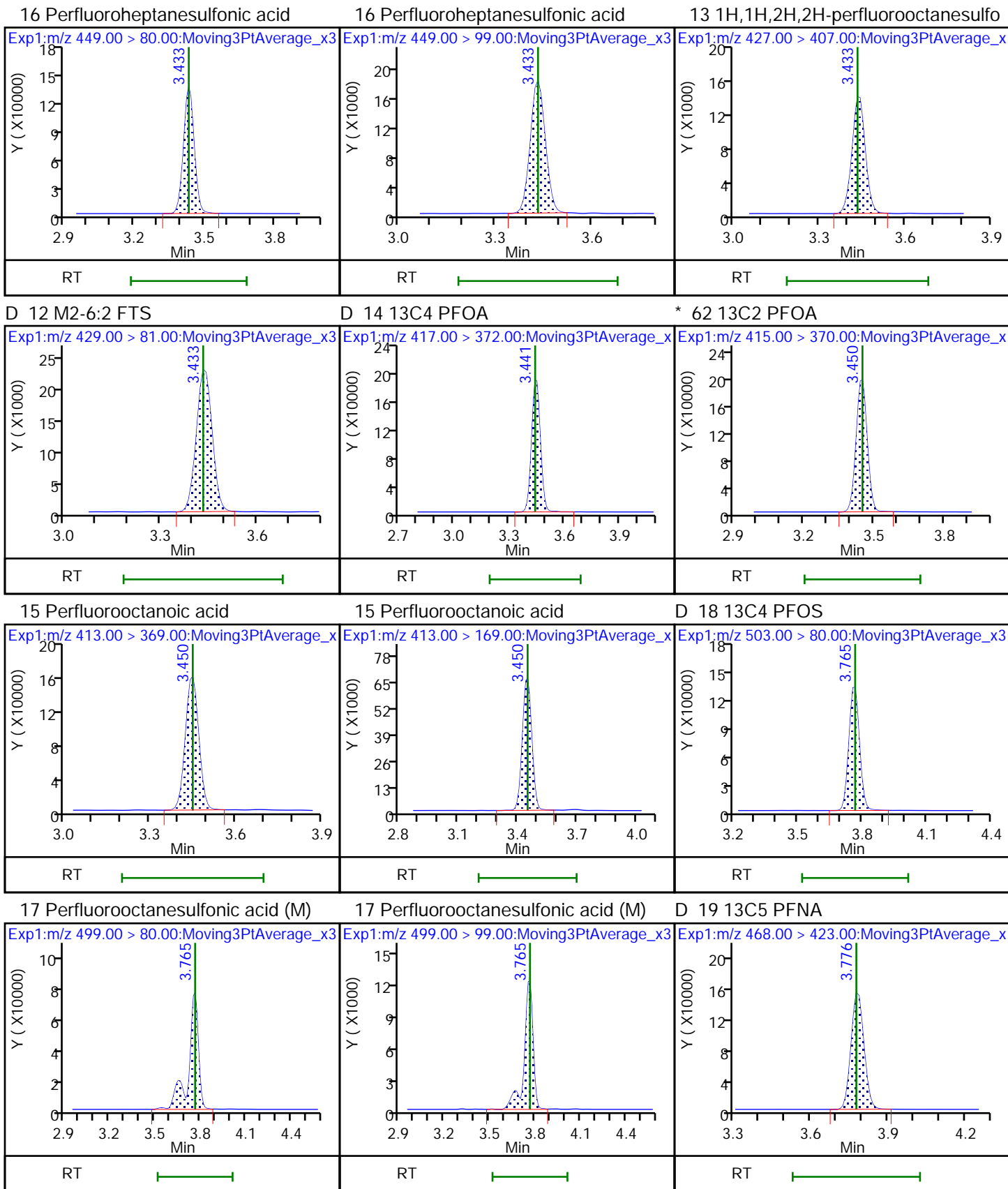
6 Perfluorohexanoic acid (M)

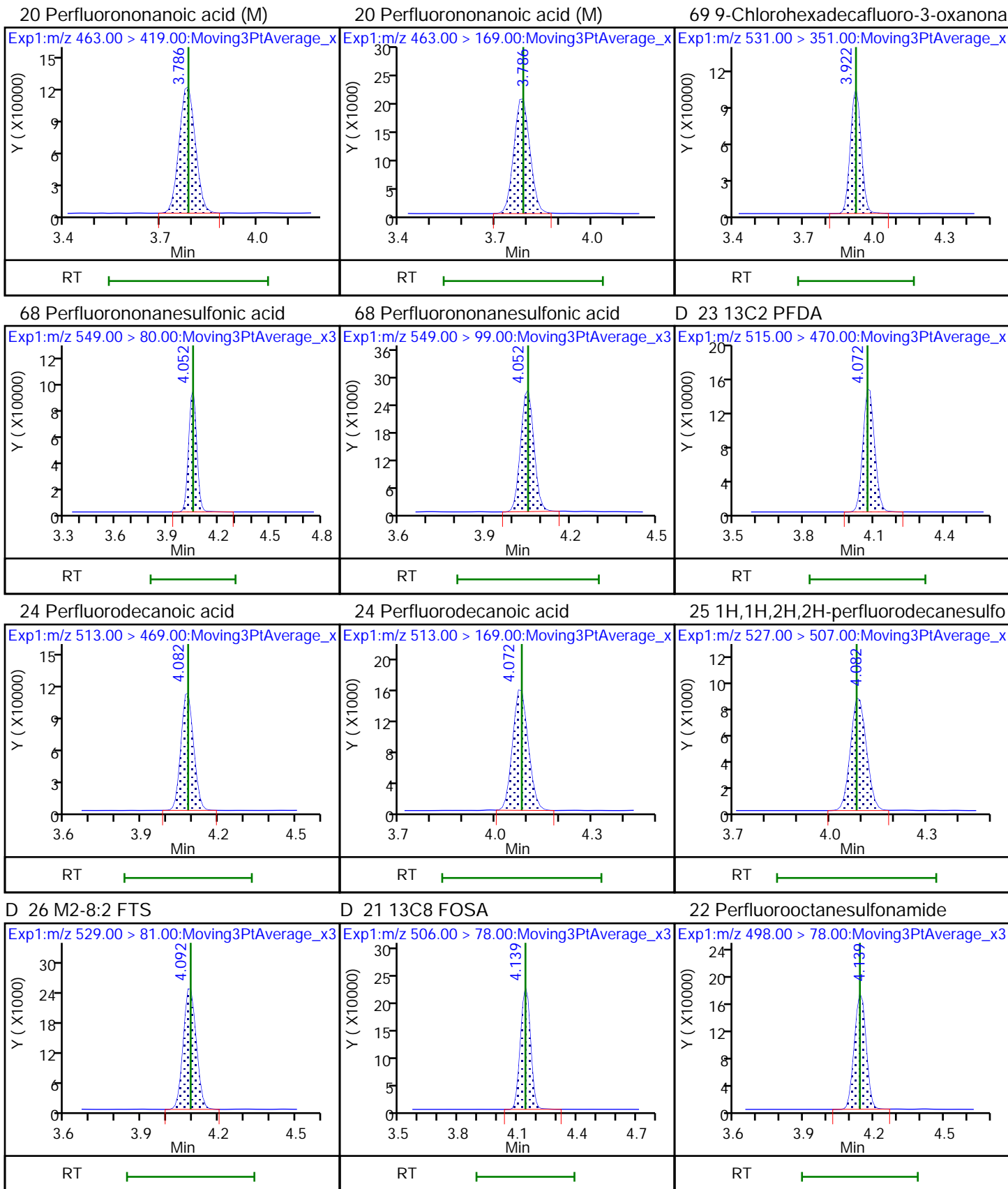
6 Perfluorohexanoic acid (M)





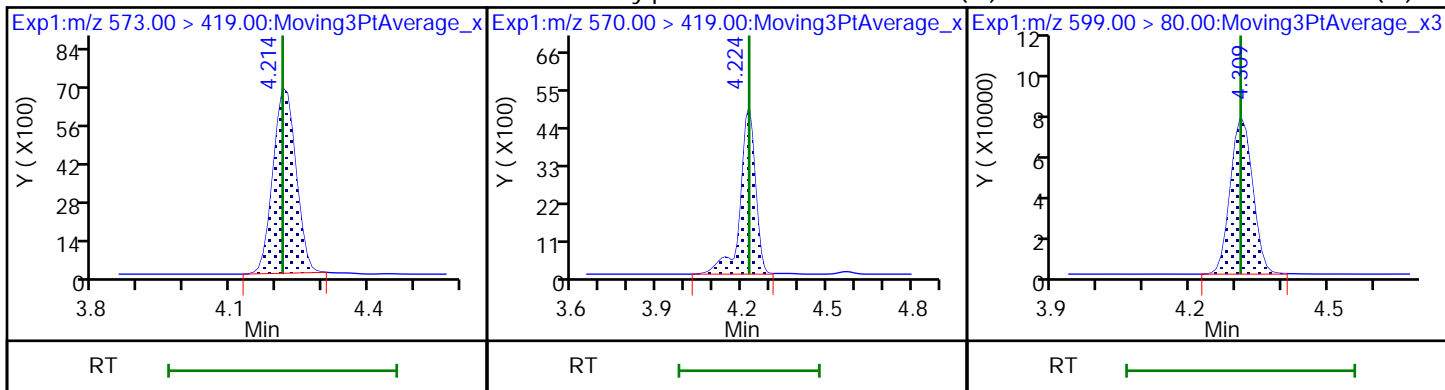






D 27 d3-NMeFOSAA

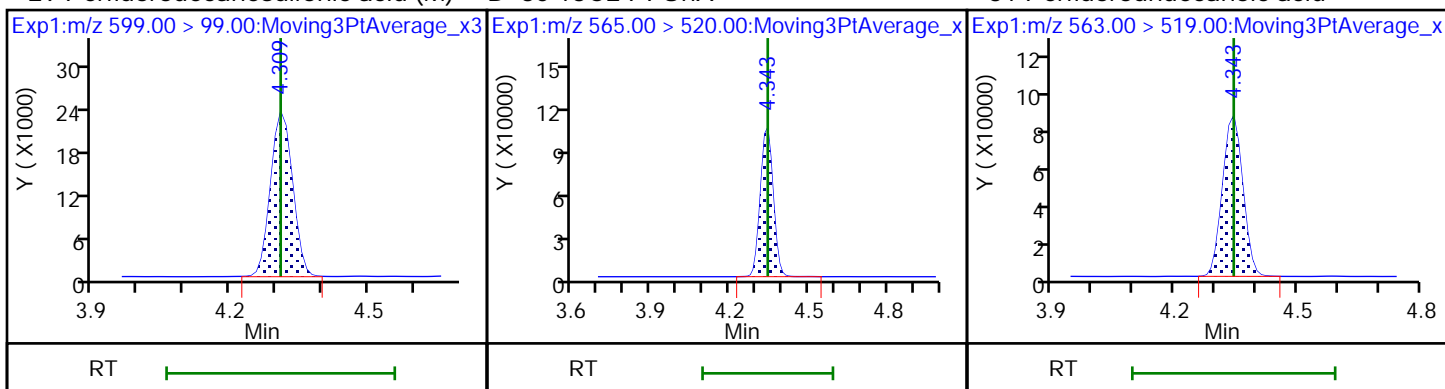
28 N-methylperfluorooctanesulfonami (M)  
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUa

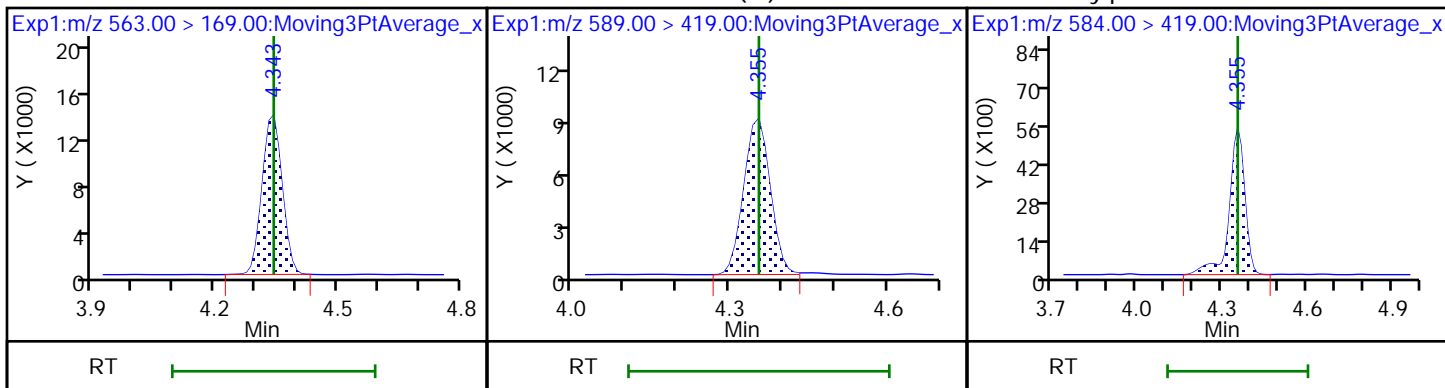
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA (M)

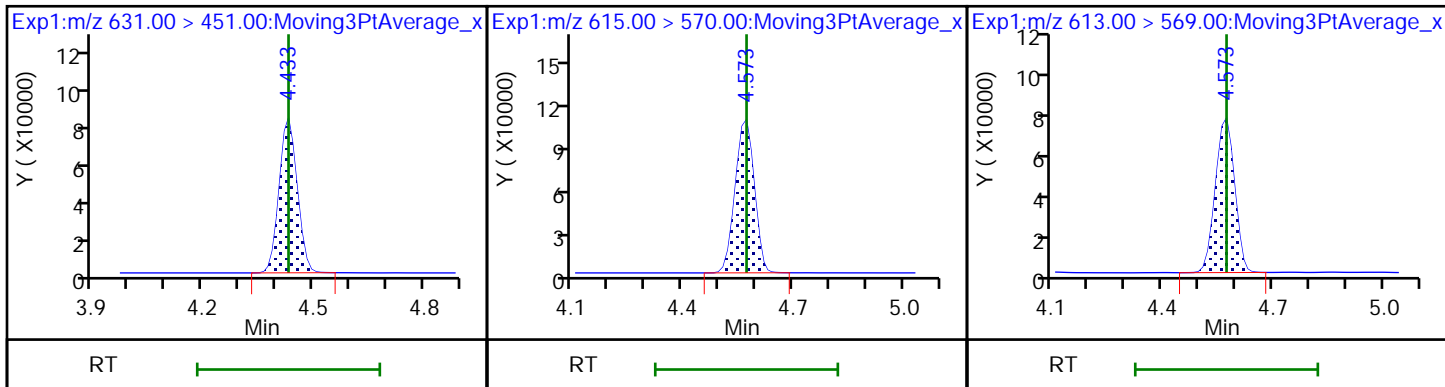
33 N-ethylperfluorooctanesulfonamid

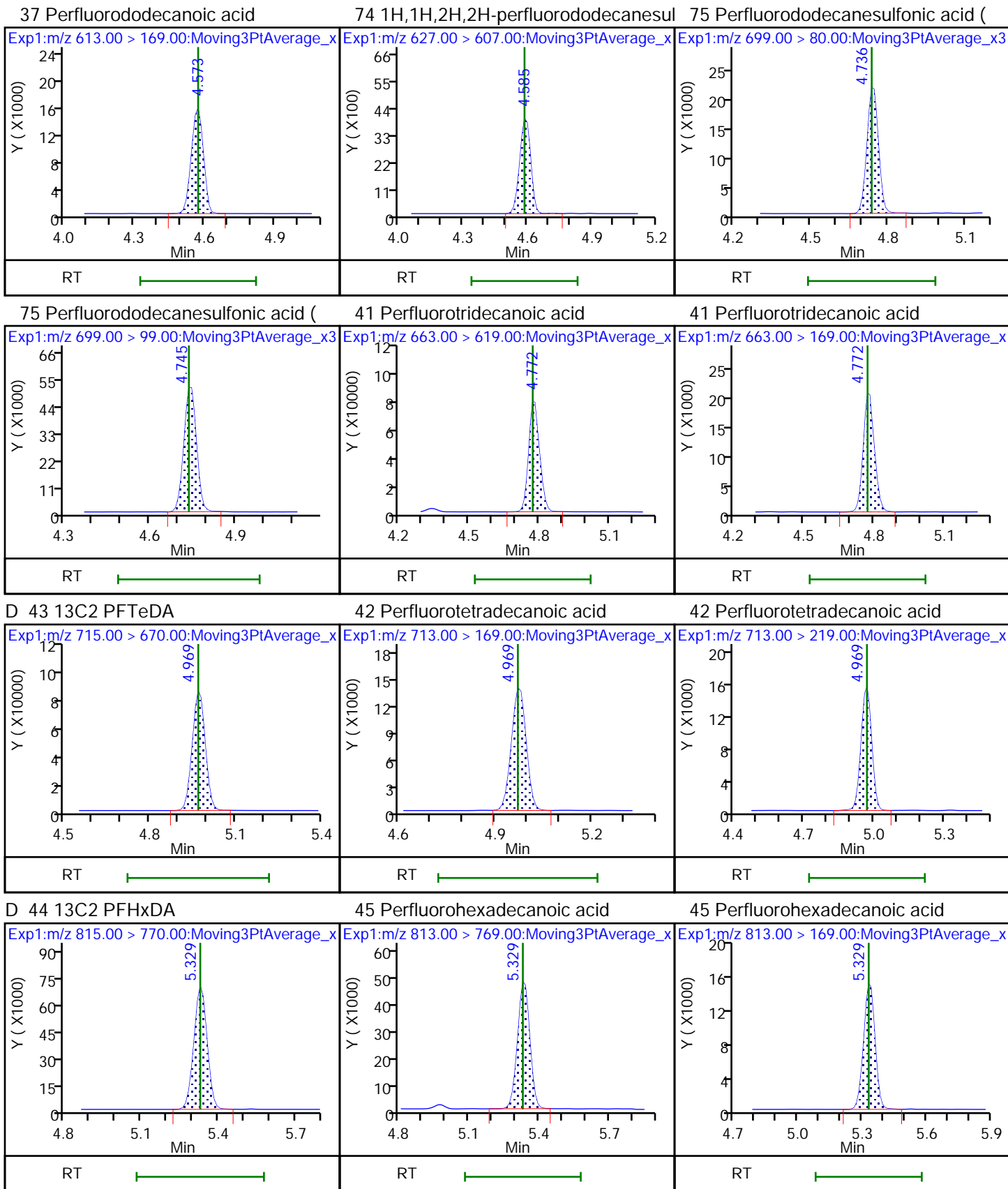


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDa

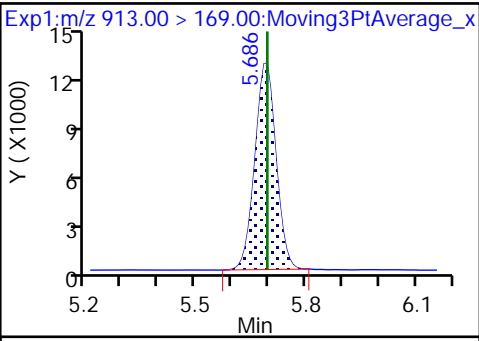
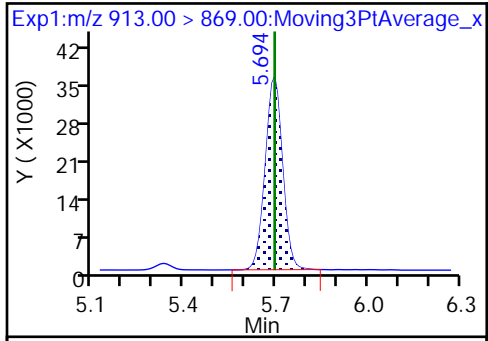
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

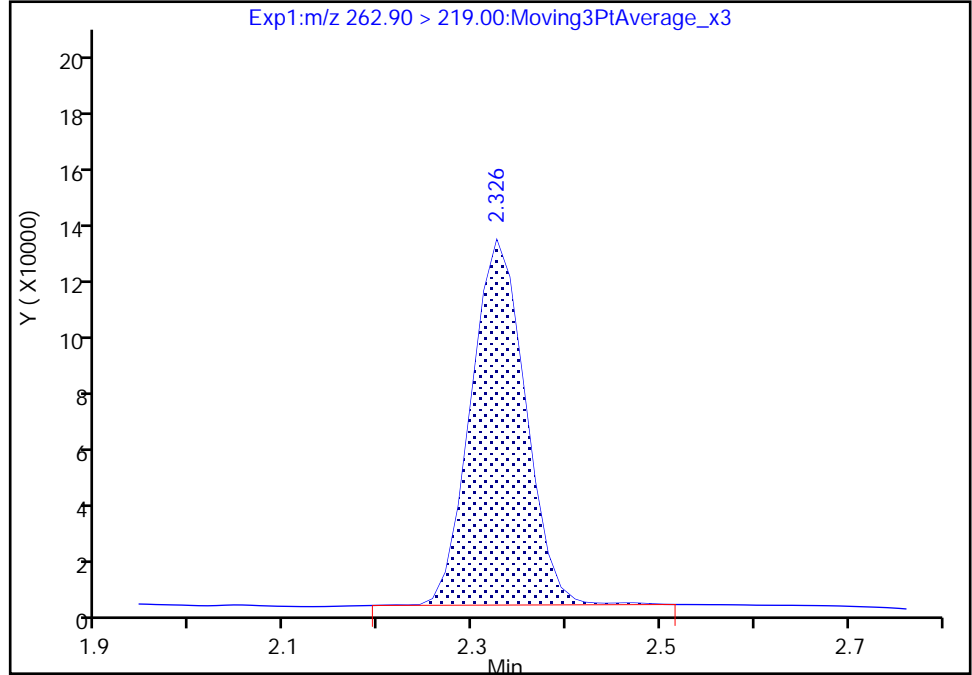
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

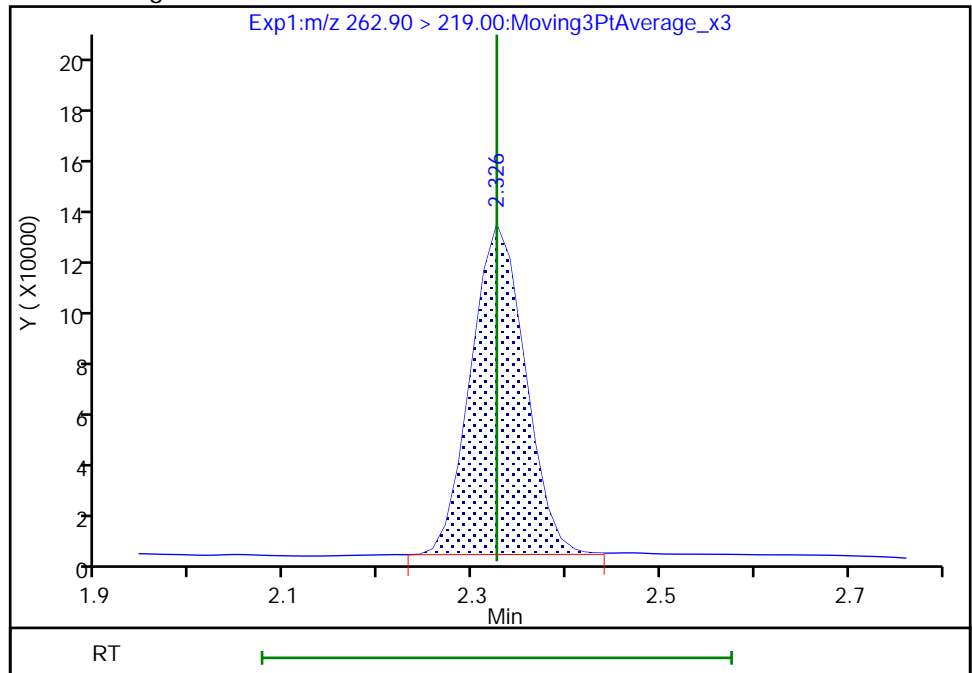
RT: 2.33  
Area: 525405  
Amount: 0.932087  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 523045  
Amount: 0.927901  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:35:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

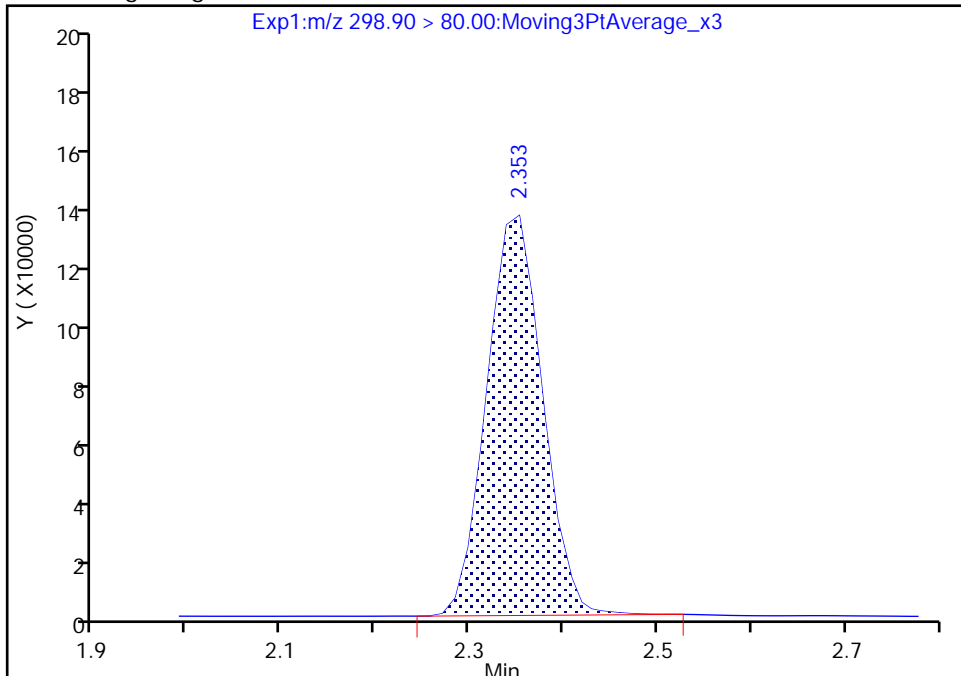
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

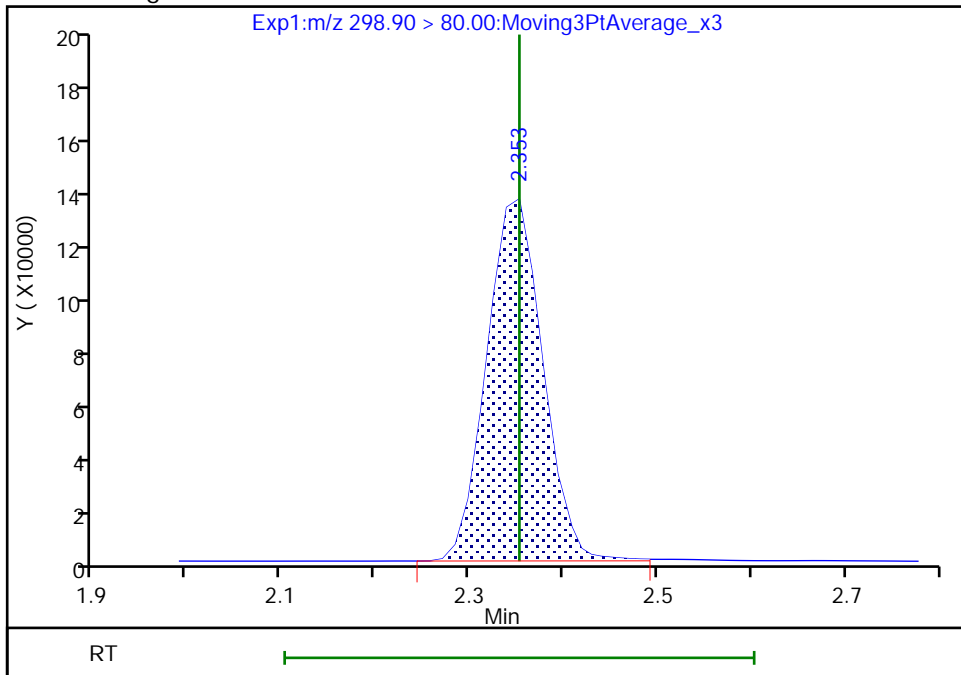
RT: 2.35  
Area: 544295  
Amount: 0.871887  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 547350  
Amount: 0.876781  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:36:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

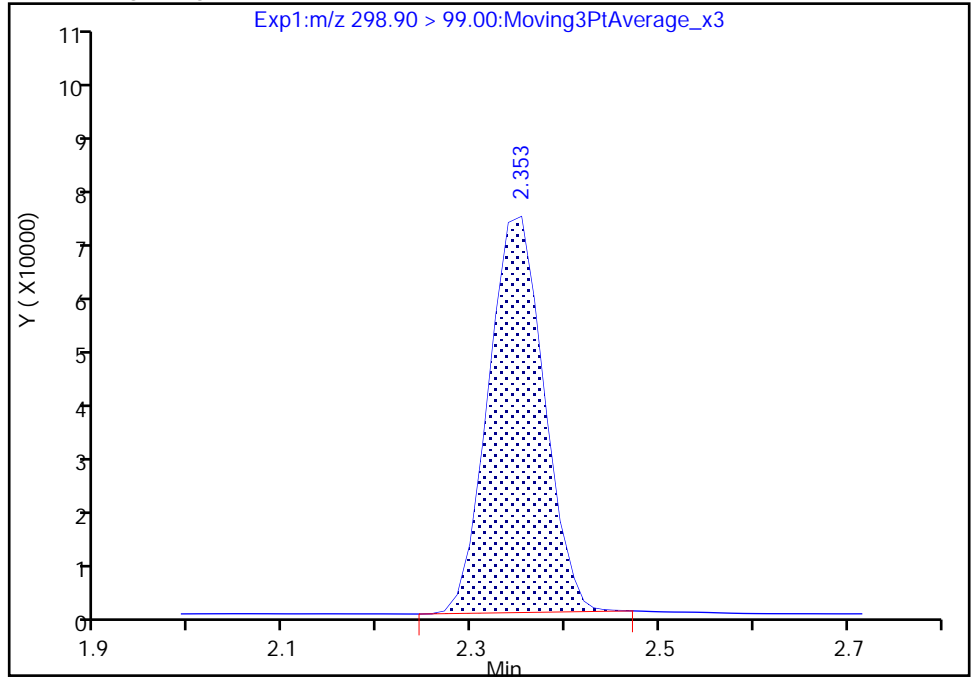
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

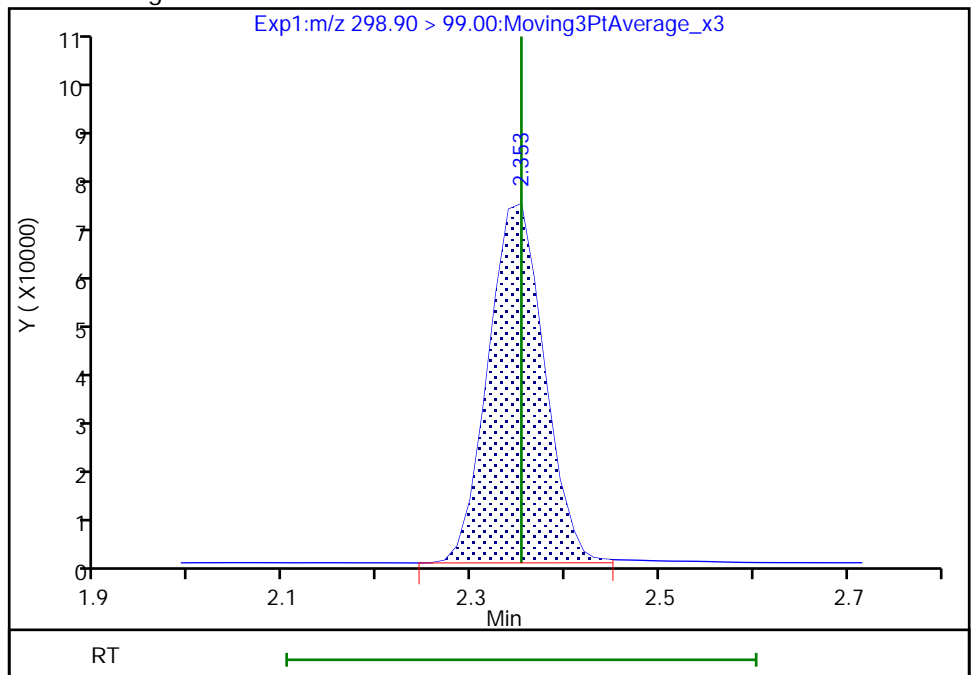
RT: 2.35  
Area: 282517  
Amount: 0.871887  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 285311  
Amount: 0.876781  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:36:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

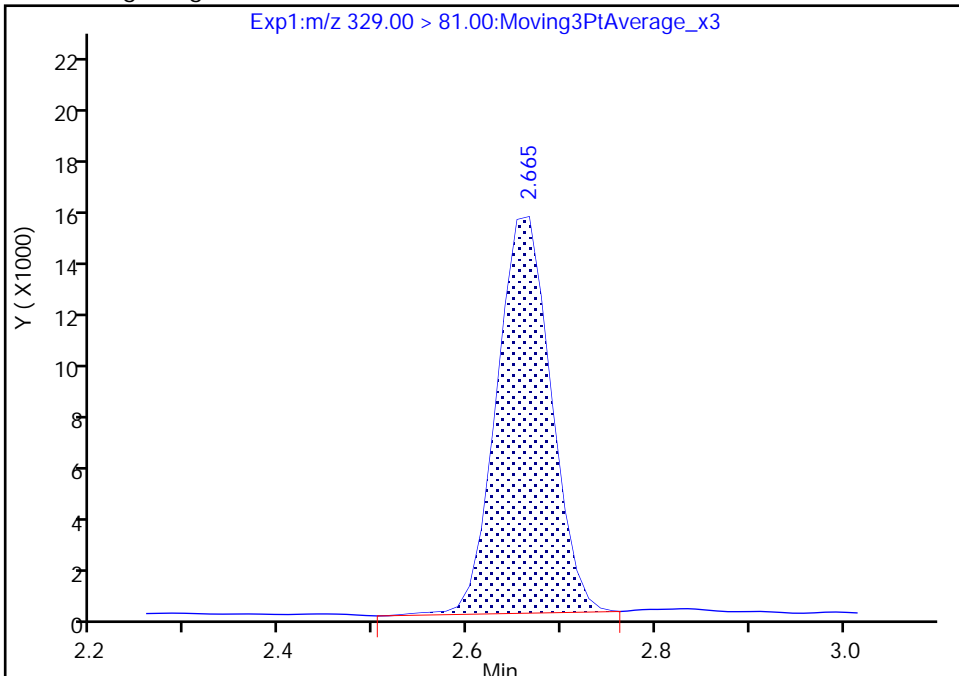
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

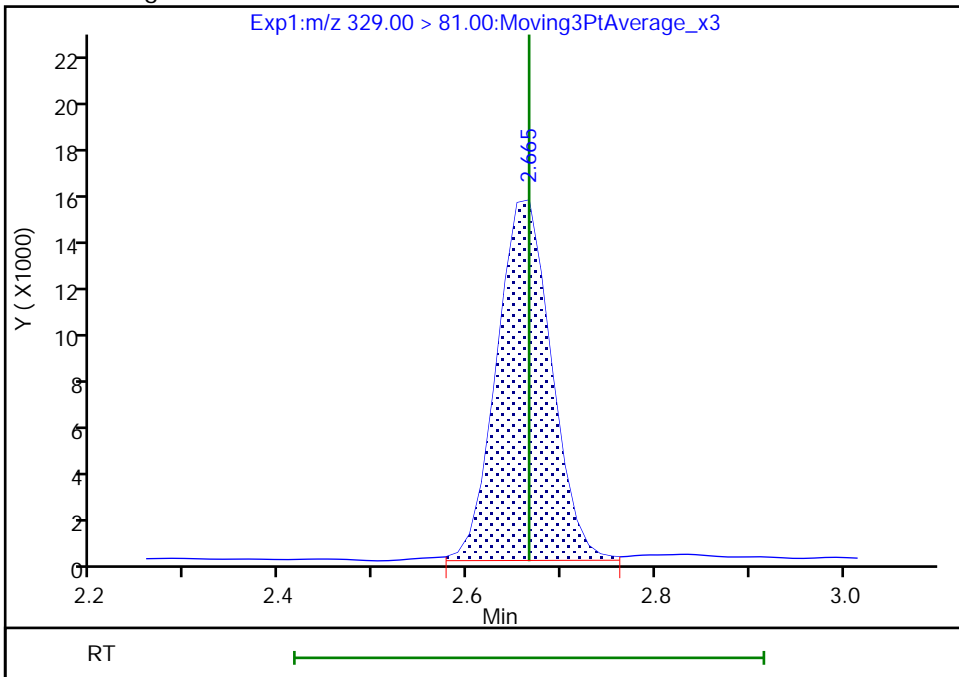
RT: 2.67  
Area: 61642  
Amount: 1.273002  
Amount Units: ng/ml

Processing Integration Results



RT: 2.67  
Area: 62430  
Amount: 1.289276  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

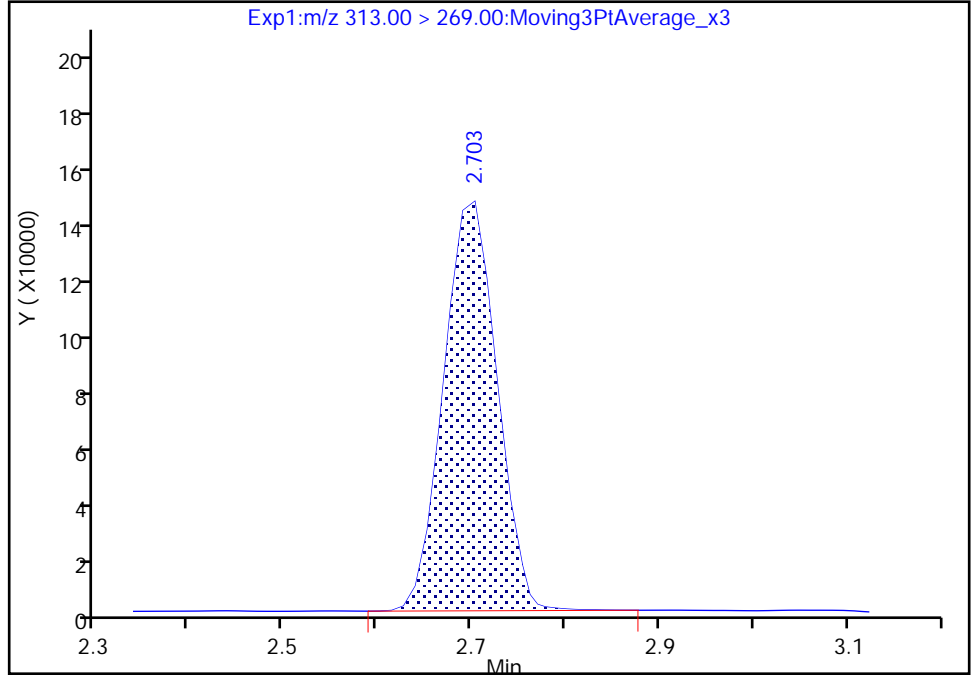
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

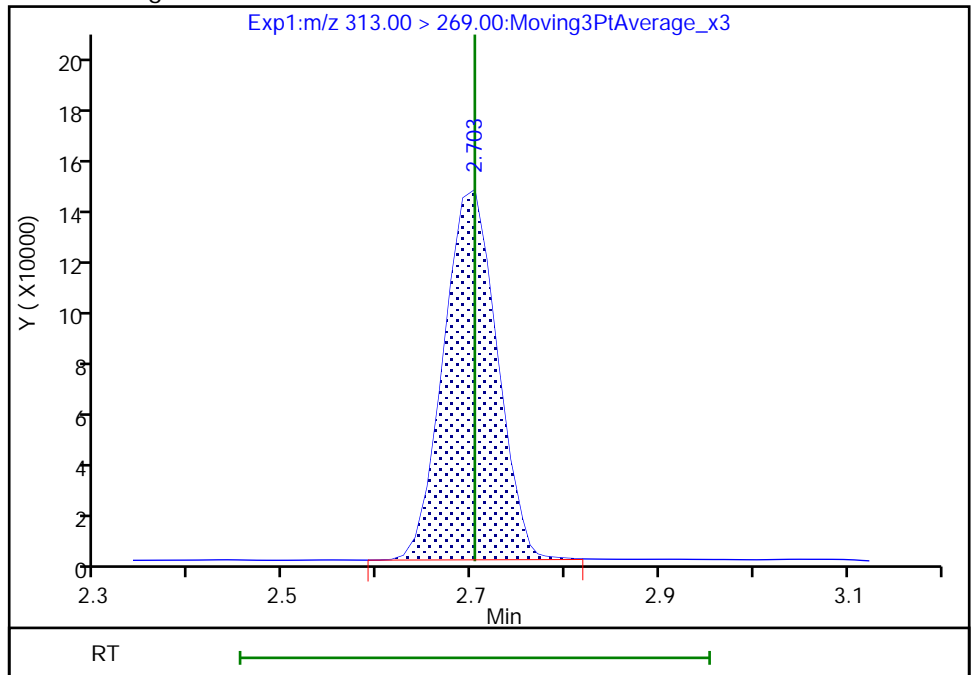
RT: 2.70  
Area: 563265  
Amount: 0.956929  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 562976  
Amount: 0.956438  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:36:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

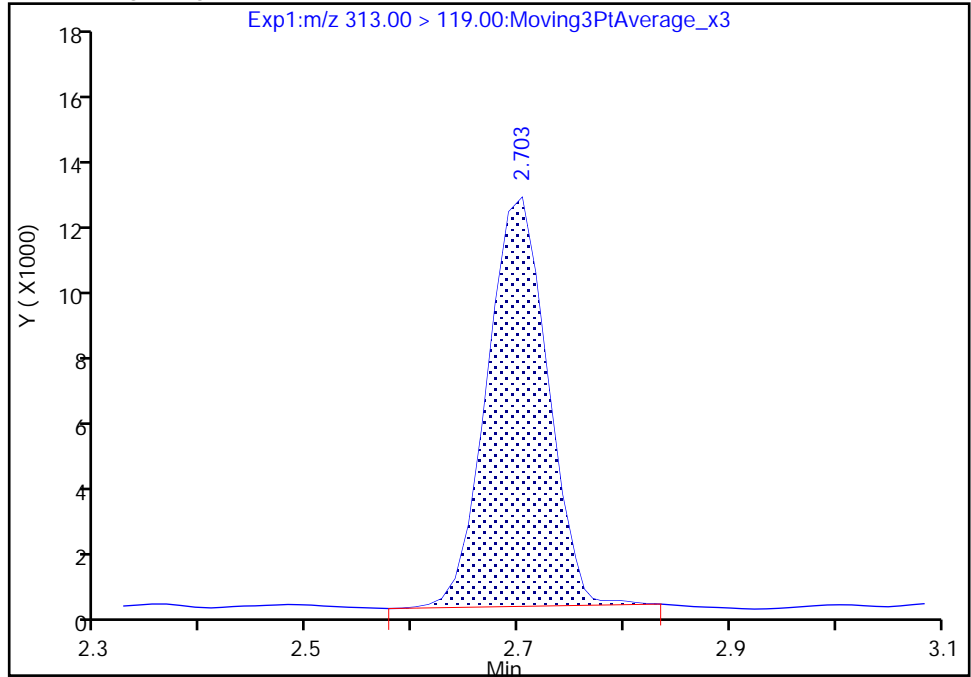
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

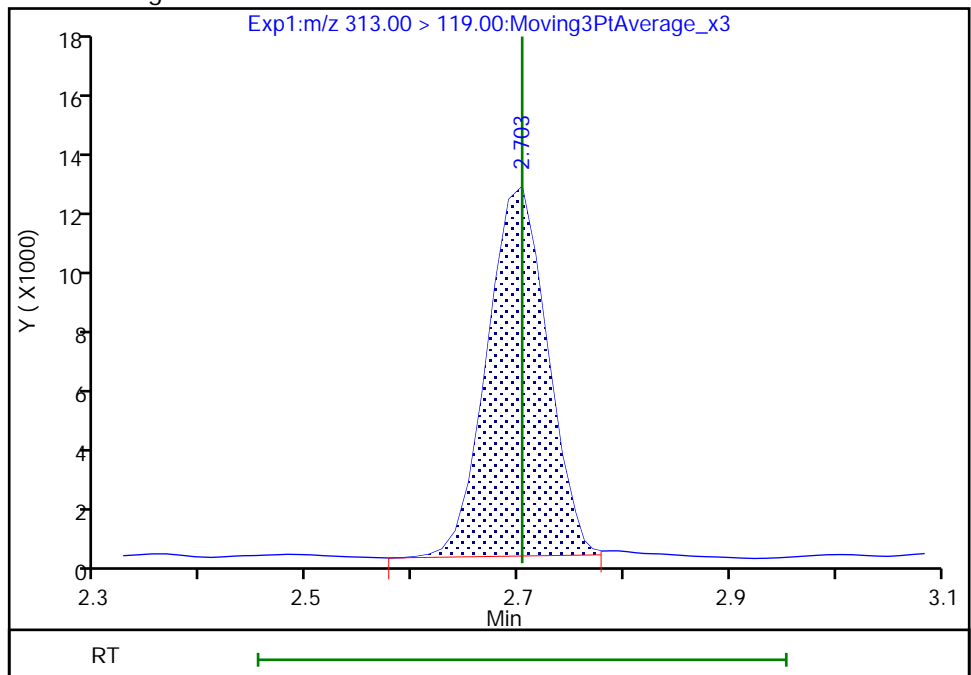
RT: 2.70  
Area: 49062  
Amount: 0.956929  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 48823  
Amount: 0.956438  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:36:36

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

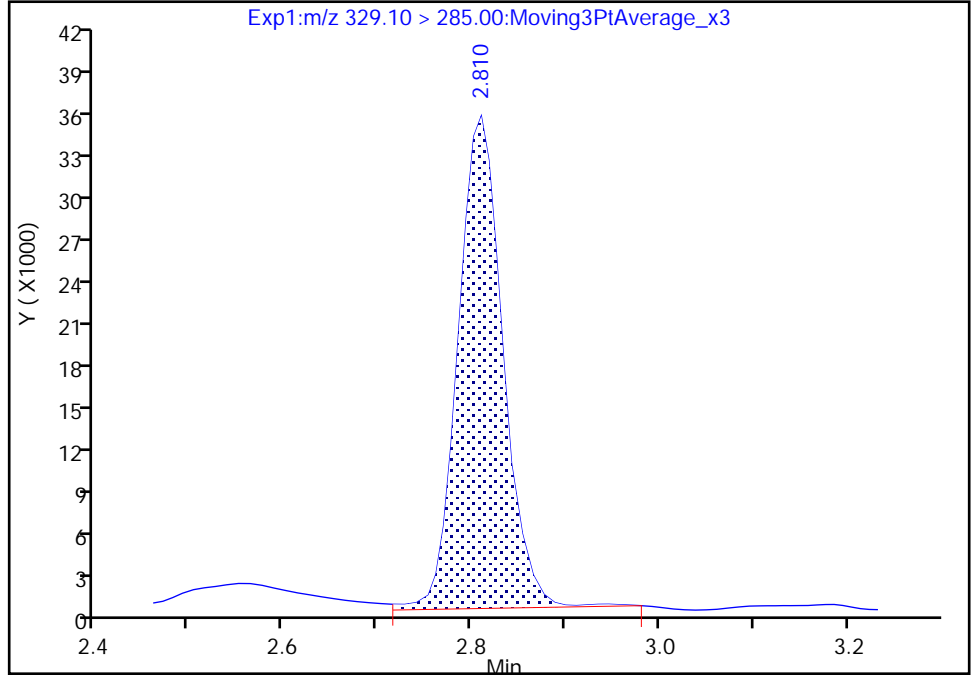
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

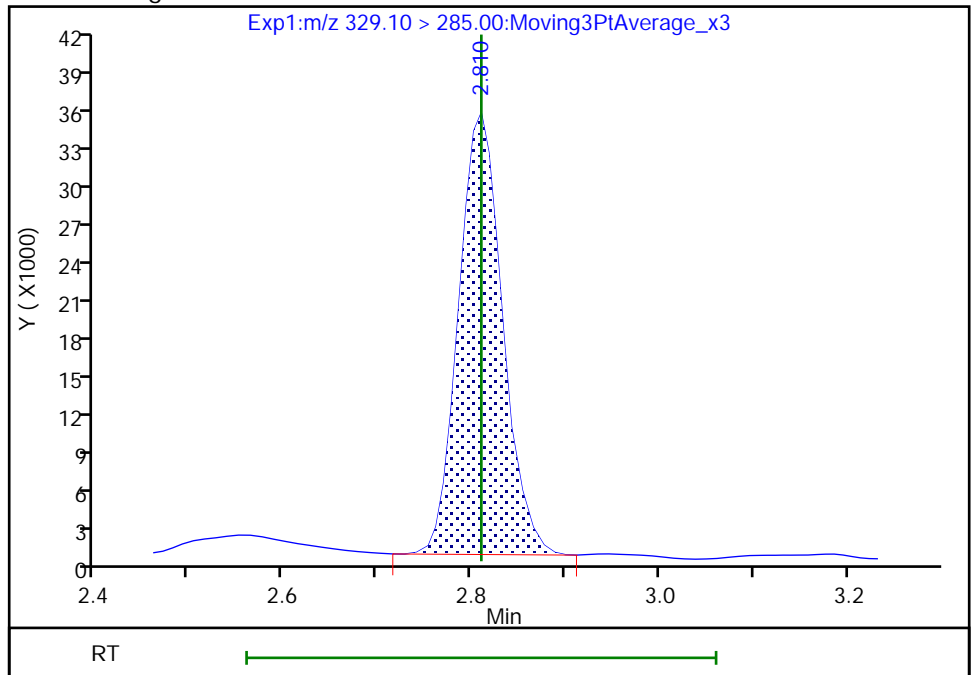
RT: 2.81  
Area: 115011  
Amount: 0.936115  
Amount Units: ng/ml

Processing Integration Results



RT: 2.81  
Area: 111705  
Amount: 0.909206  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

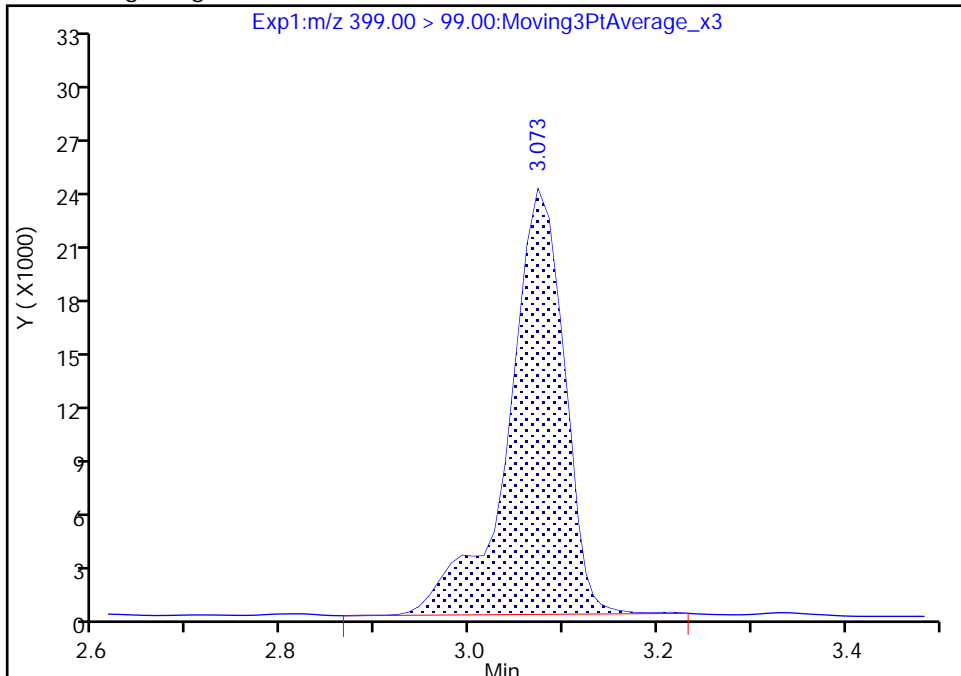
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

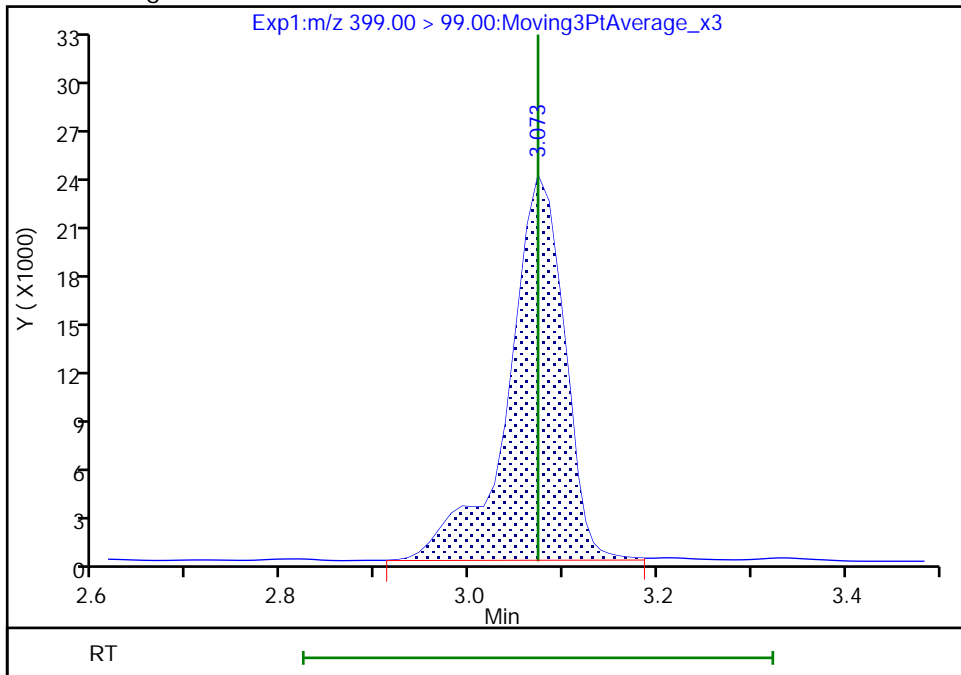
RT: 3.07  
Area: 98954  
Amount: 0.848131  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 99534  
Amount: 0.848131  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:36:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

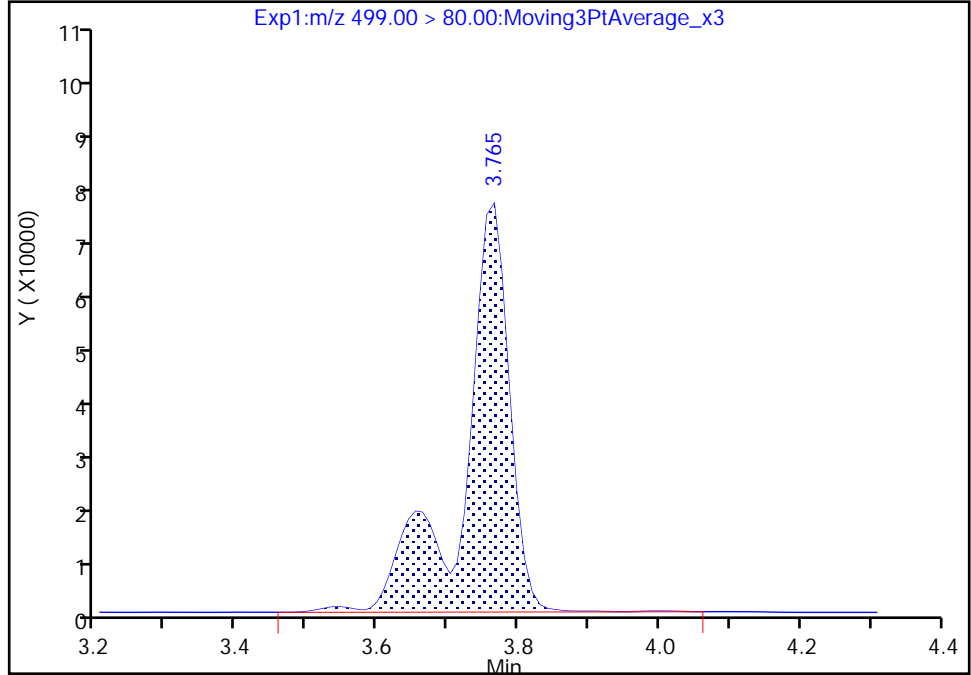
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

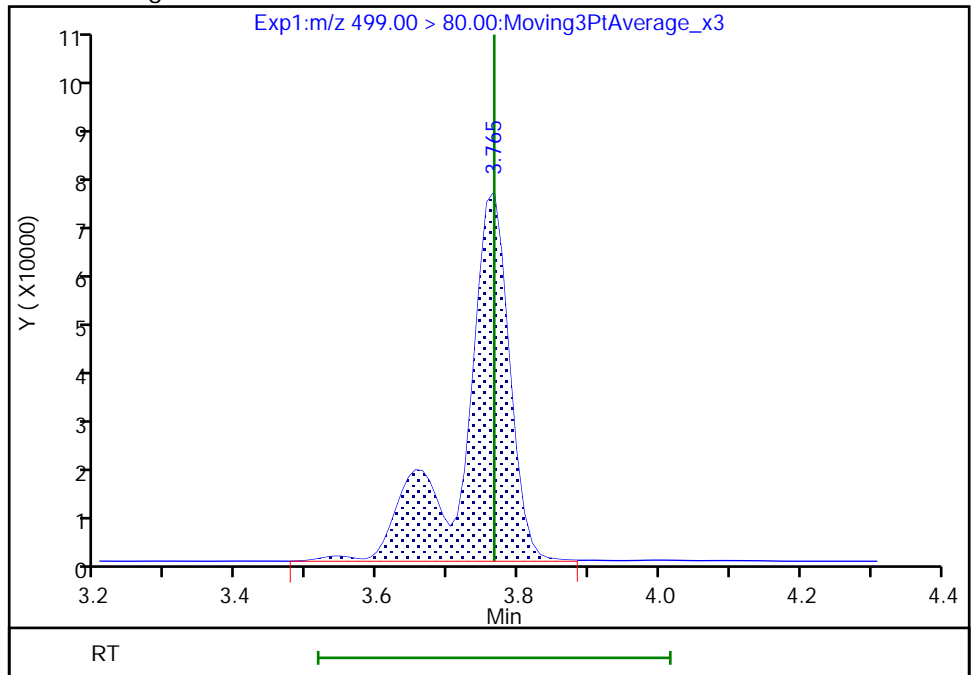
RT: 3.77  
Area: 343604  
Amount: 0.832186  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 343866  
Amount: 0.832820  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:37:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

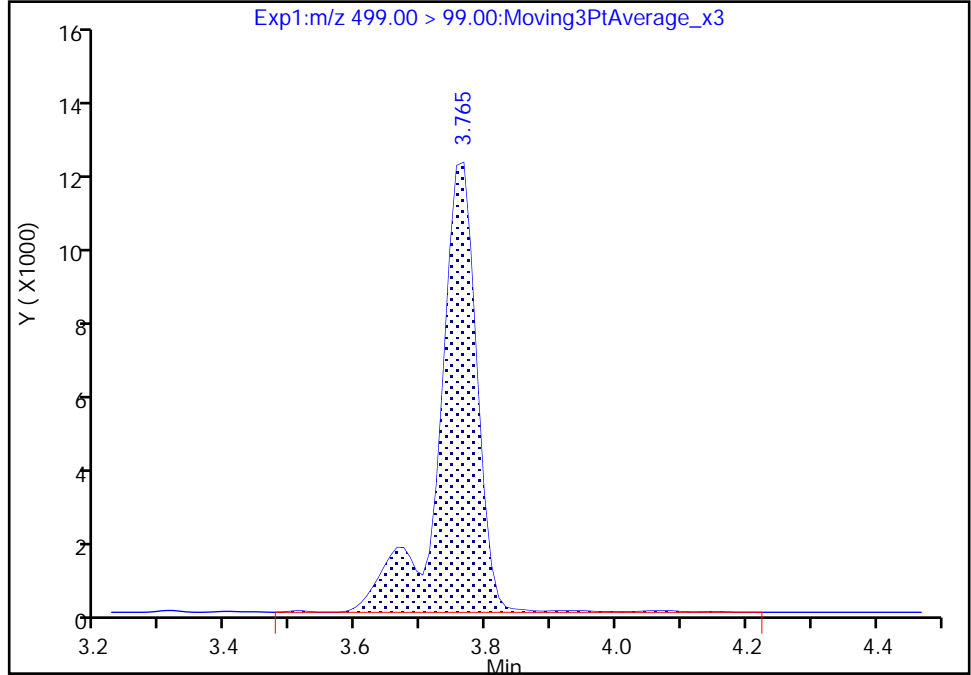
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

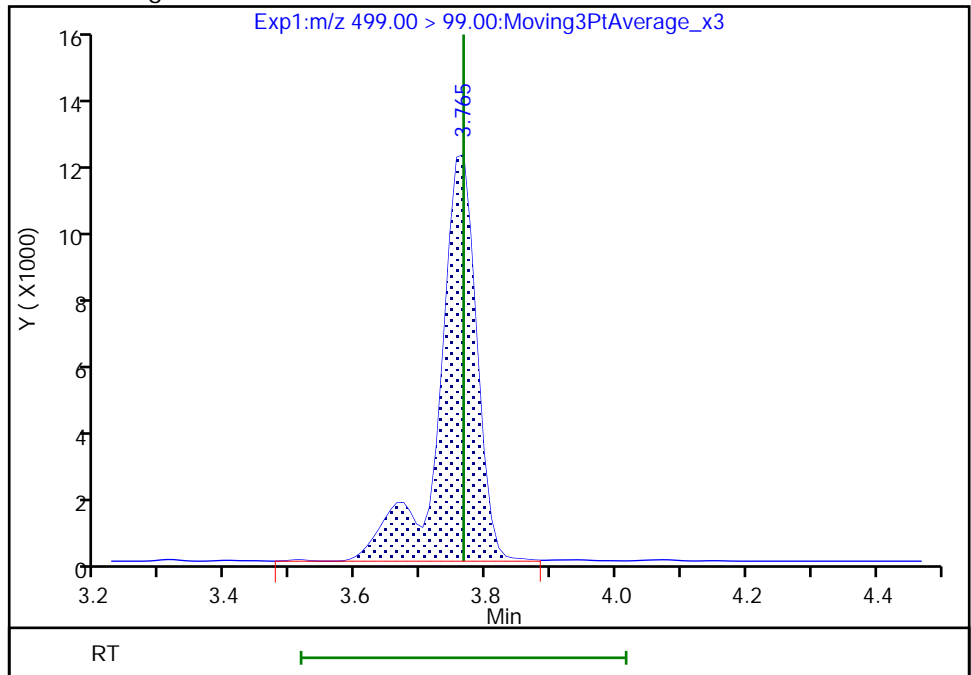
RT: 3.77  
Area: 49499  
Amount: 0.832186  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 49100  
Amount: 0.832820  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:37:42

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

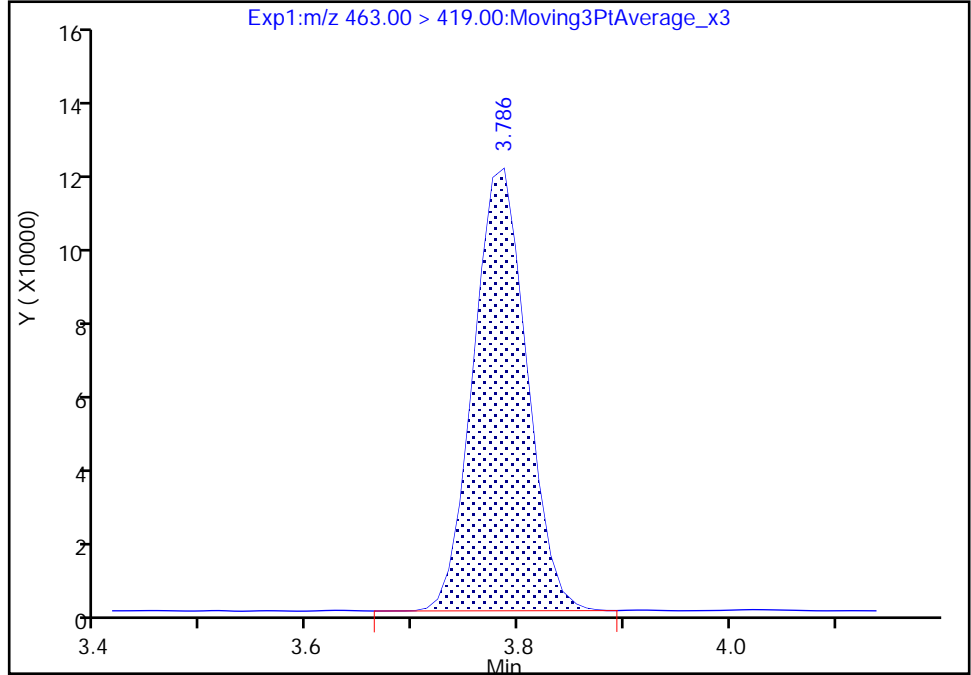
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

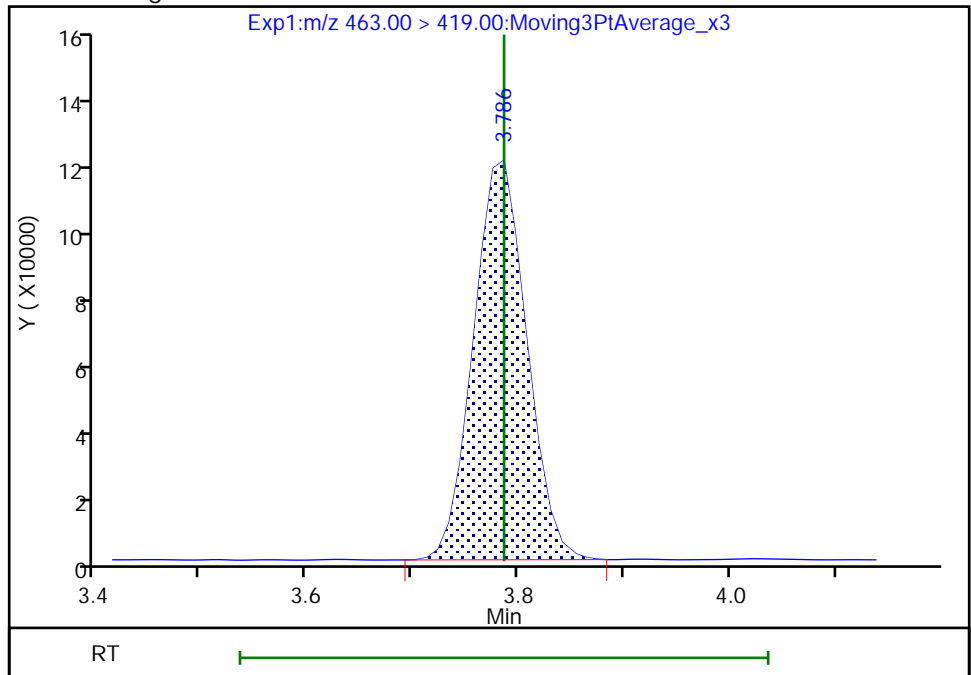
RT: 3.79  
Area: 410689  
Amount: 0.953160  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 410546  
Amount: 0.952828  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:38:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

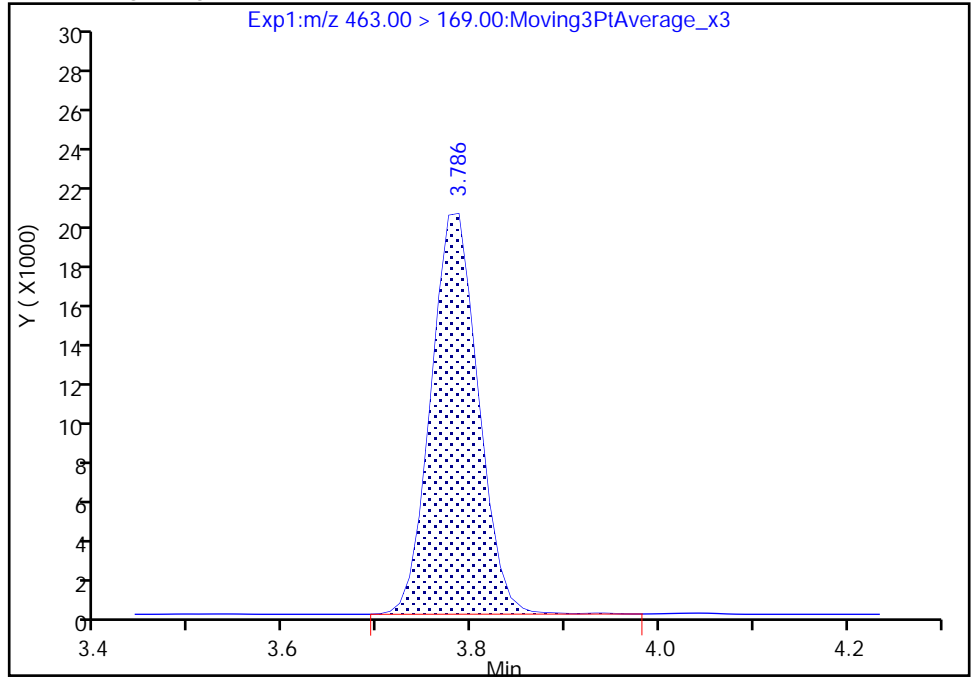
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

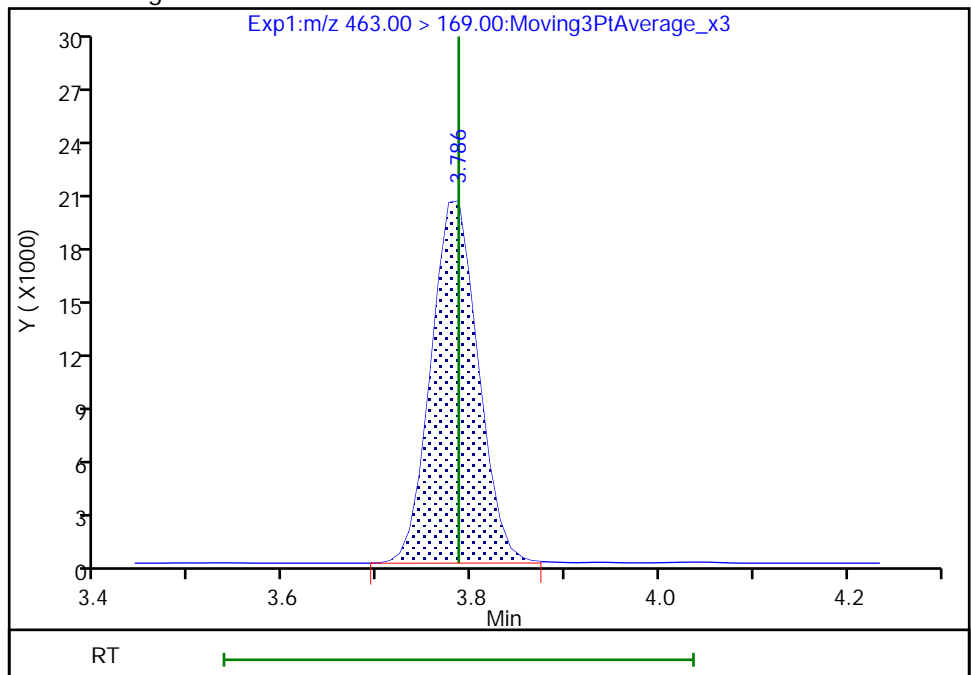
RT: 3.79  
Area: 71253  
Amount: 0.953160  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 71082  
Amount: 0.952828  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:38:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

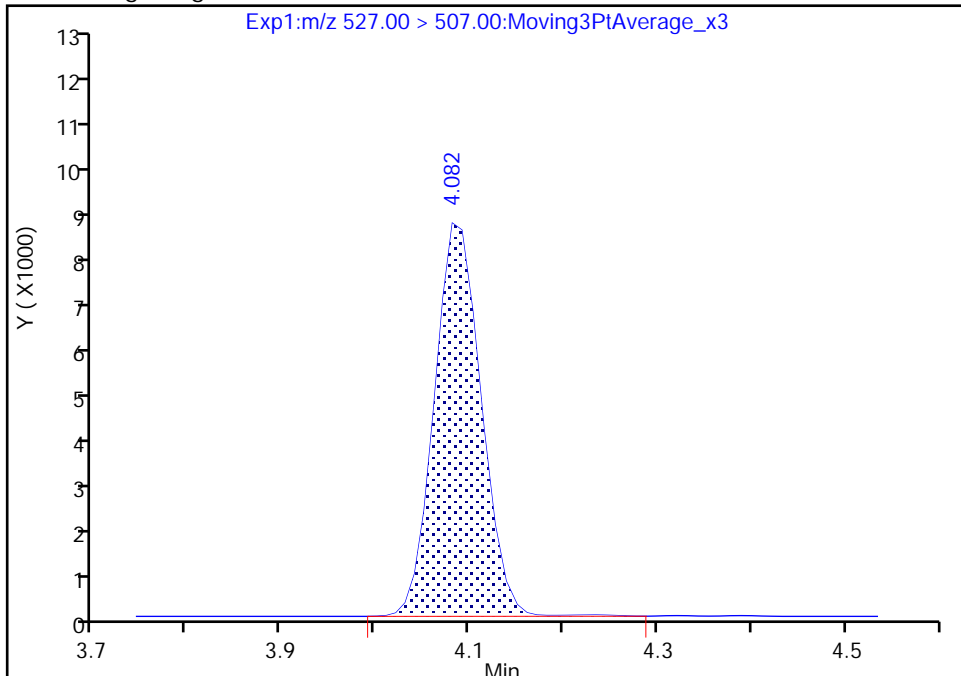
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

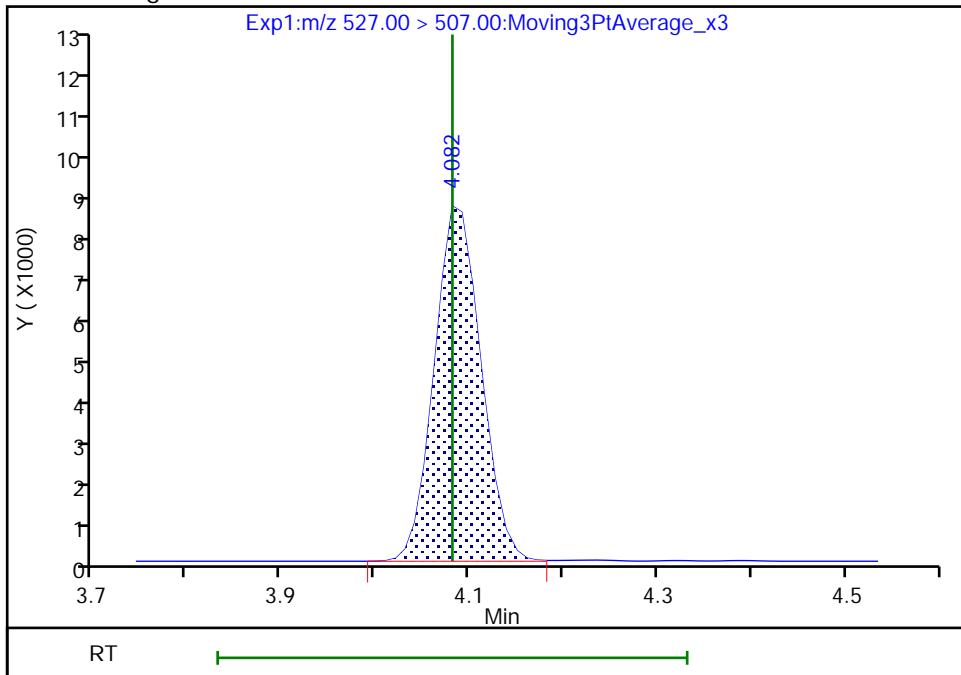
RT: 4.08  
Area: 28140  
Amount: 1.011055  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 28051  
Amount: 1.007857  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:38:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

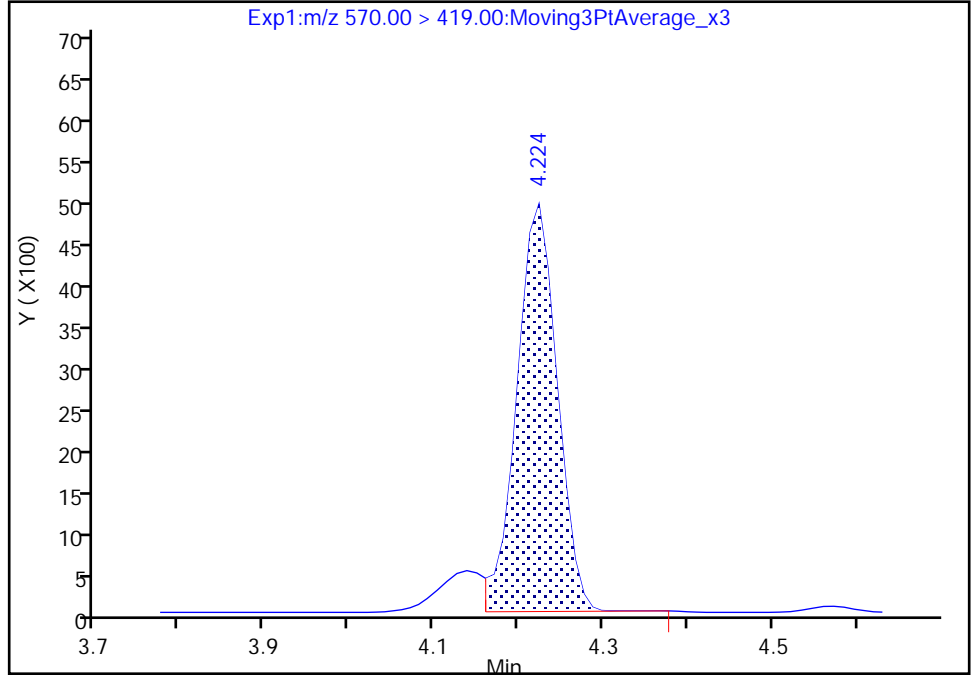
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

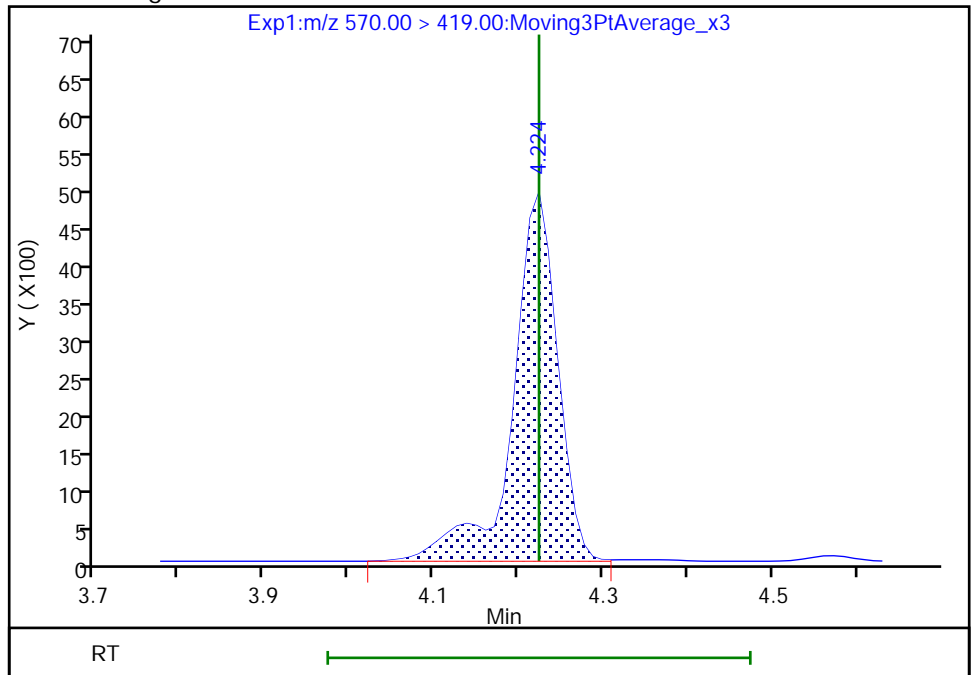
RT: 4.22  
Area: 16371  
Amount: 0.912365  
Amount Units: ng/ml

Processing Integration Results



RT: 4.22  
Area: 18287  
Amount: 1.019145  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:38:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

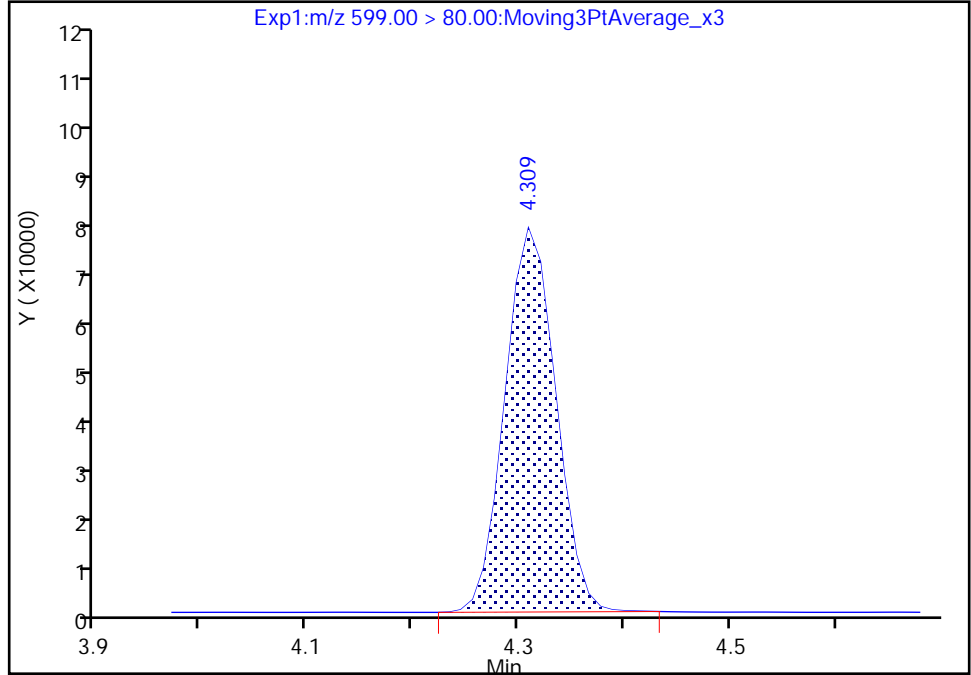
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

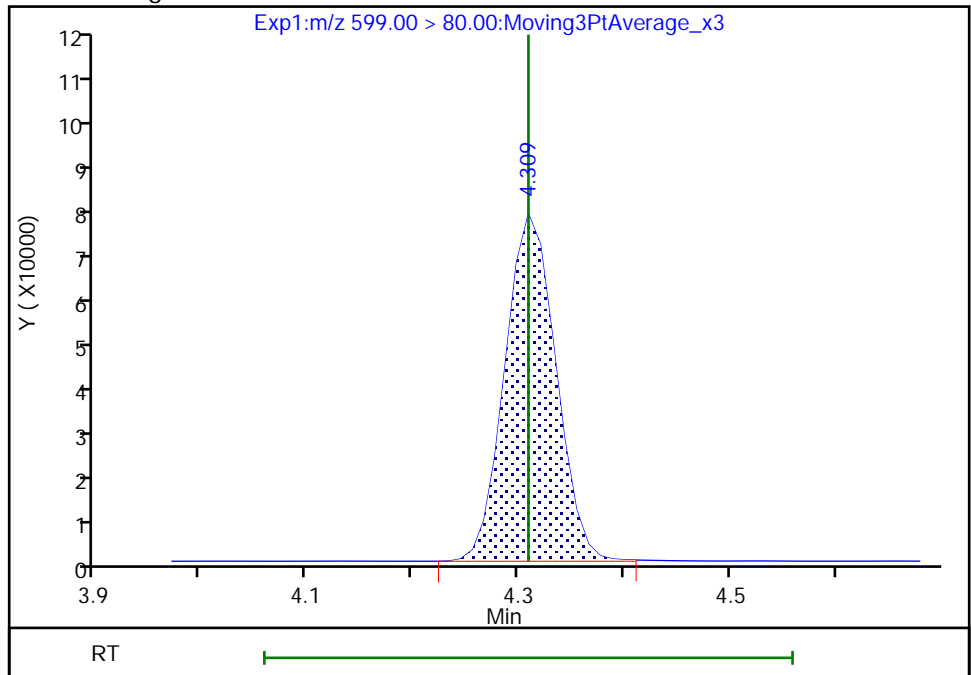
RT: 4.31  
Area: 245276  
Amount: 0.898383  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 246018  
Amount: 0.901100  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:38:54  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

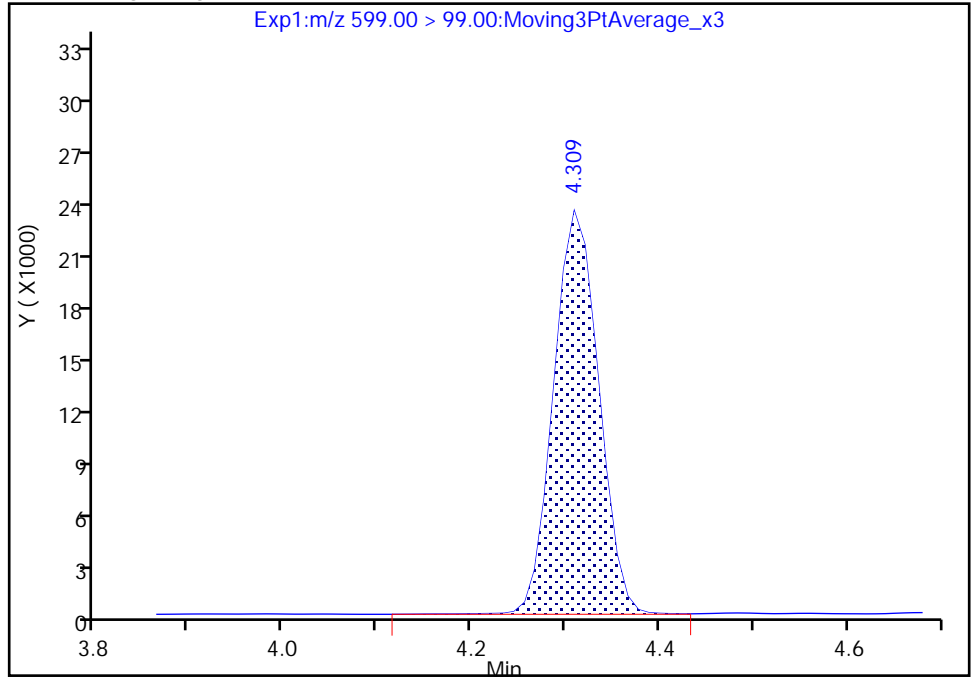
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

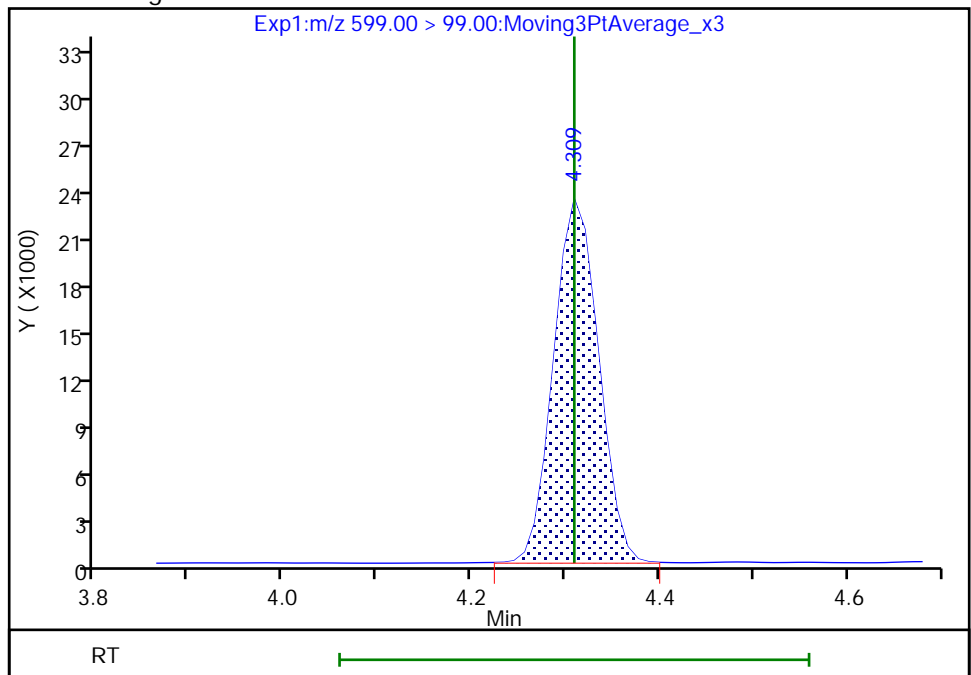
RT: 4.31  
Area: 76231  
Amount: 0.898383  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 76062  
Amount: 0.901100  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 08:38:56

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

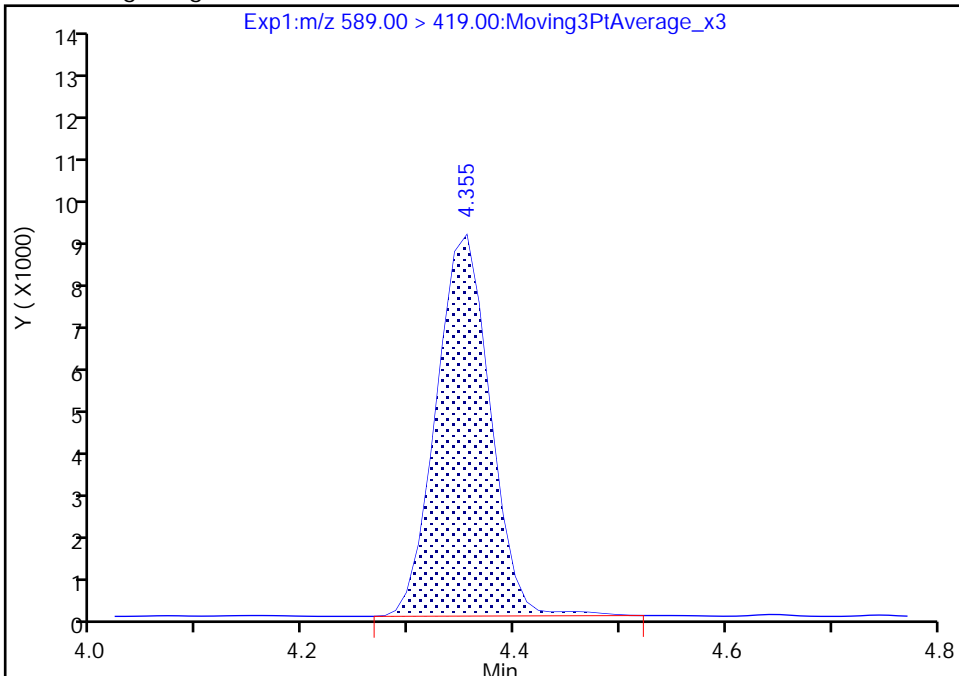
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43031.b\PA200930A06.d  
Injection Date: 30-Sep-2020 14:30:45 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 32 d5-NEtFOSAA, CAS: STL02117

Signal: 1

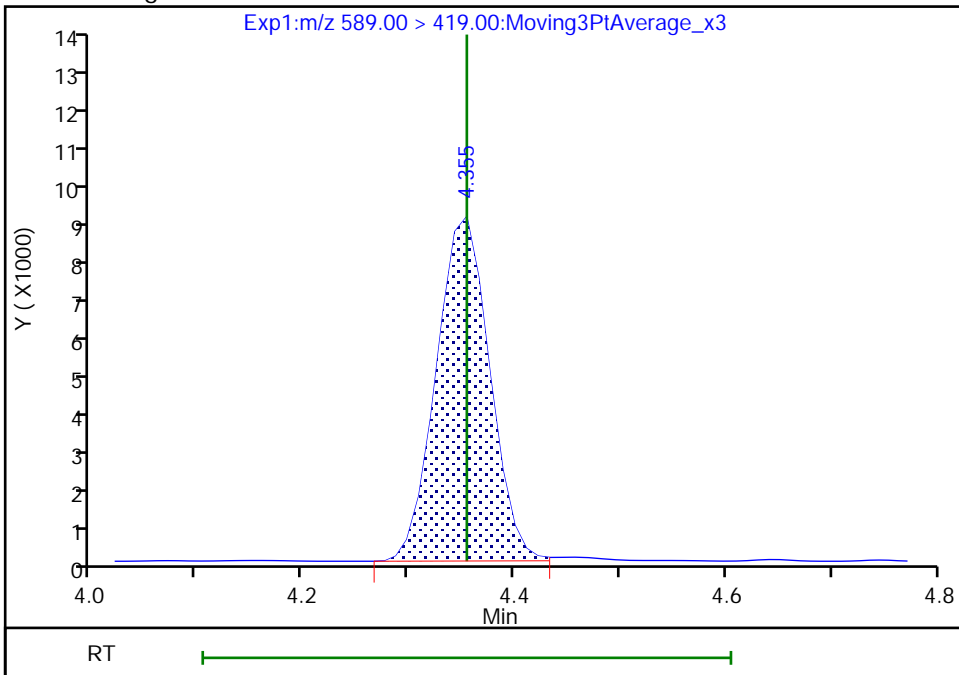
RT: 4.35  
Area: 30559  
Amount: 1.217604  
Amount Units: ng/ml

Processing Integration Results



RT: 4.35  
Area: 30291  
Amount: 1.206926  
Amount Units: ng/ml

Manual Integration Results



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159409/1 Calibration Date: 09/30/2020 18:14  
 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: PA200930B01.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	0.8930		2.39	2.50	-4.5	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	1.006		2.38	2.50	-4.7	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	0.995		2.21	2.21	-0.1	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.578		2.28	2.34	-2.3	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	0.9275		2.30	2.50	-7.9	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.154		2.29	2.35	-2.6	50.0
HFPO-DA	AveID	2.128	2.142		2.52	2.50	0.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.036		2.13	2.28	-6.2	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.9622		2.40	2.50	-4.0	40.0
DONA	AveID	3.081	3.072		2.35	2.36	-0.3	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.197		2.46	2.38	3.3	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7558		2.24	2.37	-5.3	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	0.9683		2.34	2.50	-6.2	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.033		2.20	2.32	-5.0	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	0.9693		2.38	2.50	-4.8	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.9195		2.24	2.33	-3.9	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8238		2.30	2.40	-4.1	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.9046		2.29	2.50	-8.6	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.3772		2.28	2.40	-4.7	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9348	0.9398		2.51	2.50	0.5	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9238		2.45	2.50	-2.1	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6619		2.22	2.41	-7.9	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	0.9085		2.30	2.50	-7.9	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.8475		2.31	2.50	-7.4	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7457		2.13	2.36	-9.6	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.9708		2.49	2.50	-0.5	40.0
10:2 FTS	AveID	0.2199	0.2013		2.21	2.41	-8.5	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.2087		2.19	2.42	-9.5	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.7886		2.38	2.50	-4.8	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2223		2.43	2.50	-3.0	40.0



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159409/1 Calibration Date: 09/30/2020 18:14  
 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: PA200930B01.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		0.8576		2.44	2.50	-2.2	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.6318		2.11	2.50	-15.5	50.0
13C4 PFBA	Ave	1.433	1.465		1.28	1.25	2.2	50.0
13C5 PFPeA	Ave	1.027	1.002		1.22	1.25	-2.4	50.0
13C3 PFBS	Ave	1.251	1.253		1.16	1.16	0.2	50.0
M2-4:2 FTS	Ave	0.0939	0.0931		1.16	1.17	-0.9	50.0
13C2 PFHxA	Ave	1.058	1.093		1.29	1.25	3.4	50.0
13C3 HFPO-DA	Ave	0.0985	0.0953		1.21	1.25	-3.3	50.0
18O2 PFHxS	Ave	0.8974	0.9049		1.19	1.18	0.8	50.0
13C4 PFHpA	Ave	0.9620	0.9824		1.28	1.25	2.1	50.0
M2-6:2 FTS	Ave	0.1199	0.1212		1.20	1.19	1.0	50.0
13C4 PFOA	Ave	0.9845	0.9368		1.19	1.25	-4.8	50.0
13C4 PFOS	Ave	0.7341	0.7292		1.19	1.20	-0.7	50.0
13C5 PFNA	Ave	0.8296	0.8089		1.22	1.25	-2.5	50.0
13C2 PFDA	Ave	0.7956	0.7584		1.19	1.25	-4.7	50.0
M2-8:2 FTS	Ave	0.1413	0.1410		1.20	1.20	-0.2	50.0
13C8 FOSA	Ave	1.282	1.230		1.20	1.25	-4.0	50.0
d3-NMeFOSAA	Ave	0.0453	0.0383		1.06	1.25	-15.5	50.0
13C2 PFUnA	Ave	0.6006	0.5577		1.16	1.25	-7.1	50.0
d5-NEtFOSAA	Ave	0.0487	0.0444		1.14	1.25	-8.9	50.0
13C2 PFDoA	Ave	0.6348	0.5375		1.06	1.25	-15.3	50.0
13C2 PFTeDA	Ave	0.4522	0.3883		1.07	1.25	-14.1	50.0
13C2 PFHxDA	Ave	0.5124	0.3863		0.942	1.25	-24.6	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
 Lims ID: CCV L5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 30-Sep-2020 18:14:23 ALS Bottle#: 1 Worklist Smp#: 1  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L5  
 Misc. Info.: 200-0043035-001 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:23 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 11:29:19

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	1.990	1.990	0.0	0.577	984368	1.28	102	14429	
2 Perfluorobutanoic acid	212.90 > 169.00	1.990	1.990	0.0	1.000	1758051	2.39	95.5	545	
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	673484	1.22	97.6	2783	
4 Perfluoropentanoic acid	262.90 > 219.00	2.326	2.326	0.0	1.000	1355503	2.38	95.3	96.2	
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	783150	1.16	100	307699	
5 Perfluorobutanesulfonic acid	298.90 > 80.00	2.339	2.353	-0.014	1.000	1481760	2.21	Target=2.07	99.9	4654
	298.90 > 99.00	2.339	2.353	-0.014	1.000	752410		1.97(1.04-3.11)		1204
D 60 M2-4:2 FTS	329.00 > 81.00	2.653	2.665	-0.012	0.769	58402	1.16	99.1	150	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.665	2.665	0.0	1.005	184334	2.28	97.7	1398	
D 7 13C2 PFHxA	315.00 > 270.00	2.691	2.703	-0.012	0.780	734540	1.29	103	3869	
6 Perfluorohexanoic acid	313.00 > 269.00	2.703	2.703	0.0	1.005	1362580	2.30	Target=12.44	92.1	688
	313.00 > 119.00	2.703	2.703	0.0	1.005	117372		11.61(6.22-18.66)		153
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.703	2.703	0.0	0.880	1316099	2.29	Target=3.64	97.4	6509
	349.00 > 99.00	2.703	2.703	0.0	0.880	391180		3.36(1.82-5.46)		1862
D 64 13C3 HFPO-DA	332.10 > 287.00	2.810	2.810	0.0	0.815	64053	1.21	96.7	1057	

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	274400	2.52		101	84.5	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	575198	1.19		101	1433	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	1146467	2.13	Target=4.60	93.8	1021	M
399.00 > 99.00	3.073	3.073	0.0	1.000	244096		4.70(2.30-6.91)		415	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.084	0.0	0.894	660123	1.28		102	2309	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.000	1270346	2.40	Target=3.34	96.0	805	
363.00 > 169.00	3.084	3.084	0.0	1.000	378113		3.36(1.67-5.01)		602	
77 DONA										
377.00 > 251.00	3.115	3.115	0.0	0.827	2835989	2.35	Target=2.44	99.7	8000	
377.00 > 85.00	3.115	3.115	0.0	0.827	1196321		2.37(1.22-3.67)		2645	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.433	3.433	0.0	0.912	1116730	2.46	Target=7.08	103	3929	
449.00 > 99.00	3.433	3.433	0.0	0.912	157053		7.11(3.54-10.63)		1050	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.441	3.433	0.009	1.000	116667	2.24		94.7	2837	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.997	77344	1.20		101	841	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	629494	1.19		95.2	2888	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		671933	1.25			3224	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	1219061	2.34	Target=2.29	93.8	693	M
413.00 > 169.00	3.450	3.450	0.0	1.000	570241		2.14(1.14-3.43)		1083	M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	468446	1.19		99.3	1668	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	939028	2.20	Target=7.10	95.0	966	M
499.00 > 99.00	3.765	3.765	0.0	1.000	131284		7.15(3.55-10.64)		705	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	543507	1.22		97.5	4371	
20 Perfluorononanoic acid										
463.00 > 419.00	3.786	3.786	0.0	1.000	1053627	2.38	Target=5.83	95.2	471	
463.00 > 169.00	3.786	3.786	0.0	1.000	185909		5.67(2.91-8.74)		4409	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	839805	2.24		96.1	5266	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.052	0.0	1.076	775080	2.30	Target=3.38	95.9	8673	
549.00 > 99.00	4.052	4.052	0.0	1.076	214807		3.61(1.69-5.08)		1682	
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	509576	1.19		95.3	4733	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.082	4.082	0.0	1.000	921925	2.29	Target=6.81	91.4	1902	
513.00 > 169.00	4.082	4.082	0.0	1.000	134869		6.84(3.41-10.22)		2481	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.082	0.010	1.000	68499	2.28		95.3	944	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	90788	1.20		99.8	1526	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	826587	1.20		96.0	3688	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.139	0.0	1.000	1553653	2.51		101	1640	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.224	25725	1.06		84.5	52.4	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.224	4.224	0.0	1.000	47532	2.45		97.9	892	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.309	4.309	0.0	1.144	625349	2.22	Target=3.31	92.1	2912	M
599.00 > 99.00	4.309	4.309	0.0	1.144	205888		3.04(1.66-4.97)		1025	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	374739	1.16		92.9	4165	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.343	0.0	1.000	680890	2.30	Target=6.57	92.1	1070	
563.00 > 169.00	4.343	4.343	0.0	1.000	112446		6.06(3.28-9.85)		1845	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	29814	1.14		91.1	557	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.355	0.0	1.000	50534	2.31		92.6	1061	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.177	688448	2.13		90.4	4476	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	361178	1.06		84.7	3396	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	701228	2.49	Target=5.16	99.5	1036	
613.00 > 169.00	4.573	4.573	0.0	1.000	145218		4.83(2.58-7.75)		1868	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.597	4.585	0.012	1.124	36785	2.21		91.5	1297	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.745	4.736	0.009	1.260	197982	2.19	Target=0.45	90.5	1220	
699.00 > 99.00	4.745	4.736	0.009	1.260	422164		0.47(0.22-0.67)		2942	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.781	4.772	0.009	1.045	569683	2.38	Target=3.30	95.2	619	
663.00 > 169.00	4.781	4.772	0.009	1.045	172250		3.31(1.65-4.95)		2320	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.969	0.009	1.443	260920	1.07		85.9	4143	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.978	4.969	0.009	1.000	115987	2.43	Target=1.06	97.0	2157	
713.00 > 219.00	4.969	4.969	0.0	0.998	104369		1.11(0.53-1.59)		3196	

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	5.329	0.011	1.548	259535	0.9422		75.4	4039	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.340	5.329	0.011	1.000	445136	2.44	Target=3.06	97.8	383	
813.00 > 169.00	5.340	5.329	0.011	1.000	151669		2.93(1.53-4.58)		2366	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.703	5.694	0.009	1.068	327961	2.11	Target=2.82	84.5	531	
913.00 > 169.00	5.703	5.694	0.009	1.068	123279		2.66(1.41-4.24)		1320	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

PFAS32NCIC5\_00011

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d

Injection Date: 30-Sep-2020 18:14:23

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 1

Worklist Smp#: 1

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

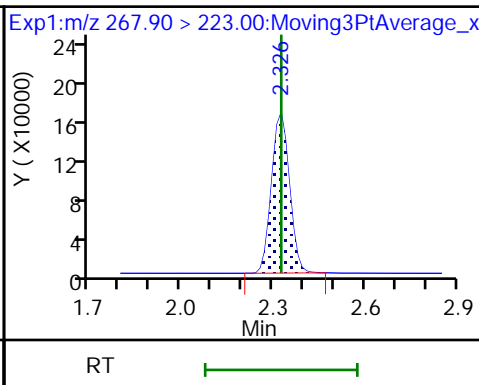
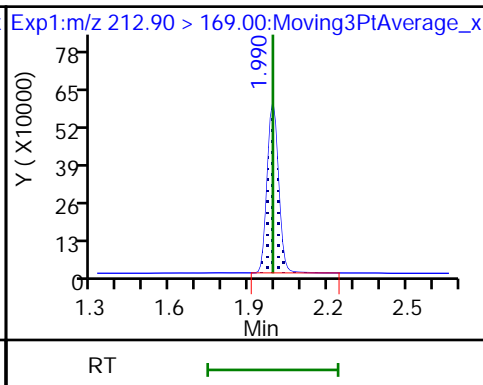
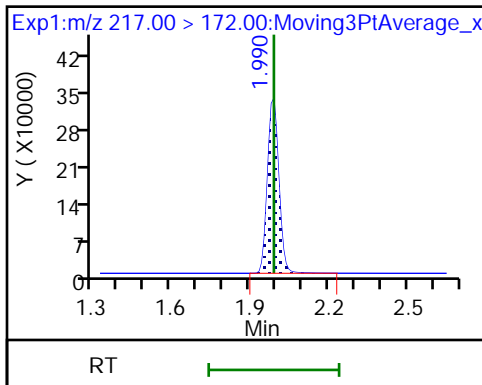
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid

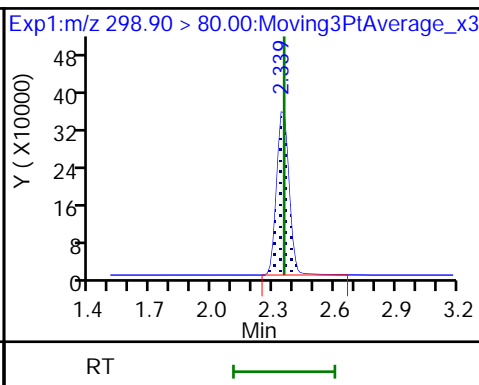
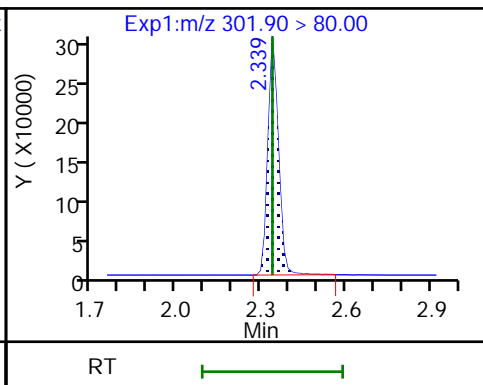
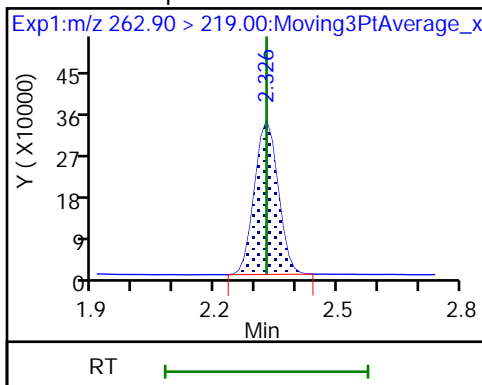
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

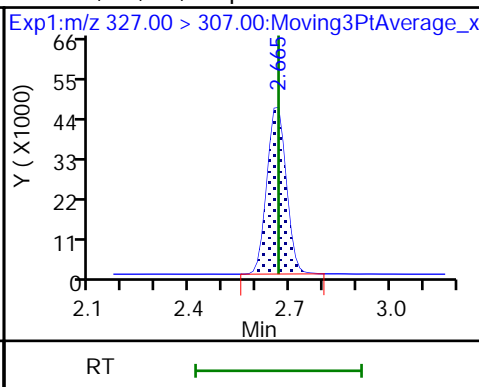
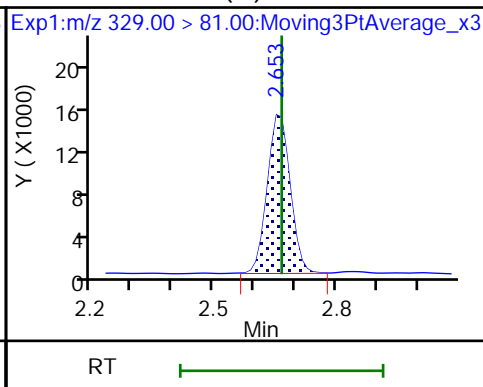
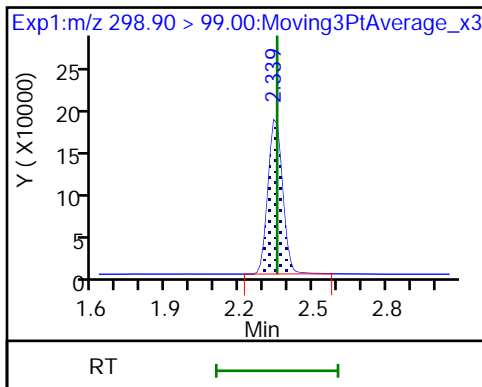
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

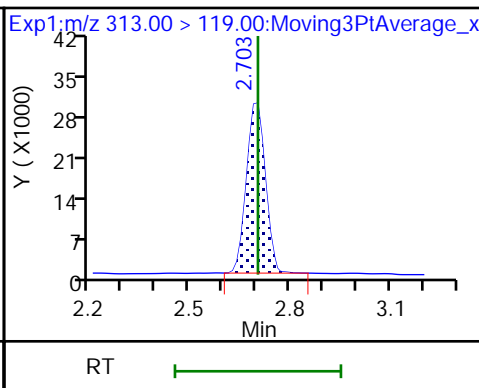
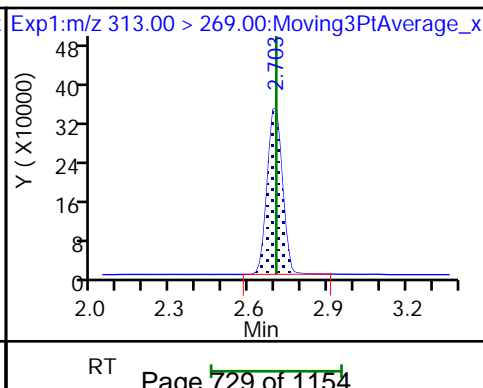
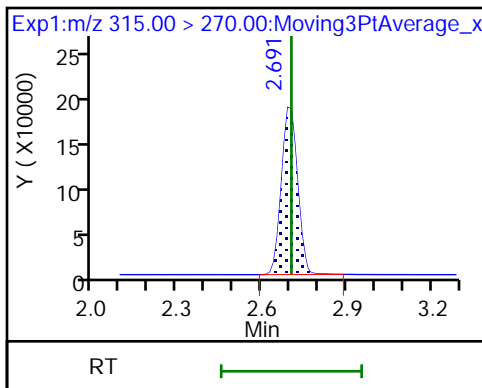
61 1H,1H,2H,2H-perfluorohexanesulfo

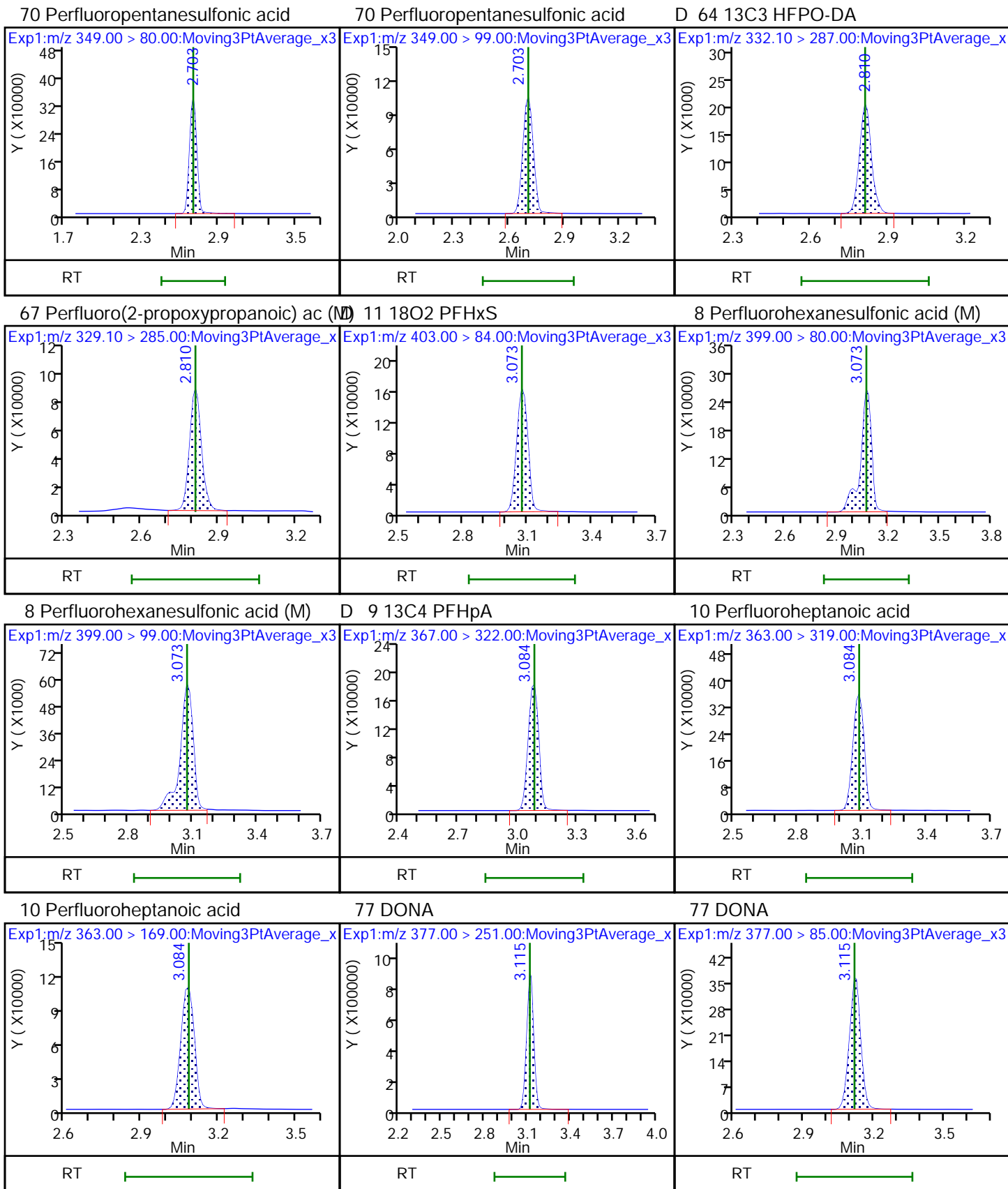


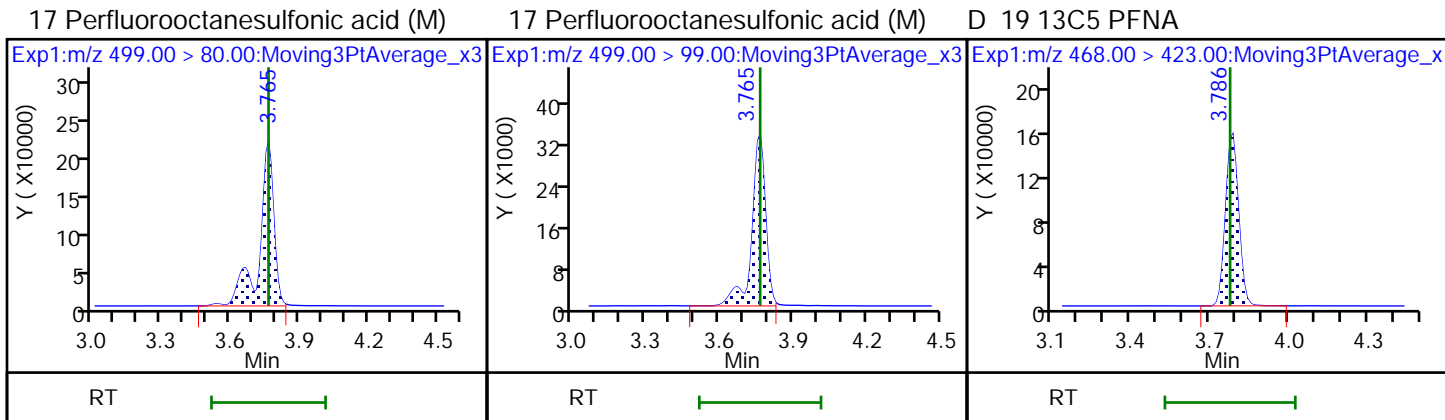
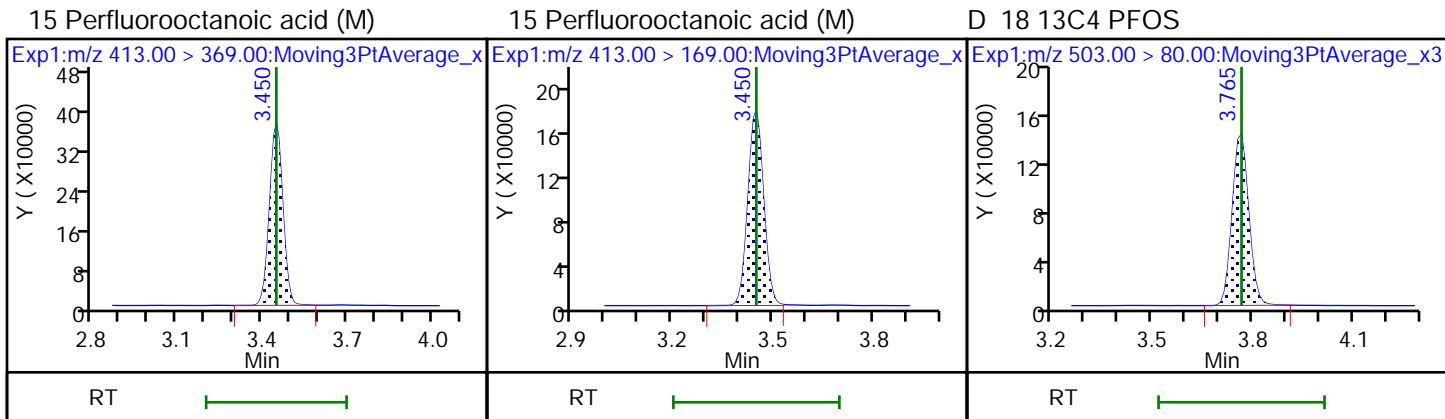
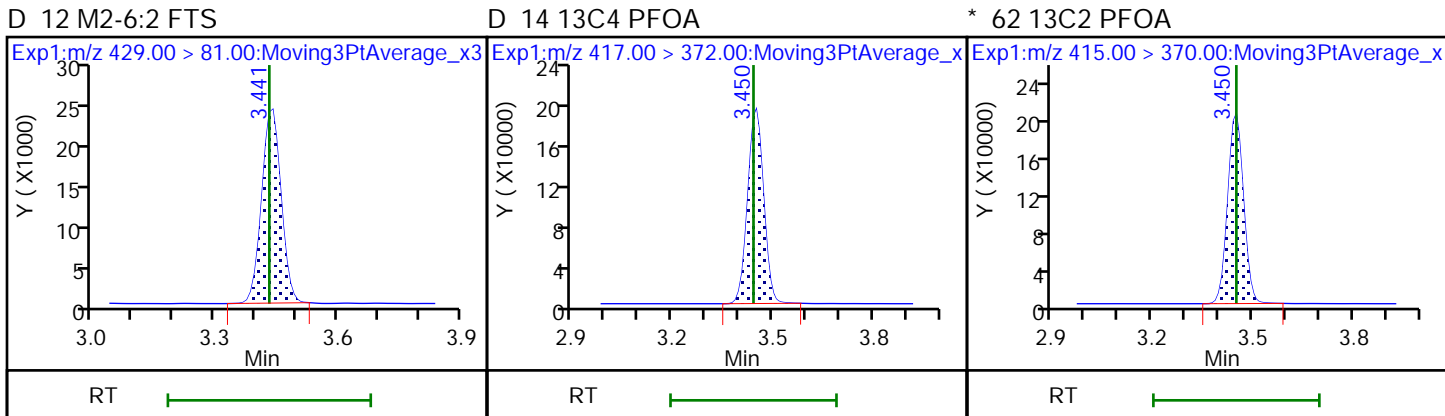
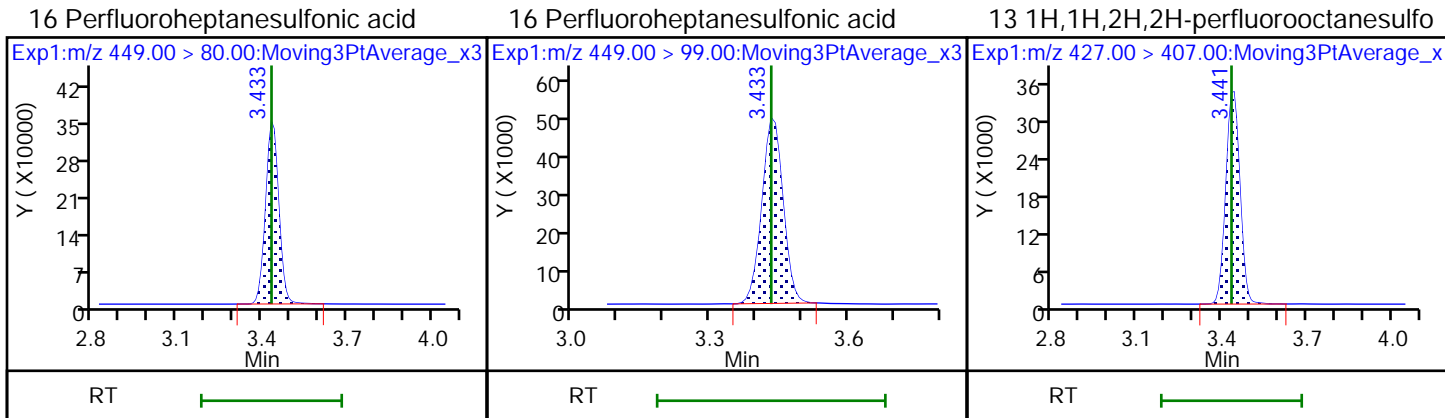
D 7 13C2 PFHxA

6 Perfluorohexanoic acid

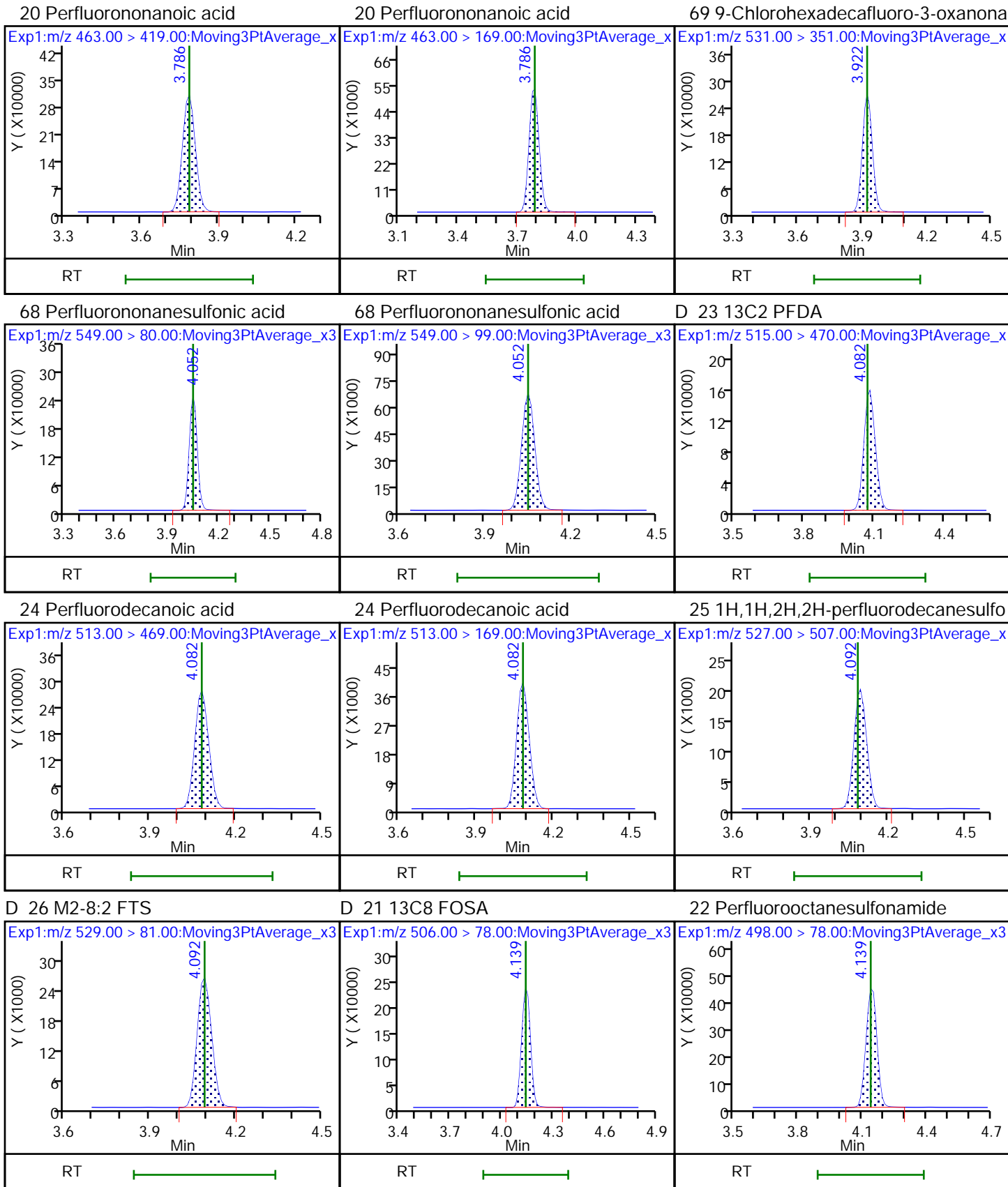
6 Perfluorohexanoic acid





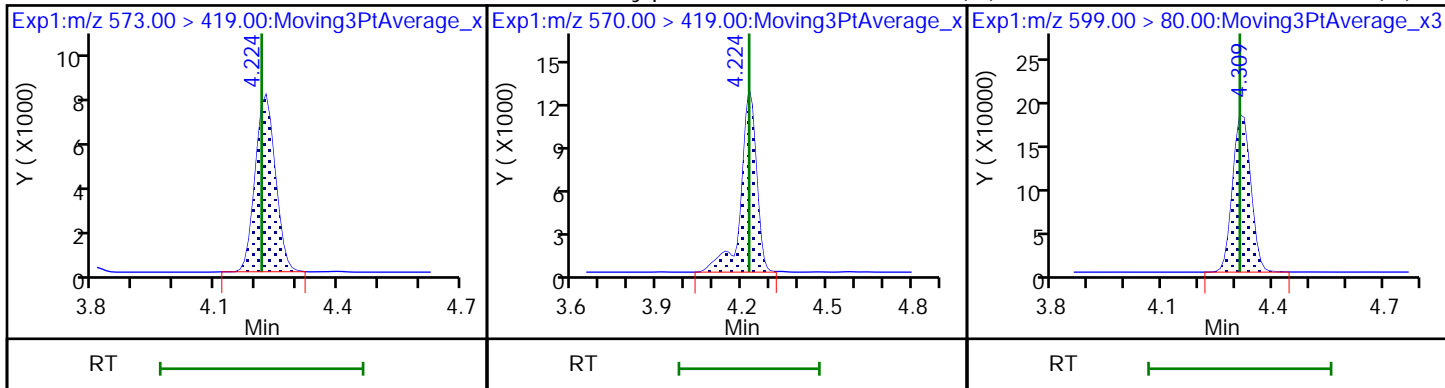






D 27 d3-NMeFOSAA

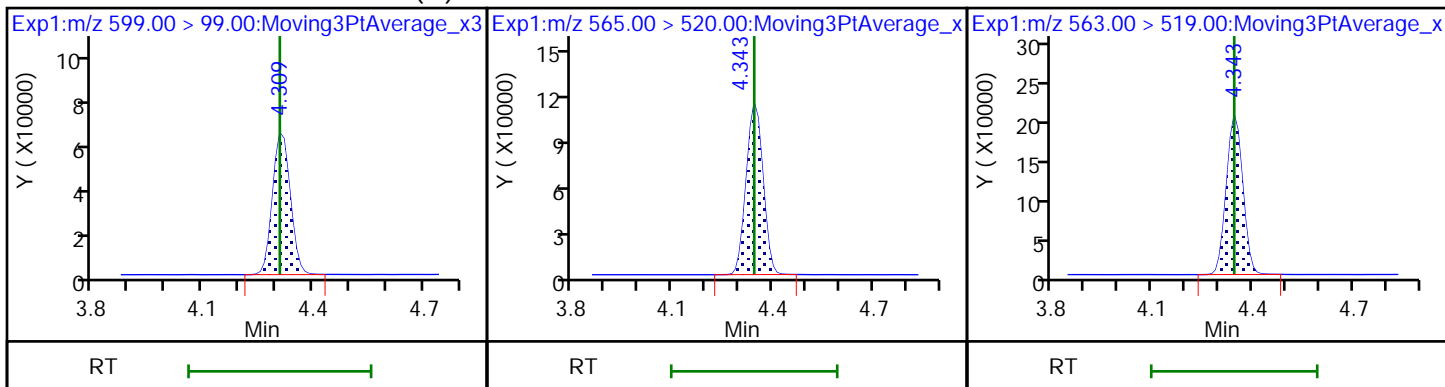
28 N-methylperfluorooctanesulfonami (M)  
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

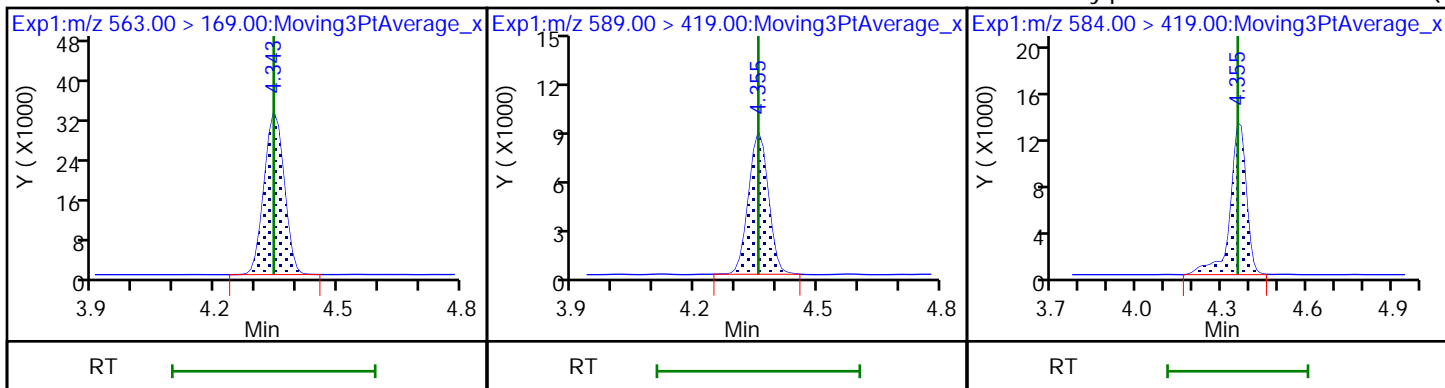
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

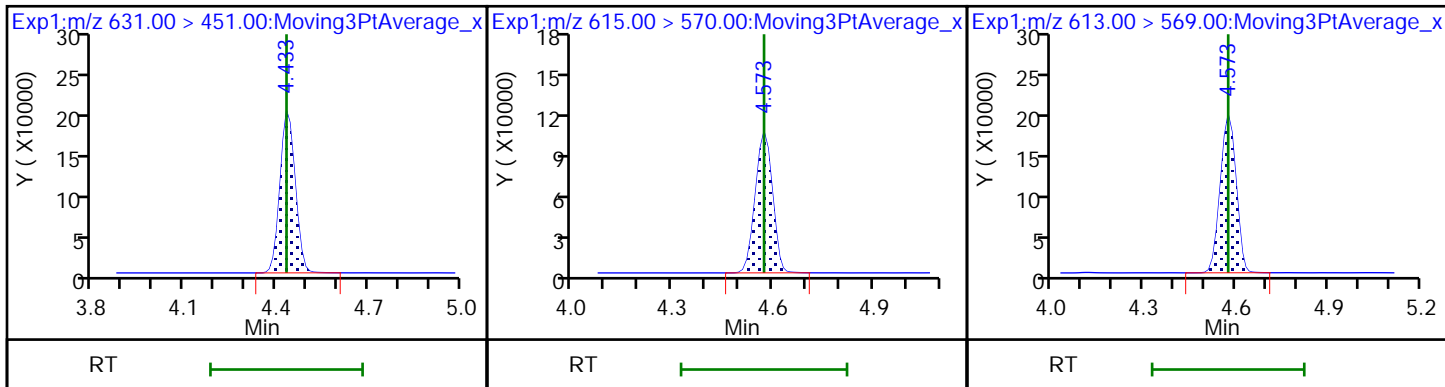
33 N-ethylperfluorooctanesulfonamid (M)

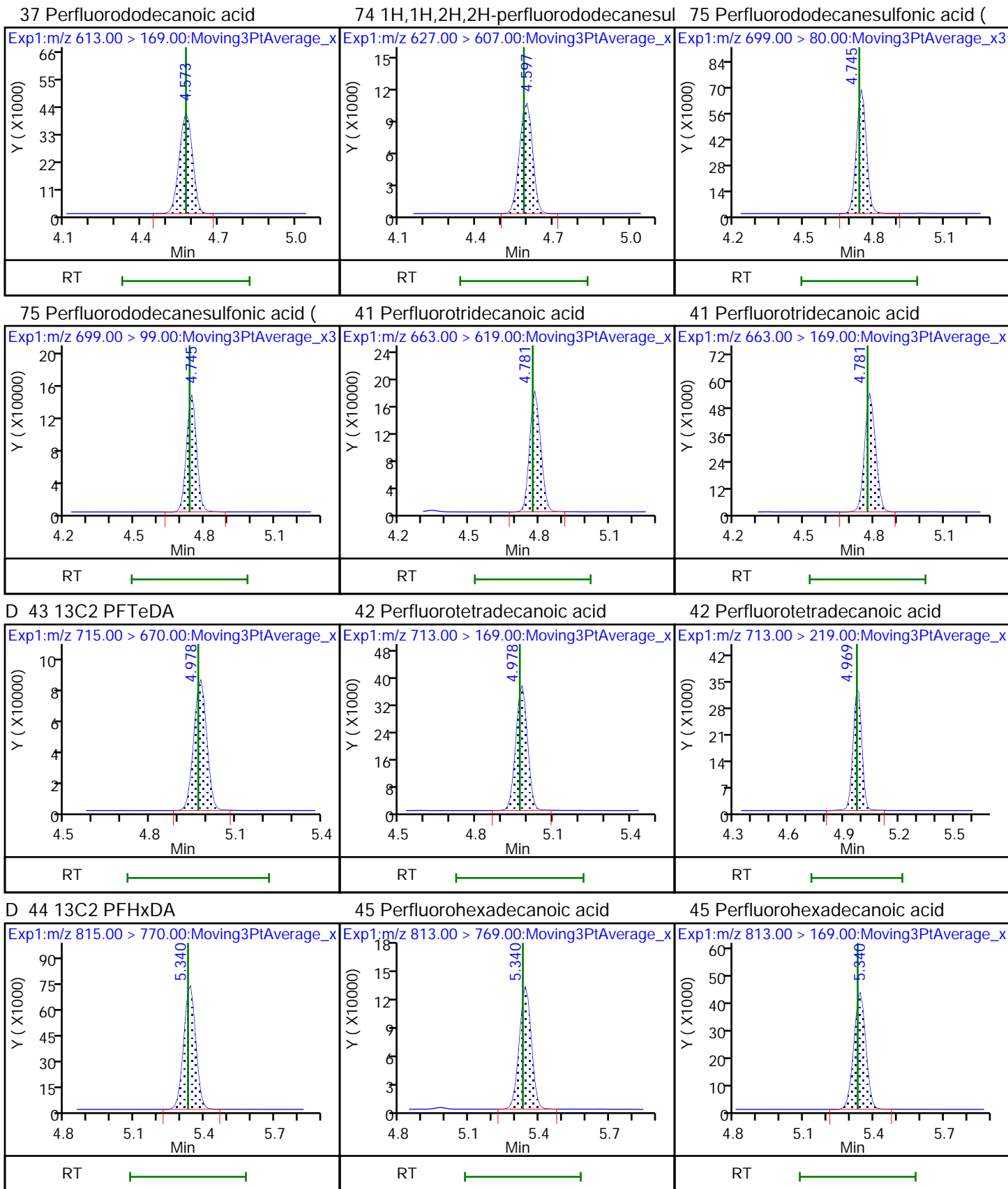


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

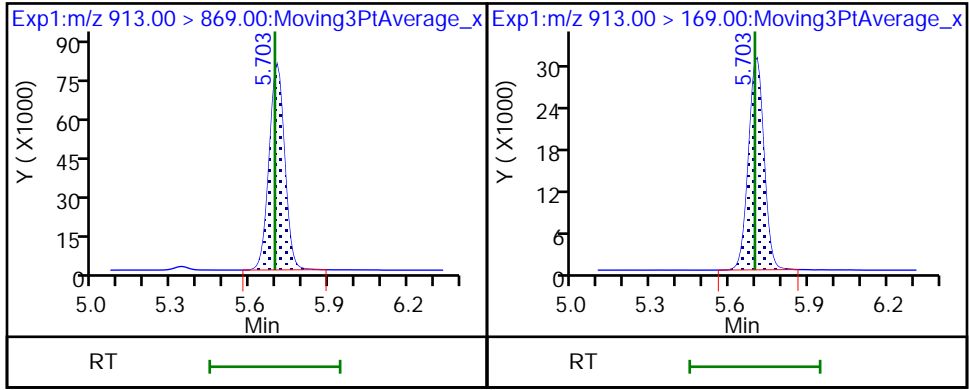
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Euofins TestAmerica, Burlington

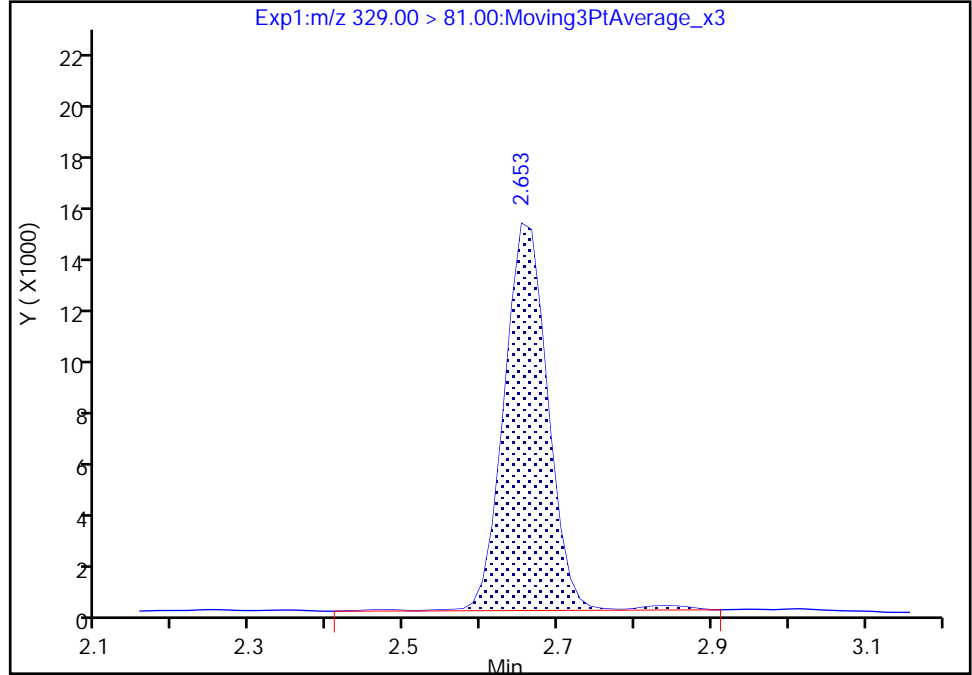
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

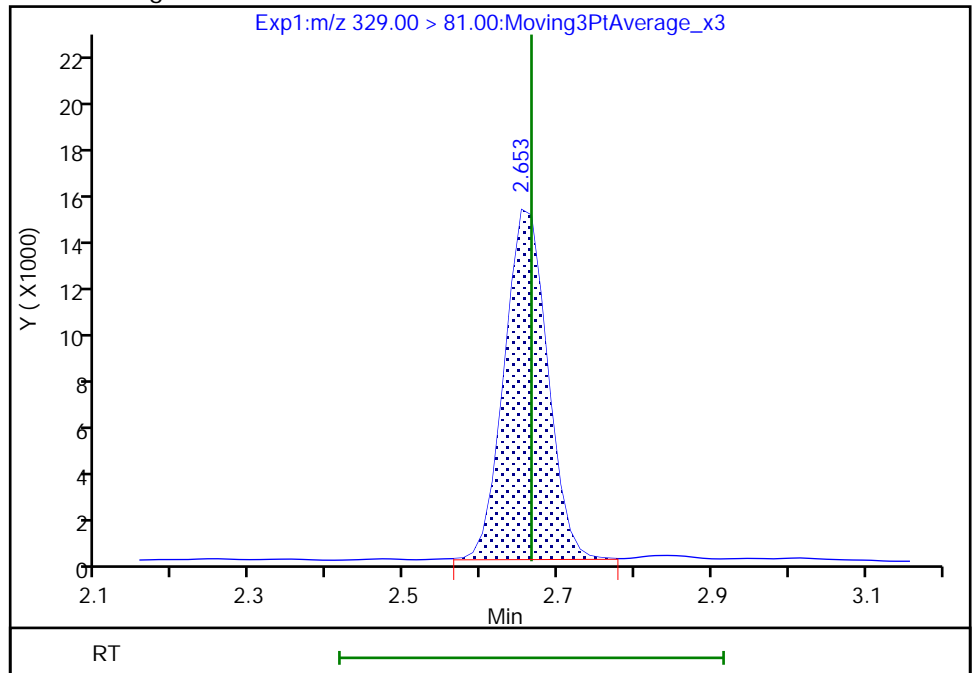
RT: 2.65  
Area: 59346  
Amount: 1.175163  
Amount Units: ng/ml

Processing Integration Results



RT: 2.65  
Area: 58402  
Amount: 1.156470  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:25:17  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

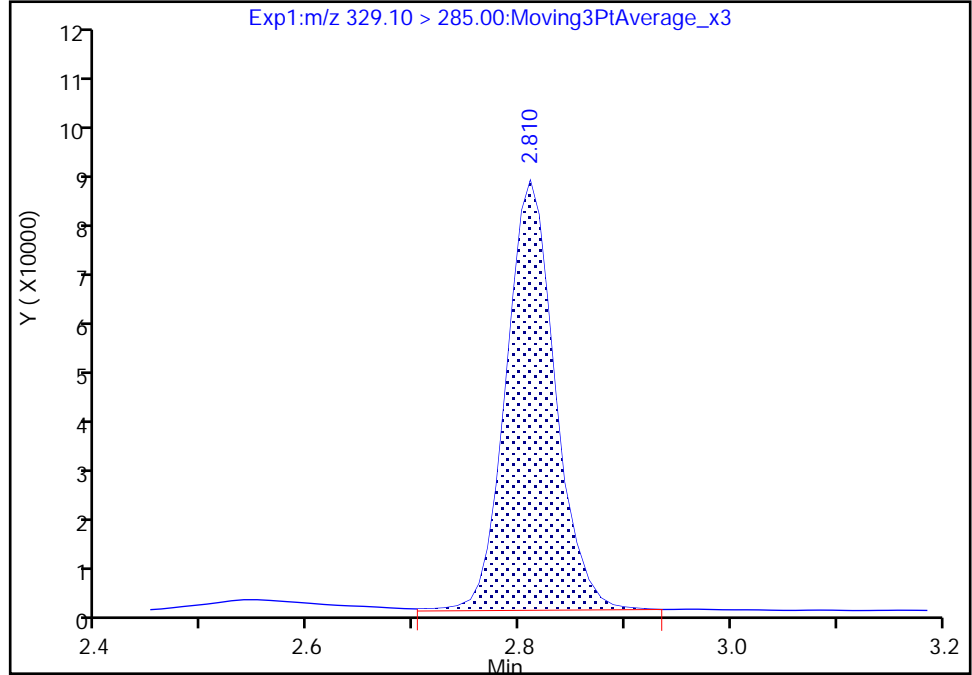
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

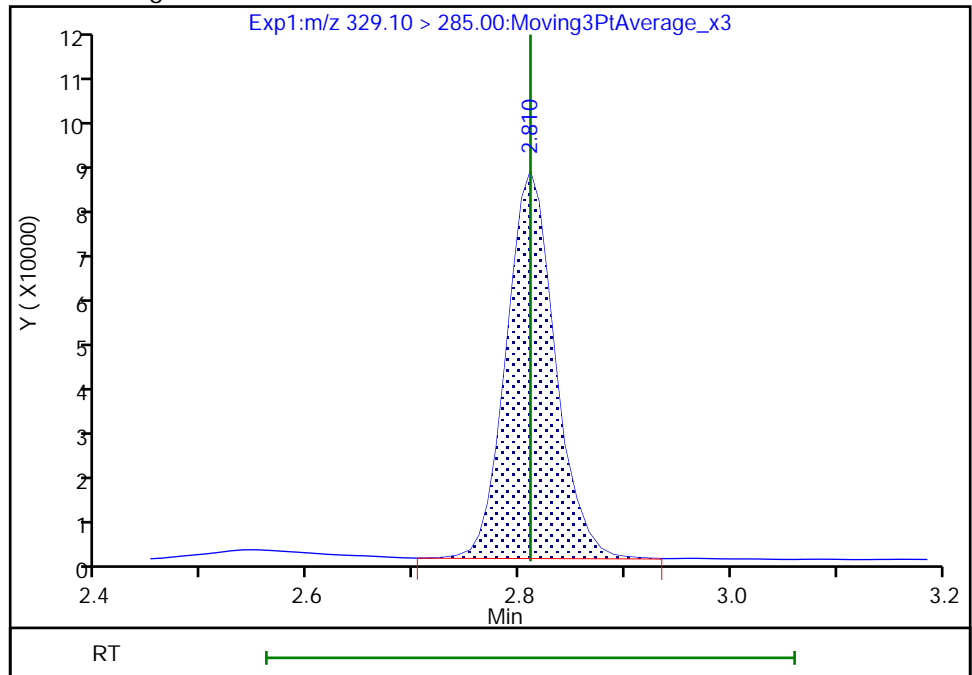
RT: 2.81  
Area: 276683  
Amount: 2.537580  
Amount Units: ng/ml

Processing Integration Results



RT: 2.81  
Area: 274400  
Amount: 2.516641  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:26:10  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

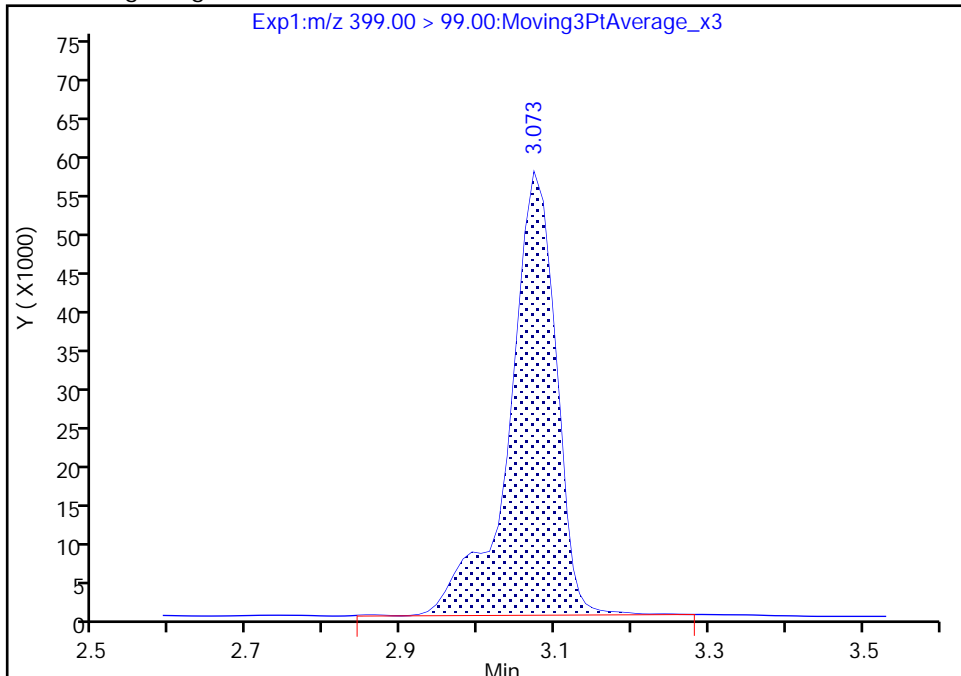
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

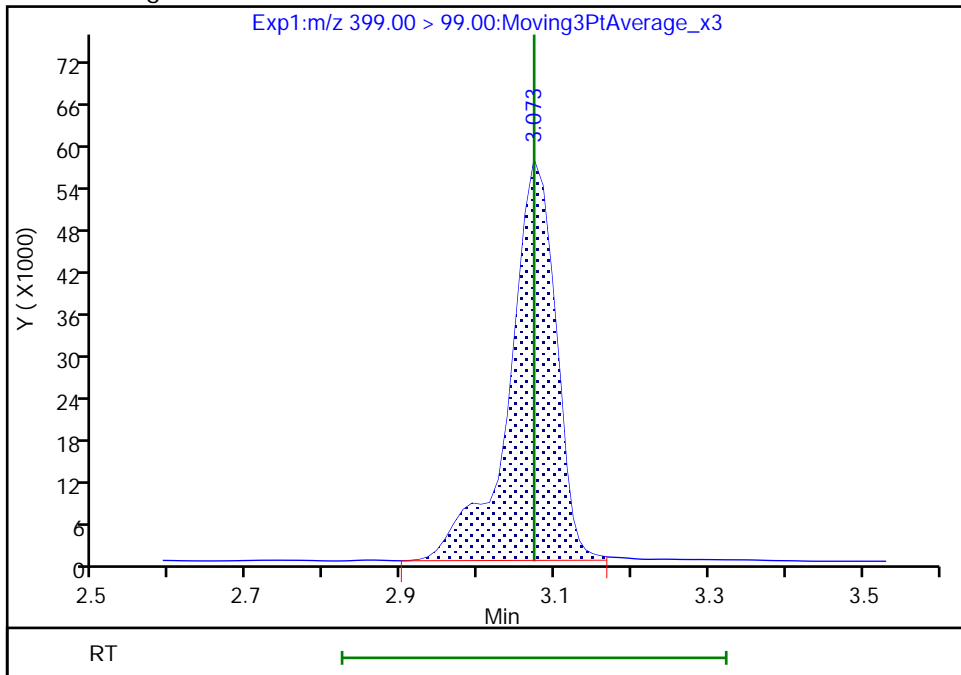
RT: 3.07  
Area: 245021  
Amount: 2.140866  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 244096  
Amount: 2.134105  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:26:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

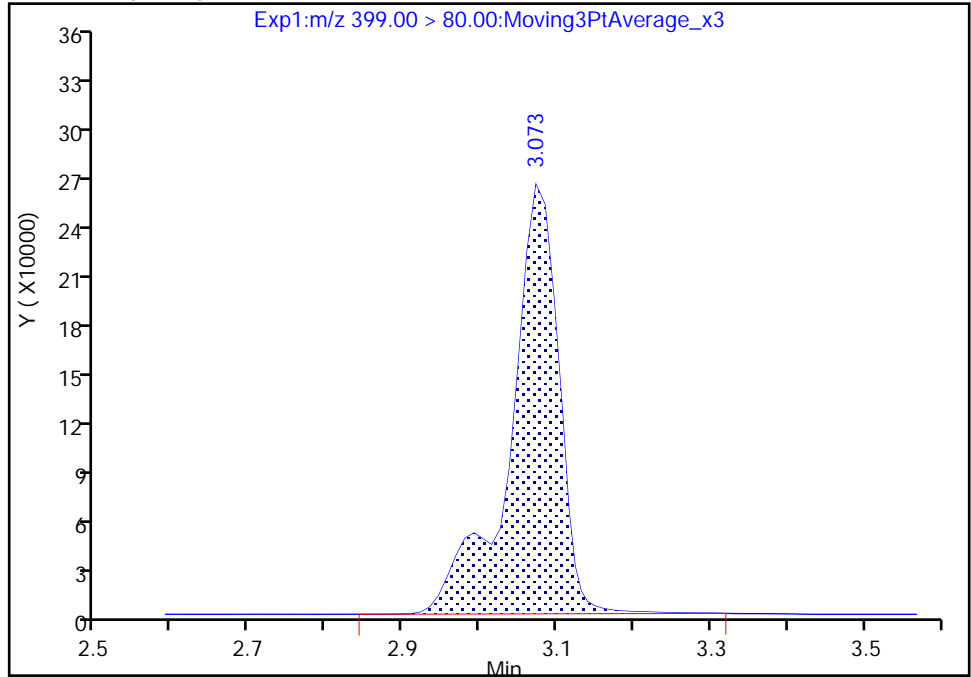
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

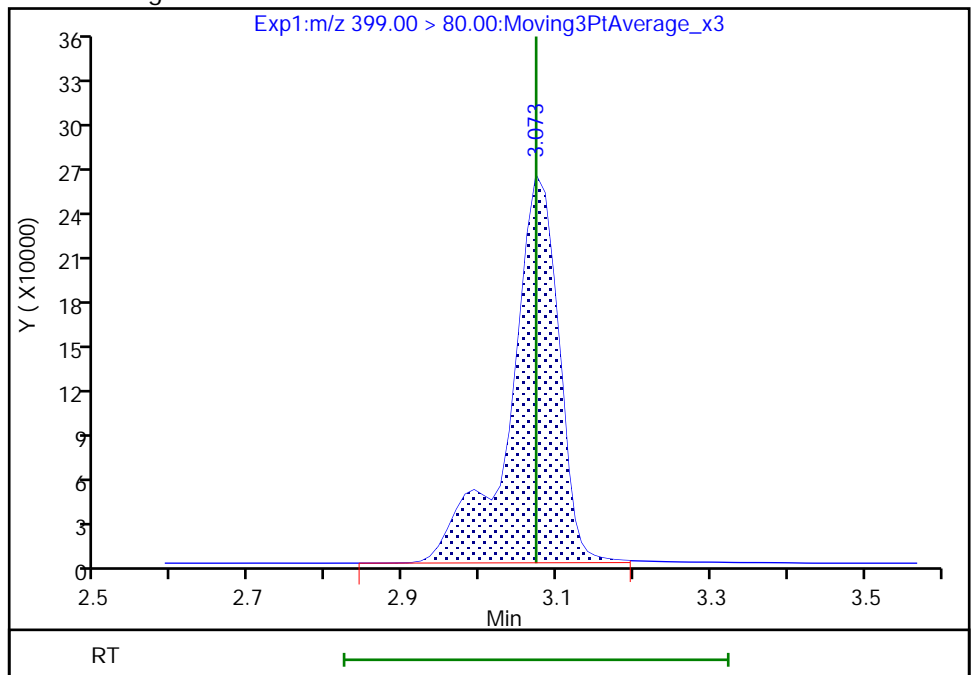
RT: 3.07  
Area: 1150099  
Amount: 2.140866  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 1146467  
Amount: 2.134105  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:26:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

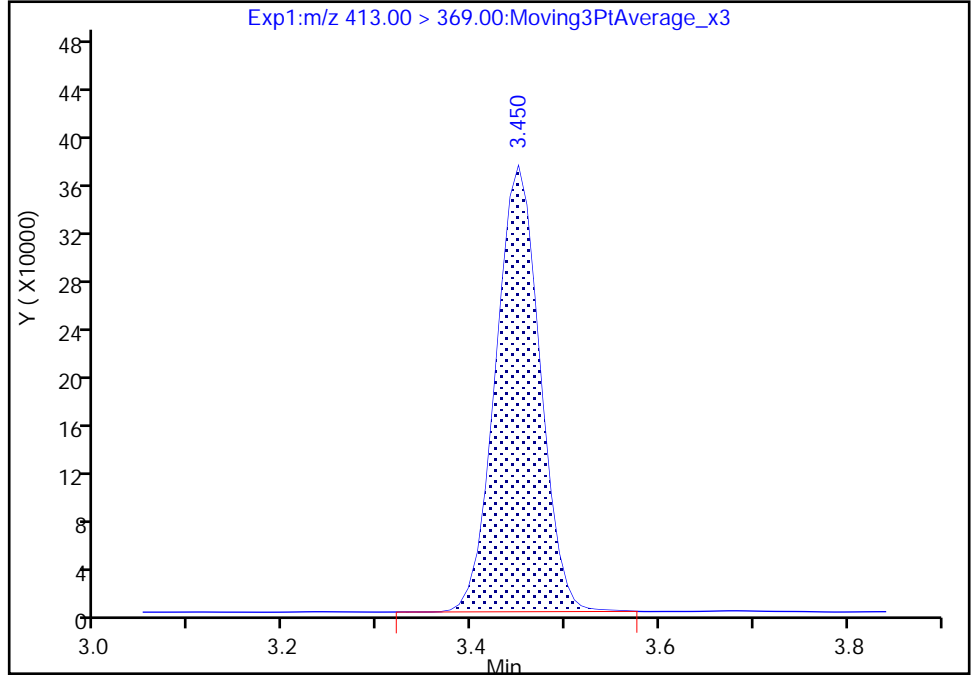
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

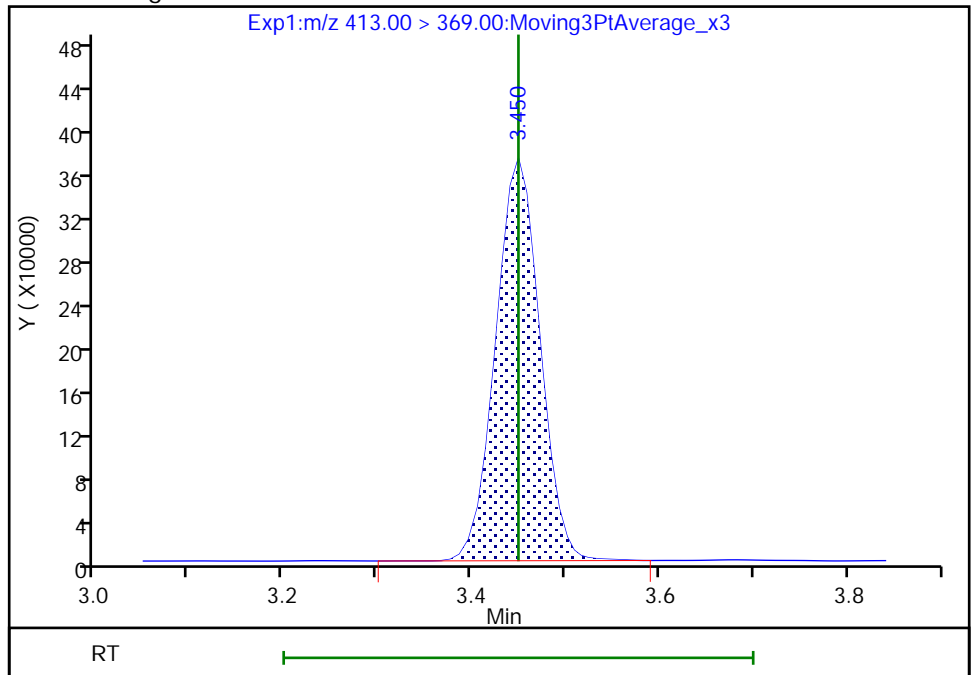
RT: 3.45  
Area: 1217997  
Amount: 2.342644  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 1219061  
Amount: 2.344691  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:26:54  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

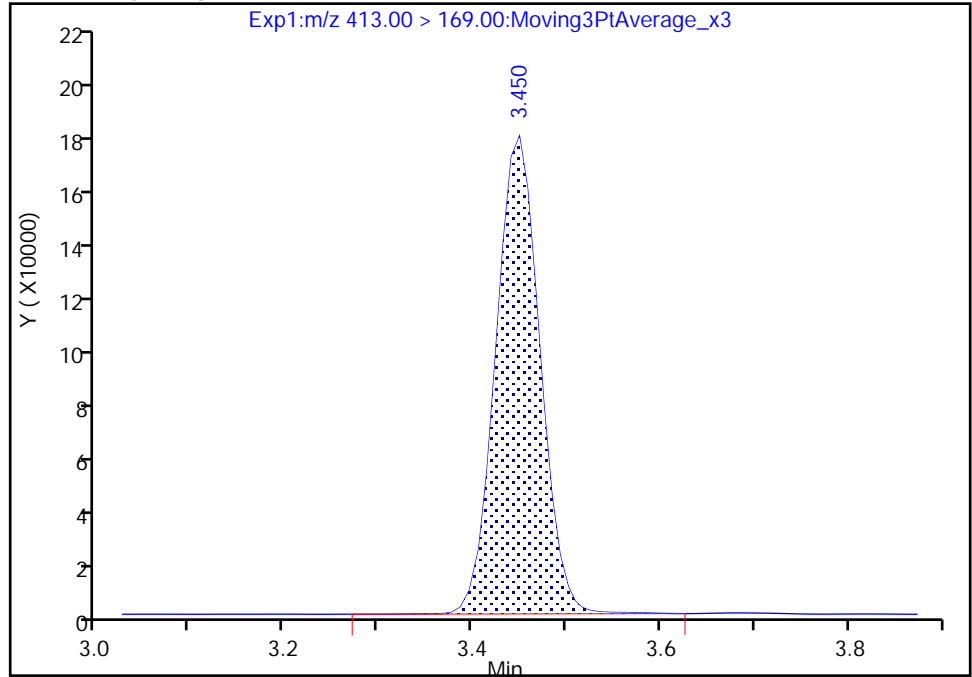
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

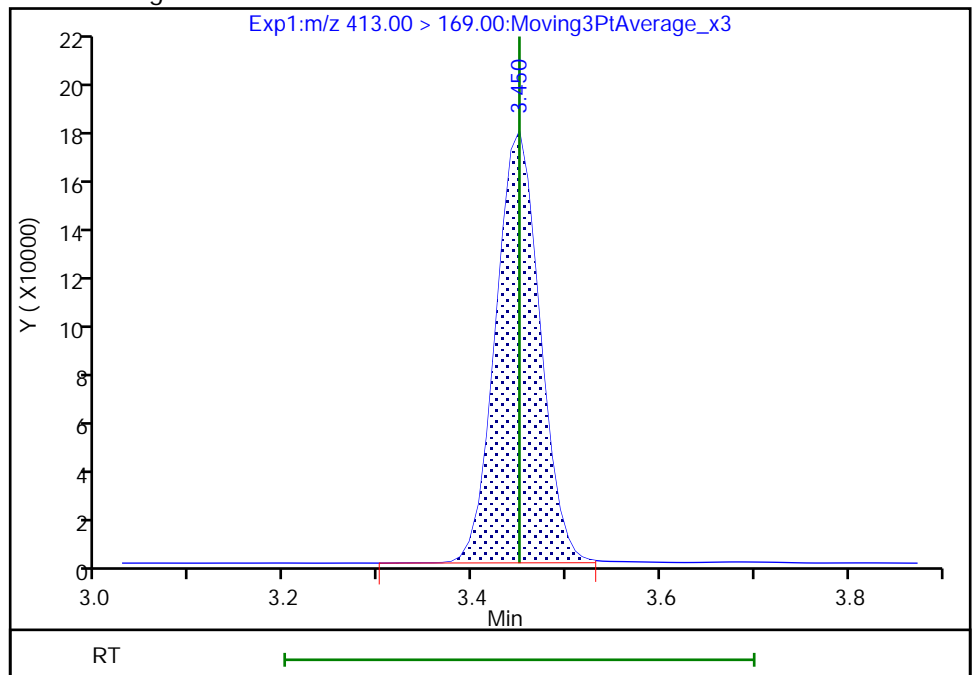
RT: 3.45  
Area: 572001  
Amount: 2.342644  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 570241  
Amount: 2.344691  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:27:09

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

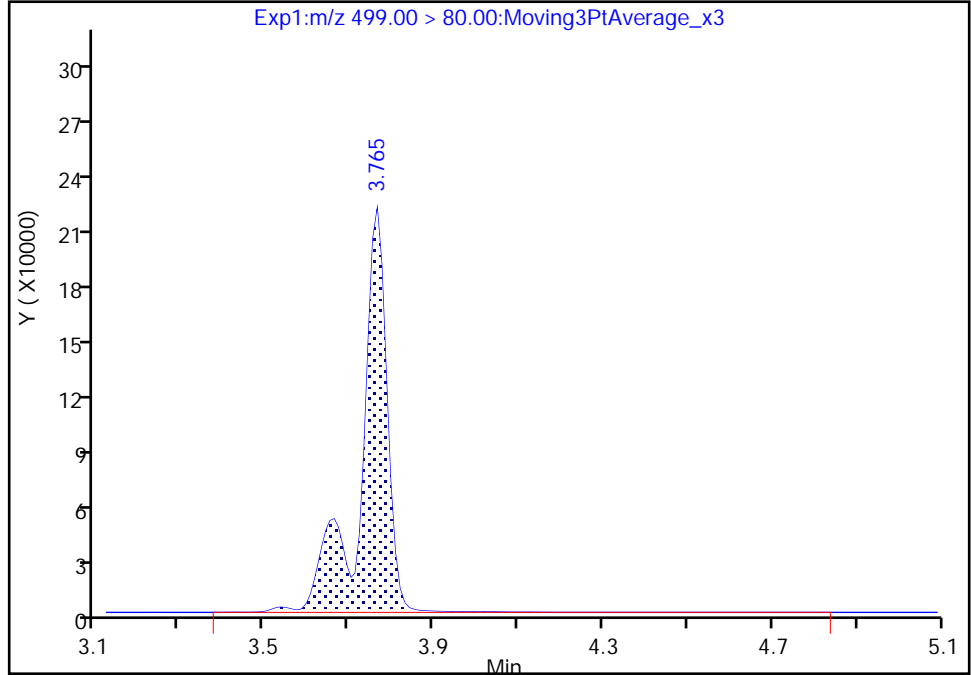
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

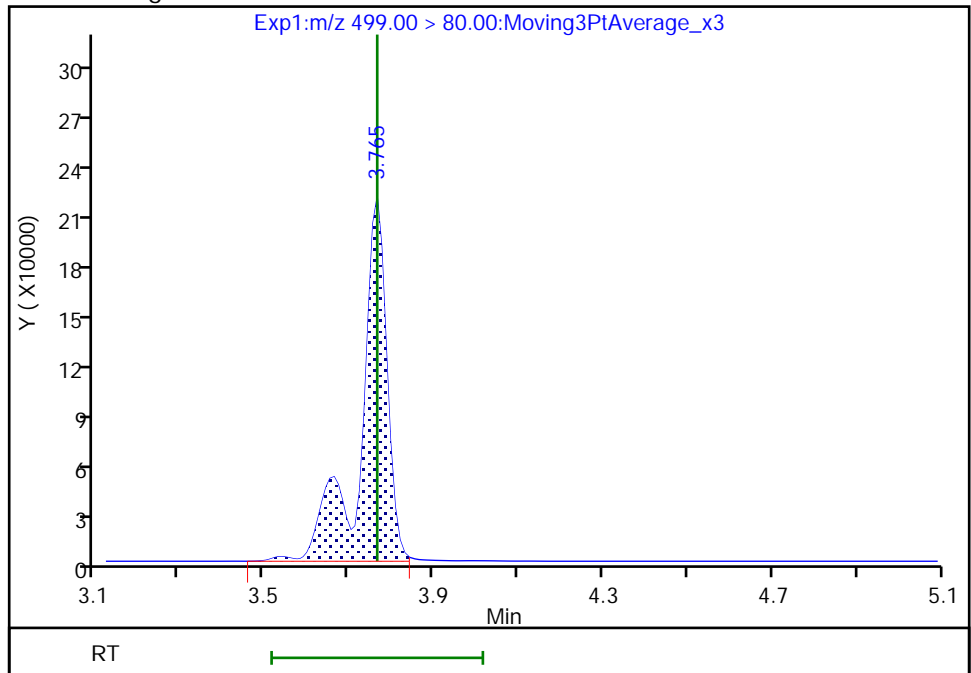
RT: 3.77  
Area: 946347  
Amount: 2.221533  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 939028  
Amount: 2.204352  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:27:49  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

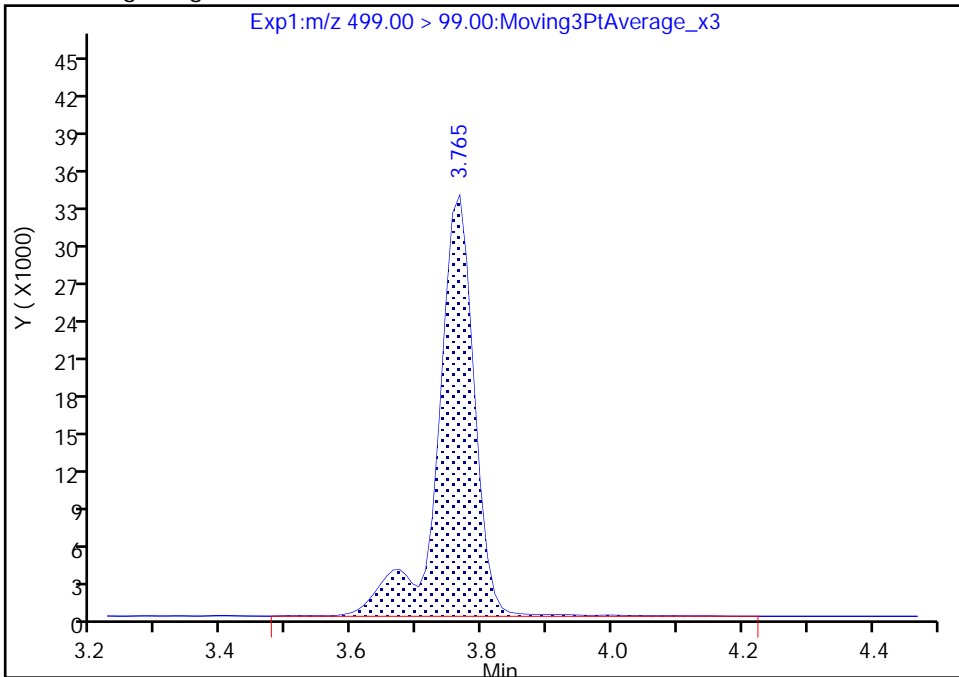
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

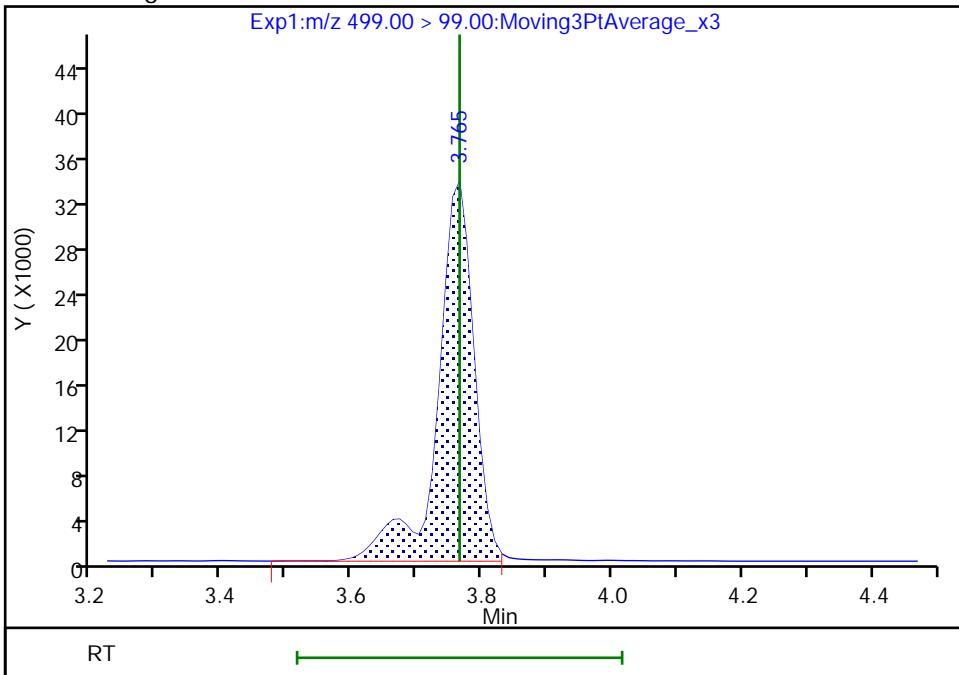
RT: 3.77  
Area: 133089  
Amount: 2.221533  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 131284  
Amount: 2.204352  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:27:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

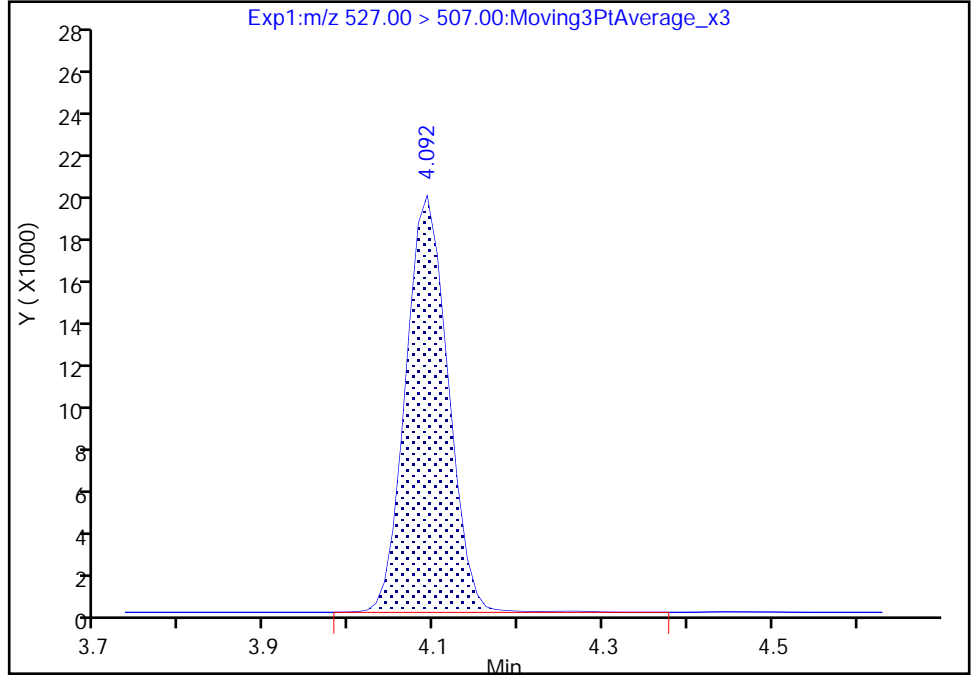
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

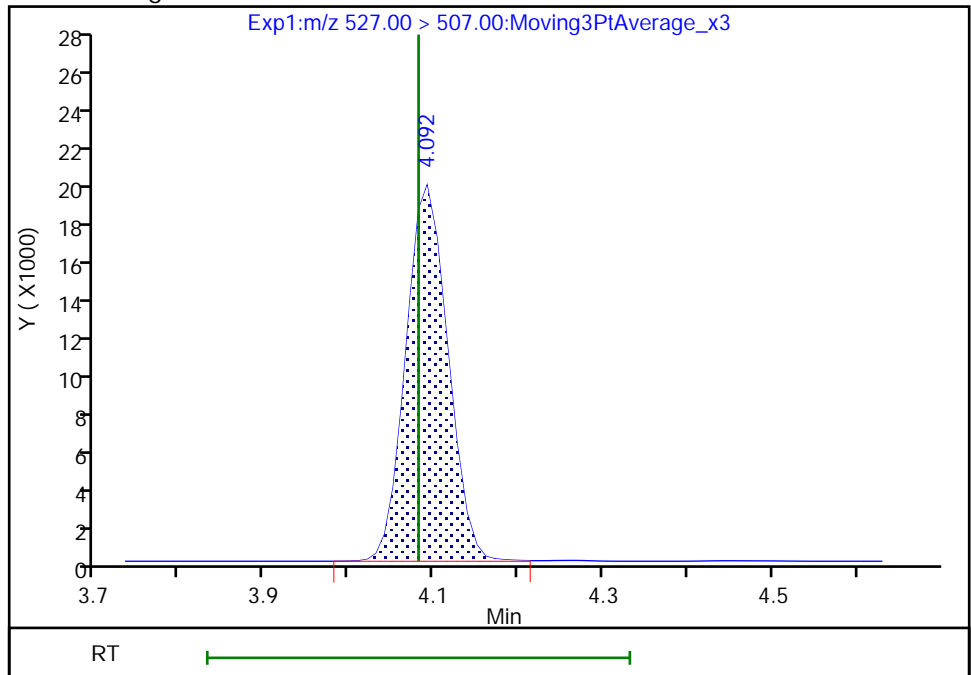
RT: 4.09  
Area: 68674  
Amount: 2.288291  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 68499  
Amount: 2.282460  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:28:09  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

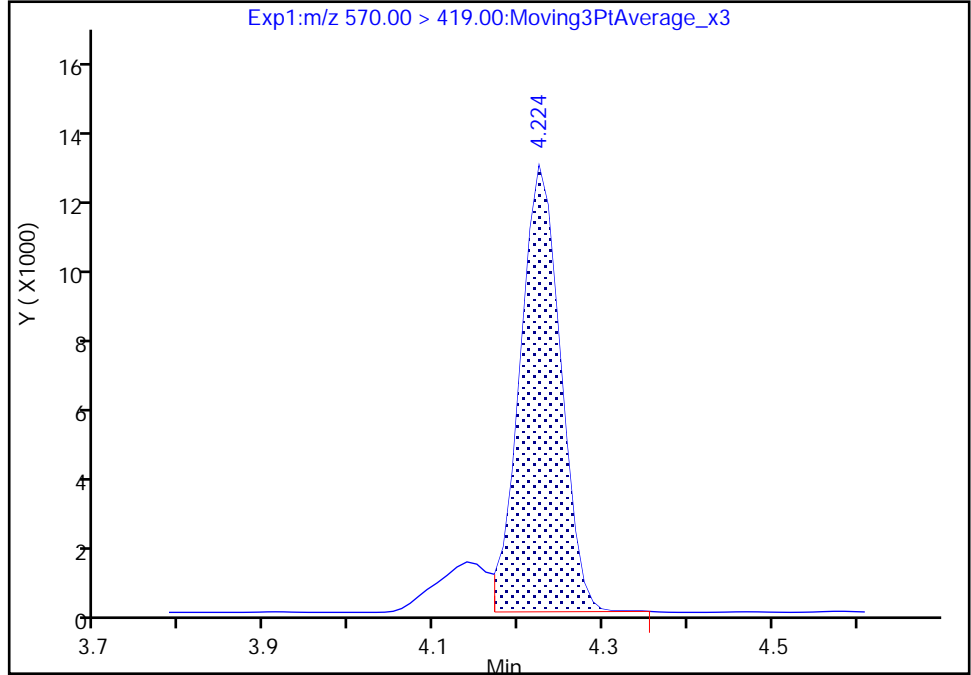
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

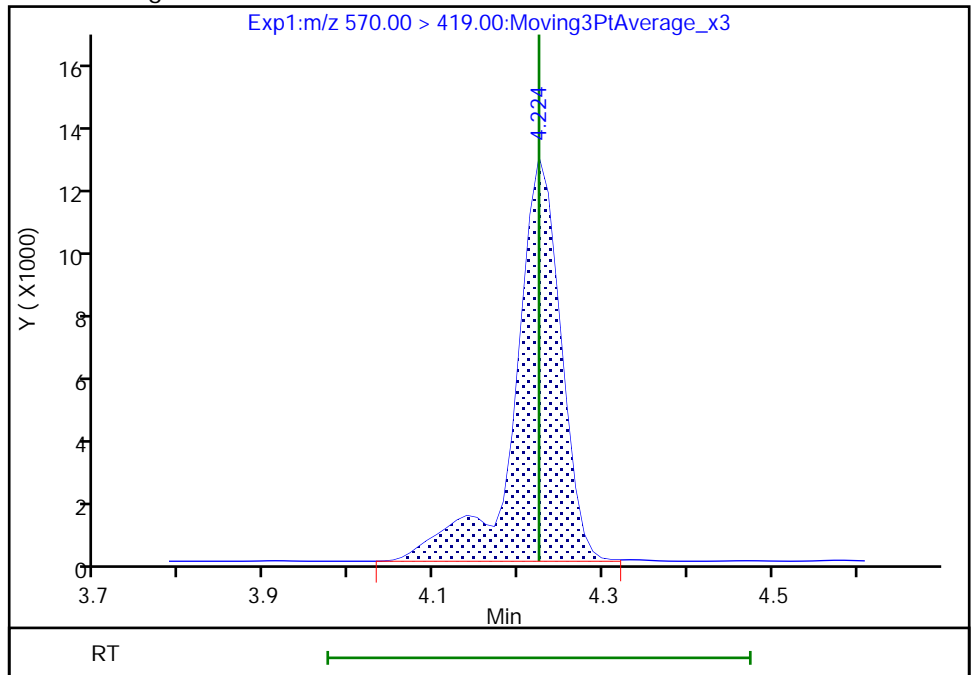
RT: 4.22  
Area: 41321  
Amount: 2.127568  
Amount Units: ng/ml

Processing Integration Results



RT: 4.22  
Area: 47532  
Amount: 2.447365  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:28:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

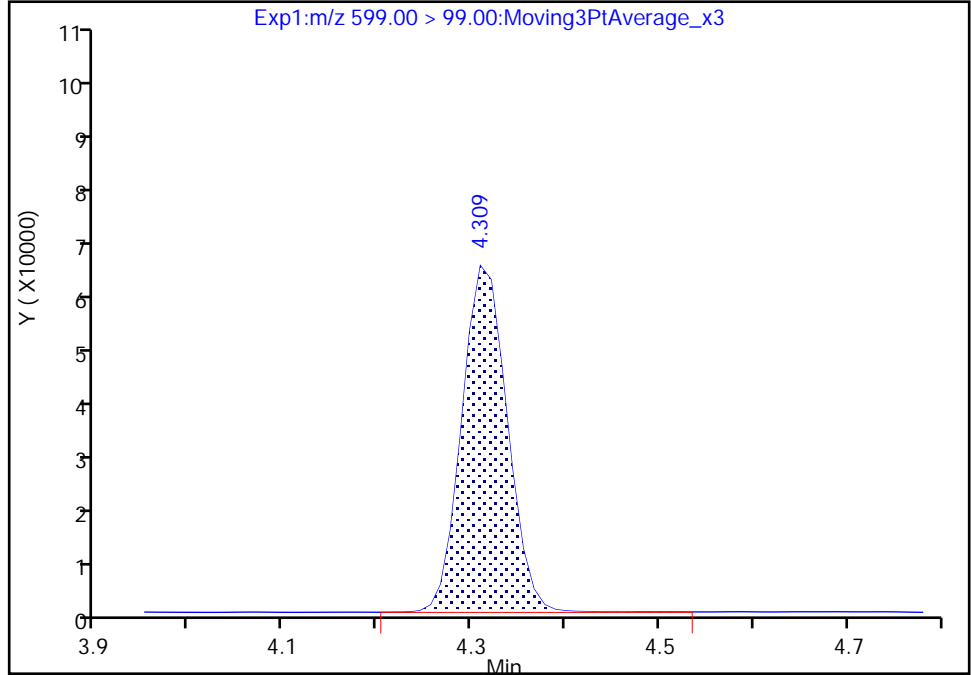
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

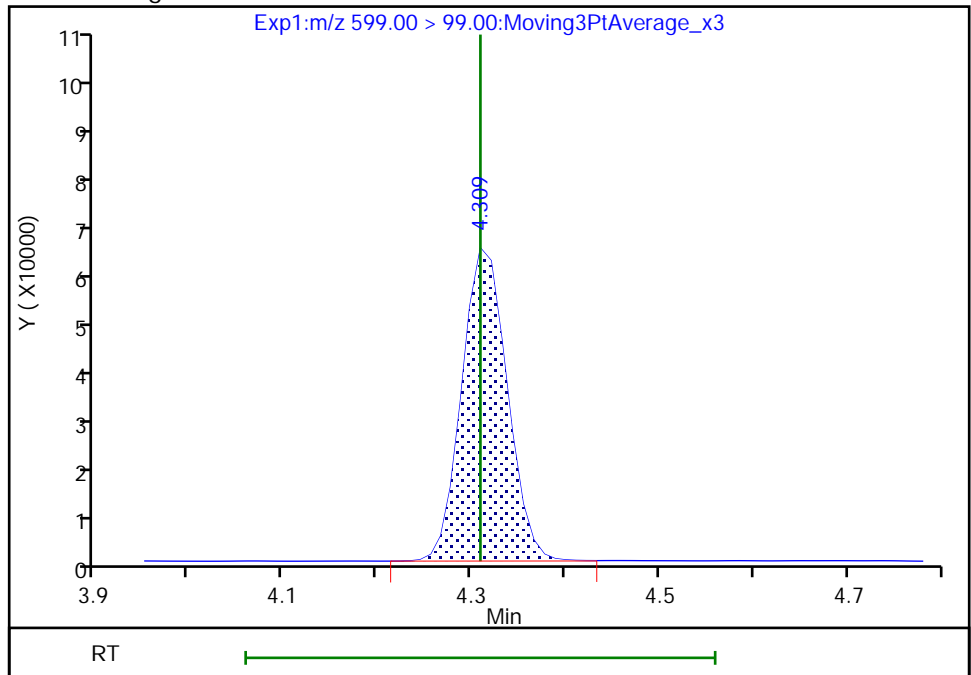
RT: 4.31  
Area: 207136  
Amount: 2.220466  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 205888  
Amount: 2.220082  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:28:43  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

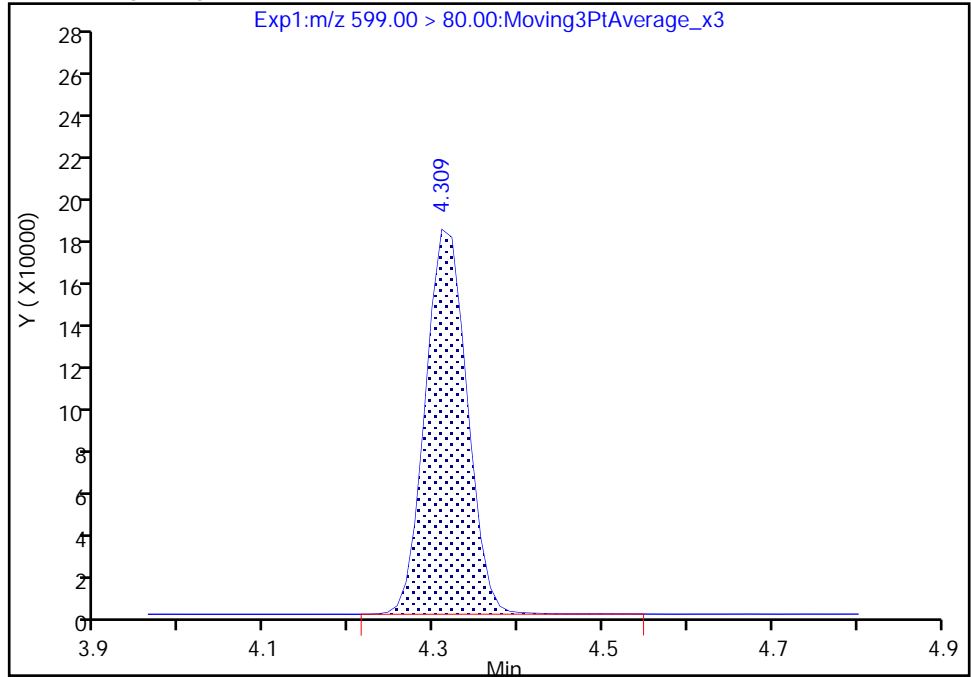
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

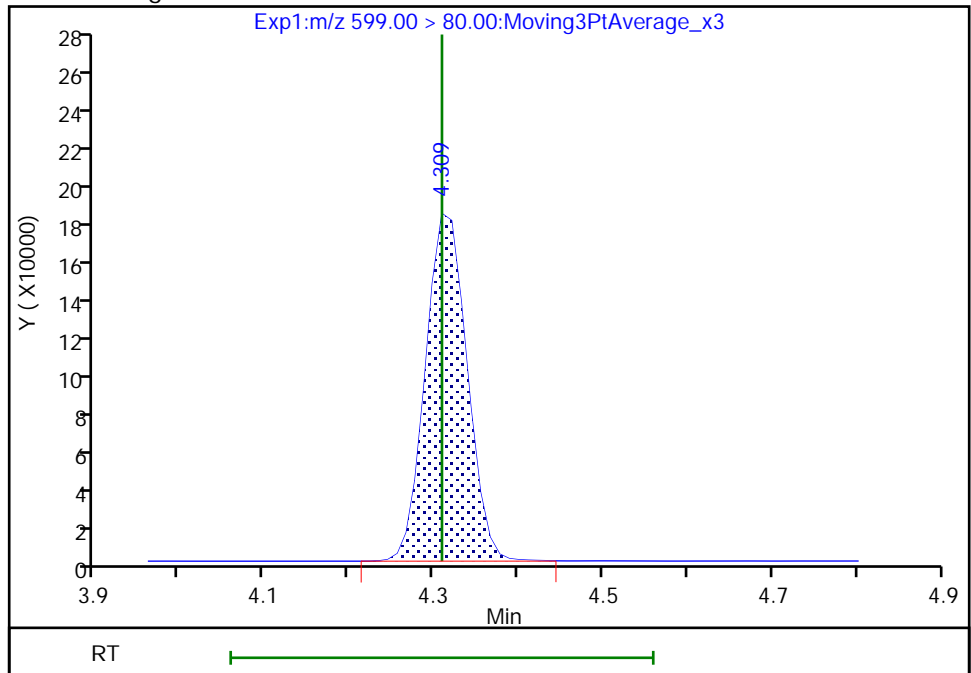
RT: 4.31  
Area: 625457  
Amount: 2.220466  
Amount Units: ng/ml

Processing Integration Results



RT: 4.31  
Area: 625349  
Amount: 2.220082  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:28:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

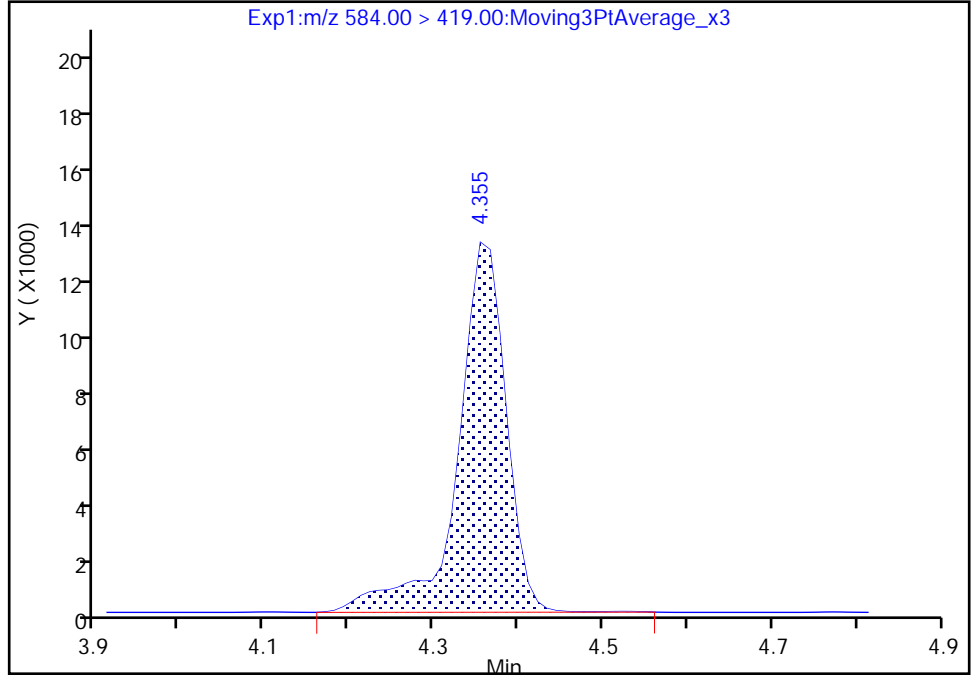
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B01.d  
Injection Date: 30-Sep-2020 18:14:23 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 1 Worklist Smp#: 1  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

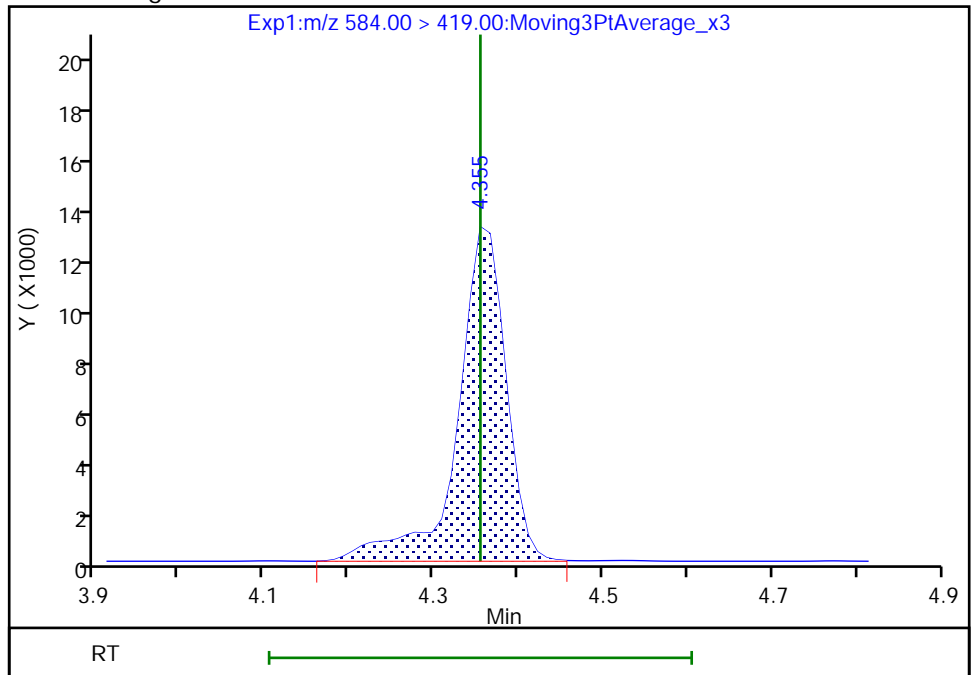
RT: 4.35  
Area: 50567  
Amount: 2.315749  
Amount Units: ng/ml

Processing Integration Results



RT: 4.35  
Area: 50534  
Amount: 2.314238  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:29:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159409/14 Calibration Date: 09/30/2020 20:02  
 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: PA200930B14.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	0.8759		0.937	1.00	-6.3	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	0.9763		0.924	1.00	-7.6	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.019		0.904	0.884	2.3	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.456		0.842	0.934	-9.9	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	0.9728		0.966	1.00	-3.4	40.0
Perfluoropentanesulfonic acid (PFPA)	AveID	1.184	1.163		0.922	0.938	-1.7	50.0
HFPO-DA	AveID	2.128	2.039		0.958	1.00	-4.2	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.997		0.995	1.00	-0.5	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.026		0.846	0.910	-7.1	40.0
DONA	AveID	3.081	2.915		0.891	0.942	-5.4	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7598		0.903	0.948	-4.8	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.185		0.974	0.952	2.3	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.013		0.982	1.00	-1.8	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.001		0.855	0.928	-7.9	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	0.9731		0.956	1.00	-4.4	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.8903		0.868	0.932	-6.9	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8033		0.898	0.960	-6.5	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.3985		0.964	0.958	0.7	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.9478		0.958	1.00	-4.2	40.0
Perfluorodecanesulfonamide (PFOSA)	AveID	0.9348	0.9605		1.03	1.00	2.7	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9472		1.00	1.00	0.4	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.7054		0.946	0.964	-1.8	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	1.018		1.03	1.00	3.2	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.7504		0.820	1.00	-18.0	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7475		0.854	0.942	-9.4	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.9773		1.00	1.00	0.2	40.0
10:2 FTS	AveID	0.2199	0.2006		0.879	0.964	-8.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.1910		0.802	0.968	-17.1	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8416		1.02	1.00	1.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2281		0.996	1.00	-0.4	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159409/14 Calibration Date: 09/30/2020 20:02  
 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: PA200930B14.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		0.8603		0.967	1.00	-3.3	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.6350		0.850	1.00	-15.0	50.0
13C4 PFBA	Ave	1.433	1.483		1.29	1.25	3.5	50.0
13C5 PFPeA	Ave	1.027	1.036		1.26	1.25	0.9	50.0
13C3 PFBS	Ave	1.251	1.221		1.14	1.16	-2.4	50.0
M2-4:2 FTS	Ave	0.0939	0.1097		1.36	1.17	16.8	50.0
13C2 PFHxA	Ave	1.058	1.092		1.29	1.25	3.3	50.0
13C3 HFPO-DA	Ave	0.0985	0.0988		1.25	1.25	0.3	50.0
13C4 PFHpA	Ave	0.9620	0.995		1.29	1.25	3.4	50.0
18O2 PFHxS	Ave	0.8974	0.9699		1.28	1.18	8.1	50.0
M2-6:2 FTS	Ave	0.1199	0.1273		1.26	1.19	6.1	50.0
13C4 PFOA	Ave	0.9845	0.9696		1.23	1.25	-1.5	50.0
13C4 PFOS	Ave	0.7341	0.7576		1.23	1.20	3.2	50.0
13C5 PFNA	Ave	0.8296	0.8472		1.28	1.25	2.1	50.0
13C2 PFDA	Ave	0.7956	0.7689		1.21	1.25	-3.4	50.0
M2-8:2 FTS	Ave	0.1413	0.1464		1.24	1.20	3.6	50.0
13C8 FOSA	Ave	1.282	1.303		1.27	1.25	1.7	50.0
d3-NMeFOSAA	Ave	0.0453	0.0404		1.12	1.25	-10.7	50.0
13C2 PFUnA	Ave	0.6006	0.5510		1.15	1.25	-8.3	50.0
d5-NEtFOSAA	Ave	0.0487	0.0528		1.35	1.25	8.3	50.0
13C2 PFDoA	Ave	0.6348	0.5688		1.12	1.25	-10.4	50.0
13C2 PFTeDA	Ave	0.4522	0.4210		1.16	1.25	-6.9	50.0
13C2 PFHxDA	Ave	0.5124	0.3841		0.937	1.25	-25.1	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
 Lims ID: CCV L4  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 30-Sep-2020 20:02:11 ALS Bottle#: 14 Worklist Smp#: 14  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L4  
 Misc. Info.: 200-0043035-014 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 11:34:37

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	1.991	1.990	0.001	0.576	975109	1.29	103	13278	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.991	1.990	0.001	1.000	683298	0.9371		93.7	206	M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.673	681126	1.26	101	2658	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.326	2.326	0.0	1.000	532003	0.9245		92.4	35.7	
D 47 13C3 PFBS	301.90 > 80.00	2.353	2.339	0.014	0.680	746801	1.14	97.6	85511	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.353	2.353	0.0	1.000	578742	0.9041	Target=2.07	102	1762	
298.90 > 99.00	2.353	2.353	0.0	1.000	283895		2.04(1.04-3.11)		453	
D 60 M2-4:2 FTS	329.00 > 81.00	2.666	2.665	0.001	0.771	67370	1.36	117	180	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.666	2.665	0.001	1.000	78480	0.8415		90.1	916	M
D 7 13C2 PFHxA	315.00 > 270.00	2.704	2.703	0.001	0.782	718327	1.29	103	2590	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.704	2.703	0.001	1.000	559051	0.9661	Target=12.44	96.6	246	M
313.00 > 119.00	2.704	2.703	0.001	1.000	49979		11.19(6.22-18.66)		61.5	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.704	2.703	0.001	0.876	556683	0.9216	Target=3.64	98.3	1785	
349.00 > 99.00	2.704	2.703	0.001	0.876	160427		3.47(1.82-5.46)		597	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.811	2.810	0.001	0.813	64972	1.25	100	1160	

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	2.819	2.810	0.009	1.003	105987	0.9583		95.8	30.9	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.085	3.073	0.012	0.892	603268	1.28		108	1645	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.085	3.073	0.012	1.000	476436	0.8456	Target=4.60	92.9	813	M
399.00 > 99.00	3.085	3.073	0.012	1.000	104950		4.54(2.30-6.91)		280	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.085	3.084	0.001	0.892	654242	1.29		103	3398	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.085	3.084	0.001	1.000	521985	1.00	Target=3.34	99.5	354	
363.00 > 169.00	3.085	3.084	0.001	1.000	149652		3.49(1.67-5.01)		254	
77 DONA										
377.00 > 251.00	3.124	3.115	0.009	0.830	1094415	0.8914	Target=2.44	94.6	3448	
377.00 > 85.00	3.124	3.115	0.009	0.830	463700		2.36(1.22-3.67)		1295	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.441	3.433	0.009	0.914	449625	0.9739	Target=7.08	102	1800	
449.00 > 99.00	3.441	3.433	0.009	0.914	67433		6.67(3.54-10.63)		596	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.441	3.433	0.009	1.000	48224	0.9025		95.2	840	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.995	79504	1.26		106	733	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	0.997	637513	1.23		98.5	2632	
* 62 13C2 PFOA										
415.00 > 370.00	3.459	3.450	0.009		657512	1.25			4383	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.459	3.450	0.009	1.003	516862	0.9816	Target=2.29	98.2	292	
413.00 > 169.00	3.459	3.450	0.009	1.003	228042		2.27(1.14-3.43)		640	M
D 18 13C4 PFOS										
503.00 > 80.00	3.766	3.765	0.001	1.089	476201	1.23		103	2002	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.776	3.765	0.011	1.003	370044	0.8545	Target=7.10	92.1	821	M
499.00 > 99.00	3.766	3.765	0.001	1.000	55778		6.63(3.55-10.64)		309	M
D 19 13C5 PFNA										
468.00 > 423.00	3.787	3.776	0.011	1.095	557032	1.28		102	3963	
20 Perfluorononanoic acid										
463.00 > 419.00	3.787	3.786	0.001	1.000	433623	0.9555	Target=5.83	95.6	203	
463.00 > 169.00	3.787	3.786	0.001	1.000	76115		5.70(2.91-8.74)		1563	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.932	3.922	0.010	1.044	330660	0.8676		93.1	3065	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.062	4.052	0.010	1.079	307288	0.8979	Target=3.38	93.5	3497	M
549.00 > 99.00	4.062	4.052	0.010	1.079	93612		3.28(1.69-5.08)		732	
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.180	505546	1.21		96.6	5343	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.082	0.010	1.002	383327	0.9580	Target=6.81	95.8	974	
513.00 > 169.00	4.082	4.082	0.0	1.000	56721		6.76(3.41-10.22)		750	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.082	0.010	1.000	29390	0.9644		101	588	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.183	92194	1.24		104	1357	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.139	0.012	1.200	856945	1.27		102	4205	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.151	4.139	0.012	1.000	658473	1.03		103	1137	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.221	26595	1.12		89.3	149	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.235	4.224	0.011	1.002	20152	1.00		100	296	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.309	0.012	1.147	270985	0.9464	Target=3.31	98.2	2183	
599.00 > 99.00	4.321	4.309	0.012	1.147	86492		3.13(1.66-4.97)		799	
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.343	0.012	1.259	362315	1.15		91.7	3387	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.343	0.012	1.000	295146	1.03	Target=6.57	103	521	
563.00 > 169.00	4.355	4.343	0.012	1.000	49060		6.02(3.28-9.85)		1412	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.355	0.011	1.262	34689	1.35		108	757	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.366	4.355	0.011	1.000	20825	0.8197		82.0	683	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.444	4.433	0.011	1.180	280589	0.8535		90.6	2311	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.322	373998	1.12		89.6	2432	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.586	4.573	0.013	1.003	292402	1.00	Target=5.16	100	475	
613.00 > 169.00	4.573	4.573	0.0	1.000	59020		4.95(2.58-7.75)		1012	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.598	4.585	0.013	1.124	14889	0.8793		91.2		M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.754	4.736	0.018	1.262	73695	0.8020	Target=0.45	82.9	493	
699.00 > 99.00	4.754	4.736	0.018	1.262	170162		0.43(0.22-0.67)		1775	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.789	4.772	0.017	1.047	251820	1.02	Target=3.30	102	301	
663.00 > 169.00	4.789	4.772	0.017	1.047	73531		3.42(1.65-4.95)		1520	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.969	0.019	1.442	276839	1.16		93.1	4831	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.988	4.969	0.019	1.000	50519	1.00	Target=1.06	99.6	1233	
713.00 > 219.00	4.978	4.969	0.009	0.998	47009		1.07(0.53-1.59)		2509	

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	5.329	0.021	1.547	252528	0.9368		74.9	2867	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.329	0.021	1.000	173804	0.9667	Target=3.06	96.7	163	
813.00 > 169.00	5.350	5.329	0.021	1.000	61158		2.84(1.53-4.58)		2404	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.711	5.694	0.017	1.067	128290	0.8497	Target=2.82	85.0	258	
913.00 > 169.00	5.703	5.694	0.009	1.066	47946		2.68(1.41-4.24)		797	

**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\20200930-43035.b\PA200930B14.d

Injection Date: 30-Sep-2020 20:02:11

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 14

Worklist Smp#: 14

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

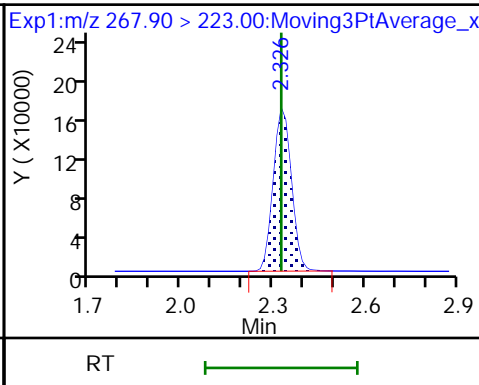
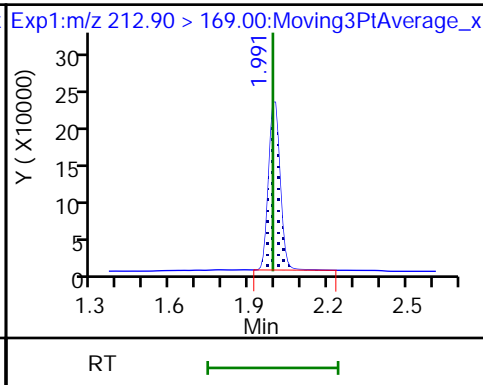
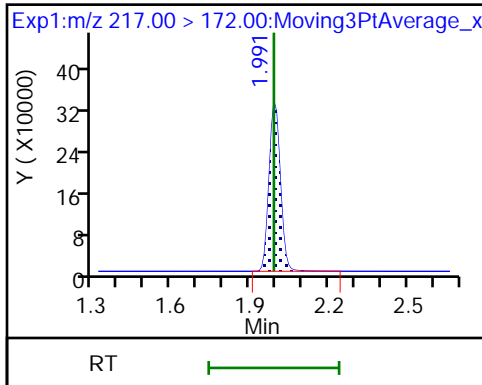
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

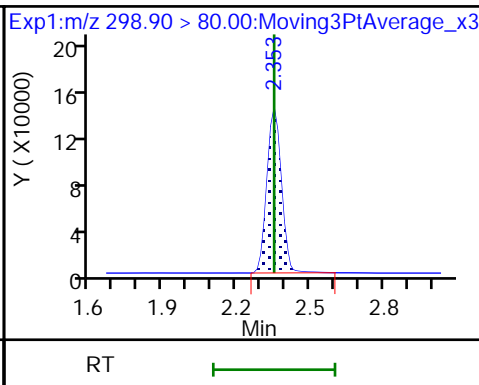
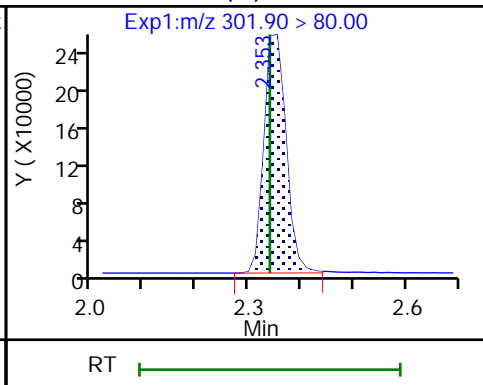
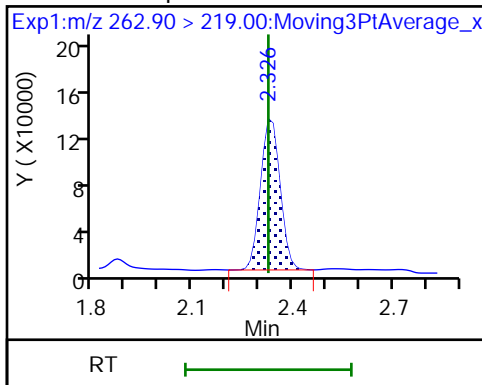
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS (M)

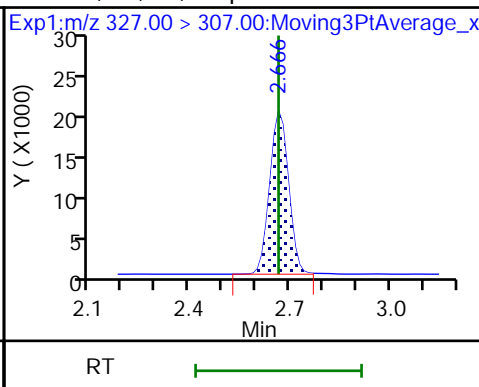
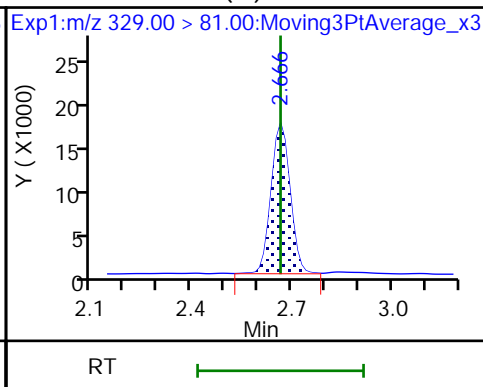
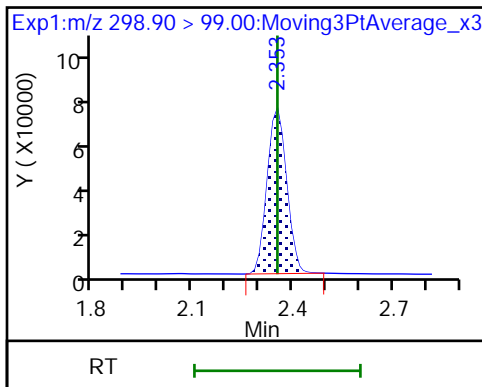
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

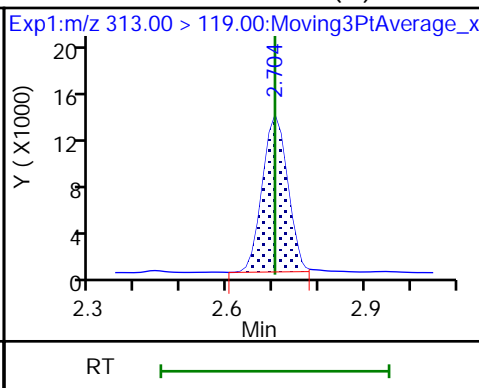
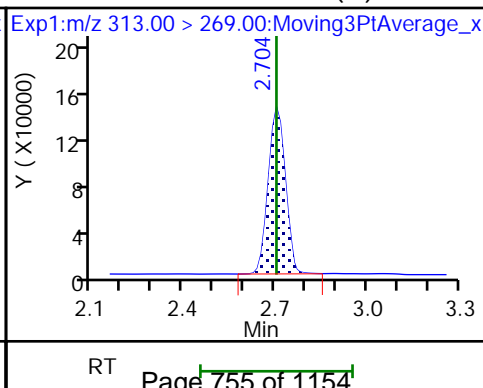
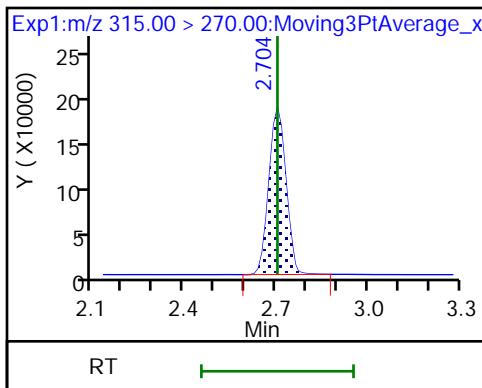
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



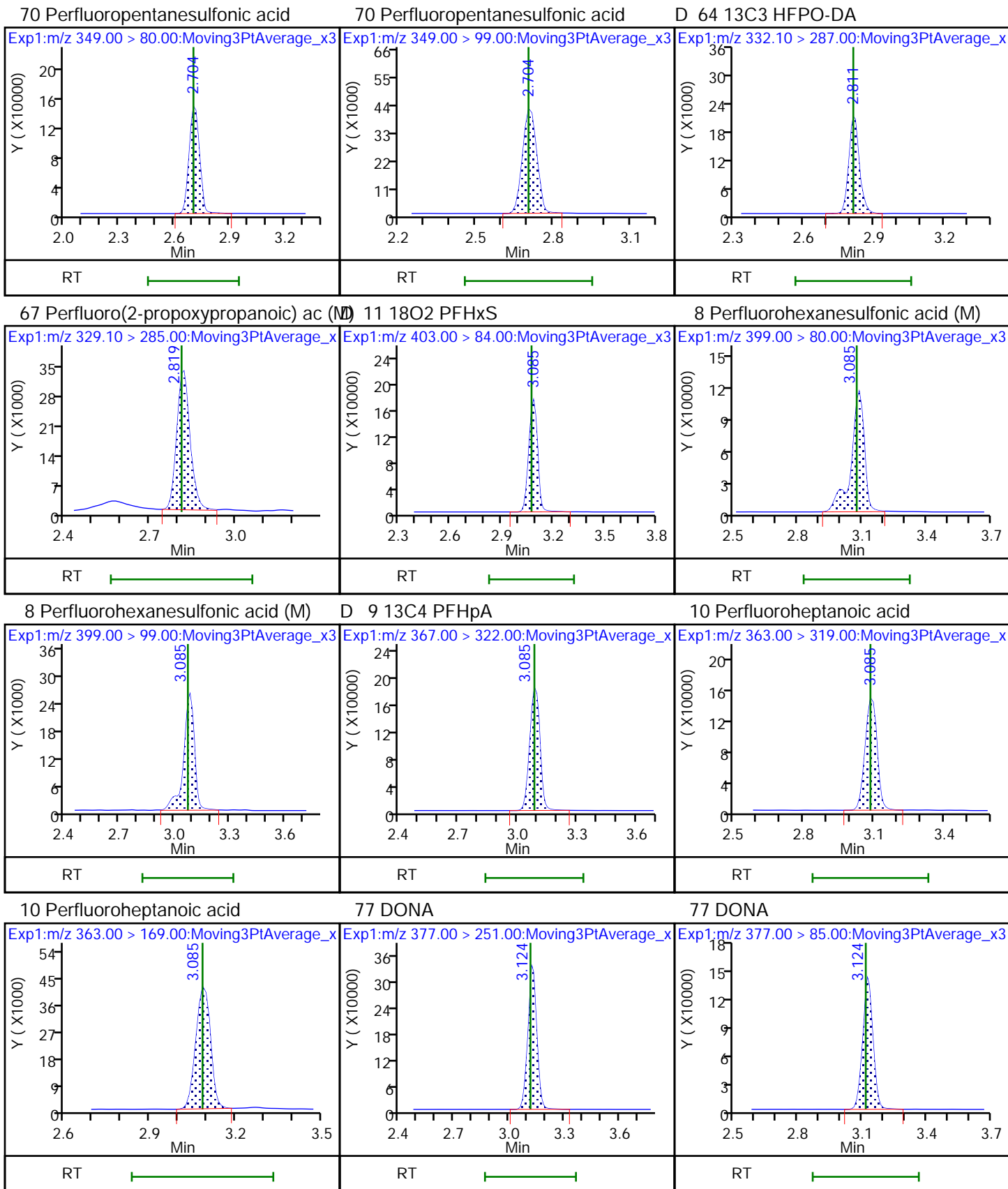
D 7 13C2 PFHxA

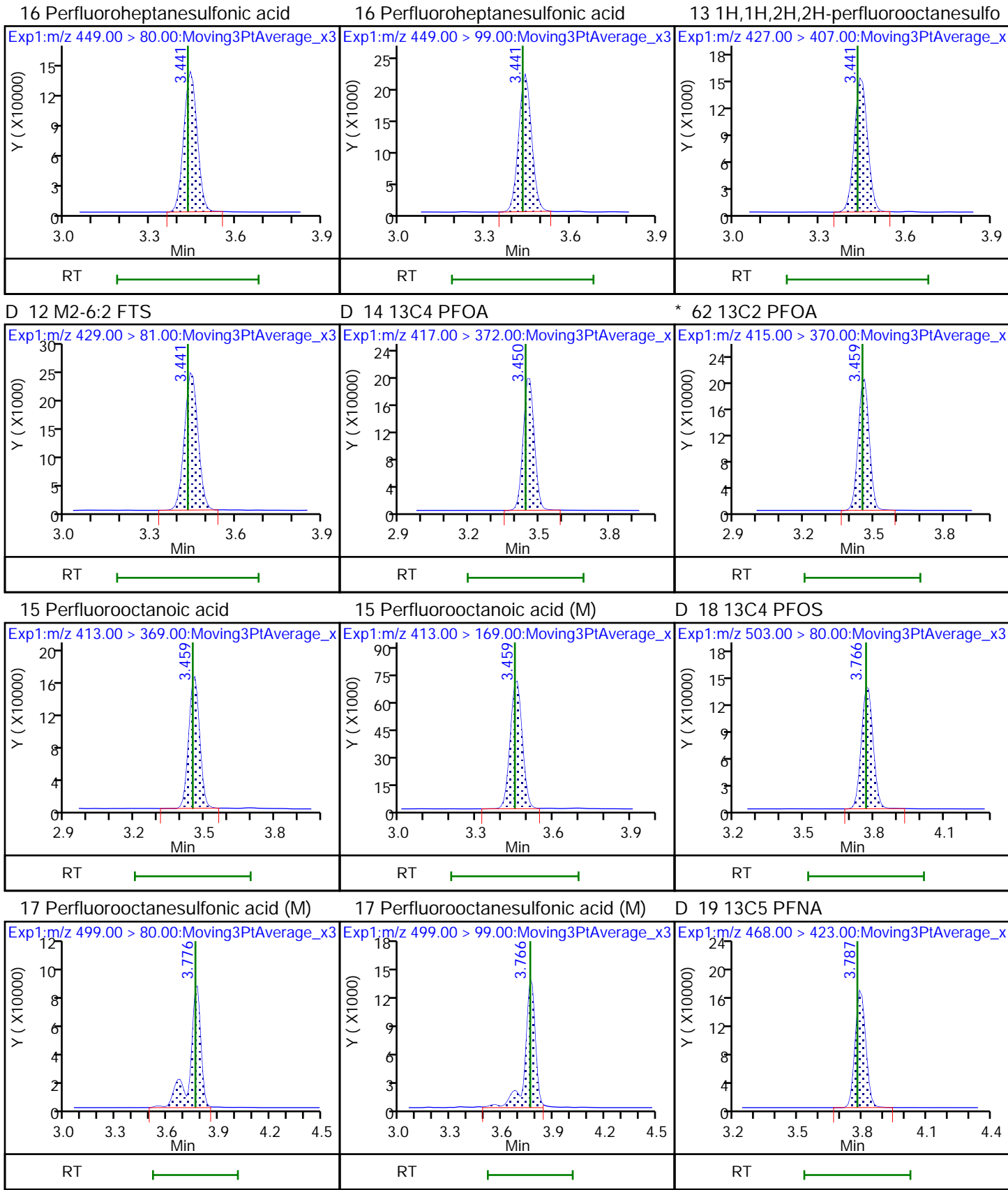
6 Perfluorohexanoic acid (M)

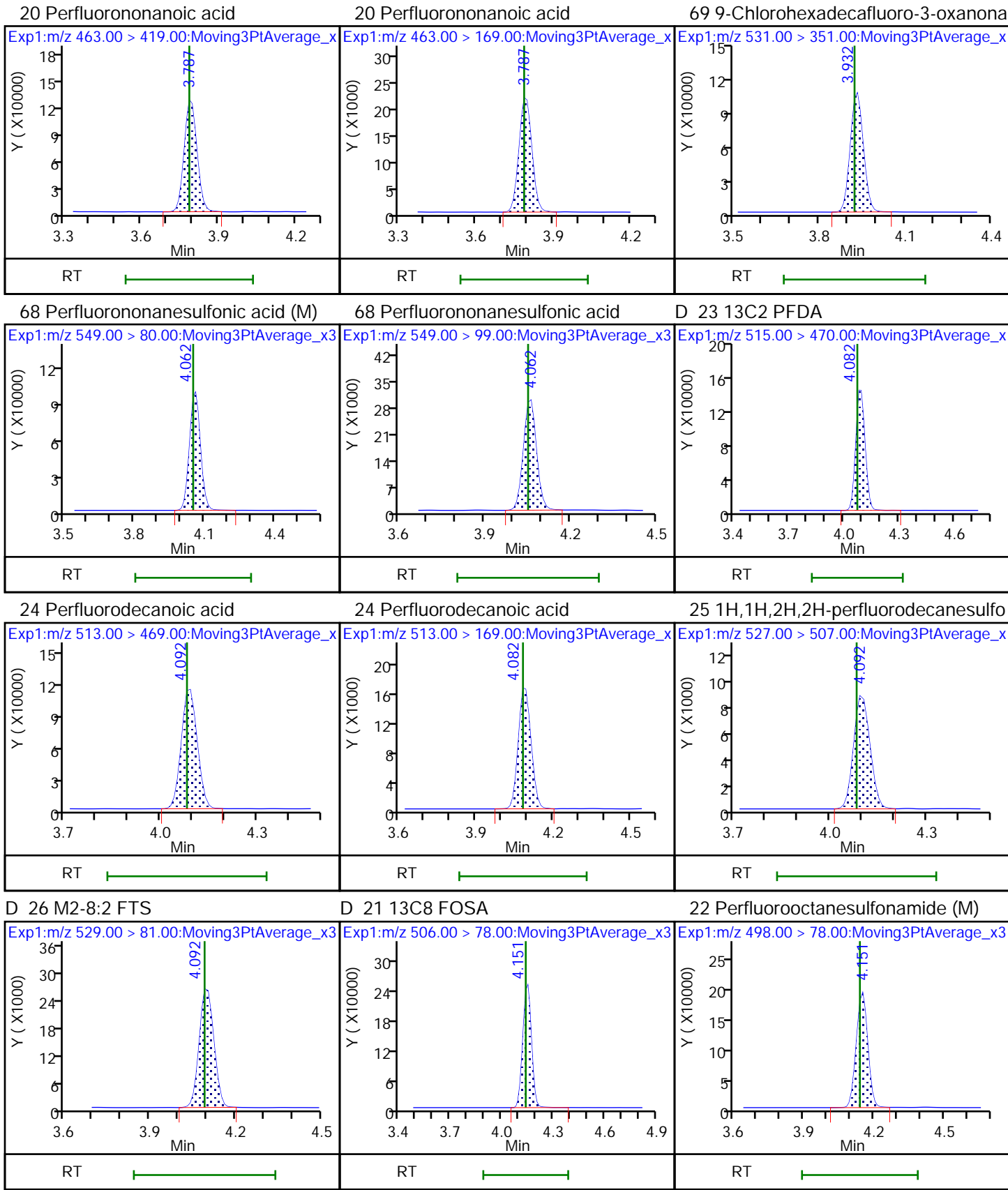
6 Perfluorohexanoic acid (M)





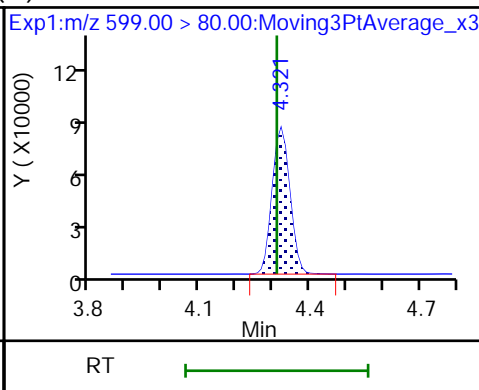
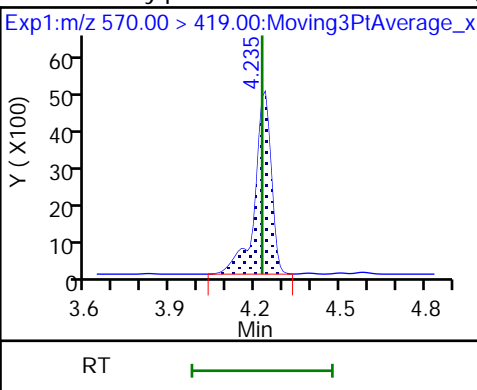
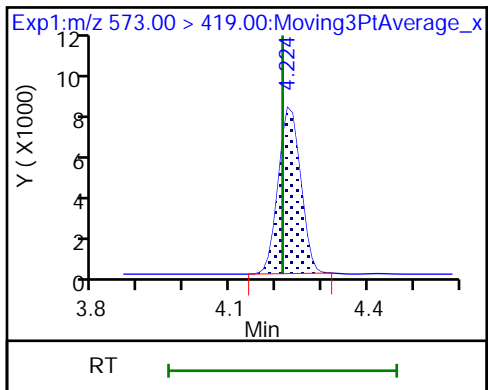






D 27 d3-NMeFOSAA

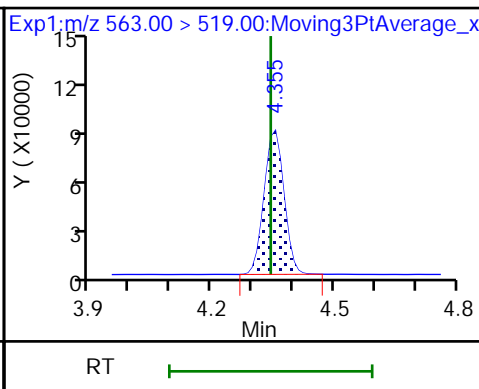
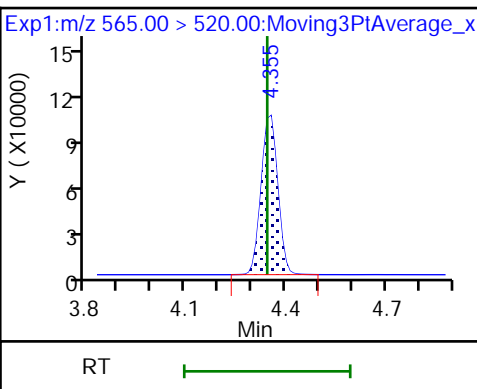
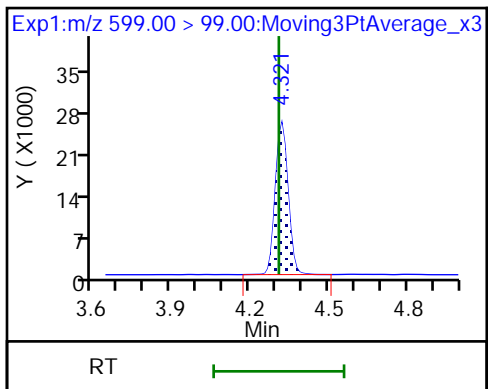
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

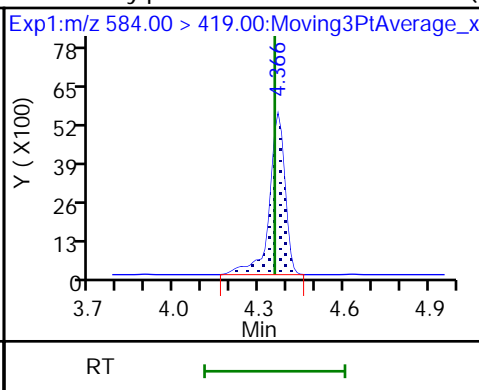
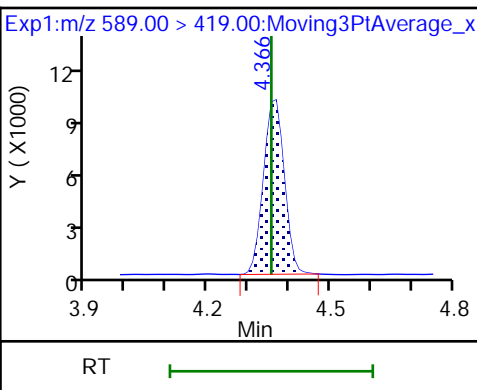
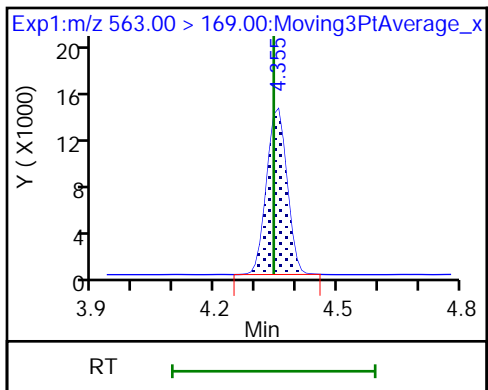
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

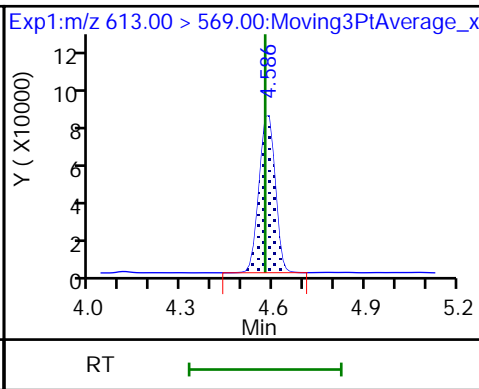
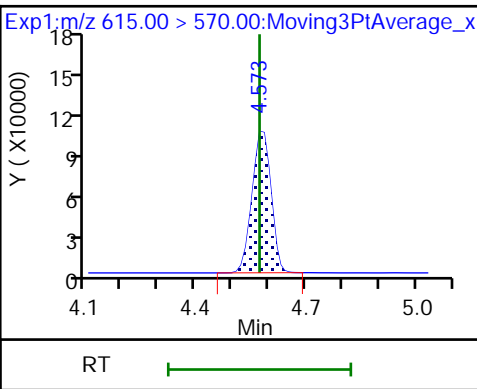
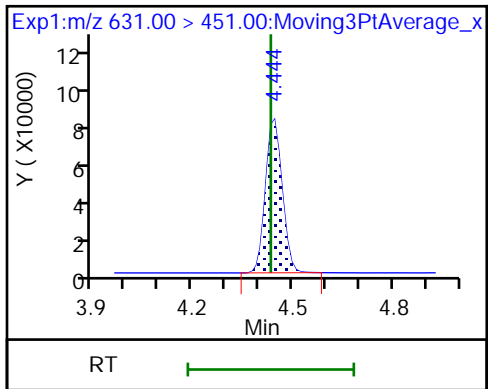
33 N-ethylperfluorooctanesulfonamid (M)

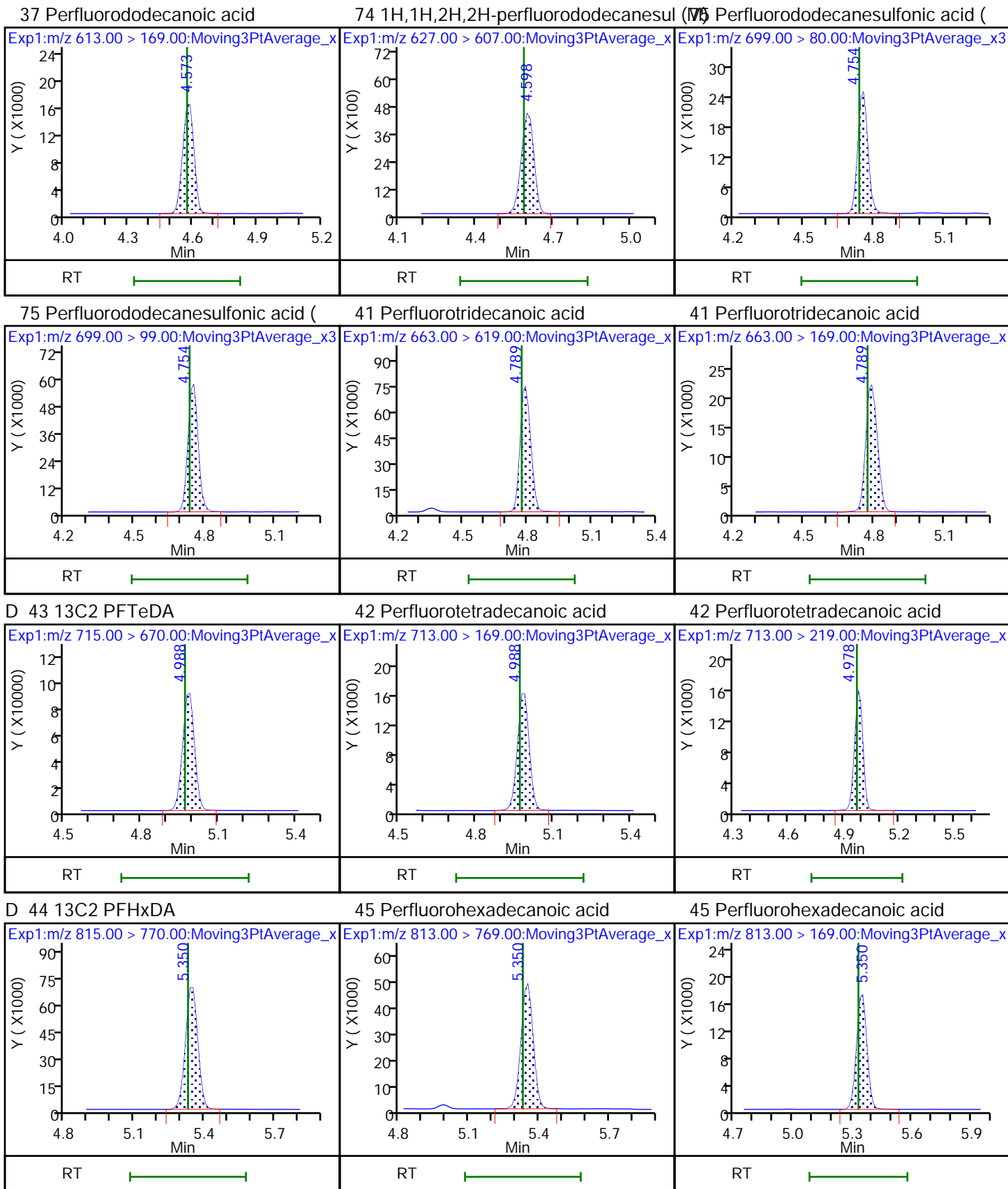


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

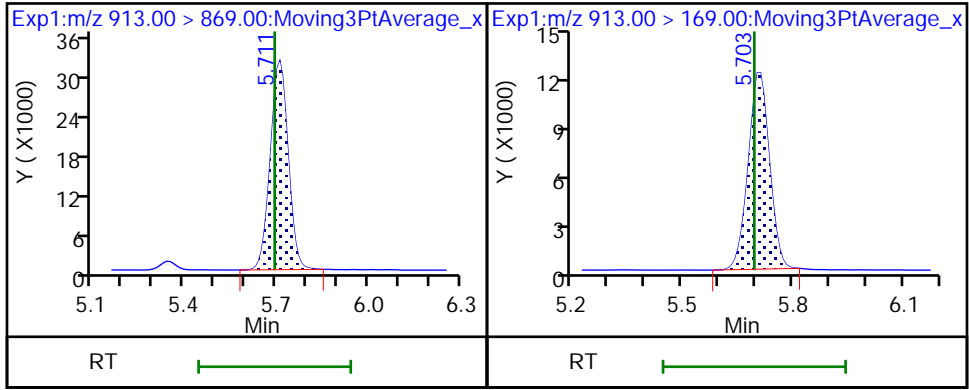
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

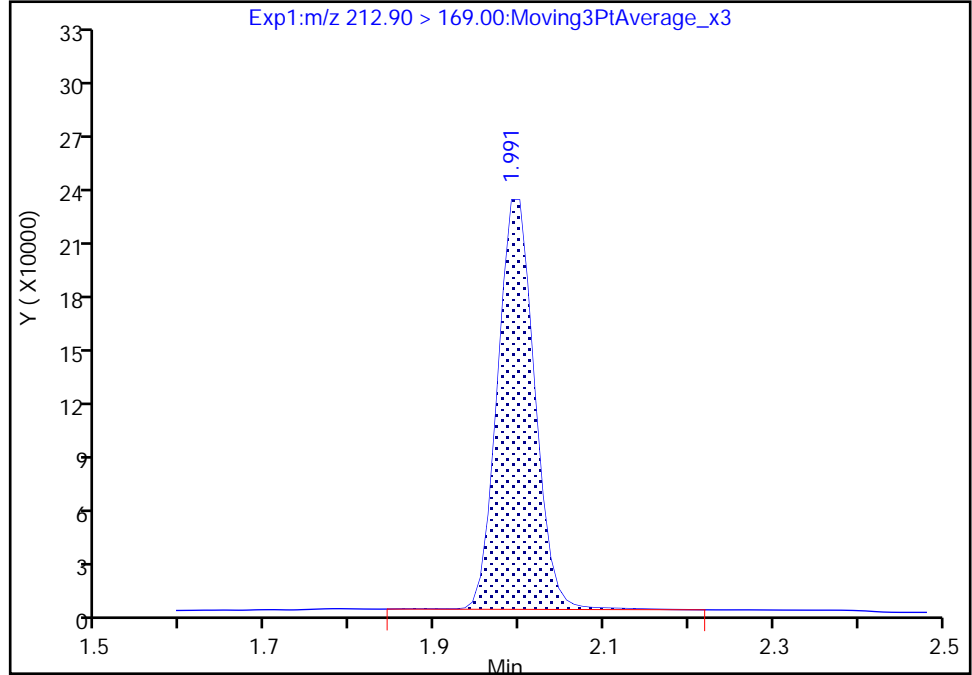
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

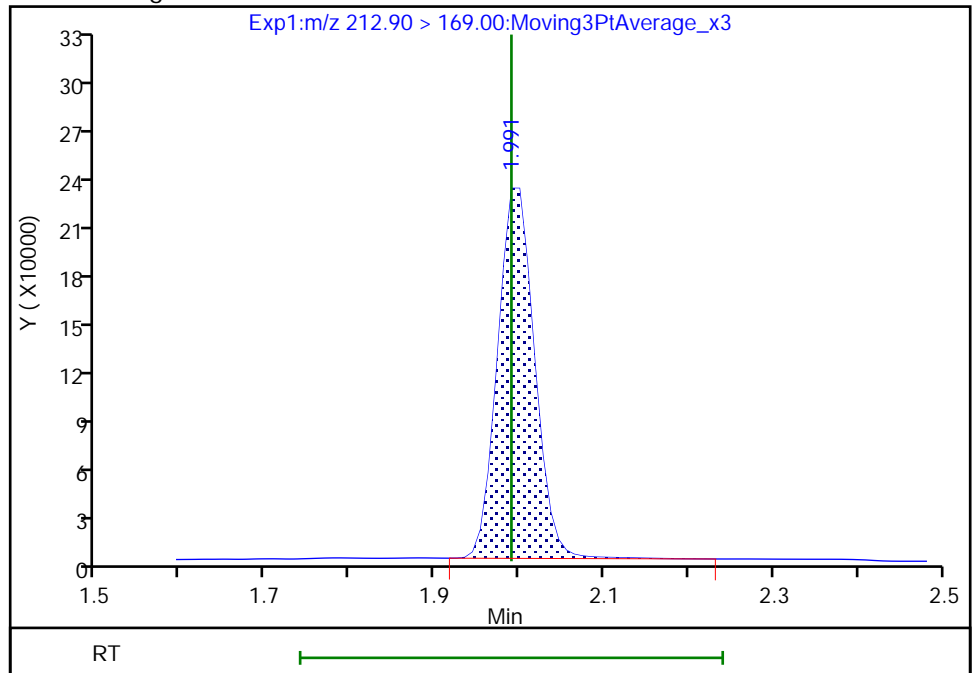
RT: 1.99  
Area: 684949  
Amount: 0.939342  
Amount Units: ng/ml

Processing Integration Results



RT: 1.99  
Area: 683298  
Amount: 0.937078  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:30:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

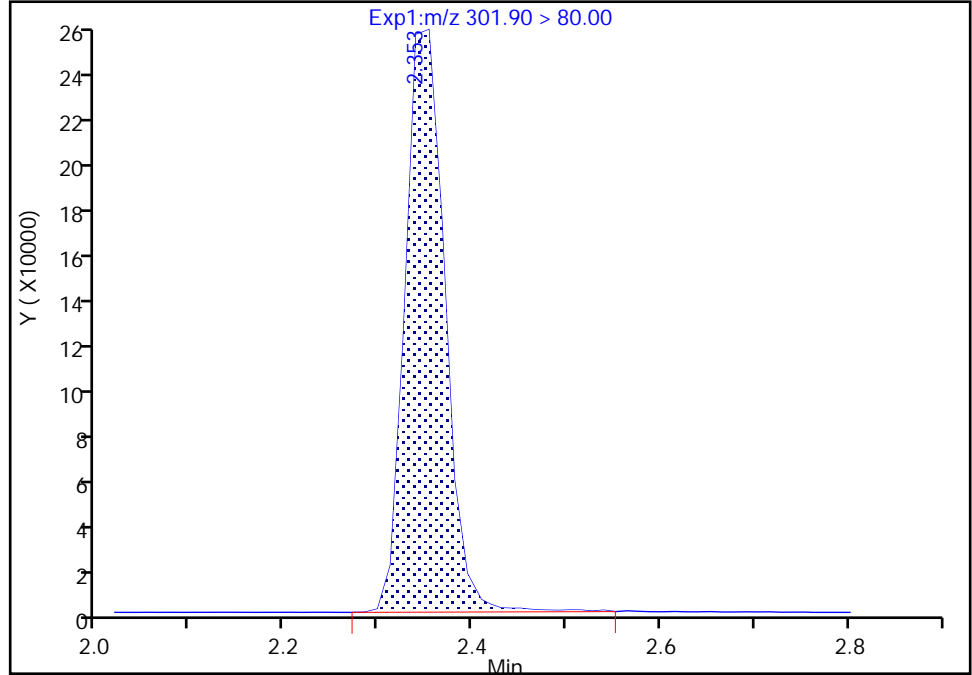
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

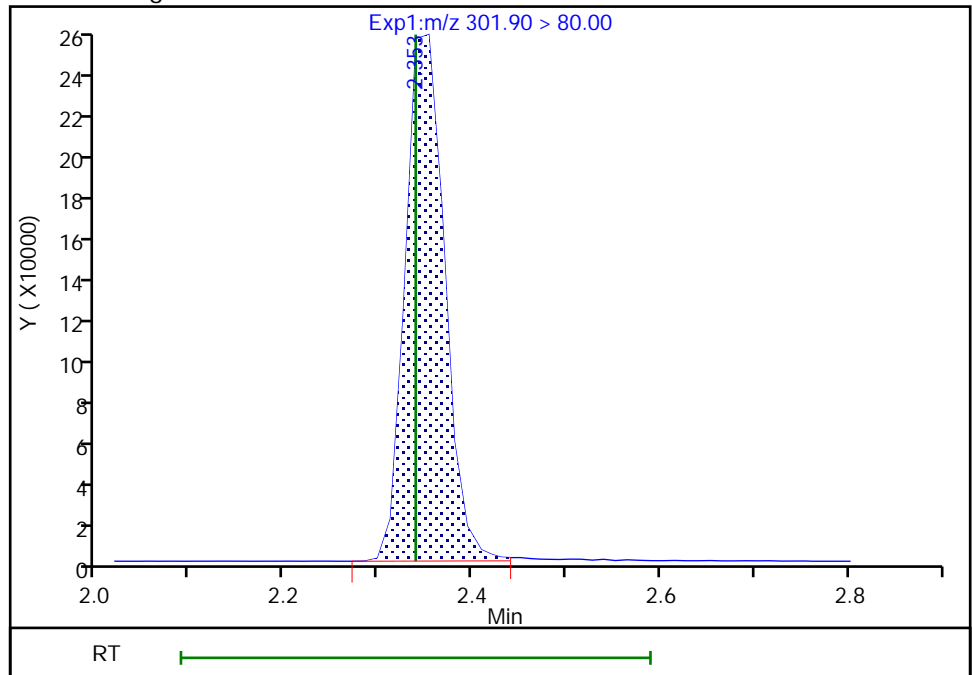
RT: 2.35  
Area: 751855  
Amount: 1.142845  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 746801  
Amount: 1.135163  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:29:49  
Audit Action: Manually Integrated

Audit Reason: Split Peak



Euofins TestAmerica, Burlington

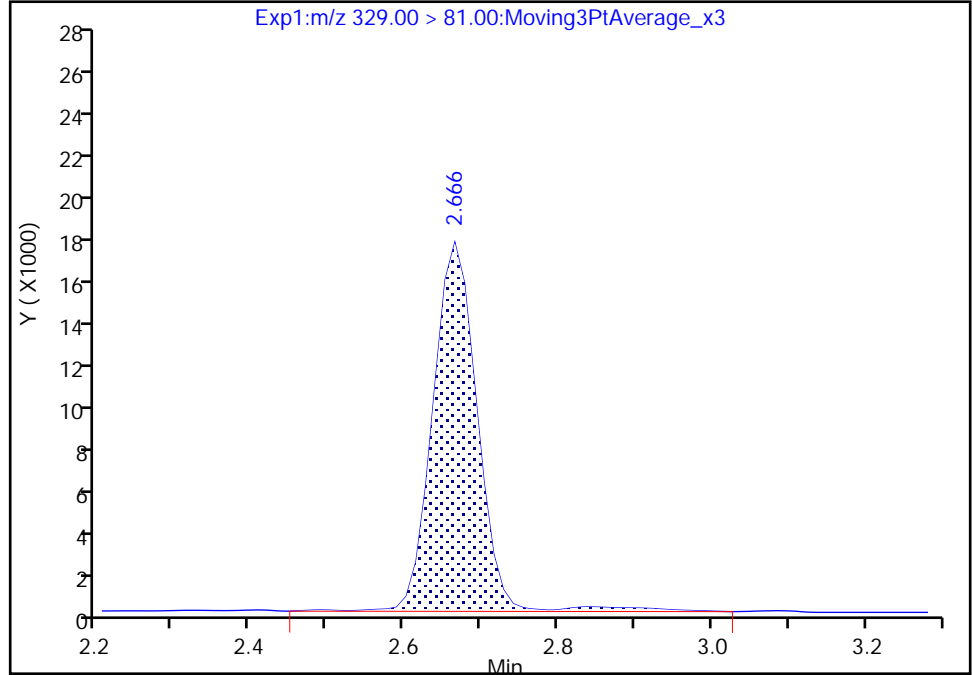
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

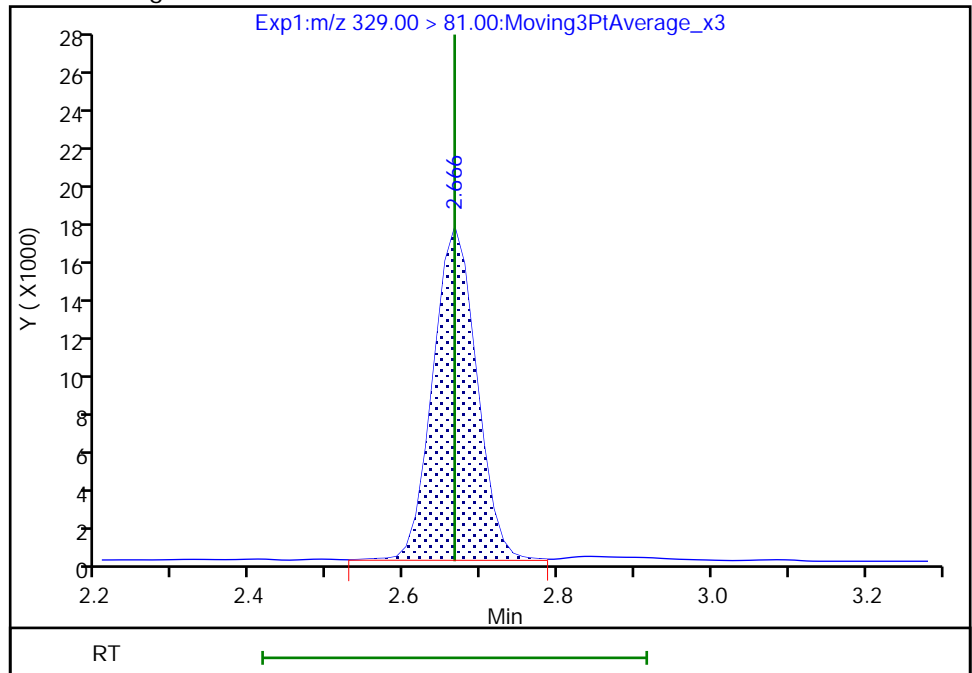
RT: 2.67  
Area: 69167  
Amount: 1.399677  
Amount Units: ng/ml

Processing Integration Results



RT: 2.67  
Area: 67370  
Amount: 1.363312  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:29:58  
Audit Action: Manually Integrated

Audit Reason: Split Peak

Eurofins TestAmerica, Burlington

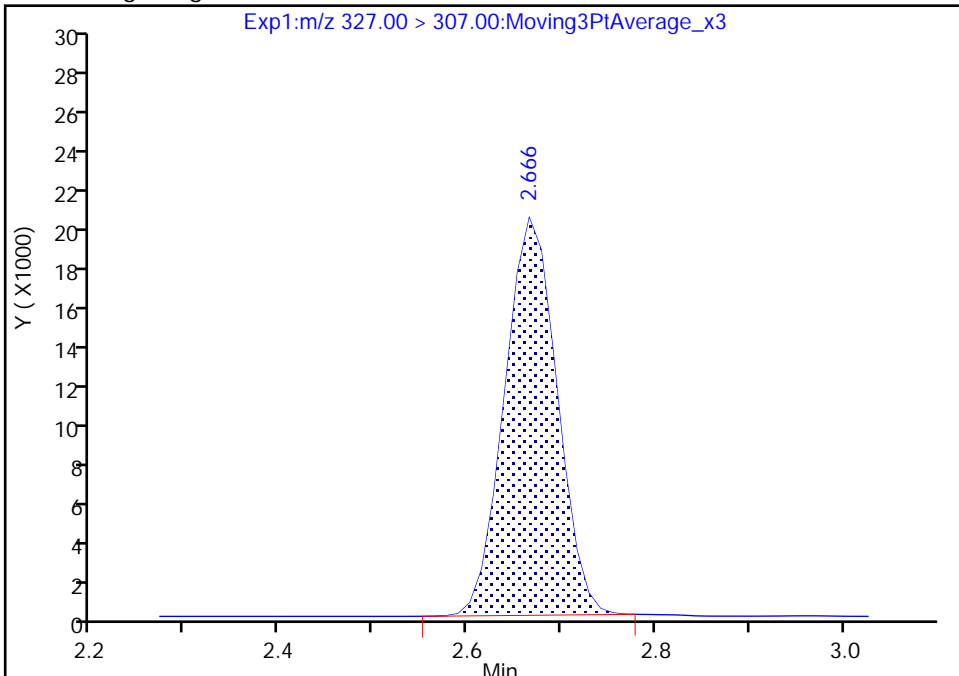
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

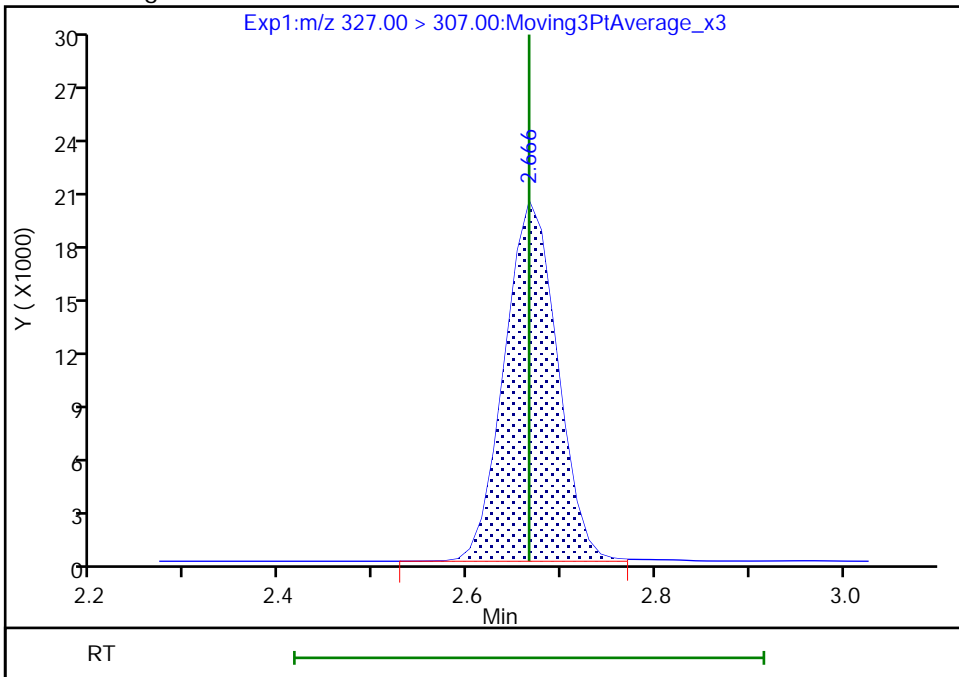
RT: 2.67  
Area: 77808  
Amount: 0.834340  
Amount Units: ng/ml

Processing Integration Results



RT: 2.67  
Area: 78480  
Amount: 0.841545  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:30:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

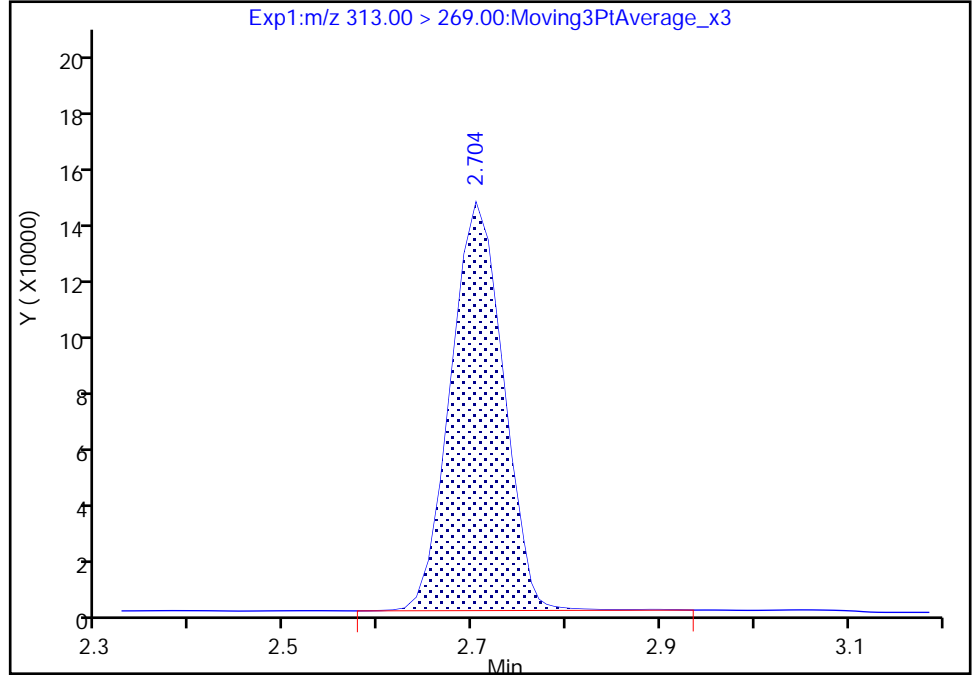
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

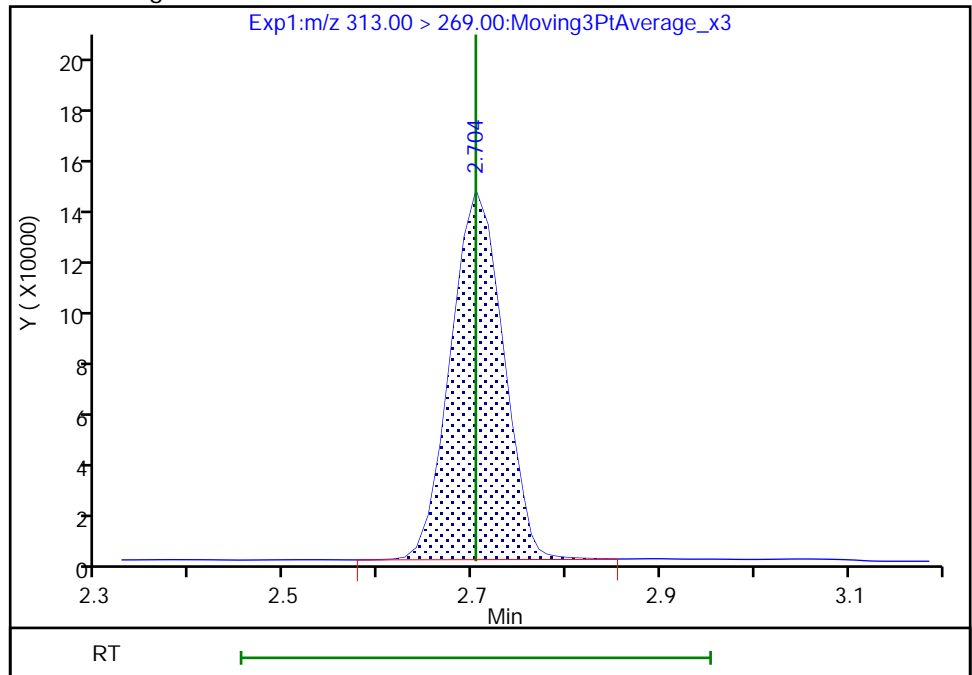
RT: 2.70  
Area: 559702  
Amount: 0.967247  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 559051  
Amount: 0.966122  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:30:57  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

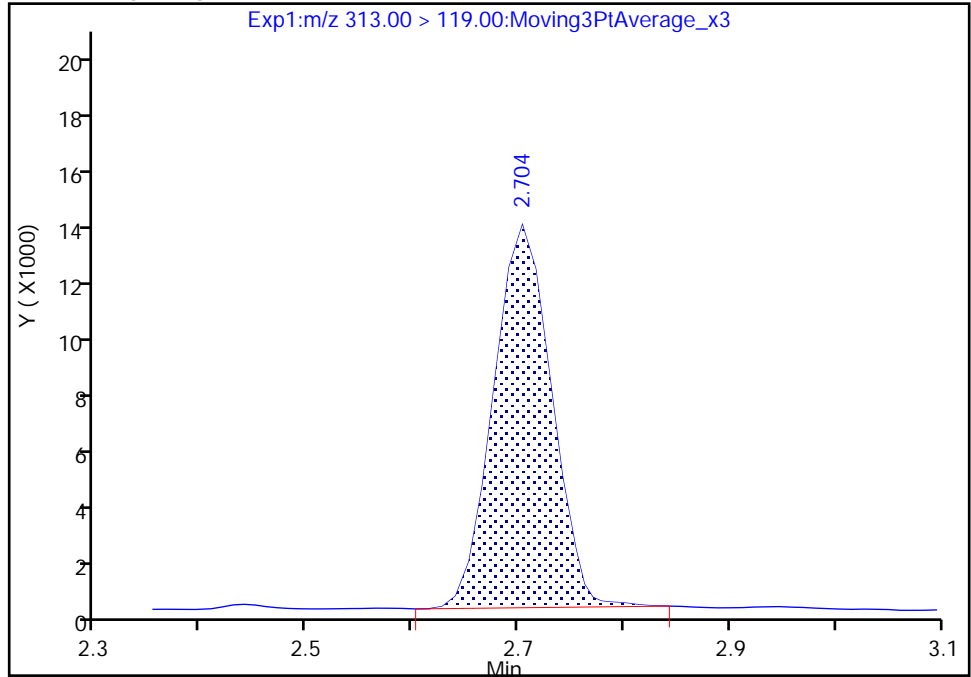
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

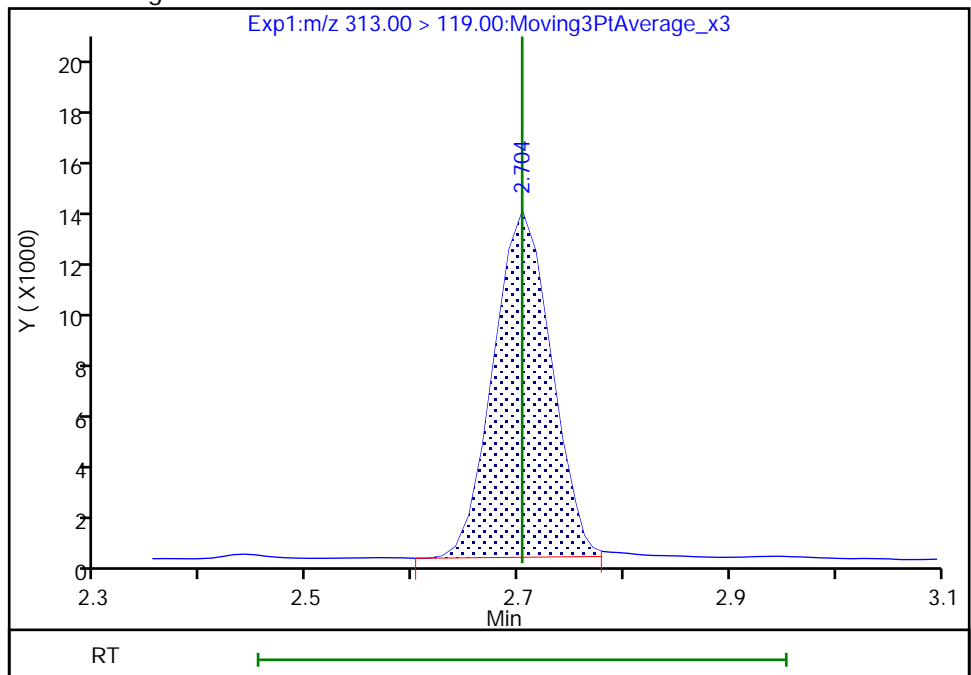
RT: 2.70  
Area: 50297  
Amount: 0.967247  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 49979  
Amount: 0.966122  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:30:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

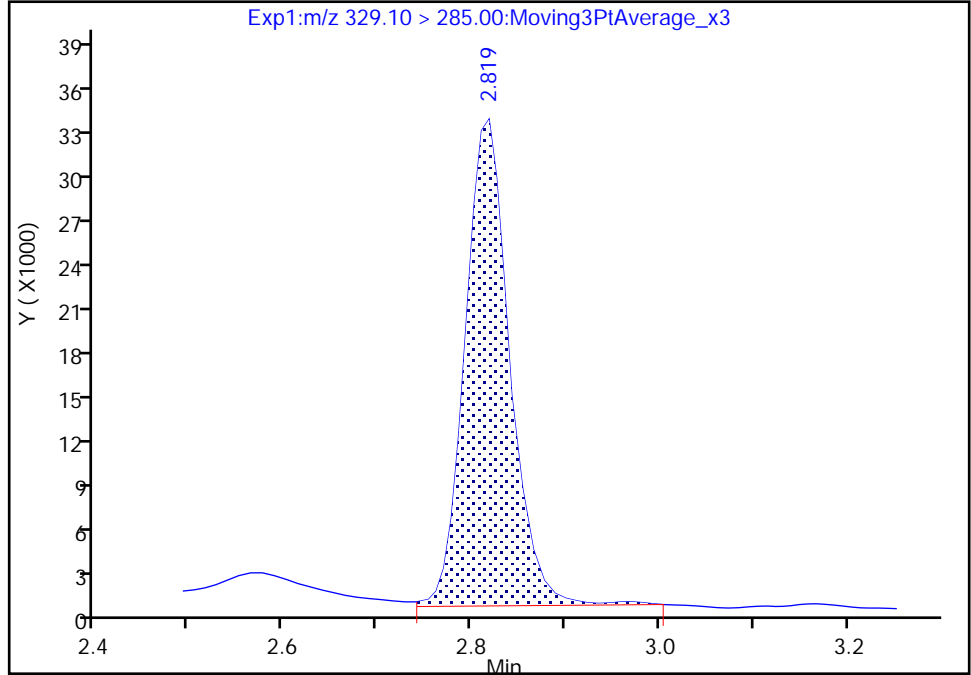
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

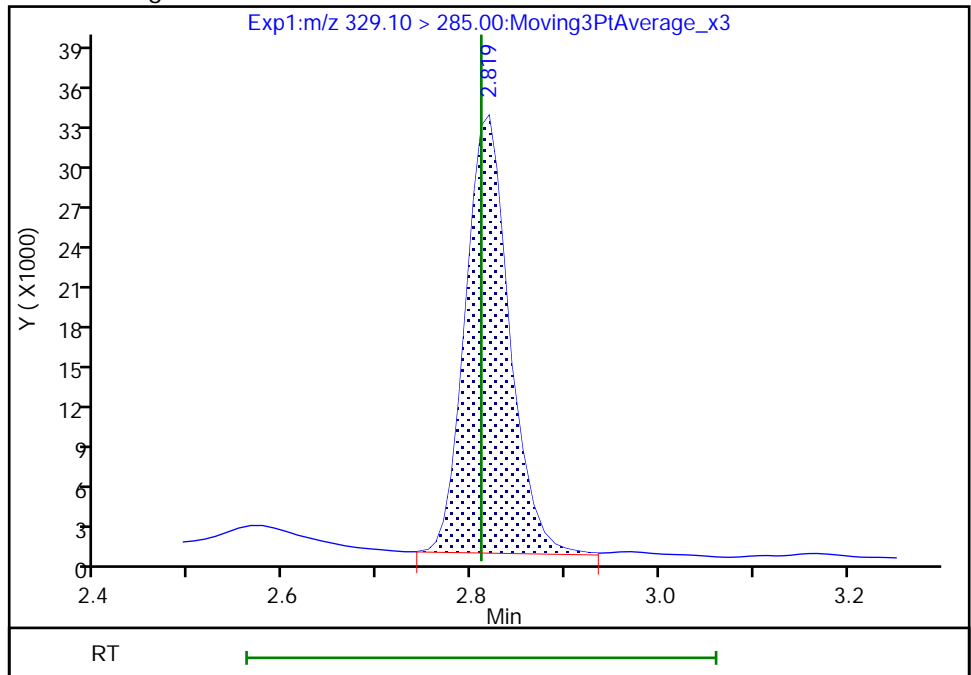
RT: 2.82  
Area: 108109  
Amount: 0.977490  
Amount Units: ng/ml

Processing Integration Results



RT: 2.82  
Area: 105987  
Amount: 0.958303  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:31:22  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

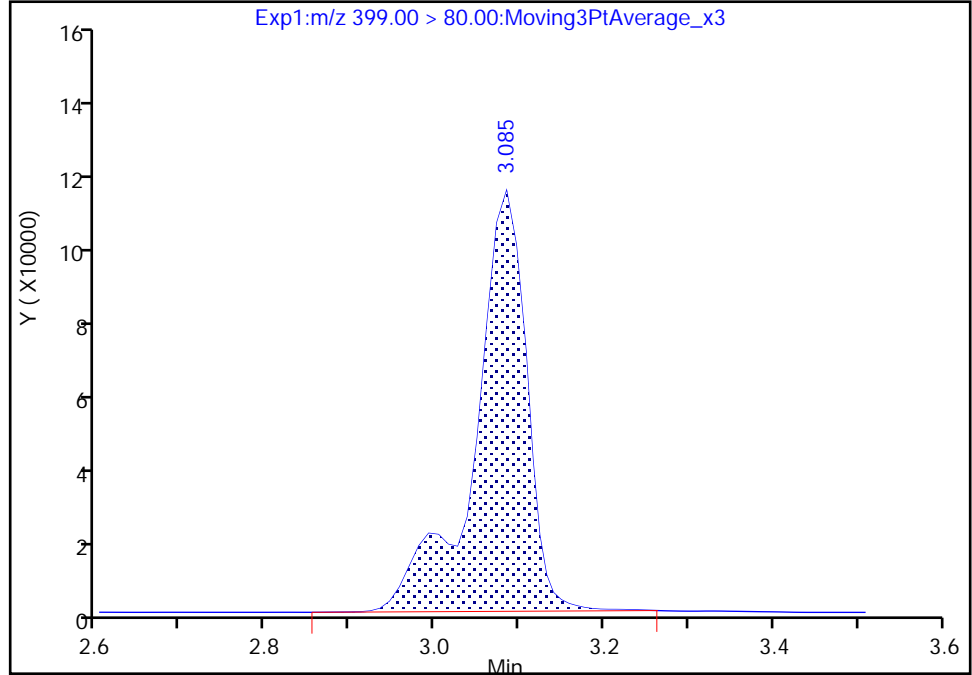
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

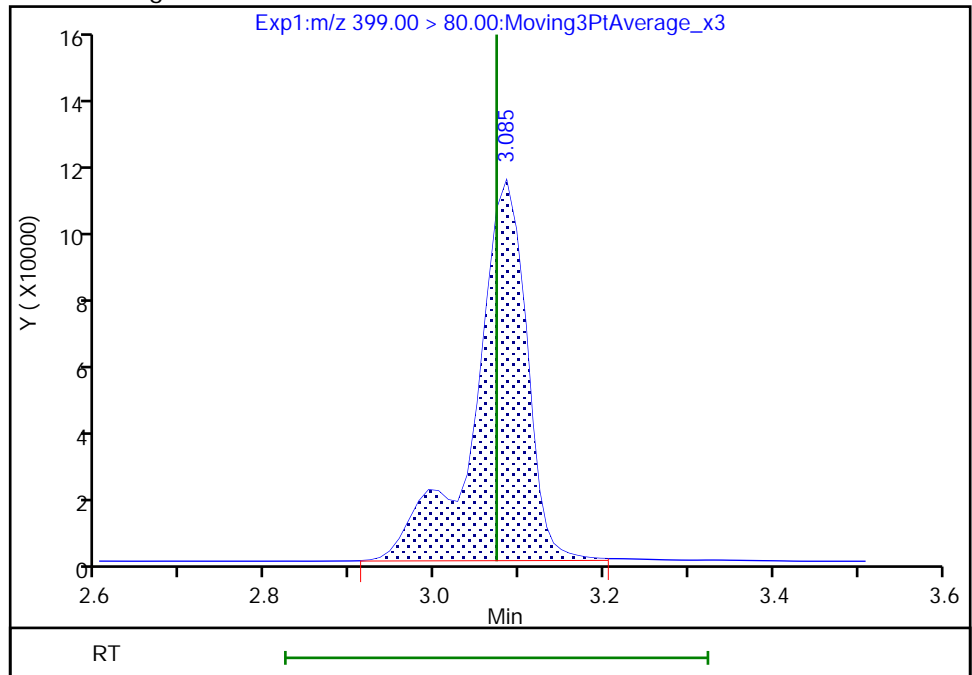
RT: 3.08  
Area: 475570  
Amount: 0.844065  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 476436  
Amount: 0.845602  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:31:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

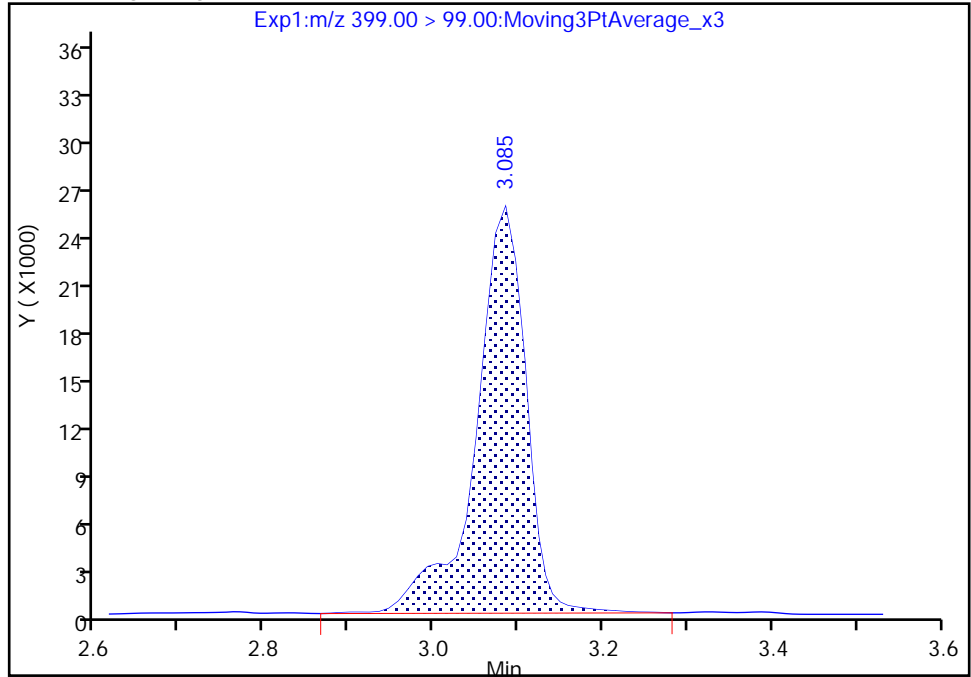
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

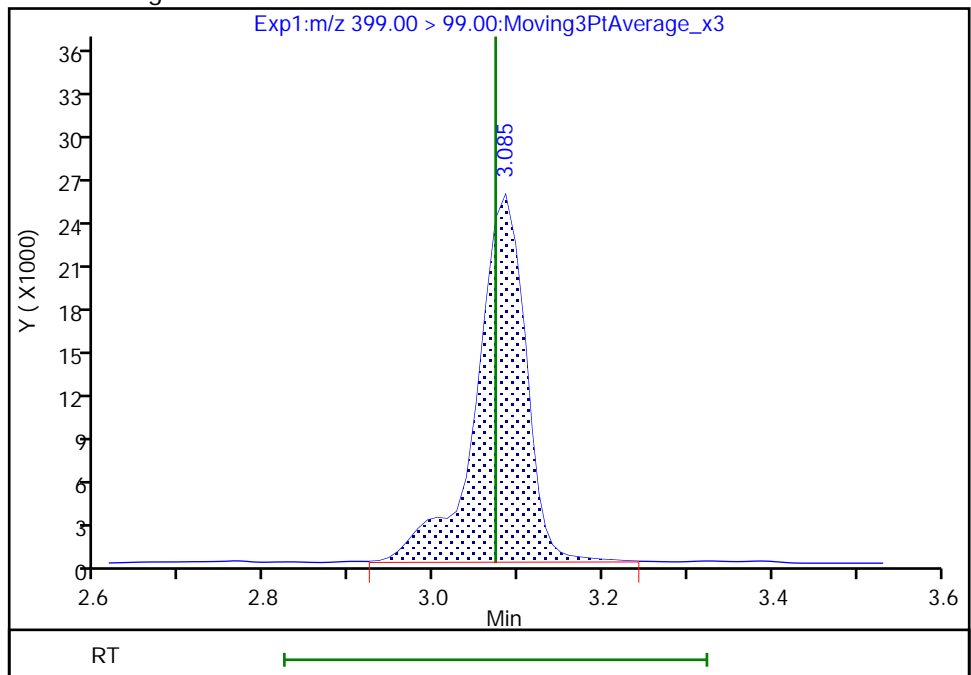
RT: 3.08  
Area: 105169  
Amount: 0.844065  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 104950  
Amount: 0.845602  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:31:43

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

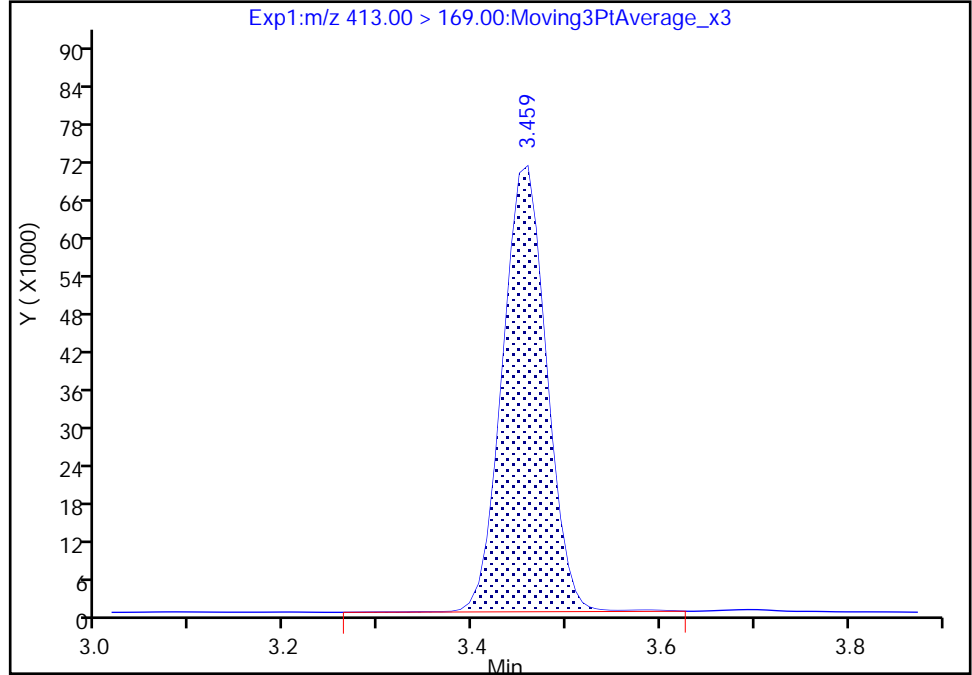
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

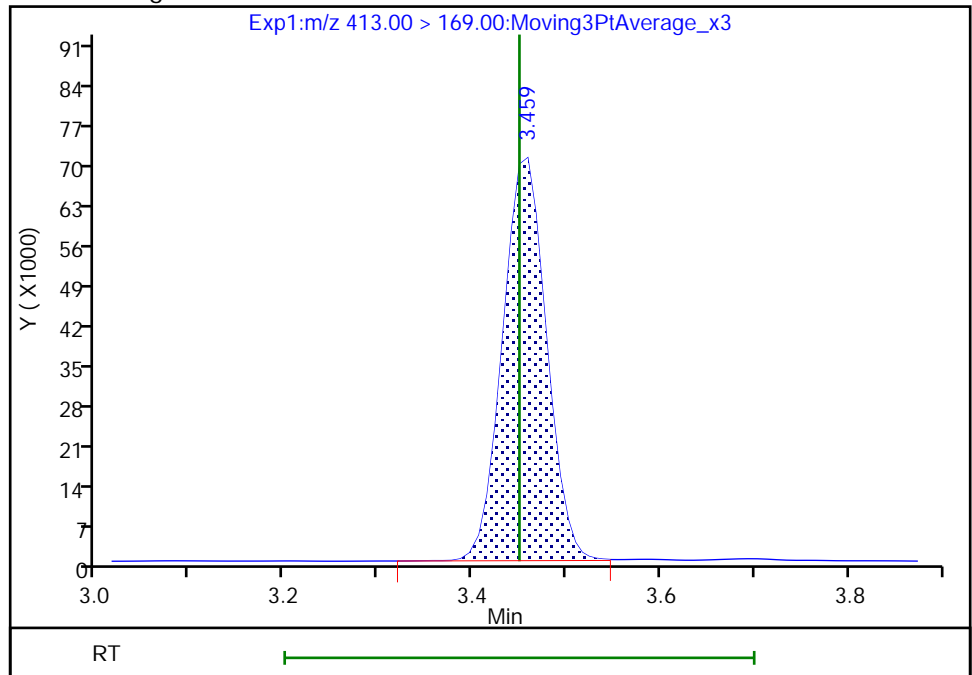
RT: 3.46  
Area: 228784  
Amount: 0.981606  
Amount Units: ng/ml

Processing Integration Results



RT: 3.46  
Area: 228042  
Amount: 0.981606  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:32:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

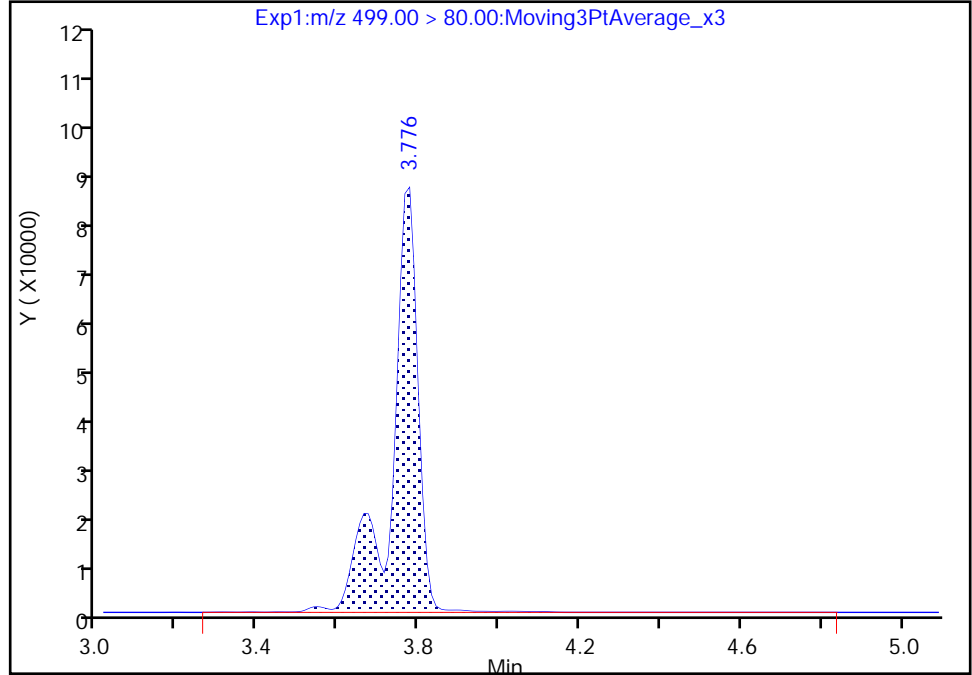
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

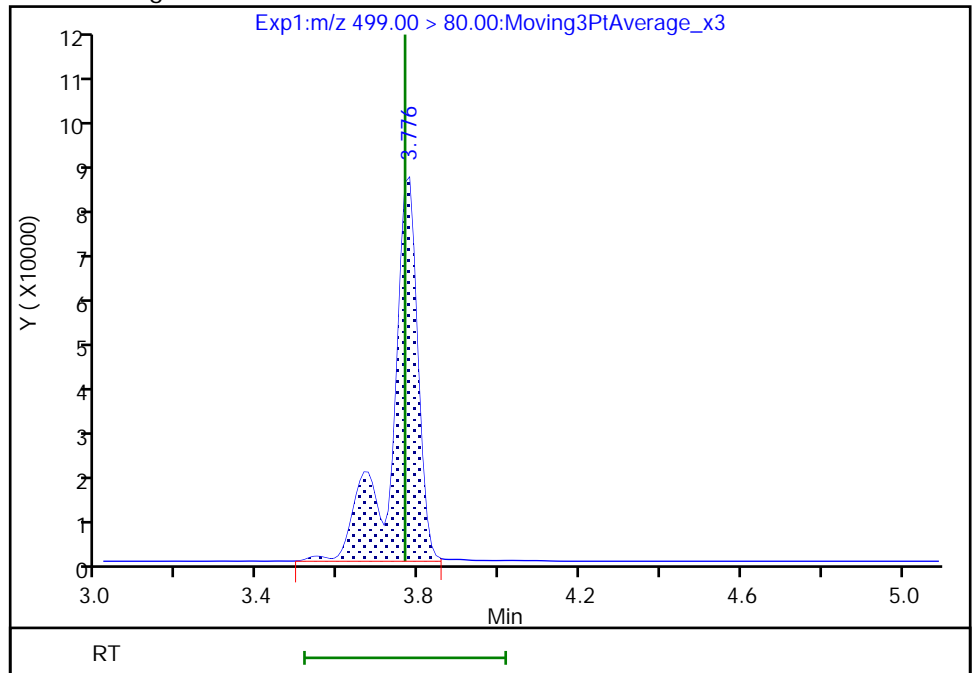
RT: 3.78  
Area: 373829  
Amount: 0.863266  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 370044  
Amount: 0.854525  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:33:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

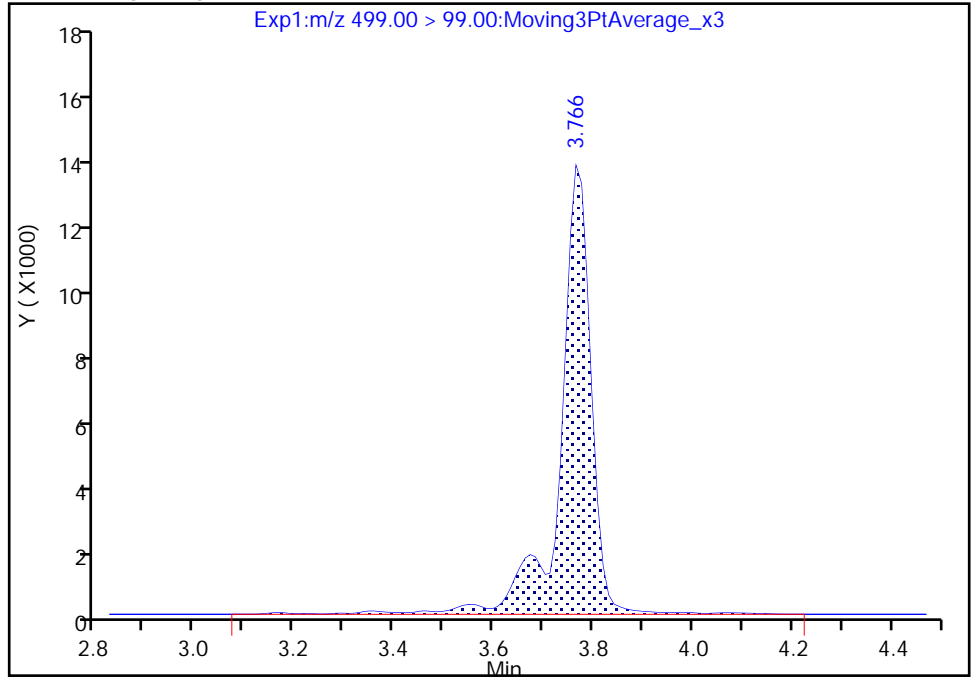
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

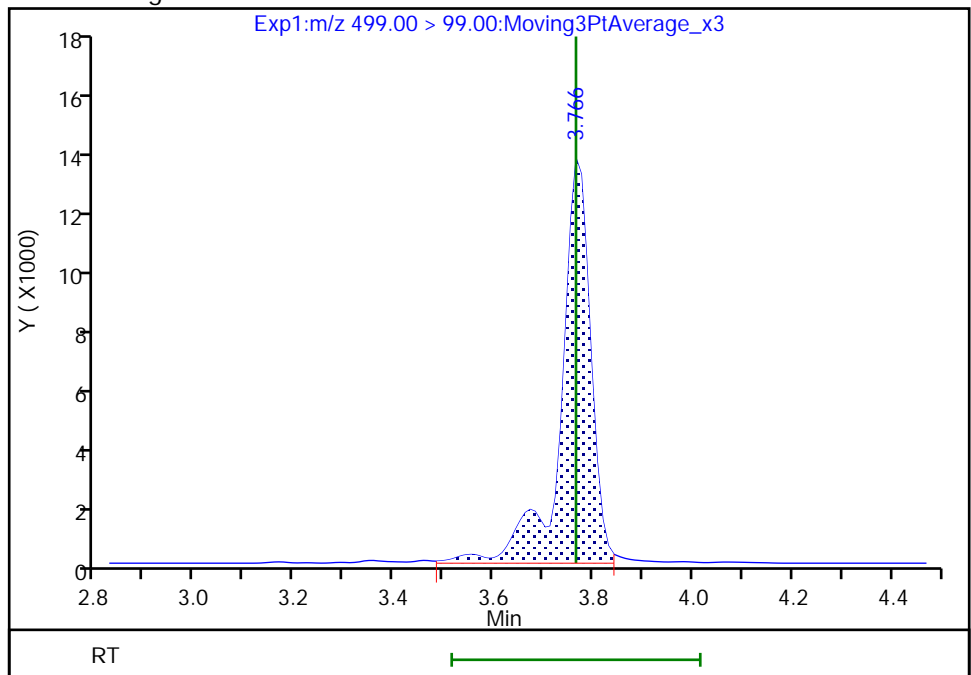
RT: 3.77  
Area: 57687  
Amount: 0.863266  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 55778  
Amount: 0.854525  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:33:06

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

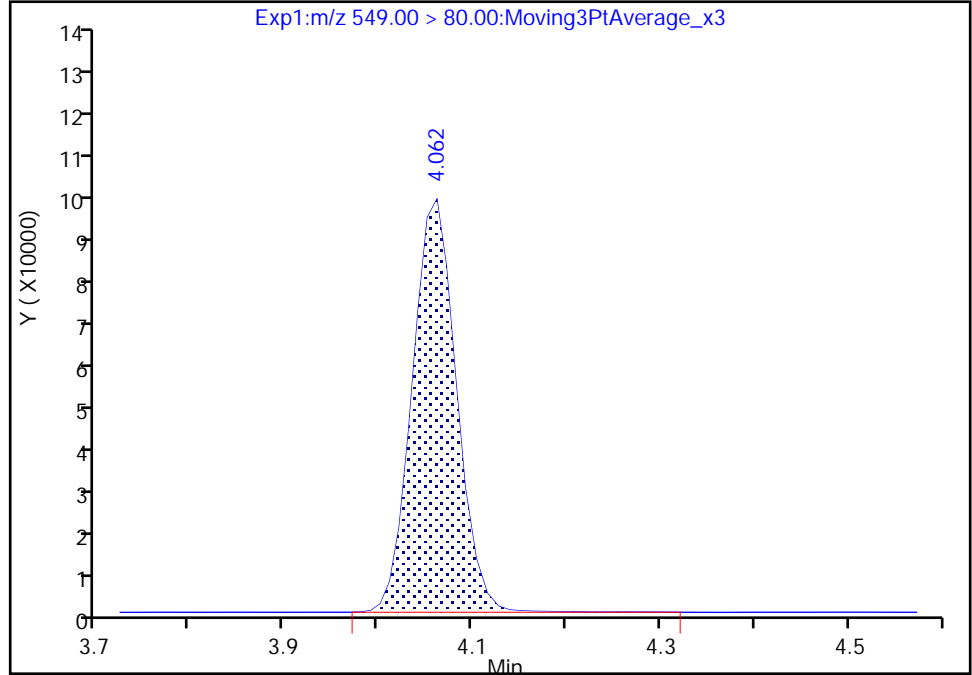
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

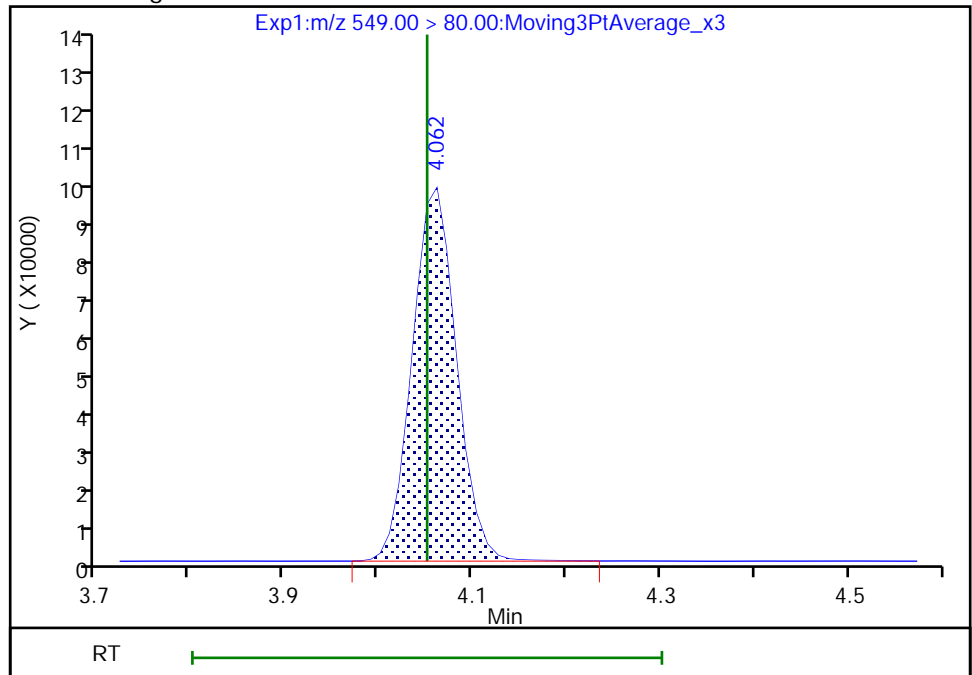
RT: 4.06  
Area: 307439  
Amount: 0.898348  
Amount Units: ng/ml

Processing Integration Results



RT: 4.06  
Area: 307288  
Amount: 0.897907  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:33:21  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

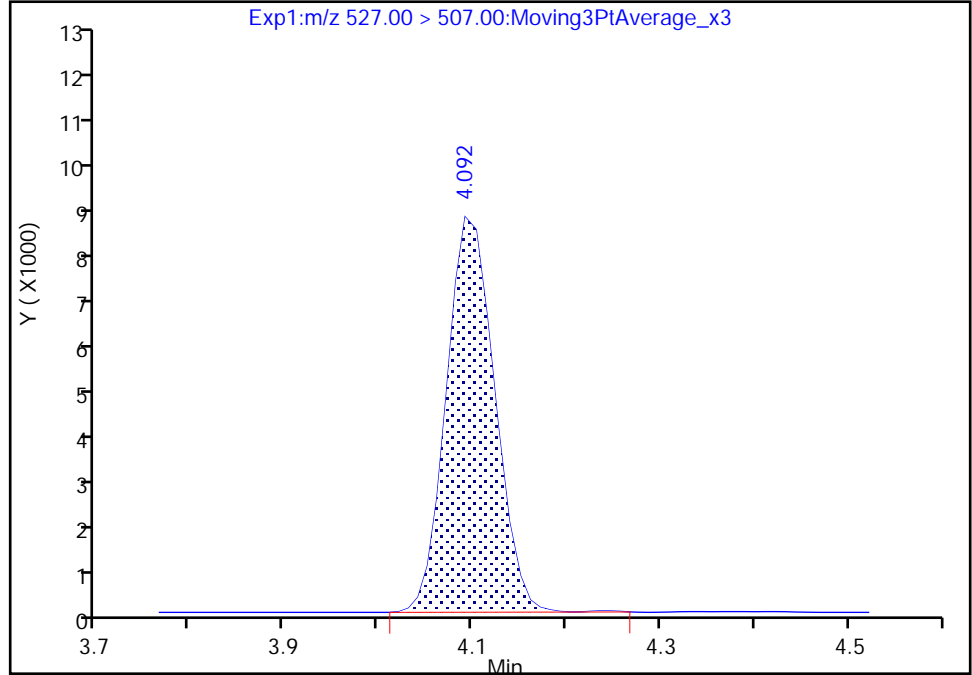
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

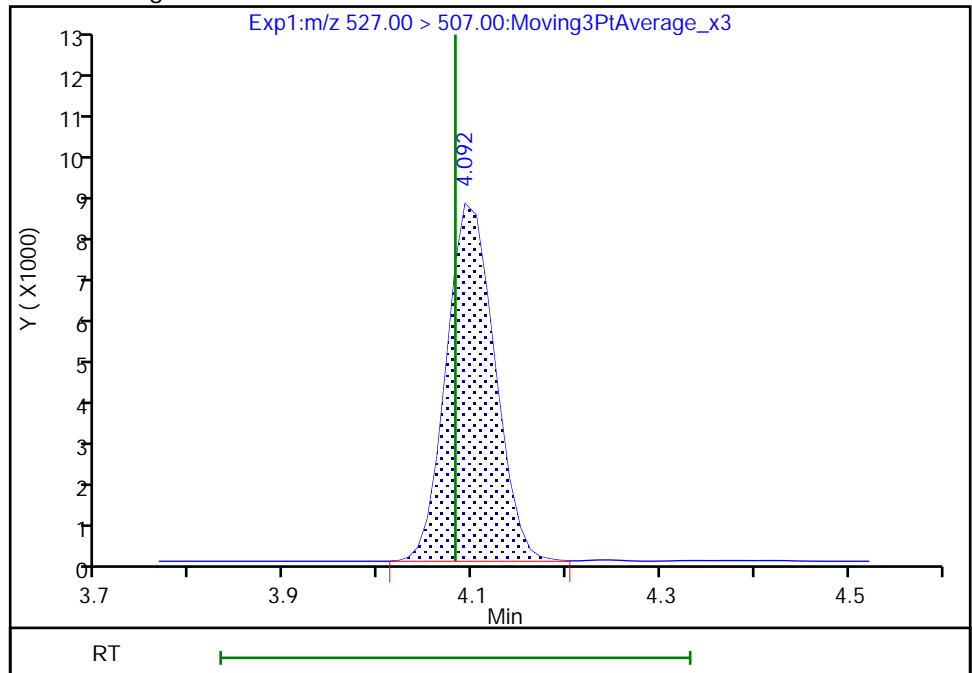
RT: 4.09  
Area: 29398  
Amount: 0.964634  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 29390  
Amount: 0.964371  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:33:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

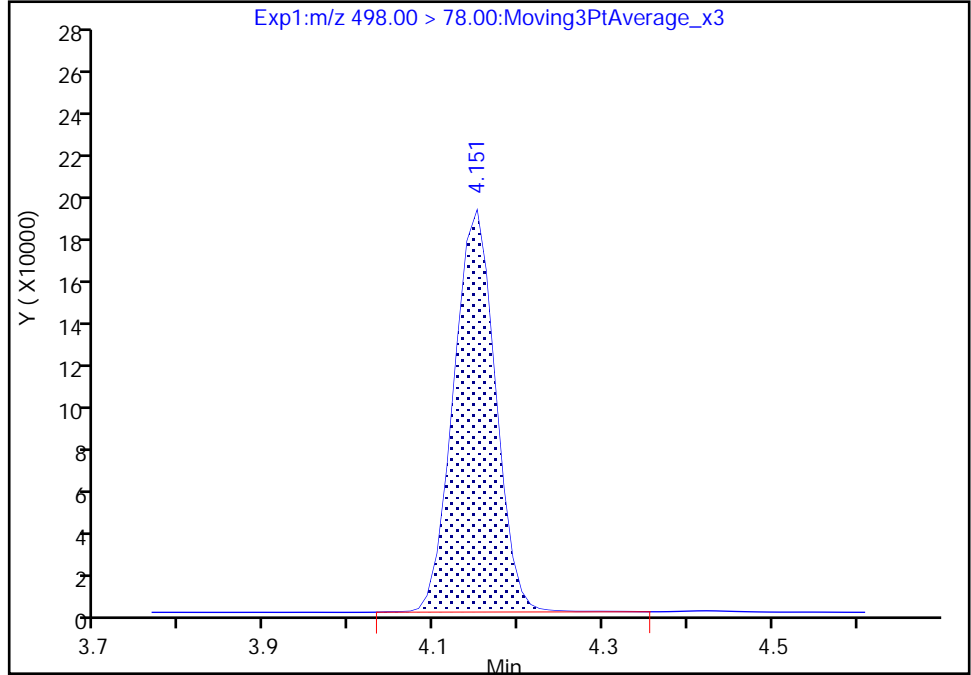
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

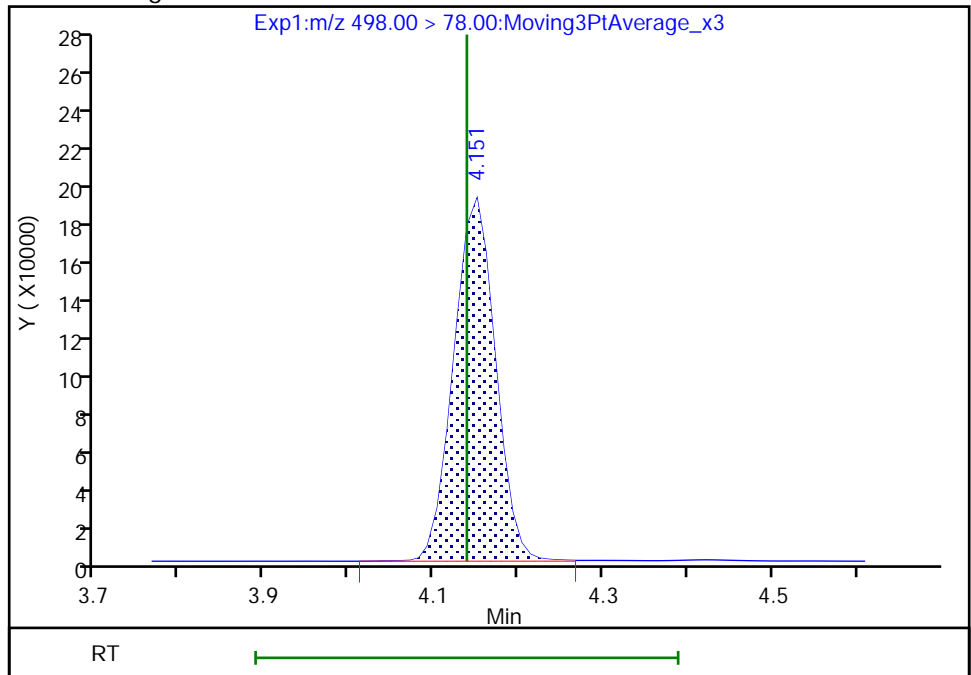
RT: 4.15  
Area: 657535  
Amount: 1.025981  
Amount Units: ng/ml

Processing Integration Results



RT: 4.15  
Area: 658473  
Amount: 1.027444  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:33:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

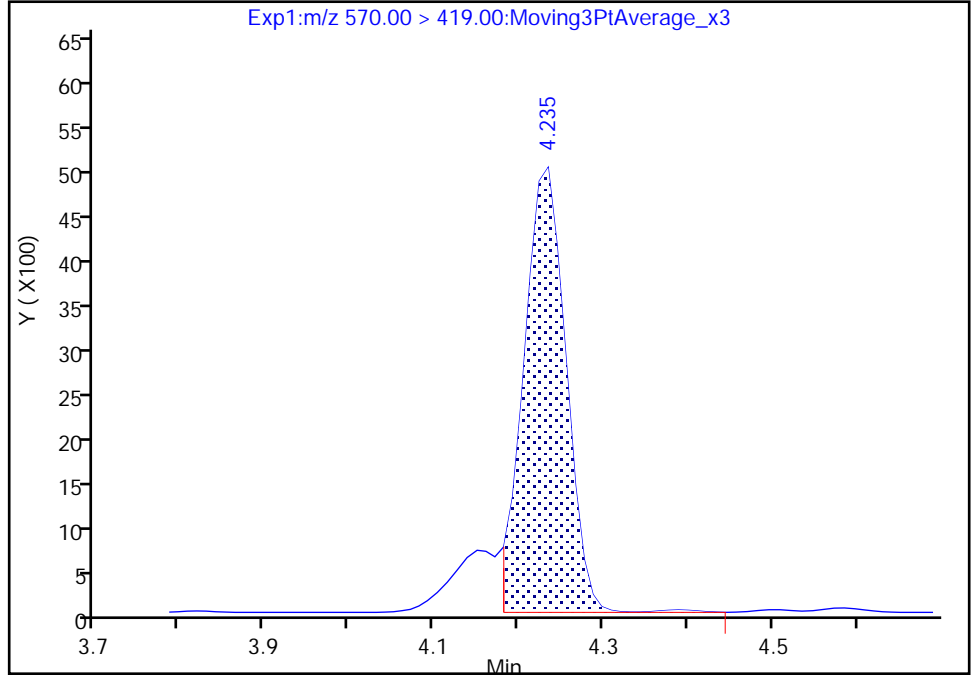
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

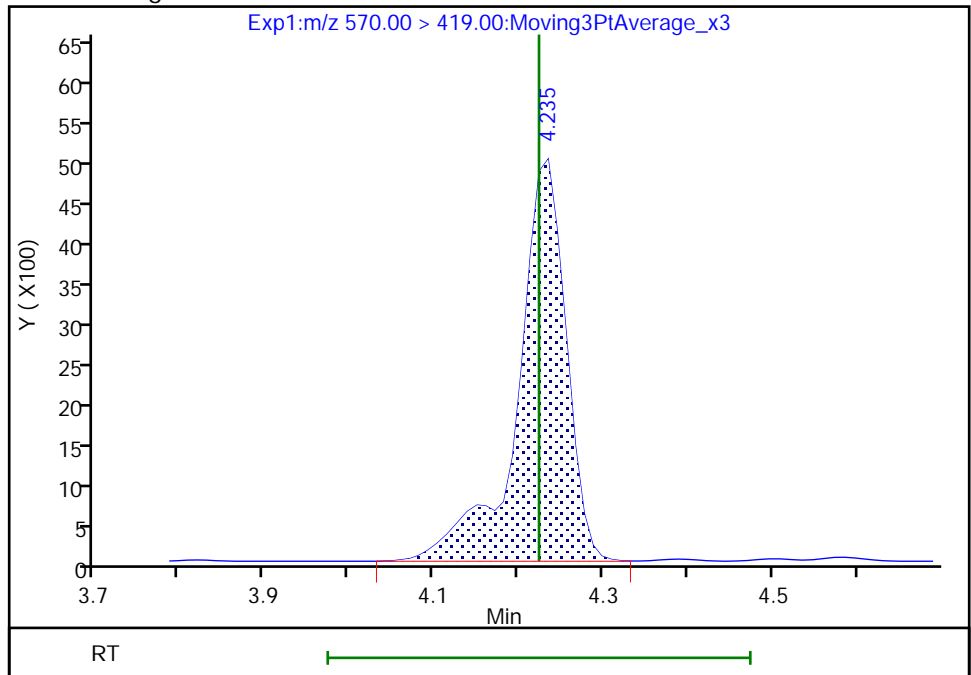
RT: 4.23  
Area: 17355  
Amount: 0.864356  
Amount Units: ng/ml

Processing Integration Results



RT: 4.23  
Area: 20152  
Amount: 1.003659  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:34:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

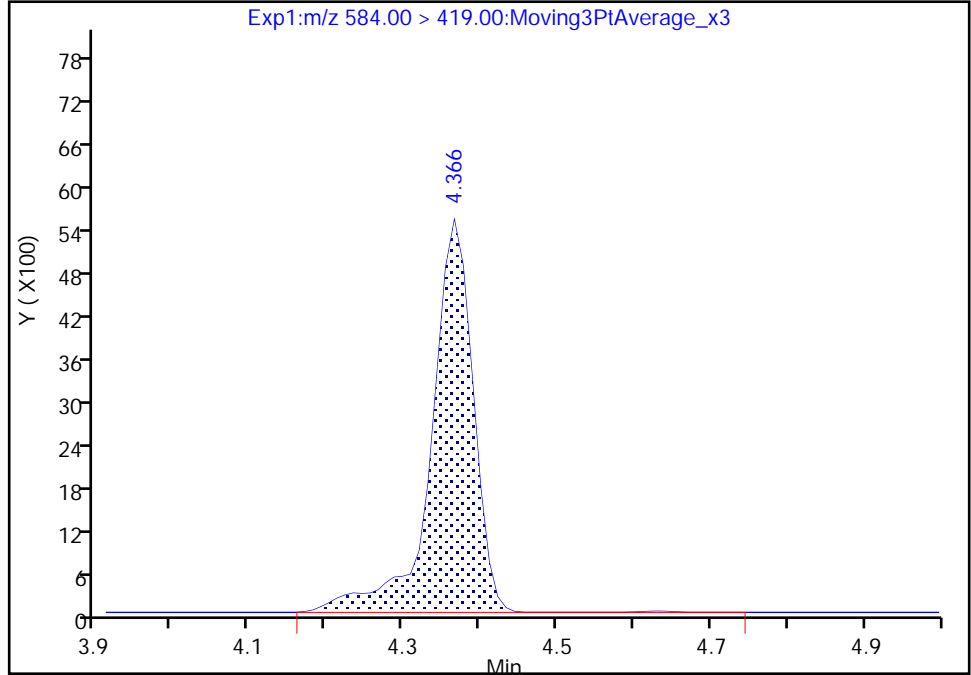
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

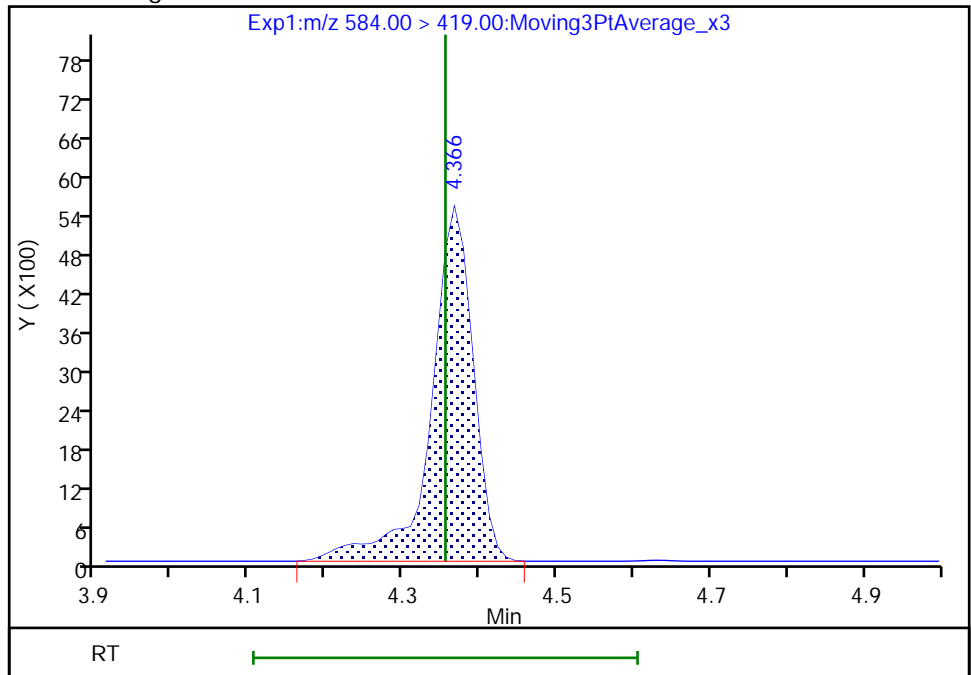
RT: 4.37  
Area: 20863  
Amount: 0.821163  
Amount Units: ng/ml

Processing Integration Results



RT: 4.37  
Area: 20825  
Amount: 0.819668  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:34:11  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

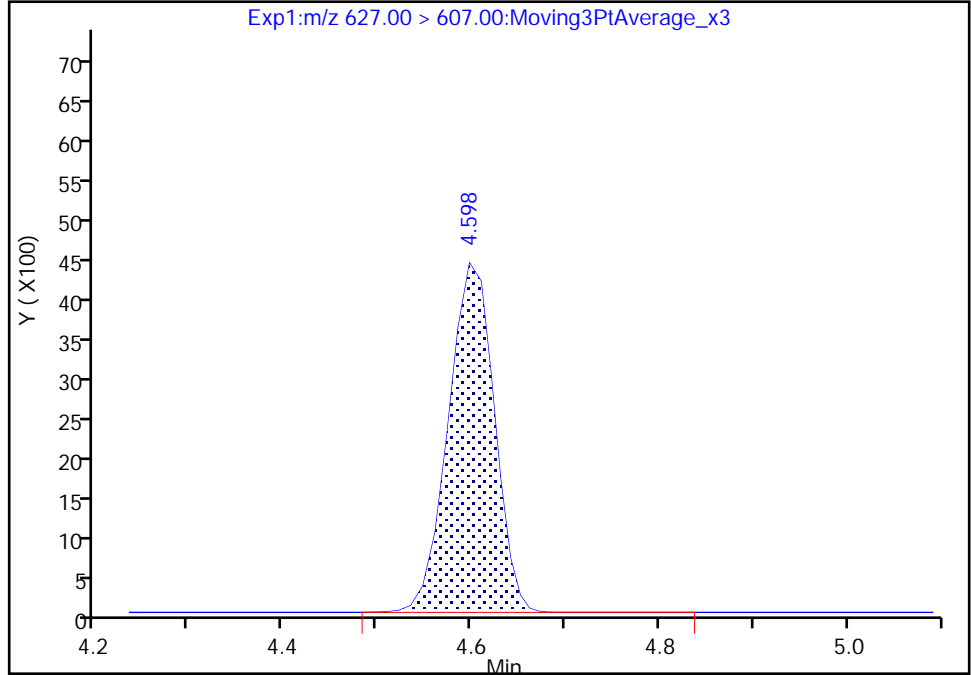
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B14.d  
Injection Date: 30-Sep-2020 20:02:11 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 14 Worklist Smp#: 14  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

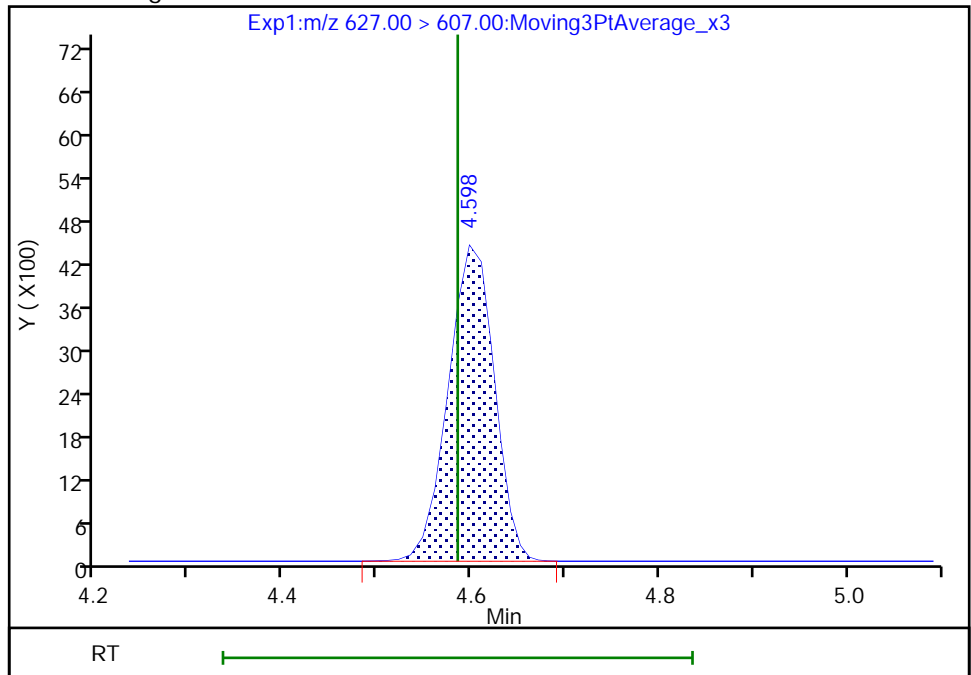
RT: 4.60  
Area: 14889  
Amount: 0.879293  
Amount Units: ng/ml

Processing Integration Results



RT: 4.60  
Area: 14889  
Amount: 0.879293  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:34:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159409/27 Calibration Date: 09/30/2020 21:49  
 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: PA200930B27.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	0.8865		2.37	2.50	-5.2	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	1.033		2.45	2.50	-2.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	0.9813		2.18	2.21	-1.5	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.616		2.34	2.34	0.0	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	1.076		2.67	2.50	6.8	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.266		2.51	2.35	7.0	50.0
HFPO-DA	AveID	2.128	1.861		2.19	2.50	-12.6	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.076		2.22	2.28	-2.6	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	1.043		2.60	2.50	4.1	40.0
DONA	AveID	3.081	3.016		2.30	2.36	-2.1	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.146		2.35	2.38	-1.1	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7578		2.25	2.37	-5.0	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	0.9758		2.36	2.50	-5.5	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.008		2.15	2.32	-7.3	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	1.015		2.49	2.50	-0.3	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.9437		2.30	2.33	-1.3	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.7895		2.21	2.40	-8.1	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.9504		2.40	2.50	-3.9	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.4261		2.58	2.40	7.7	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9348	0.9004		2.41	2.50	-3.7	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9037		2.39	2.50	-4.2	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6677		2.24	2.41	-7.1	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	0.9413		2.39	2.50	-4.6	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.7674		2.10	2.50	-16.2	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7933		2.26	2.36	-3.8	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.9159		2.35	2.50	-6.1	40.0
10:2 FTS	AveID	0.2199	0.2004		2.20	2.41	-8.9	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.1883		1.98	2.42	-18.3	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.7920		2.39	2.50	-4.4	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2453		2.68	2.50	7.1	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159409/27 Calibration Date: 09/30/2020 21:49  
 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: PA200930B27.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		0.9030		2.57	2.50	3.0	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.7011		2.35	2.50	-6.2	50.0
13C4 PFBA	Ave	1.433	1.498		1.31	1.25	4.5	50.0
13C5 PFPeA	Ave	1.027	1.013		1.23	1.25	-1.4	50.0
13C3 PFBS	Ave	1.251	1.214		1.13	1.16	-3.0	50.0
M2-4:2 FTS	Ave	0.0939	0.0949		1.18	1.17	1.0	50.0
13C2 PFHxA	Ave	1.058	1.059		1.25	1.25	0.1	50.0
13C3 HFPO-DA	Ave	0.0985	0.1138		1.44	1.25	15.5	50.0
18O2 PFHxS	Ave	0.8974	0.8809		1.16	1.18	-1.8	50.0
13C4 PFHpA	Ave	0.9620	0.9485		1.23	1.25	-1.4	50.0
M2-6:2 FTS	Ave	0.1199	0.1239		1.23	1.19	3.3	50.0
13C4 PFOA	Ave	0.9845	1.006		1.28	1.25	2.2	50.0
13C4 PFOS	Ave	0.7341	0.7520		1.22	1.20	2.4	50.0
13C5 PFNA	Ave	0.8296	0.8121		1.22	1.25	-2.1	50.0
13C2 PFDA	Ave	0.7956	0.7208		1.13	1.25	-9.4	50.0
M2-8:2 FTS	Ave	0.1413	0.1355		1.15	1.20	-4.1	50.0
13C8 FOSA	Ave	1.282	1.269		1.24	1.25	-1.0	50.0
d3-NMeFOSAA	Ave	0.0453	0.0412		1.14	1.25	-9.1	50.0
13C2 PFUnA	Ave	0.6006	0.5603		1.17	1.25	-6.7	50.0
d5-NEtFOSAA	Ave	0.0487	0.0483		1.24	1.25	-0.7	50.0
13C2 PFDoA	Ave	0.6348	0.5643		1.11	1.25	-11.1	50.0
13C2 PFTeDA	Ave	0.4522	0.3593		0.993	1.25	-20.5	50.0
13C2 PFHxDA	Ave	0.5124	0.3590		0.876	1.25	-30.0	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
 Lims ID: CCV L5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 30-Sep-2020 21:49:55 ALS Bottle#: 27 Worklist Smp#: 27  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L5  
 Misc. Info.: 200-0043035-027 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:24:18 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 11:40:22

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	1.990	0.0	0.577	978381	1.31	105	15106	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.000	1734733	2.37		94.8	521	M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	661683	1.23	98.6	3032	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	1367174	2.45		97.8	97.8	M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	737297	1.13	97.0	278148	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.353	2.353	0.0	1.006	1375418	2.18	Target=2.07	98.5	4734	
298.90 > 99.00	2.339	2.353	-0.014	1.000	711706		1.93(1.04-3.11)		1234	
D 60 M2-4:2 FTS	329.00 > 81.00	2.666	2.665	0.001	0.773	57900	1.18	101	151	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.653	2.665	-0.012	0.995	187187	2.34		100	2591	
D 7 13C2 PFHxA	315.00 > 270.00	2.691	2.703	-0.012	0.780	691526	1.25	100	3201	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.703	2.703	0.0	1.005	1487853	2.67	Target=12.44	107	730	
313.00 > 119.00	2.691	2.703	-0.012	1.000	121794		12.22(6.22-18.66)		168	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.703	2.703	0.0	0.880	1366971	2.51	Target=3.64	107	4412	
349.00 > 99.00	2.703	2.703	0.0	0.880	405944		3.37(1.82-5.46)		1651	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.810	2.810	0.0	0.815	74343	1.44	115	824	

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	276649	2.19		87.4	80.5	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	544308	1.16		98.2	2135	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	1126966	2.22	Target=4.60	97.4	1194	M
399.00 > 99.00	3.073	3.073	0.0	1.000	242652		4.64(2.30-6.91)		510	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.084	0.0	0.894	619558	1.23		98.6	2507	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.084	3.084	0.0	1.000	1292685	2.60	Target=3.34	104	861	
363.00 > 169.00	3.084	3.084	0.0	1.000	371503		3.48(1.67-5.01)		1006	
77 DONA										
377.00 > 251.00	3.115	3.115	0.0	0.827	2790758	2.30	Target=2.44	97.9	5190	
377.00 > 85.00	3.115	3.115	0.0	0.827	1132872		2.46(1.22-3.67)		2681	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.433	3.433	0.001	0.912	1072120	2.35	Target=7.08	98.9	3031	
449.00 > 99.00	3.433	3.433	0.001	0.912	156350		6.86(3.54-10.63)		1246	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.441	3.433	0.009	1.003	116272	2.25		95.0	1500	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.433	3.433	0.001	0.995	76876	1.23		103	748	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	657093	1.28		102	4212	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		653179	1.25			2485	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	1282358	2.36	Target=2.29	94.5	707	M
413.00 > 169.00	3.450	3.450	0.0	1.000	575216		2.23(1.14-3.43)		1310	M
D 18 13C4 PFOS										M
503.00 > 80.00	3.765	3.765	0.0	1.091	469589	1.22		102	917	M
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	918576	2.15	Target=7.10	92.7	1425	M
499.00 > 99.00	3.765	3.765	0.0	1.000	134985		6.81(3.55-10.64)		660	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	530461	1.22		97.9	3623	
20 Perfluorononanoic acid										
463.00 > 419.00	3.786	3.786	0.0	1.000	1076812	2.49	Target=5.83	99.7	483	
463.00 > 169.00	3.786	3.786	0.0	1.000	170045		6.33(2.91-8.74)		2857	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.042	864094	2.30		98.7	4207	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.052	0.0	1.076	744617	2.21	Target=3.38	91.9	7743	
549.00 > 99.00	4.052	4.052	0.0	1.076	201673		3.69(1.69-5.08)		1241	
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	470818	1.13		90.6	3159	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.082	4.082	0.0	1.000	894958	2.40	Target=6.81	96.1	1958	
513.00 > 169.00	4.082	4.082	0.0	1.000	132509		6.75(3.41-10.22)		1725	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.082	0.010	1.000	72267	2.58		108	594	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	84793	1.15		95.9	846	M
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	828949	1.24		99.0	3748	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.139	0.0	1.000	1492726	2.41		96.3	2174	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.224	26882	1.14		90.9	57.5	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.224	4.224	0.0	1.000	48586	2.39		95.8	685	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.309	4.309	0.0	1.144	632362	2.24	Target=3.31	92.9	3302	
599.00 > 99.00	4.309	4.309	0.0	1.144	192156		3.29(1.66-4.97)		1900	
D 30 13C2 PFUnA										
565.00 > 520.00	4.344	4.343	0.001	1.259	365971	1.17		93.3	3742	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.344	4.343	0.001	1.000	688994	2.39	Target=6.57	95.4	1089	
563.00 > 169.00	4.344	4.343	0.001	1.000	105948		6.50(3.28-9.85)		1634	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	31571	1.24		99.3	777	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.355	0.0	1.000	48458	2.10		83.8	720	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.177	734157	2.26		96.2	5673	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	368584	1.11		88.9	4522	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	675208	2.35	Target=5.16	93.9	698	
613.00 > 169.00	4.573	4.573	0.0	1.000	139905		4.83(2.58-7.75)		3039	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.597	4.585	0.012	1.124	34206	2.20		91.1	800	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.744	4.736	0.008	1.260	179087	1.98	Target=0.45	81.7	1167	
699.00 > 99.00	4.744	4.736	0.008	1.260	387268		0.46(0.22-0.67)		2365	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.780	4.772	0.008	1.045	583835	2.39	Target=3.30	95.6	605	
663.00 > 169.00	4.780	4.772	0.008	1.045	176912		3.30(1.65-4.95)		2857	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.969	0.009	1.443	234676	0.99		79.5	3321	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.978	4.969	0.009	1.000	115112	2.68	Target=1.06	107	3005	
713.00 > 219.00	4.969	4.969	0.0	0.998	111205		1.04(0.53-1.59)		4462	

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	5.339	5.329	0.010	1.548	234467	0.8756		70.0	2424	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.339	5.329	0.010	1.000	423453	2.57	Target=3.06	103	340	
813.00 > 169.00	5.339	5.329	0.010	1.000	142020		2.98(1.53-4.58)		1888	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.703	5.694	0.009	1.068	328748	2.35	Target=2.82	93.8	495	
913.00 > 169.00	5.703	5.694	0.009	1.068	120882		2.72(1.41-4.24)		2258	

**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\20200930-43035.b\PA200930B27.d

Injection Date: 30-Sep-2020 21:49:55

Instrument ID: LC812

Lims ID: CCV L5

Client ID:

Operator ID: lc812tech

ALS Bottle#: 27

Worklist Smp#: 27

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

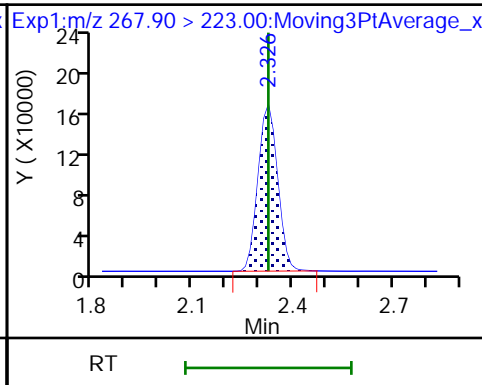
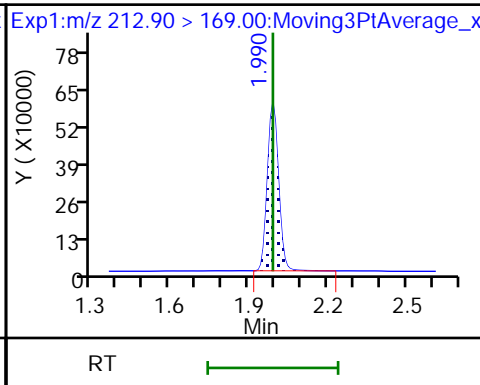
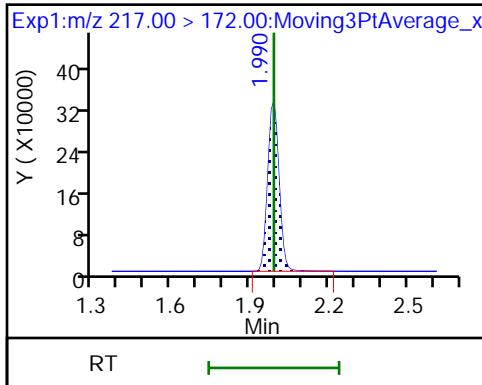
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

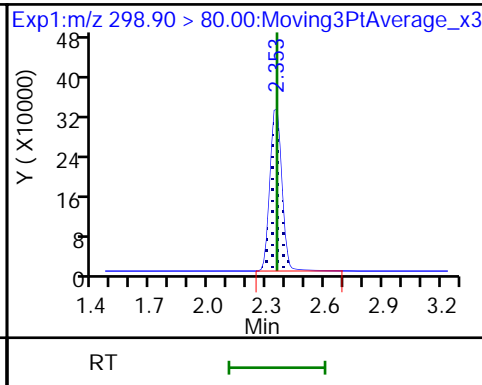
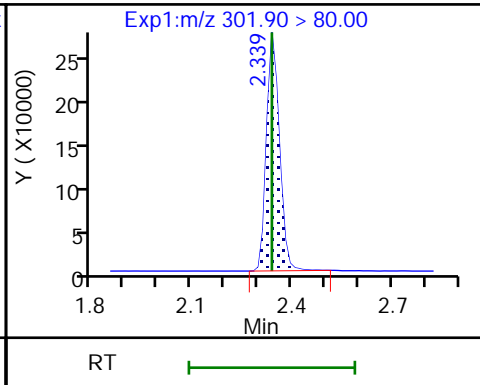
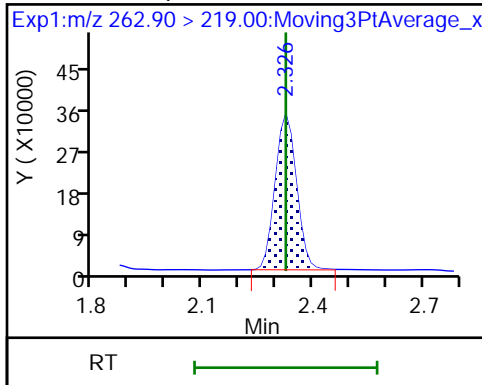
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

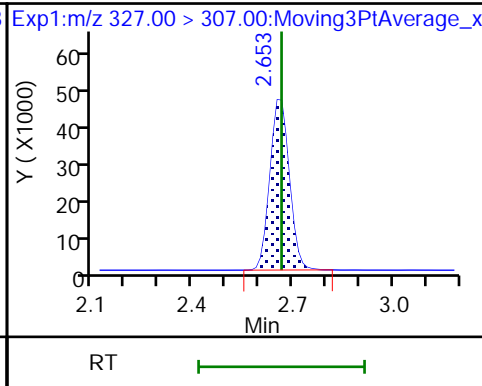
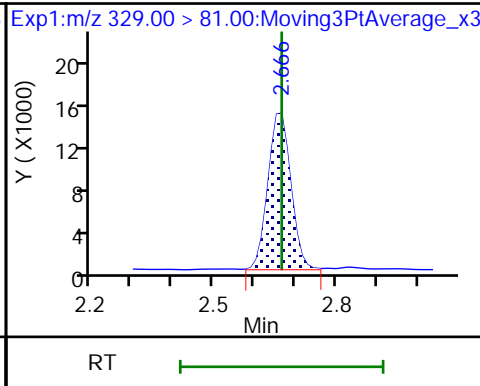
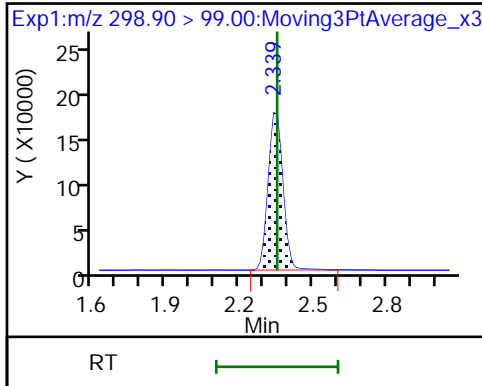
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

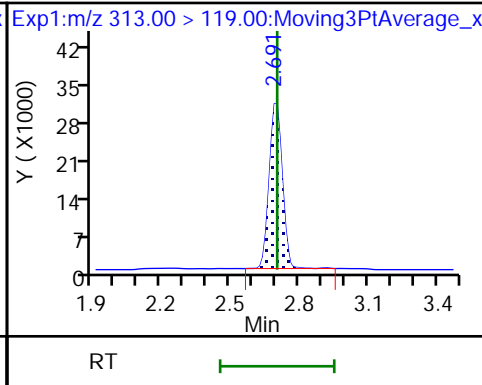
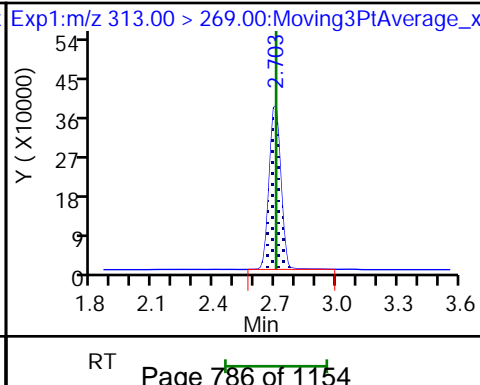
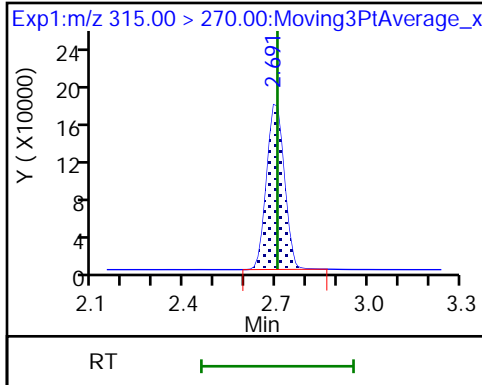
61 1H,1H,2H,2H-perfluorohexanesulfo

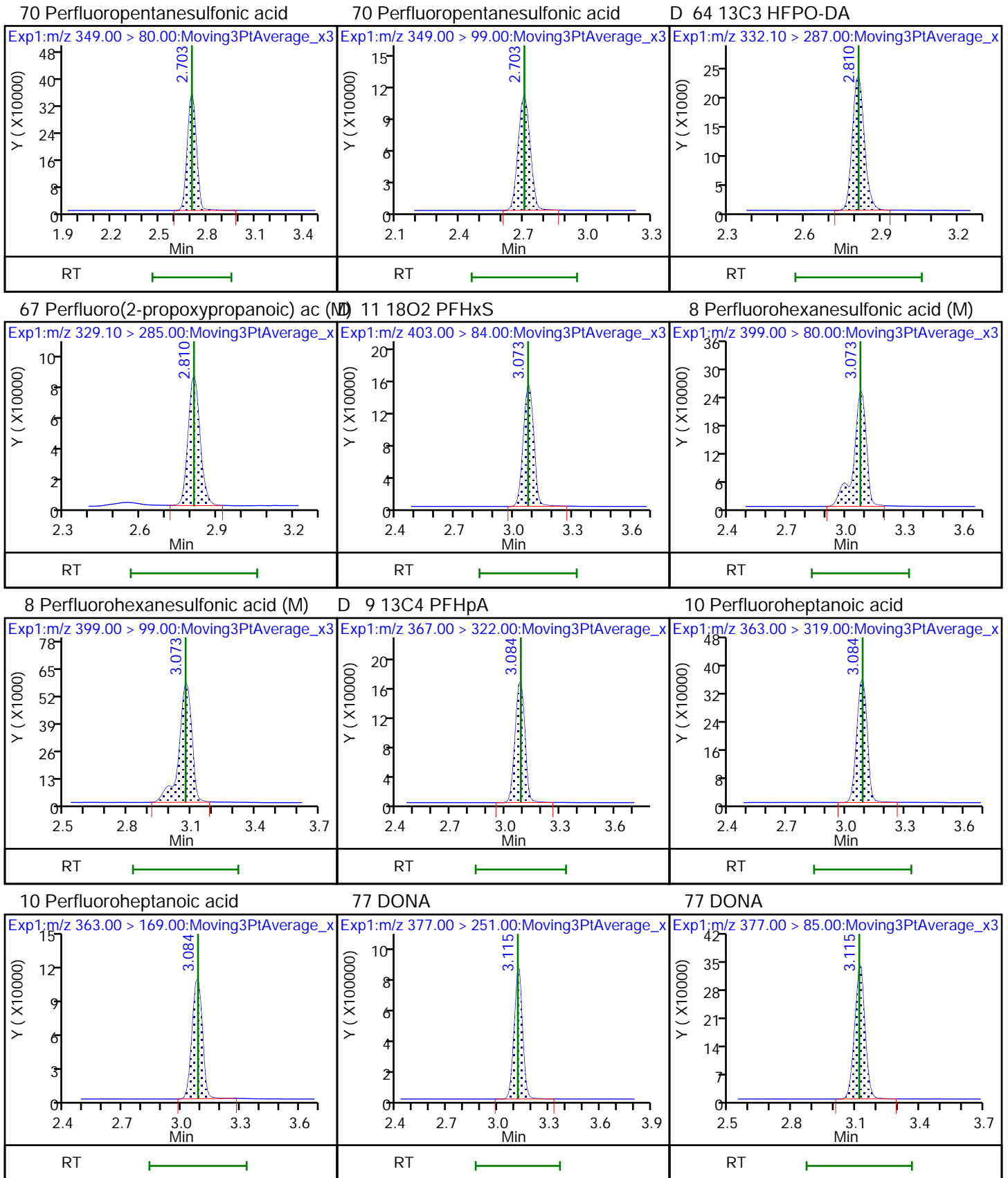


D 7 13C2 PFHxA

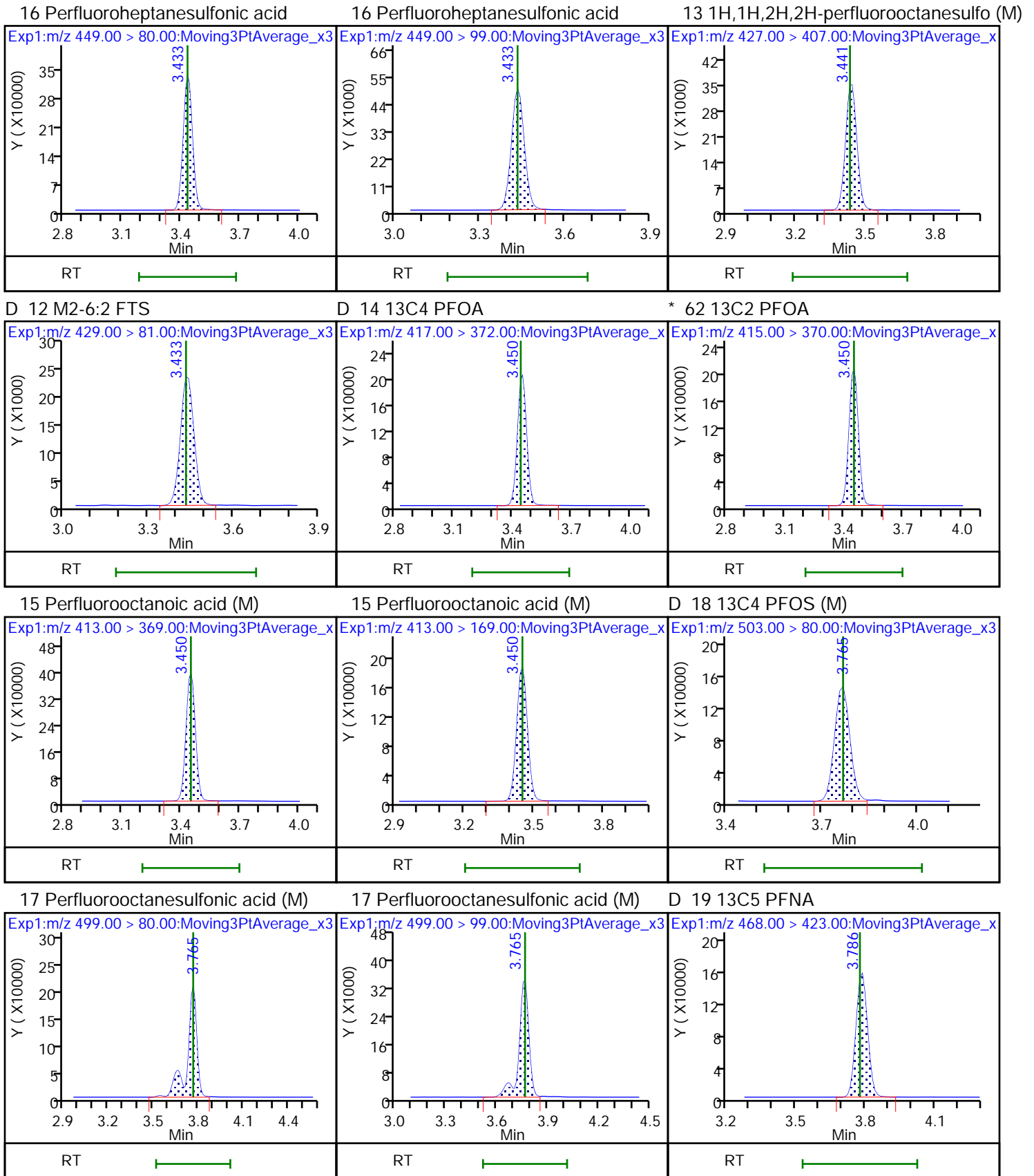
6 Perfluorohexanoic acid

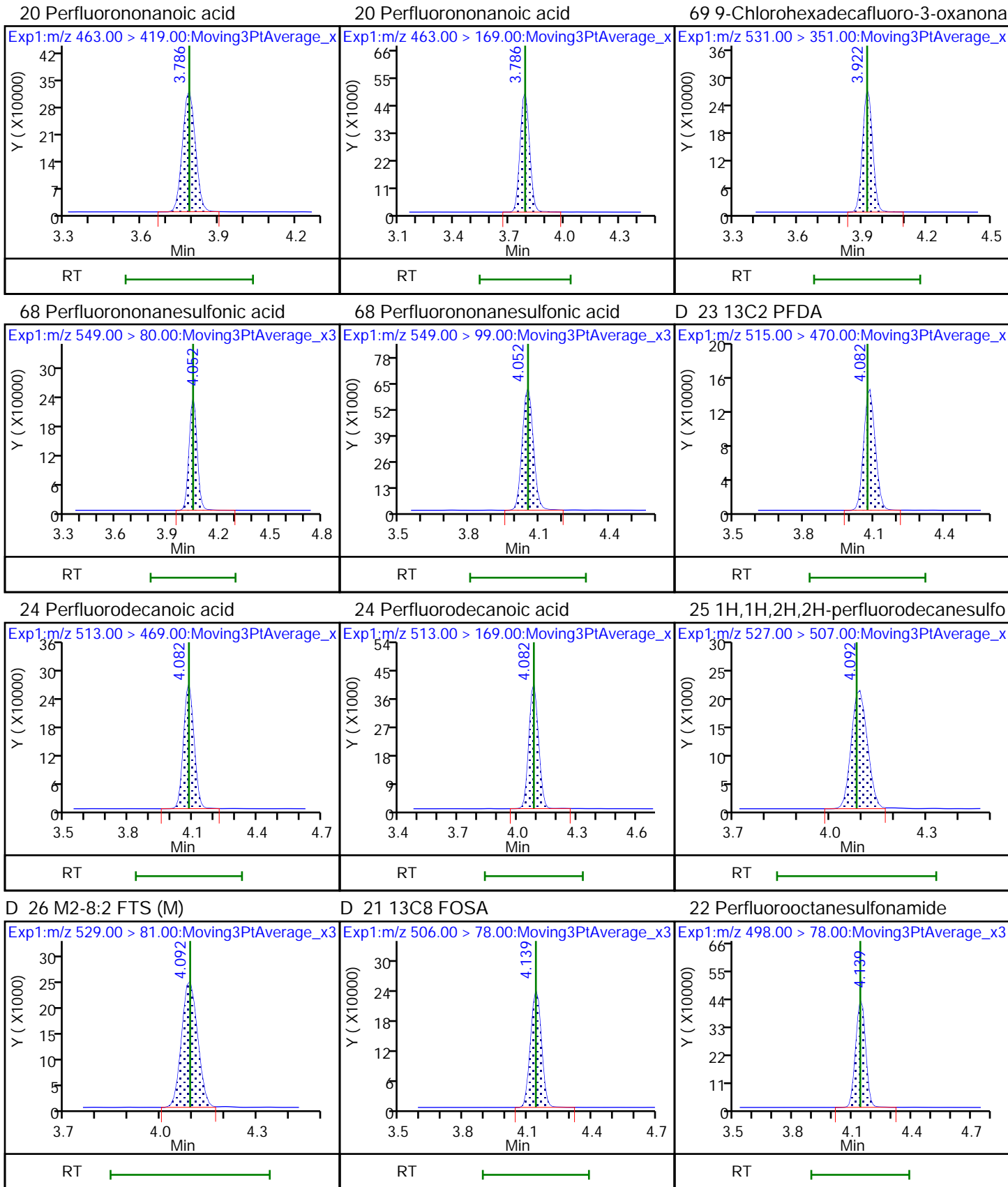
6 Perfluorohexanoic acid





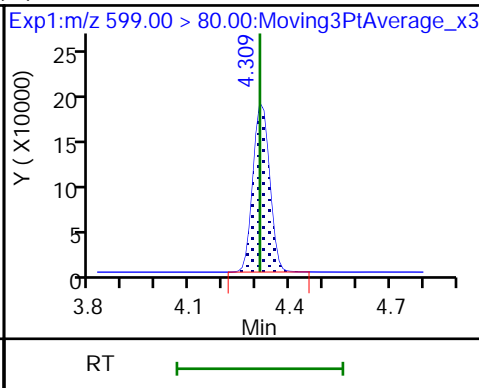
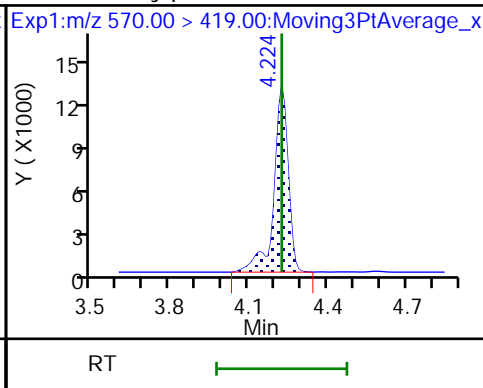
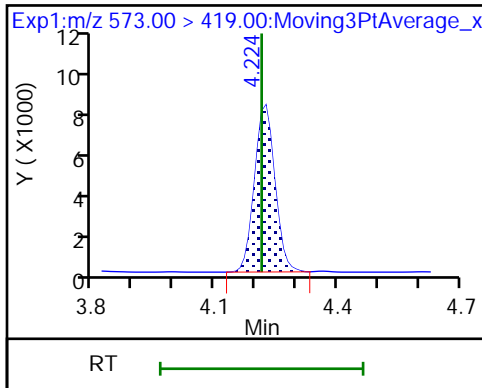






D 27 d3-NMeFOSAA

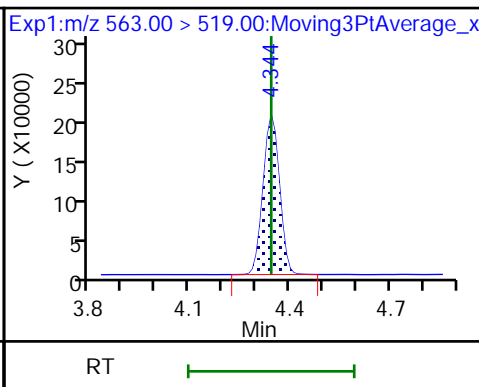
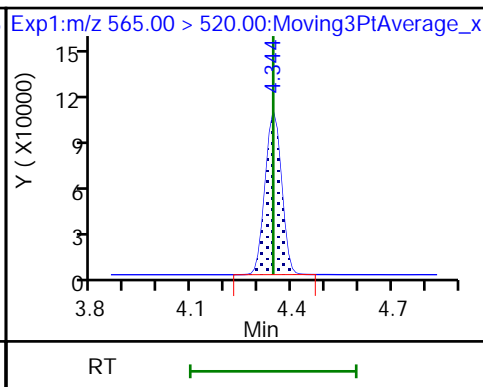
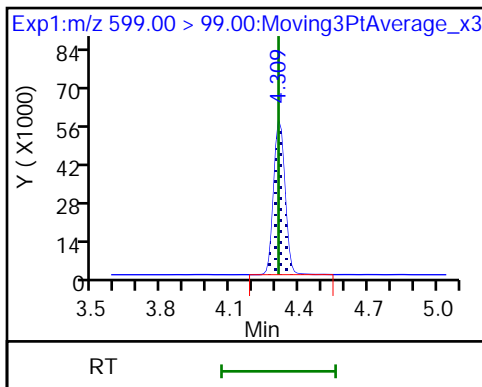
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

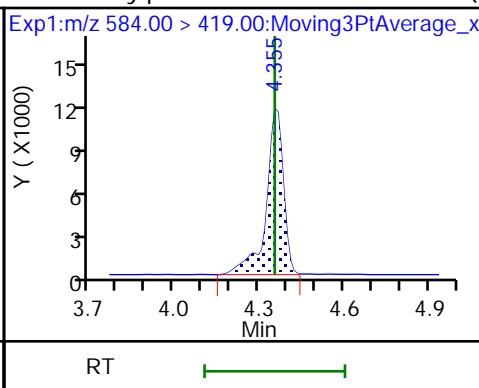
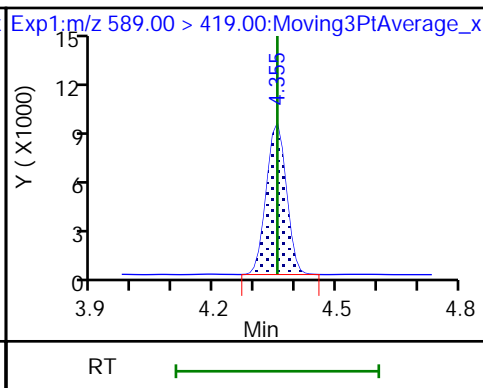
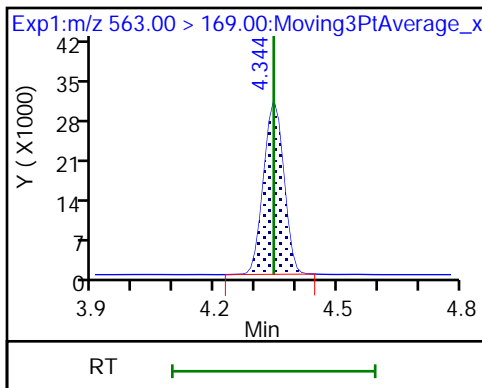
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

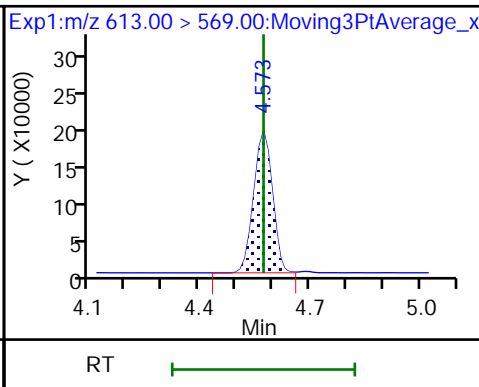
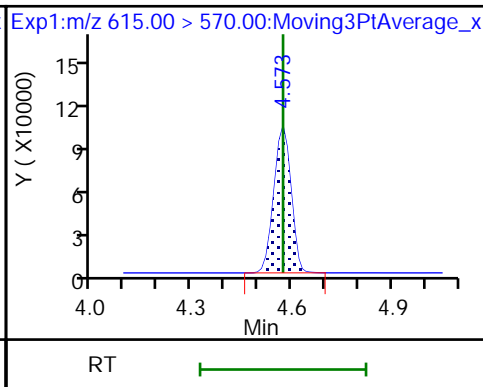
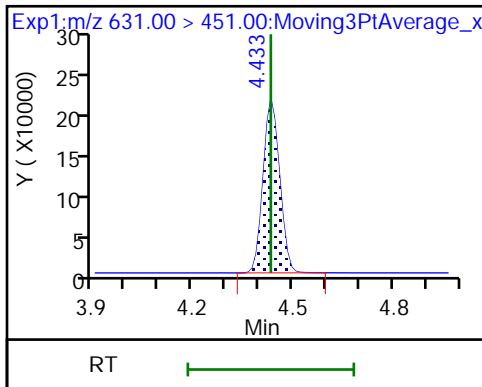
33 N-ethylperfluorooctanesulfonamid (M)

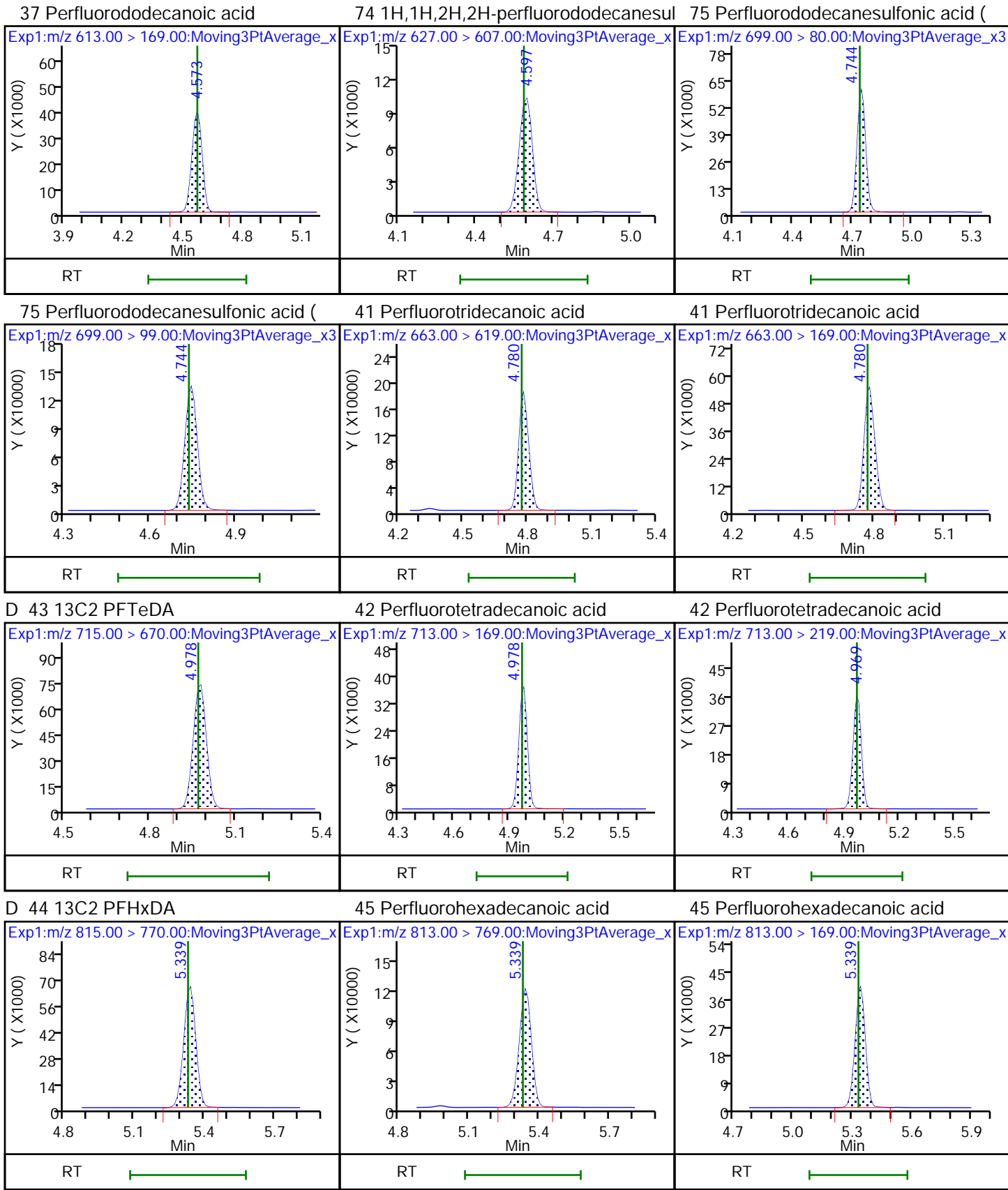


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

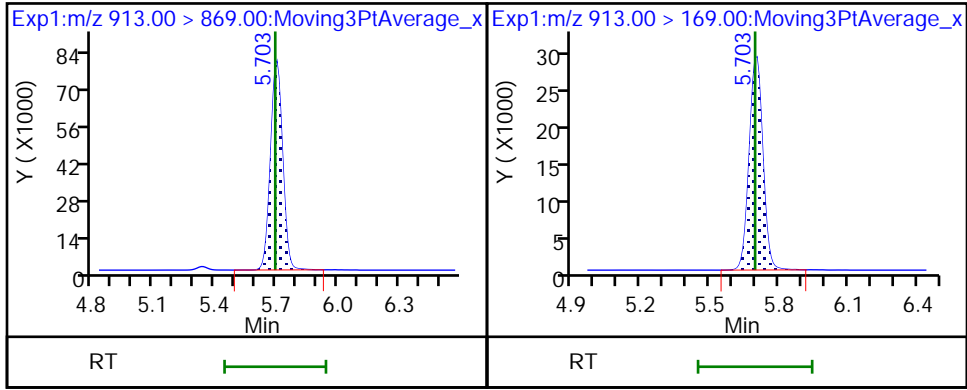
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

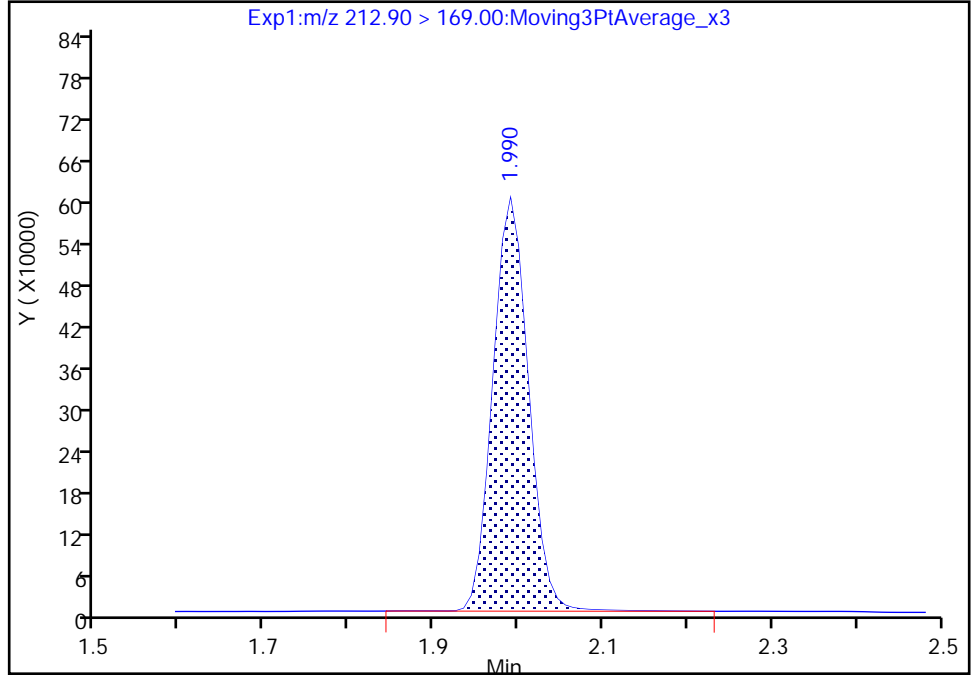
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

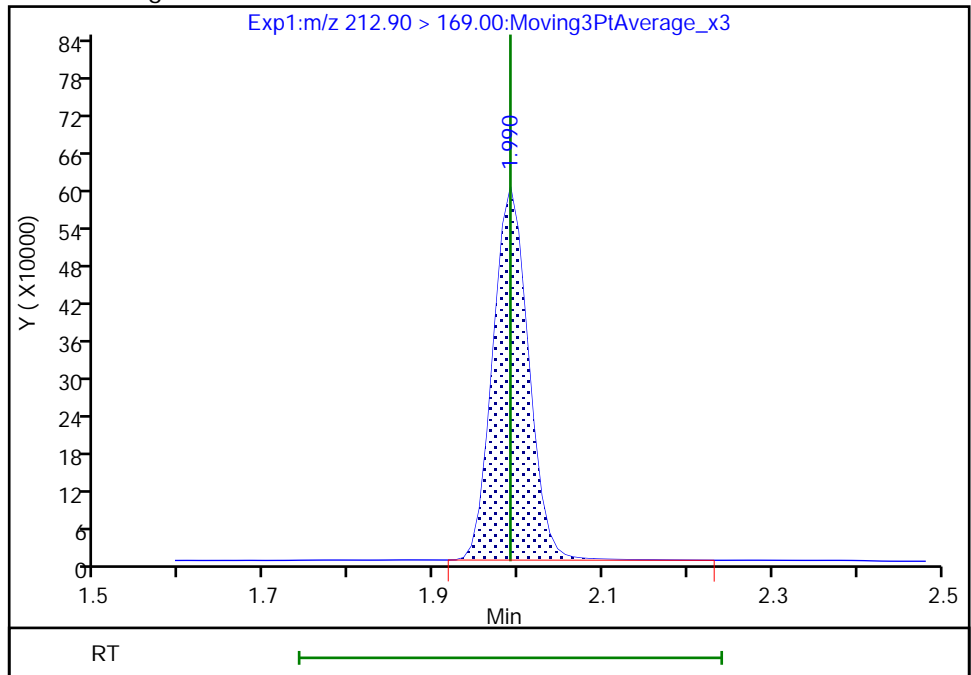
RT: 1.99  
Area: 1736195  
Amount: 2.373062  
Amount Units: ng/ml

Processing Integration Results



RT: 1.99  
Area: 1734733  
Amount: 2.371064  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:35:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

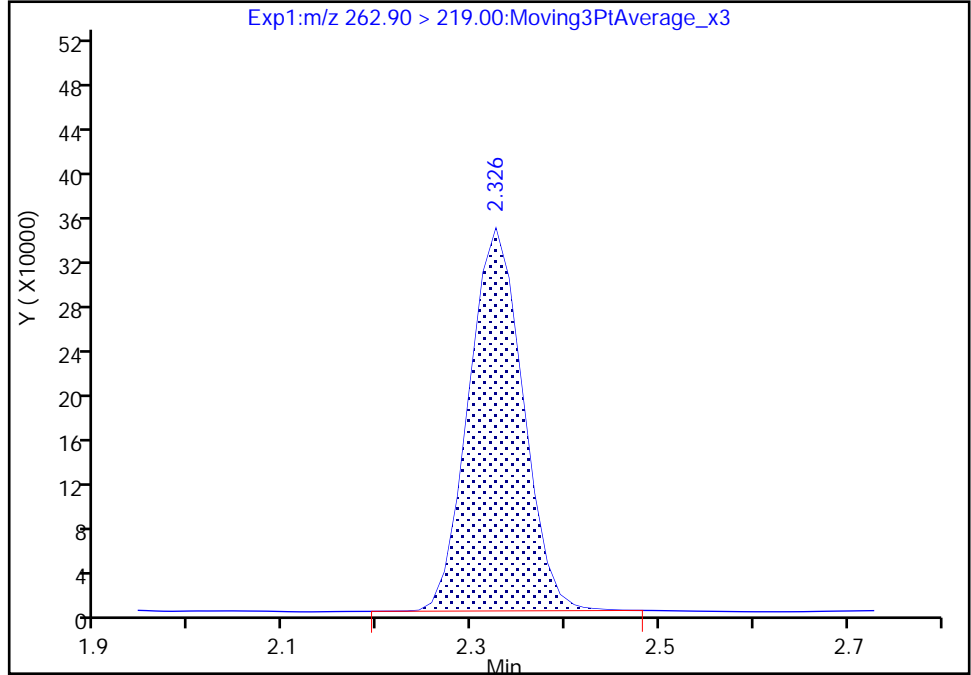
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

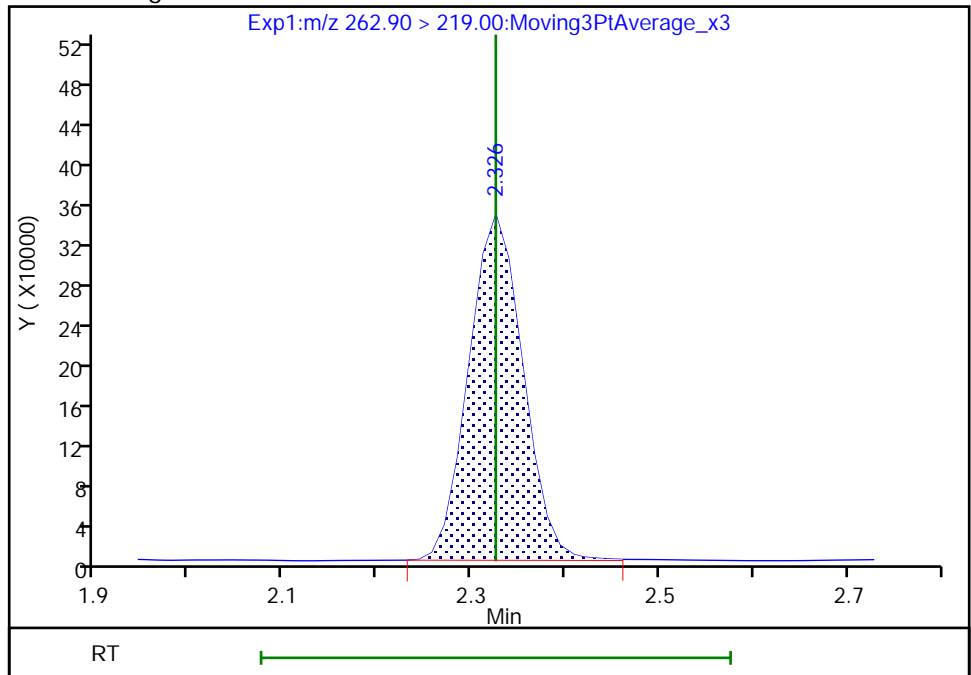
RT: 2.33  
Area: 1361613  
Amount: 2.435658  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 1367174  
Amount: 2.445606  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

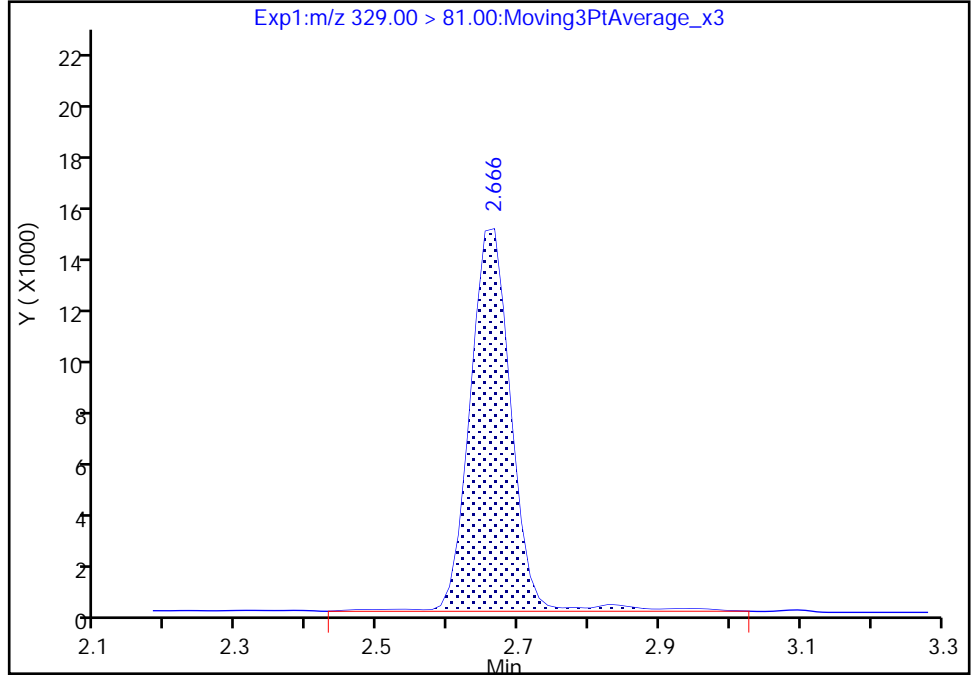
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

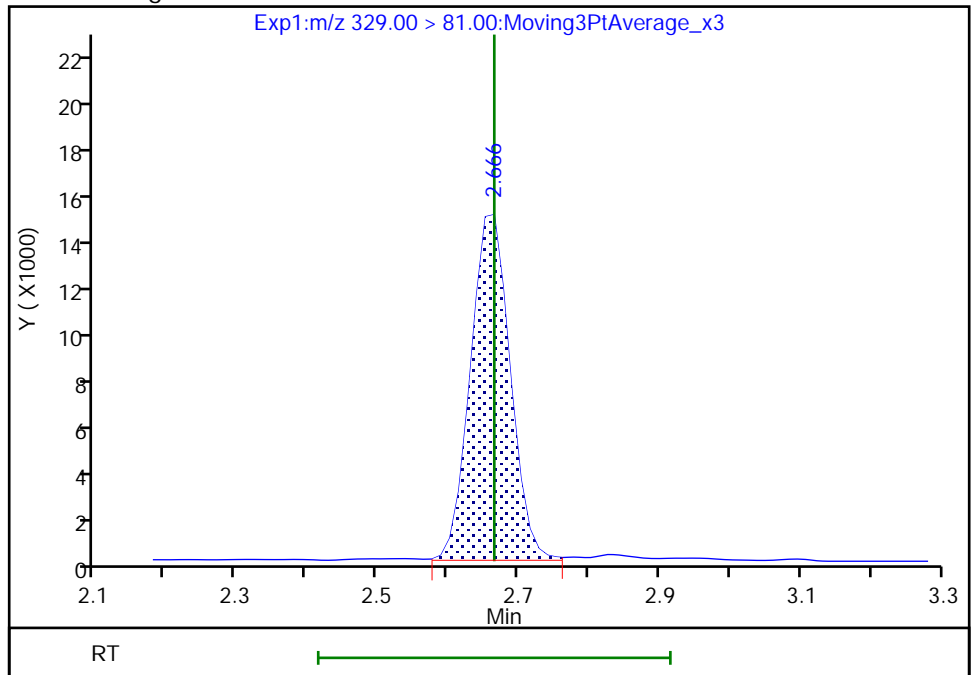
RT: 2.67  
Area: 59996  
Amount: 1.222144  
Amount Units: ng/ml

Processing Integration Results



RT: 2.67  
Area: 57900  
Amount: 1.179448  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:35:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

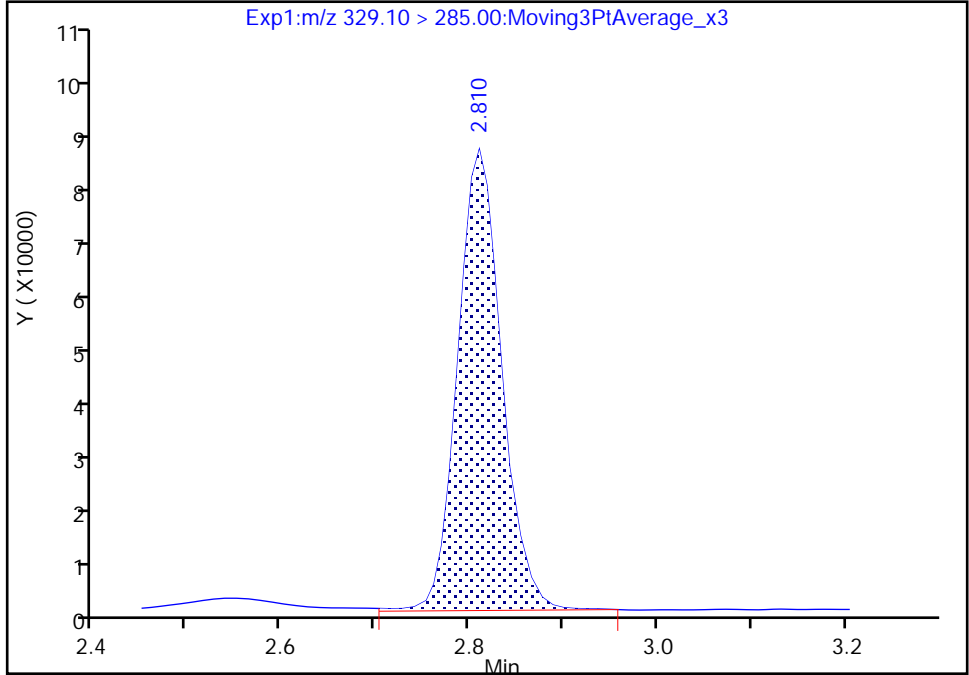
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

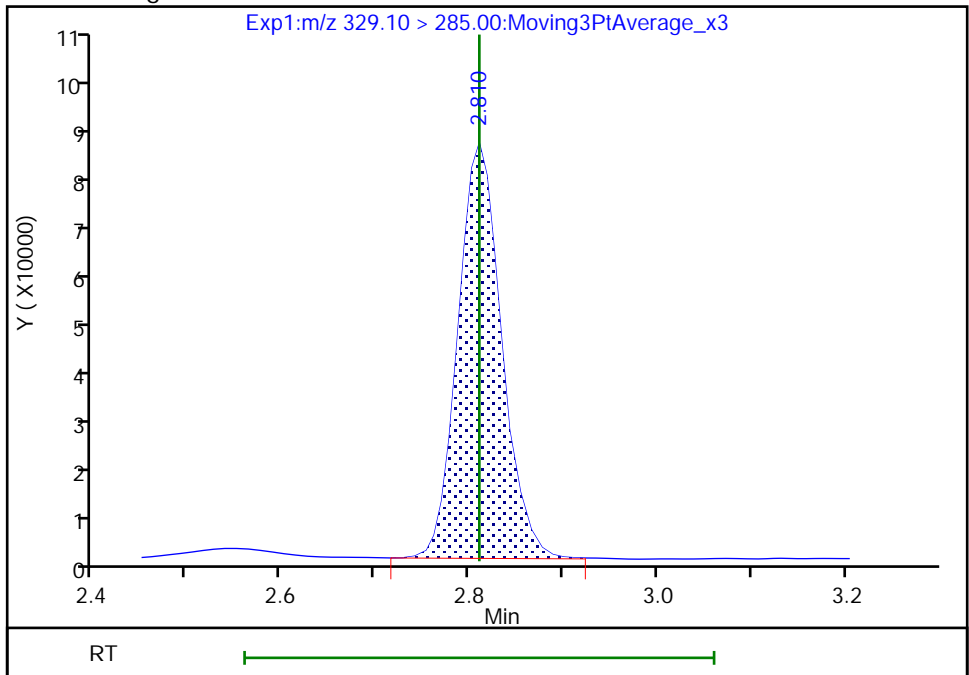
Processing Integration Results

RT: 2.81  
Area: 280072  
Amount: 2.213127  
Amount Units: ng/ml



Manual Integration Results

RT: 2.81  
Area: 276649  
Amount: 2.186078  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

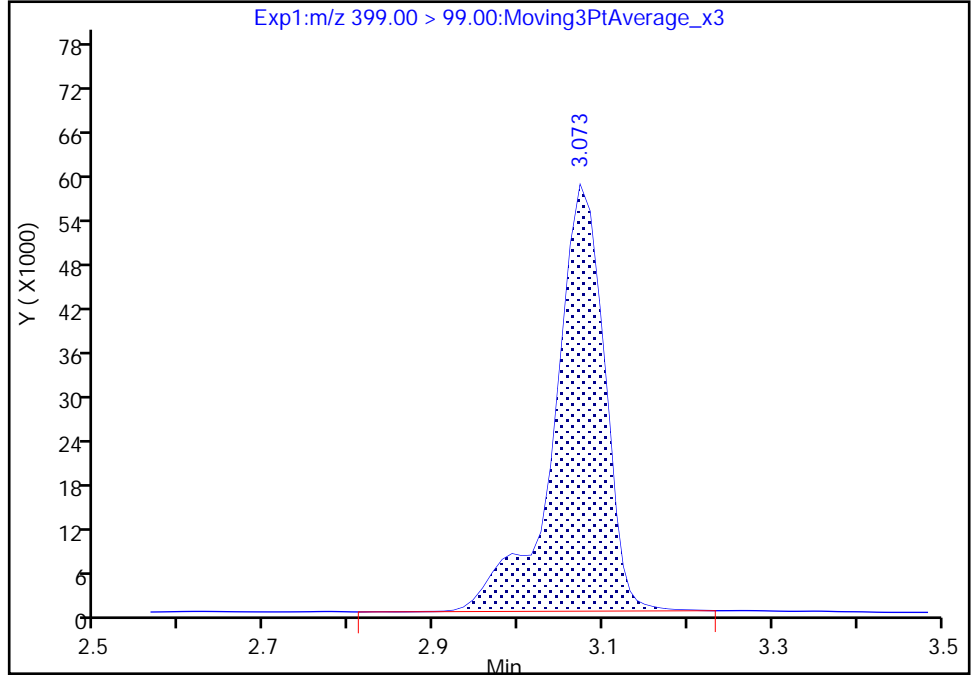
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

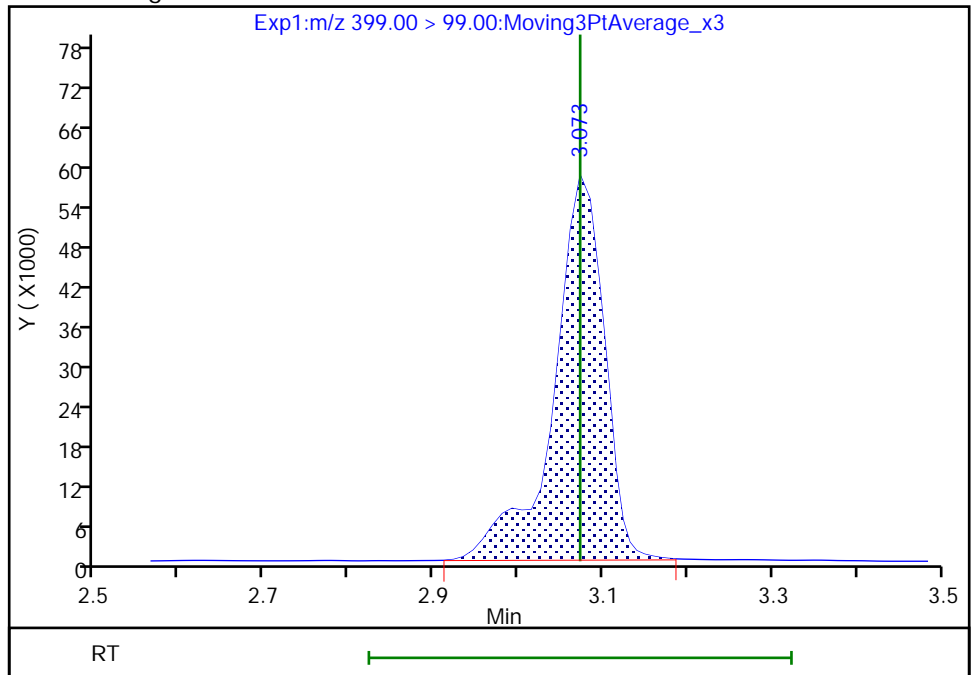
RT: 3.07  
Area: 242890  
Amount: 2.226598  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 242652  
Amount: 2.216857  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:36:46  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

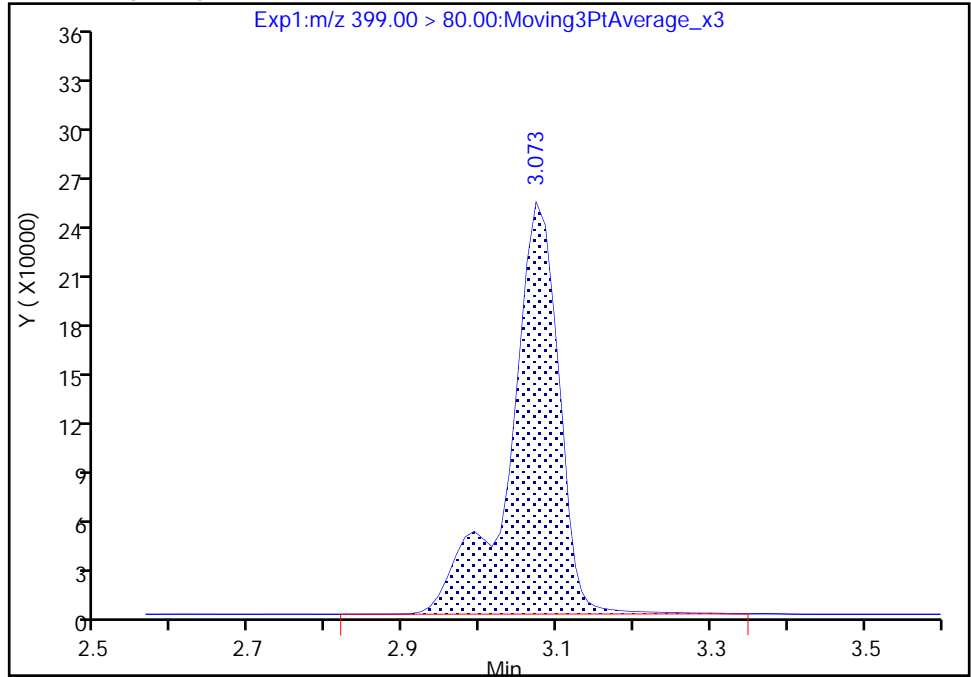
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

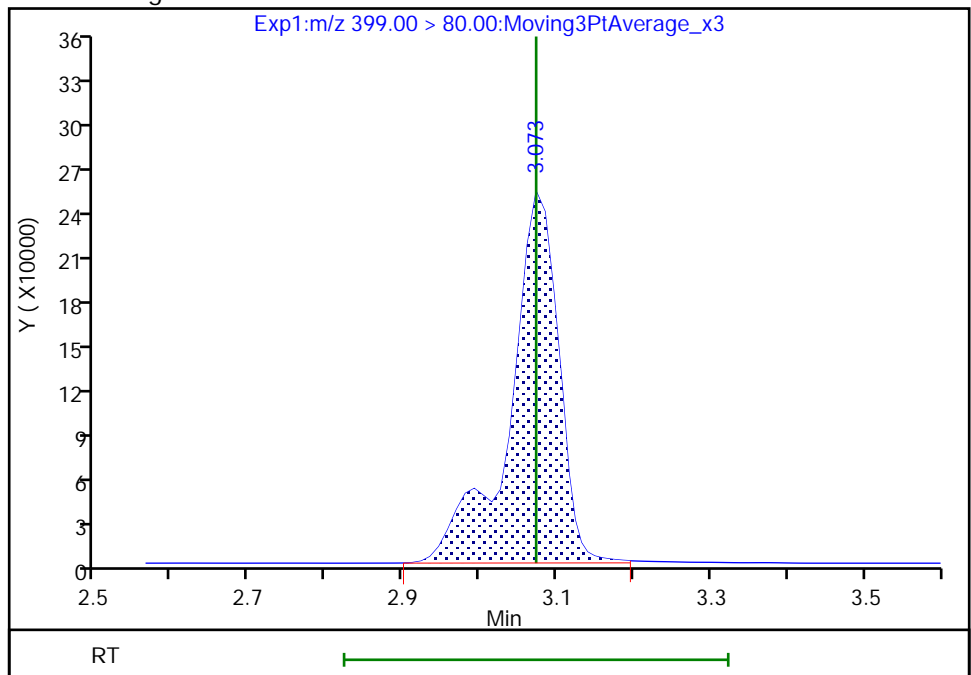
RT: 3.07  
Area: 1131918  
Amount: 2.226598  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 1126966  
Amount: 2.216857  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:36:48

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

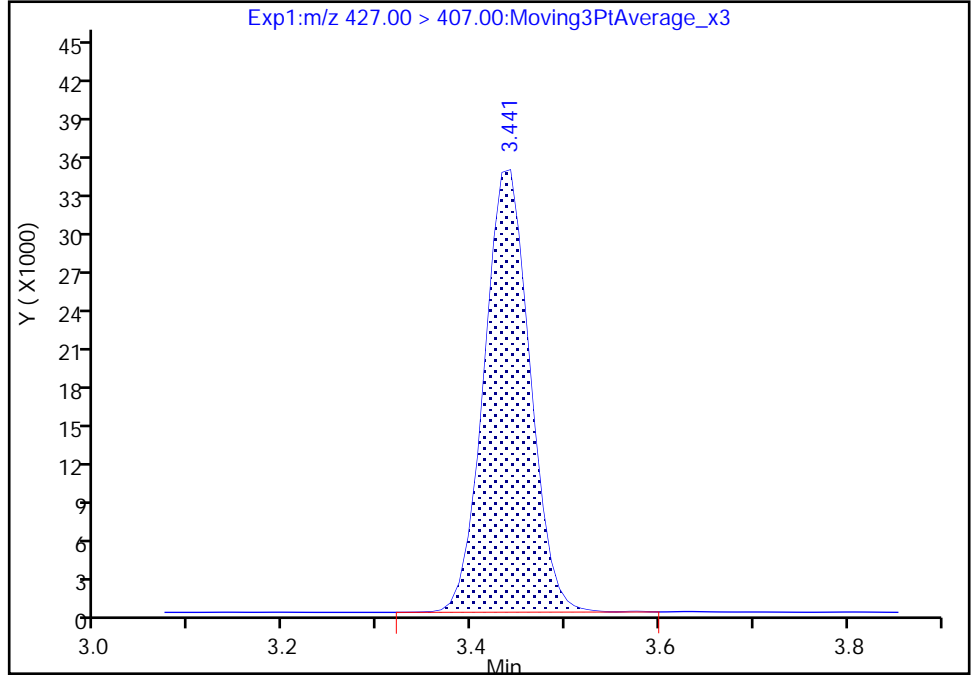
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

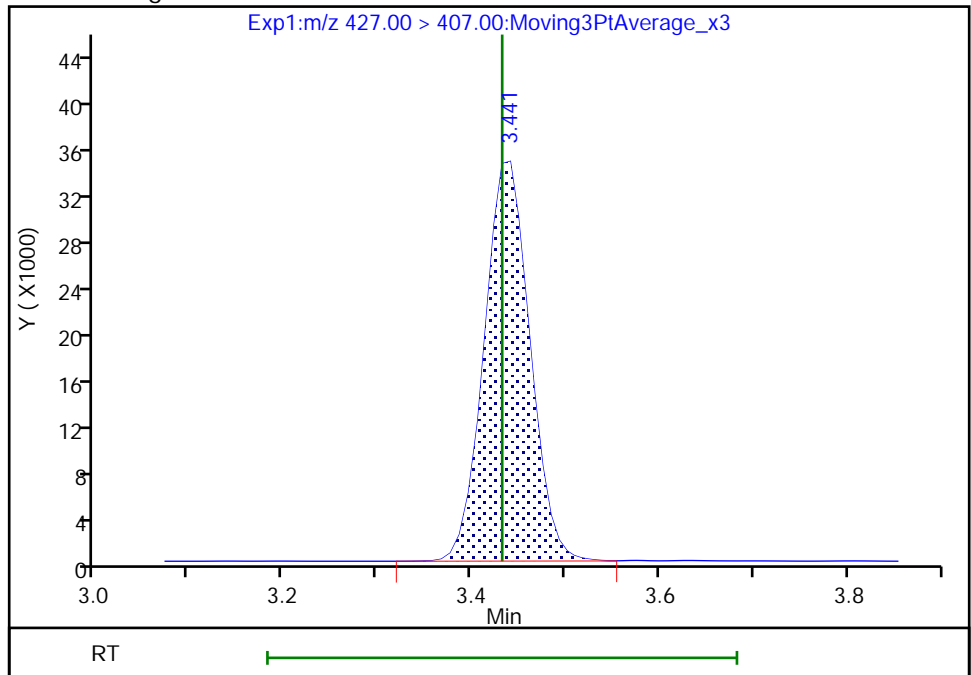
RT: 3.44  
Area: 116331  
Amount: 2.251624  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 116272  
Amount: 2.250482  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:37:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

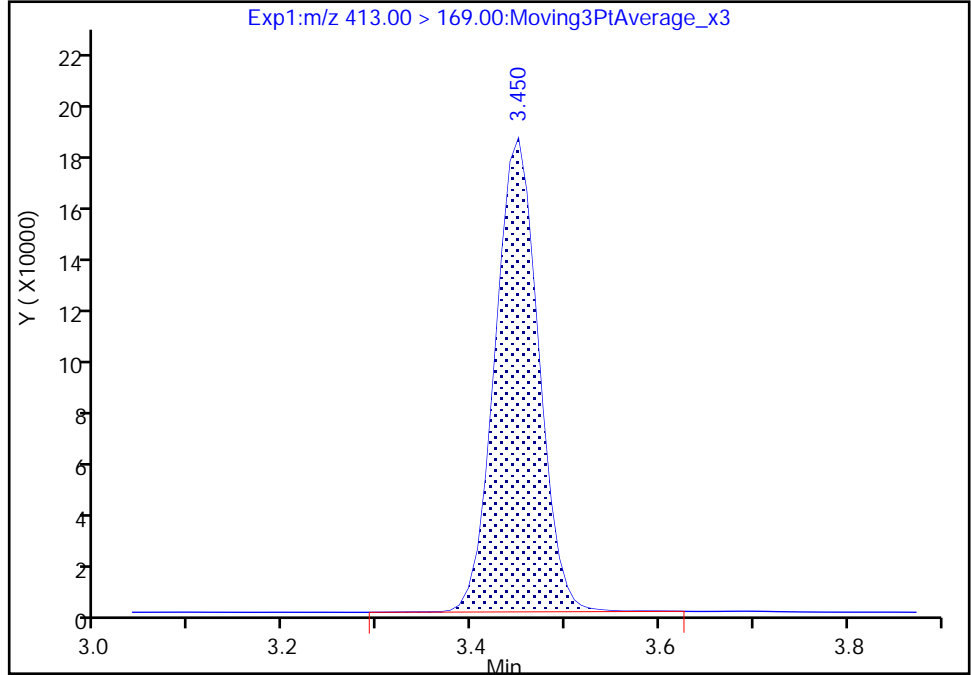
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

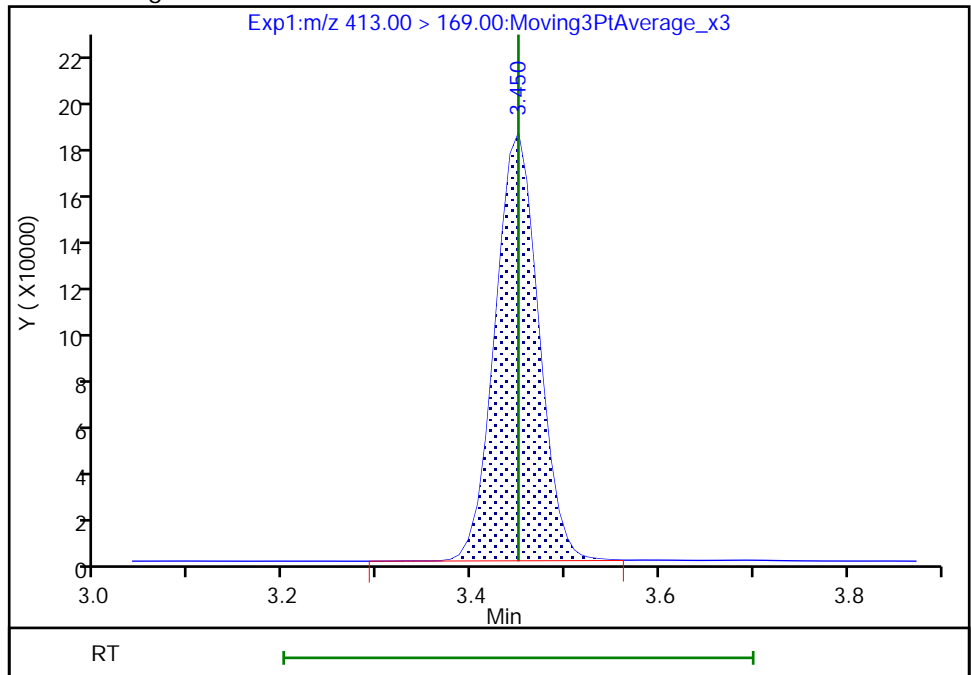
RT: 3.45  
Area: 575631  
Amount: 2.359482  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 575216  
Amount: 2.362839  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:37:12  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

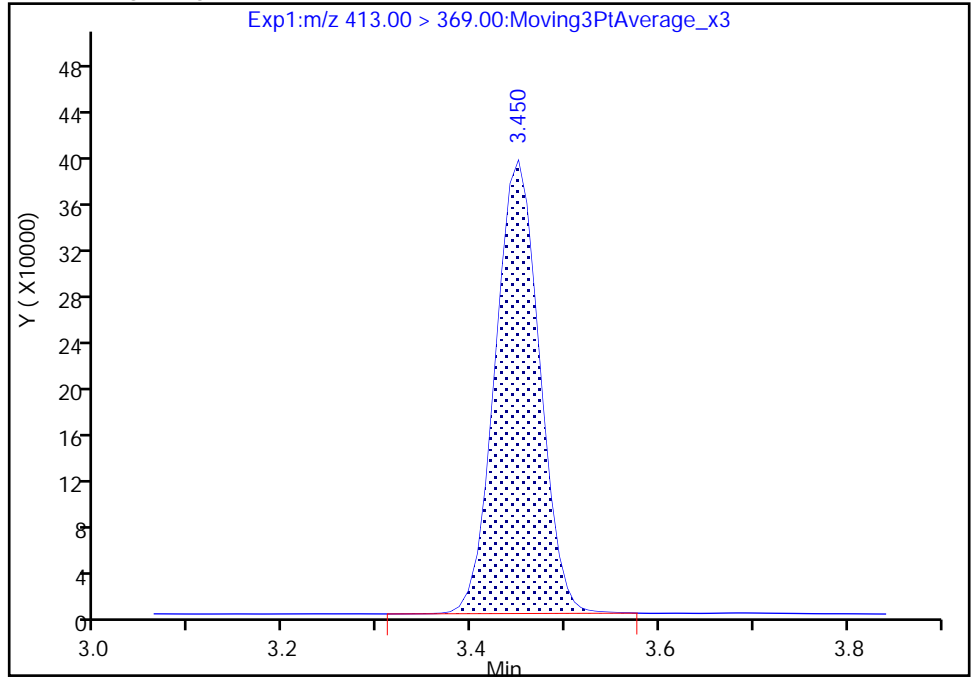
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

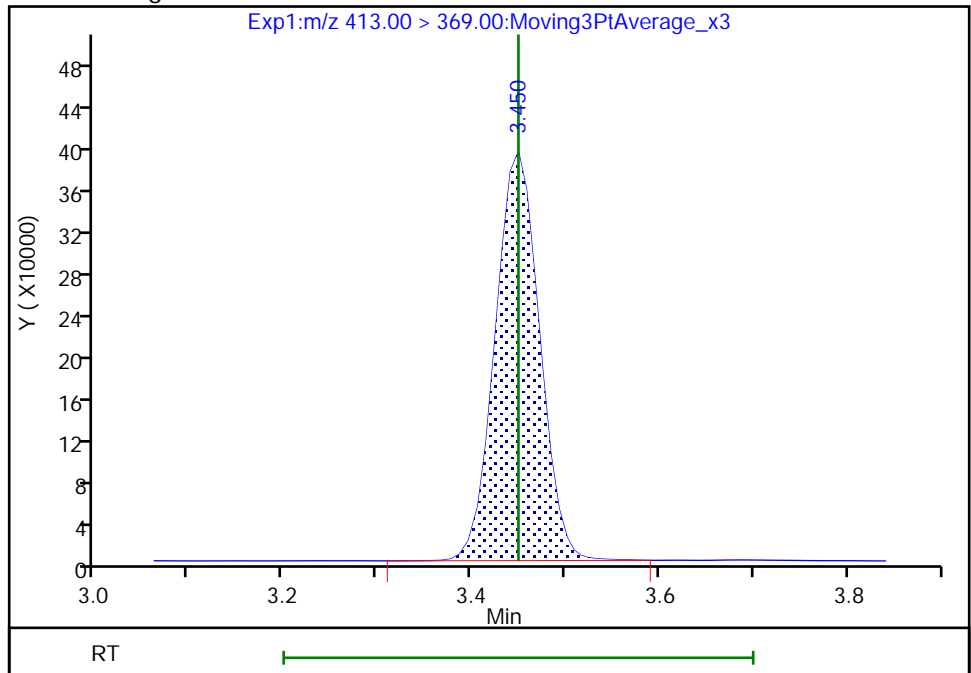
RT: 3.45  
Area: 1280536  
Amount: 2.359482  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 1282358  
Amount: 2.362839  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:37:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

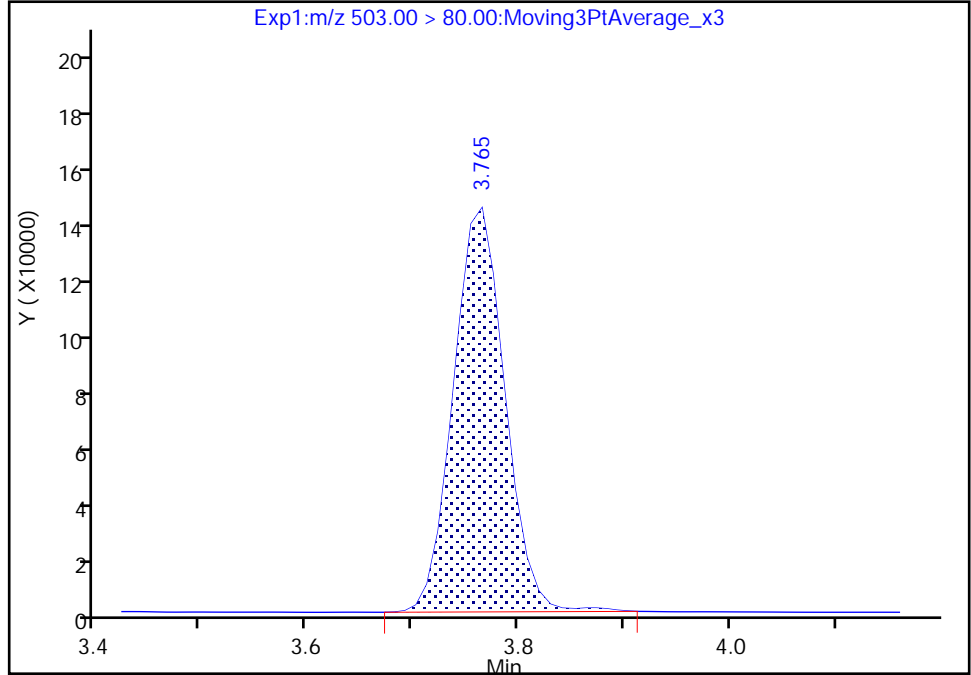
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection 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 18 13C4 PFOS, CAS: STL00991  
Signal: 1

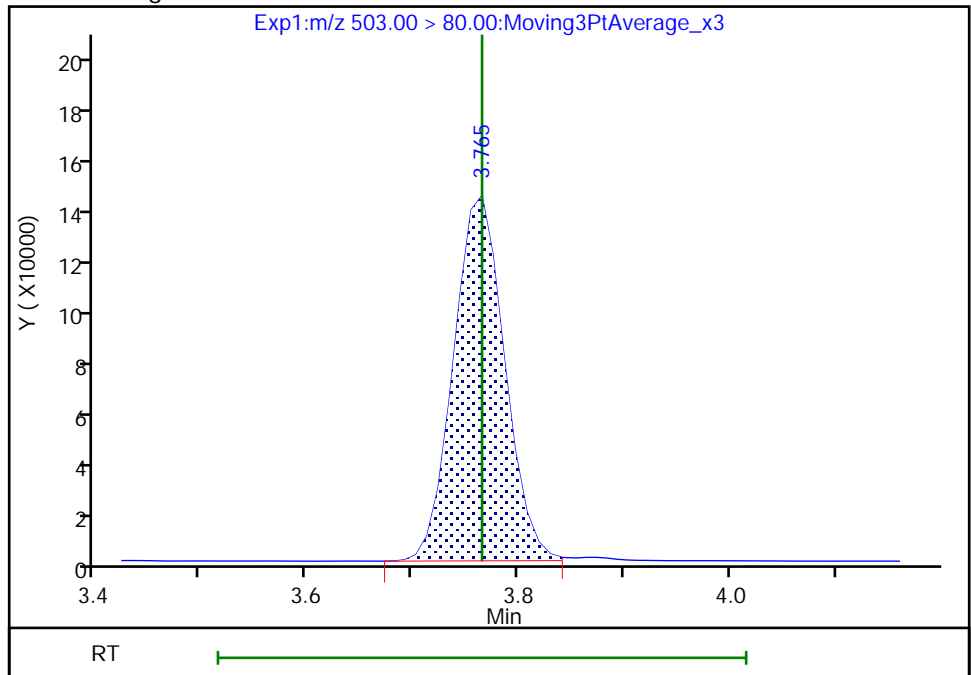
RT: 3.77  
Area: 472962  
Amount: 1.233032  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 469589  
Amount: 1.224239  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:35:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

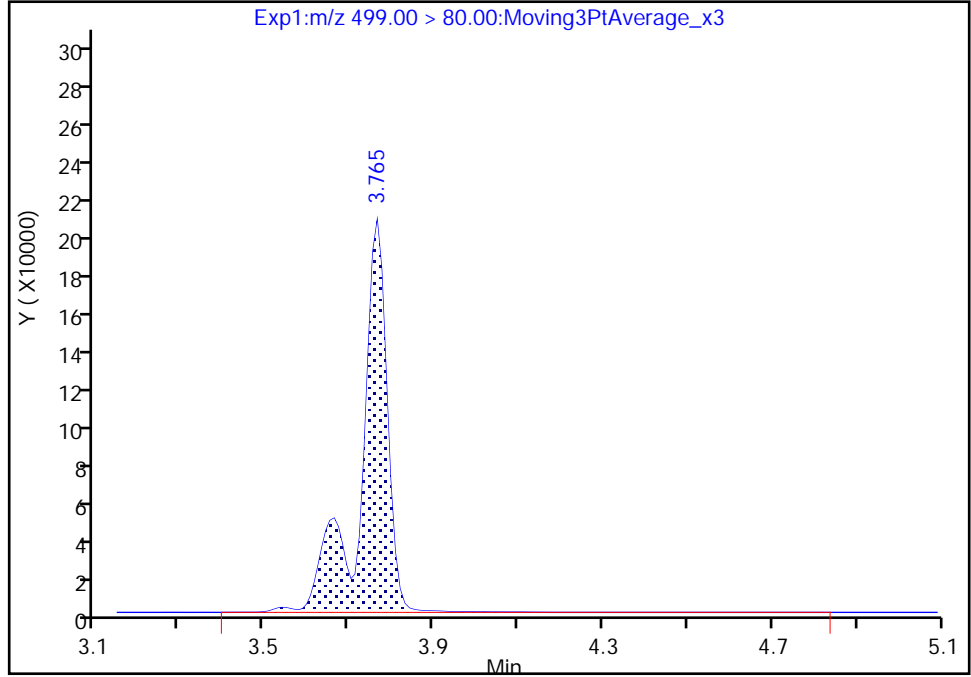
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

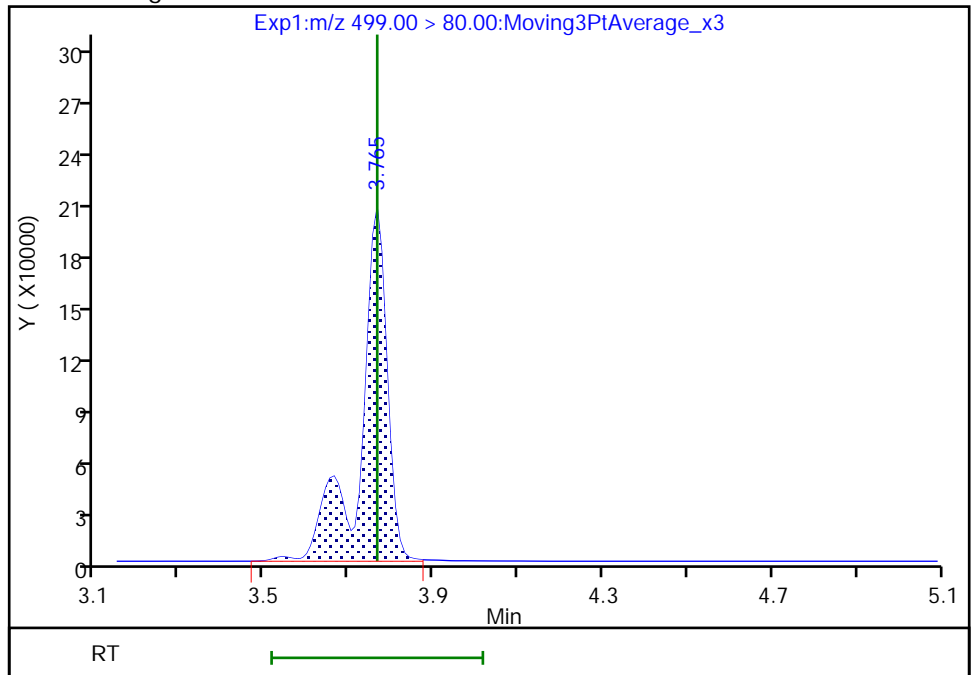
RT: 3.77  
Area: 923408  
Amount: 2.162408  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 918576  
Amount: 2.151092  
Amount Units: ng/ml

Manual Integration Results





Eurofins TestAmerica, Burlington

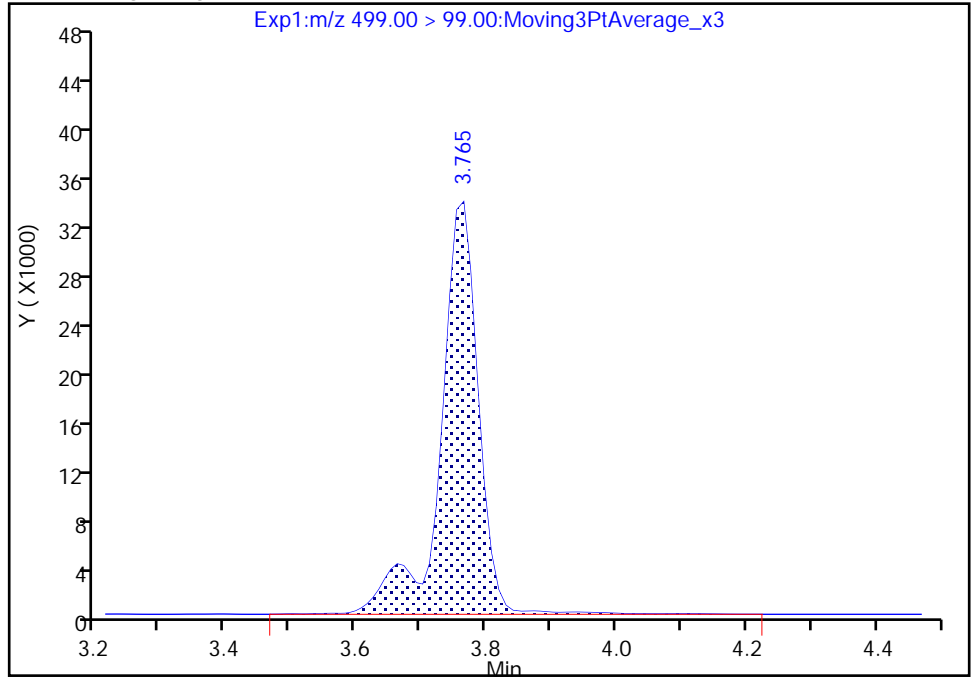
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

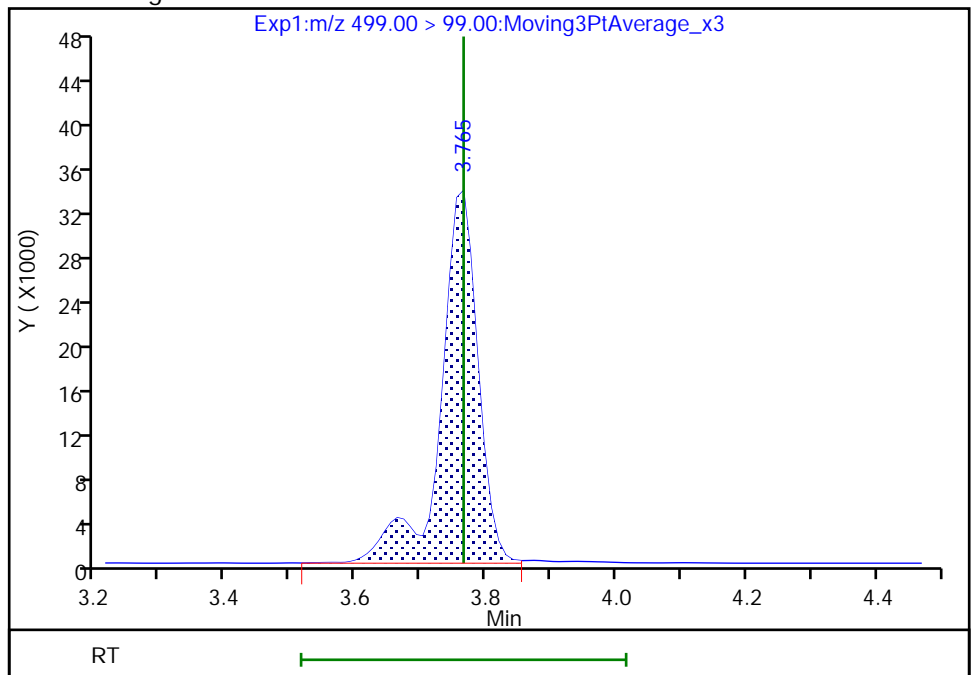
RT: 3.77  
Area: 136808  
Amount: 2.162408  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 134985  
Amount: 2.151092  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:38:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

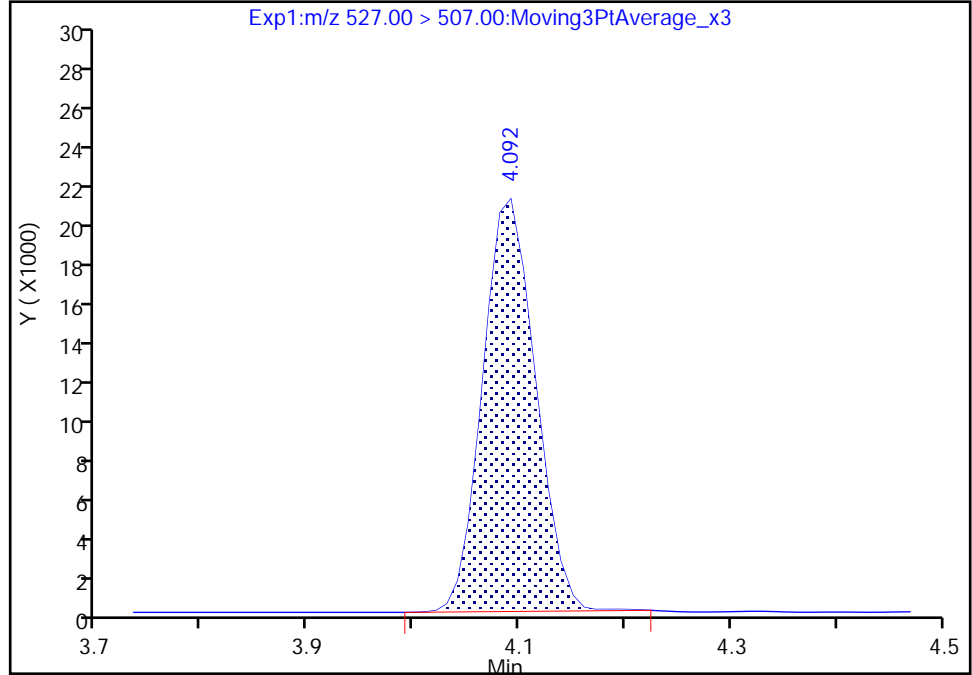
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

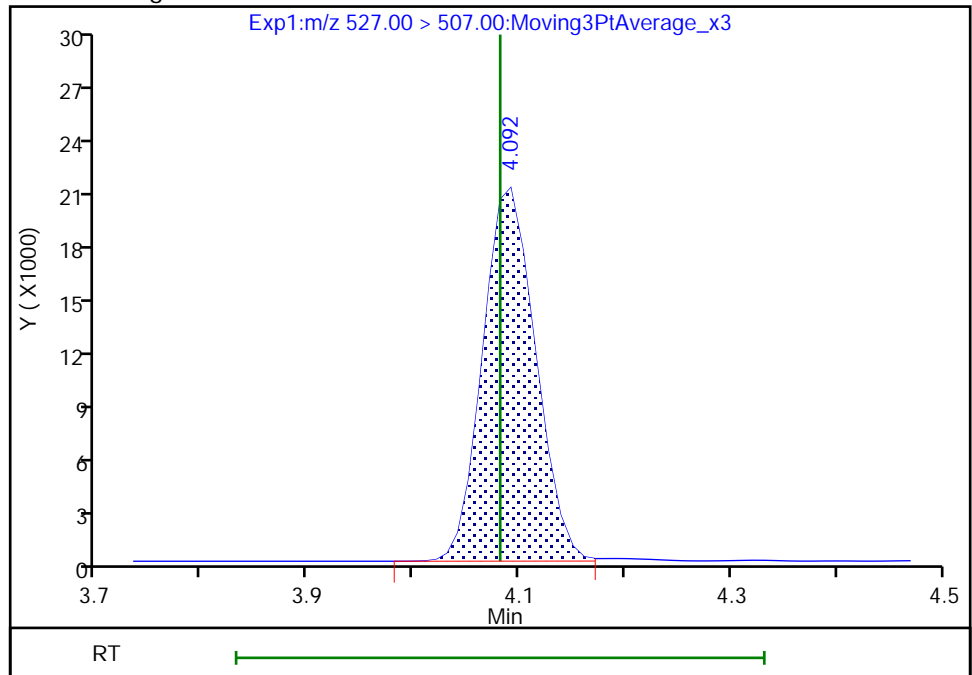
RT: 4.09  
Area: 72049  
Amount: 2.570486  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 72267  
Amount: 2.578264  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:38:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

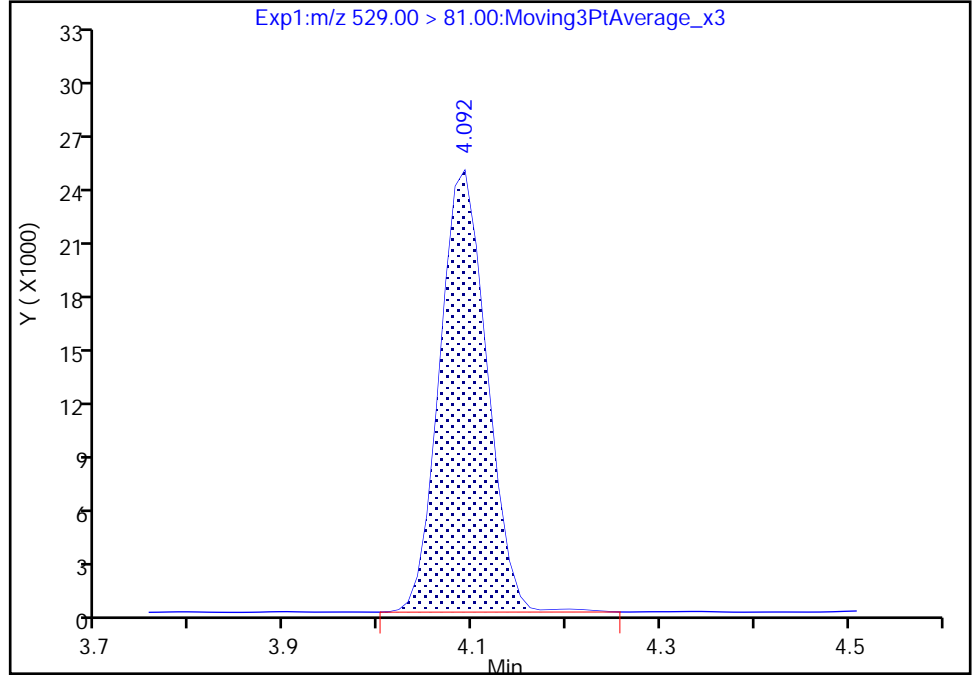
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection 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 26 M2-8:2 FTS, CAS: STL02280  
Signal: 1

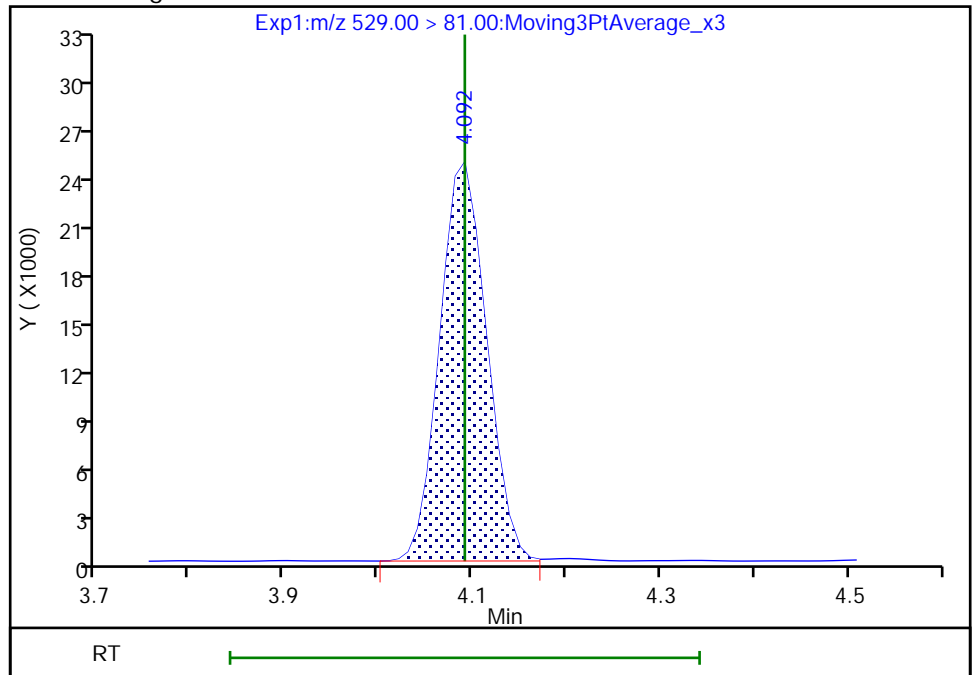
RT: 4.09  
Area: 85259  
Amount: 1.155058  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 84793  
Amount: 1.148745  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:35:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

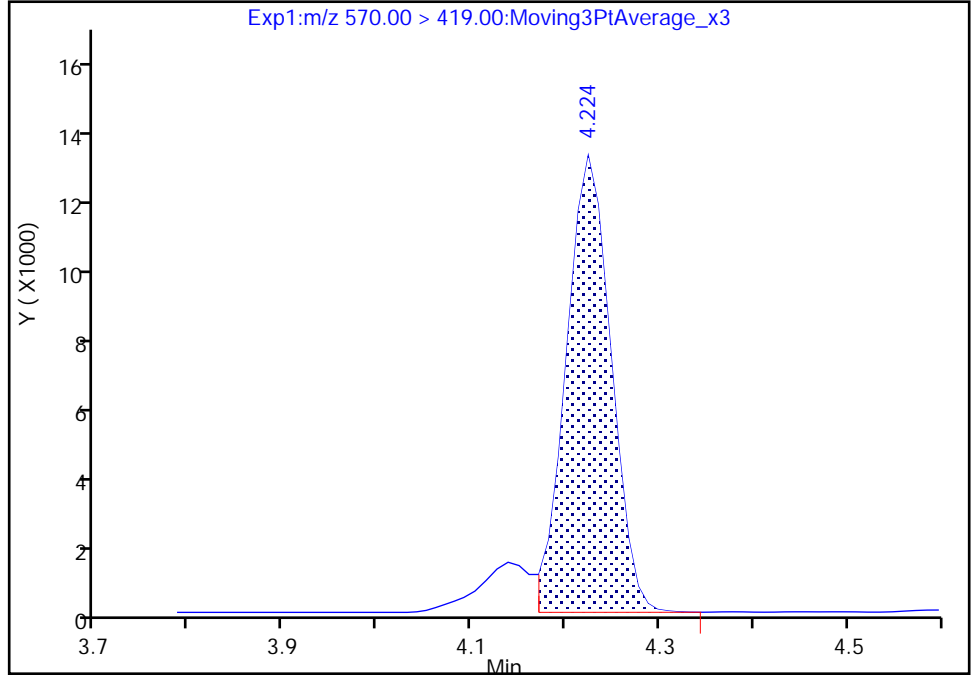
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

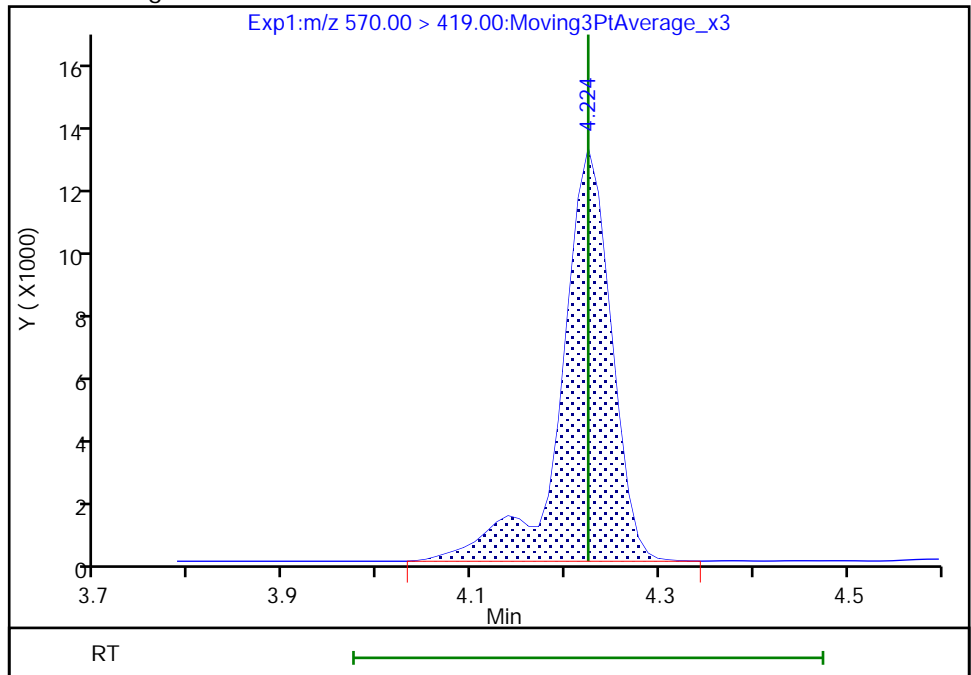
RT: 4.22  
Area: 42968  
Amount: 2.117150  
Amount Units: ng/ml

Processing Integration Results



RT: 4.22  
Area: 48586  
Amount: 2.393964  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:38:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

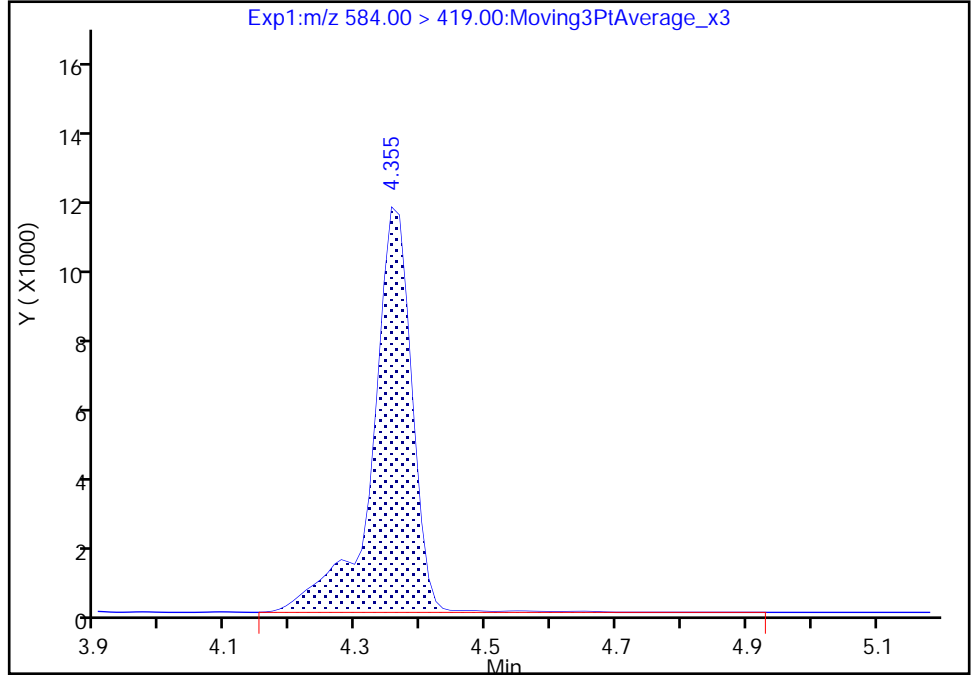
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B27.d  
Injection Date: 30-Sep-2020 21:49:55 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 27 Worklist Smp#: 27  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

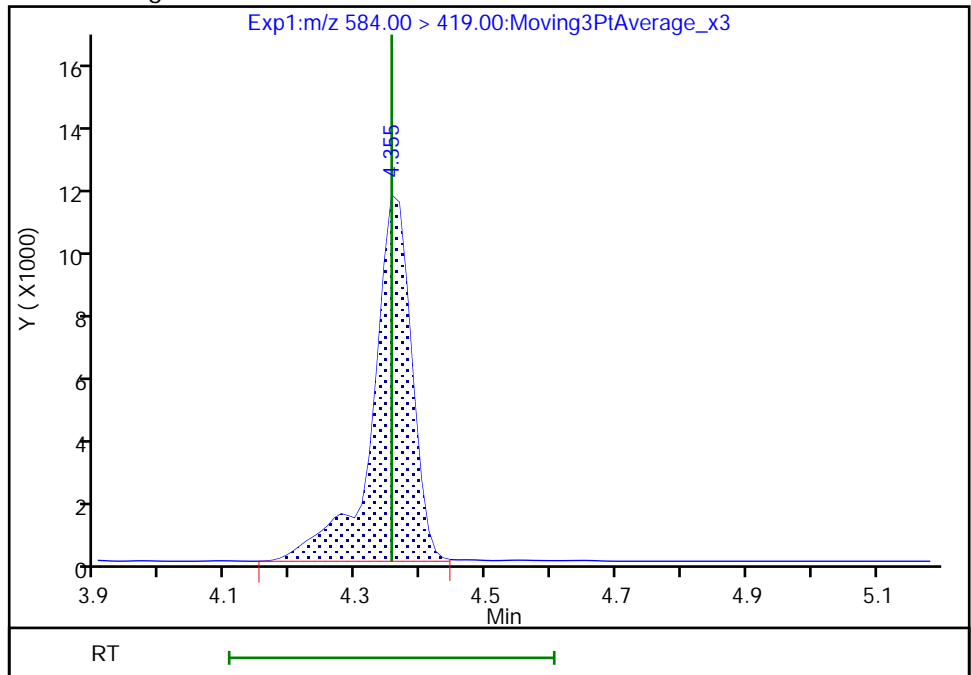
RT: 4.35  
Area: 48851  
Amount: 2.112660  
Amount Units: ng/ml

Processing Integration Results



RT: 4.35  
Area: 48458  
Amount: 2.095664  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:39:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 200-159470/5 Calibration Date: 10/01/2020 18:36  
 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: PA201001A05.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	0.9745		0.130	0.125	4.2	50.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	1.222		0.0578	0.0500	15.7	50.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.083		0.0480	0.0442	8.7	50.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.701		0.0492	0.0467	5.3	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	1.088		0.0540	0.0500	8.1	50.0
Perfluoropentanesulfonic acid (PFPA)	AveID	1.184	1.268		0.0502	0.0469	7.1	50.0
HFPO-DA	AveID	2.128	1.858		0.0873	0.100	-12.7	50.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.238		0.0510	0.0455	12.1	50.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	1.083		0.0540	0.0500	8.1	50.0
DONA	AveID	3.081	3.065		0.0468	0.0471	-0.5	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7943		0.118	0.119	-0.5	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.145		0.0470	0.0476	-1.2	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.146		0.0555	0.0500	11.0	50.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.083		0.0462	0.0464	-0.3	50.0
Perfluorononanoic acid (PFNA)	AveID	1.018	1.218		0.0598	0.0500	19.6	50.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.9283		0.0452	0.0466	-2.9	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8112		0.0453	0.0480	-5.5	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.3631		0.0439	0.0479	-8.3	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	1.116		0.0564	0.0500	12.8	50.0
Perfluorodecanesulfonamide (PFOSA)	AveID	0.9348	0.9073		0.0485	0.0500	-2.9	50.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9360		0.124	0.125	-0.8	50.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.7207		0.0483	0.0482	0.3	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	1.019		0.0516	0.0500	3.3	50.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.8889		0.121	0.125	-2.9	50.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.8561		0.0489	0.0471	3.8	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.9907		0.0508	0.0500	1.6	50.0
10:2 FTS	AveID	0.2199	0.2175		0.0477	0.0482	-1.1	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.1948		0.0409	0.0484	-15.5	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8801		0.0531	0.0500	6.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2776		0.0606	0.0500	21.2	50.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVL 200-159470/5 Calibration Date: 10/01/2020 18:36  
 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: PA201001A05.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		1.237		0.0478	0.0500	-4.4	50.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.8159		0.0546	0.0500	9.2	50.0
13C4 PFBA	Ave	1.433	1.624		1.42	1.25	13.4	50.0
13C5 PFPeA	Ave	1.027	1.097		1.34	1.25	6.8	50.0
13C3 PFBS	Ave	1.251	1.367		1.27	1.16	9.3	50.0
M2-4:2 FTS	Ave	0.0939	0.1032		1.28	1.17	9.8	50.0
13C2 PFHxA	Ave	1.058	1.136		1.34	1.25	7.4	50.0
13C3 HFPO-DA	Ave	0.0985	0.1265		1.60	1.25	28.4	50.0
1802 PFHxS	Ave	0.8974	0.9566		1.26	1.18	6.6	50.0
13C4 PFHpA	Ave	0.9620	1.016		1.32	1.25	5.7	50.0
M2-6:2 FTS	Ave	0.1199	0.1266		1.25	1.19	5.6	50.0
13C4 PFOA	Ave	0.9845	1.000		1.27	1.25	1.5	50.0
13C4 PFOS	Ave	0.7341	0.8108		1.32	1.20	10.5	50.0
13C5 PFNA	Ave	0.8296	0.8109		1.22	1.25	-2.3	50.0
13C2 PFDA	Ave	0.7956	0.8038		1.26	1.25	1.0	50.0
M2-8:2 FTS	Ave	0.1413	0.1529		1.30	1.20	8.3	50.0
13C8 FOSA	Ave	1.282	1.303		1.27	1.25	1.6	50.0
d3-NMeFOSAA	Ave	0.0453	0.0442		1.22	1.25	-2.5	50.0
13C2 PFUnA	Ave	0.6006	0.5842		1.22	1.25	-2.7	50.0
d5-NEtFOSAA	Ave	0.0487	0.0529		1.36	1.25	8.6	50.0
13C2 PFDoA	Ave	0.6348	0.5905		1.16	1.25	-7.0	50.0
13C2 PFTeDA	Ave	0.4522	0.4183		1.16	1.25	-7.5	50.0
13C2 PFHxDA	Ave	0.5124	0.4060		0.990	1.25	-20.8	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
 Lims ID: CCVL  
 Client ID:  
 Sample Type: CCVL  
 Inject. Date: 01-Oct-2020 18:36:55 ALS Bottle#: 2 Worklist Smp#: 5  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCVL  
 Misc. Info.: 200-0043055-005 Plate: 1 Rack: 1  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 02-Oct-2020 15:15:33 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: CTX1005

First Level Reviewer: manopan Date: 02-Oct-2020 08:31:02

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	2.000	1.990	0.010	0.578	999397	1.42	113	18080	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.000	2.000	0.0	1.000	97387	0.1303		104	29.2	M
D 3 13C5 PFPeA	267.90 > 223.00	2.339	2.326	0.013	0.676	674935	1.34	107	3000	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.339	2.326	0.013	1.000	32978	0.0578		116	2.5	M
D 47 13C3 PFBS	301.90 > 80.00	2.353	2.353	0.0	0.680	782087	1.27	109	281516	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.367	2.353	0.014	1.006	32198	0.0480	Target=2.07	109	139	M
298.90 > 99.00	2.353	2.353	0.0	1.000	15763		2.04(1.04-3.11)		33.5	
D 60 M2-4:2 FTS	329.00 > 81.00	2.665	2.666	-0.001	0.771	59289	1.28	110	146	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.665	2.666	-0.001	1.000	4034	0.0492		105	128	M
D 7 13C2 PFHxA	315.00 > 270.00	2.716	2.703	0.013	0.785	698682	1.34	107	2855	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.716	2.703	0.013	1.000	30414	0.0540	Target=12.44	108	18.1	M
313.00 > 119.00	2.716	2.703	0.013	1.000	2536		11.99(6.22-18.66)		3.1	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.716	2.716	0.0	0.881	27993	0.0502	Target=3.64	107	196	M
349.00 > 99.00	2.716	2.716	0.0	0.881	8907		3.14(1.82-5.46)		74.5	M
D 64 13C3 HFPO-DA	332.10 > 287.00	2.826	2.818	0.008	0.817	77841	1.60	128	1467	



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	2.818	0.0	0.997	11570	0.0873		87.3	3.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.084	3.085	0.0	0.892	556774	1.26		107	1289	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.085	0.0	1.000	26530	0.0510	Target=4.60	112	92.0	M
399.00 > 99.00	3.084	3.085	0.0	1.000	5356		4.95(2.30-6.91)		20.1	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.085	0.012	0.895	625393	1.32		106	5385	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.096	3.085	0.012	1.000	27088	0.0540	Target=3.34	108	23.3	M
363.00 > 169.00	3.096	3.085	0.012	1.000	6281		4.31(1.67-5.01)		14.7	M
77 DONA										M
377.00 > 251.00	3.132	3.124	0.008	0.830	57606	0.0468	Target=2.44	99.5	289	M
377.00 > 85.00	3.132	3.124	0.008	0.830	22920		2.51(1.22-3.67)		84.4	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.441	0.0	0.912	21750	0.0470	Target=7.08	98.8	250	M
449.00 > 99.00	3.441	3.441	0.0	0.912	2943		7.39(3.54-10.63)		53.7	M
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.441	3.450	-0.009	0.997	5868	0.1179		99.5	156	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.450	0.0	0.997	74028	1.25		106	950	
D 14 13C4 PFOA										
417.00 > 372.00	3.458	3.459	-0.001	1.000	614970	1.27		102	3882	
* 62 13C2 PFOA										
415.00 > 370.00	3.458	3.459	-0.001		615273	1.25			3086	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.458	3.459	-0.001	1.000	28202	0.0555	Target=2.29	111	21.0	M
413.00 > 169.00	3.458	3.459	-0.001	1.000	11503		2.45(1.14-3.43)		37.1	M
D 18 13C4 PFOS										
503.00 > 80.00	3.775	3.766	0.009	1.092	476898	1.32		110	2273	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.775	3.776	-0.001	1.000	20054	0.0462	Target=7.10	99.7	82.9	M
499.00 > 99.00	3.775	3.776	-0.001	1.000	3684		5.44(3.55-10.64)		37.0	M
D 19 13C5 PFNA										
468.00 > 423.00	3.785	3.786	-0.001	1.095	498896	1.22		97.7	4536	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.785	3.797	-0.012	1.000	24300	0.0598	Target=5.83	120	13.3	M
463.00 > 169.00	3.785	3.797	-0.012	1.000	3552		6.84(2.91-8.74)		101	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.931	3.932	-0.001	1.041	17263	0.0452		97.1	337	M
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.061	4.062	-0.001	1.076	15540	0.0453	Target=3.38	94.5	321	M
549.00 > 99.00	4.061	4.062	-0.001	1.076	5269		2.95(1.69-5.08)		48.2	M
D 23 13C2 PFDA										
515.00 > 470.00	4.091	4.092	-0.001	1.183	494582	1.26		101	2749	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.091	4.092	-0.001	1.000	22078	0.0564	Target=6.81	113	60.9	
513.00 > 169.00	4.081	4.092	-0.011	0.998	3253		6.79(3.41-10.22)		78.6	M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.091	4.092	-0.001	1.000	1309	0.0439		91.7	43.9	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.091	4.092	-0.001	1.183	90138	1.30		108	1350	
D 21 13C8 FOSA										
506.00 > 78.00	4.150	4.151	-0.001	1.200	801735	1.27		102	2492	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.150	4.151	-0.001	1.000	29097	0.0485		97.1	88.5	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.235	-0.010	1.222	27179	1.22		97.5	567	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.235	4.235	0.0	1.002	2544	0.1240		99.2	40.8	M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.321	4.321	0.0	1.145	13864	0.0483	Target=3.31	100	104	M
599.00 > 99.00	4.321	4.321	0.0	1.145	3908		3.55(1.66-4.97)		36.5	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.259	359454	1.22		97.3	4880	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.355	0.0	1.000	14649	0.0516	Target=6.57	103	27.4	M
563.00 > 169.00	4.355	4.355	0.0	1.000	2349		6.24(3.28-9.85)		63.8	M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.367	4.366	0.001	1.263	32523	1.36		109	550	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.367	4.366	0.001	1.000	2891	0.1214		97.1	74.2	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.445	4.444	0.001	1.177	16092	0.0489		104	432	
D 36 13C2 PFDaA										
615.00 > 570.00	4.586	4.585	0.001	1.326	363334	1.16		93.0	1931	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.586	4.585	0.001	1.000	14398	0.0508	Target=5.16	102	26.8	M
613.00 > 169.00	4.586	4.585	0.001	1.000	3021		4.77(2.58-7.75)		85.6	M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.598	4.597	0.001	1.124	789	0.0477		98.9	29.7	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.754	4.754	0.0	1.259	3763	0.0409	Target=0.45	84.5	18.5	
699.00 > 99.00	4.754	4.754	0.0	1.259	8306		0.45(0.22-0.67)		198	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.790	4.790	0.0	1.044	12791	0.0531	Target=3.30	106	15.5	
663.00 > 169.00	4.790	4.790	0.0	1.044	3515		3.64(1.65-4.95)		123	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.978	4.988	-0.010	1.439	257370	1.16		92.5	4022	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.978	4.988	-0.010	1.000	2858	0.0606	Target=1.06	121	152	M
713.00 > 219.00	4.988	4.988	0.0	1.002	2339		1.22(0.53-1.59)		96.3	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	5.340	5.350	-0.010	1.544	249790	0.99		79.2	2459	
45 Perfluorohexadecanoic acid										M
813.00 > 769.00	5.350	5.350	0.0	1.002	12364	0.0478	Target=3.06	95.6	11.7	
813.00 > 169.00	5.350	5.350	0.0	1.002	3761		3.29(1.53-4.58)		203	M
46 Perfluorooctadecanoic acid										M
913.00 > 869.00	5.711	5.711	0.0	1.070	8152	0.0546	Target=2.82	109	21.2	M
913.00 > 169.00	5.711	5.711	0.0	1.070	2789		2.92(1.41-4.24)		140	M

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

PFAS32NCLOQV\_00010

Amount Added: 100.00

Units: uL

Data File: \\chromf\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d

Injection Date: 01-Oct-2020 18:36:55

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

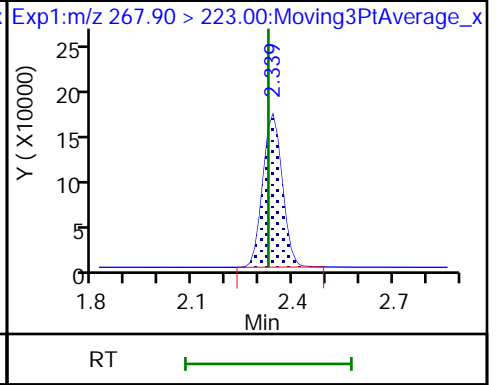
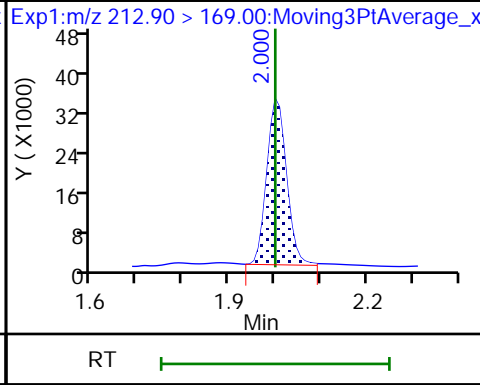
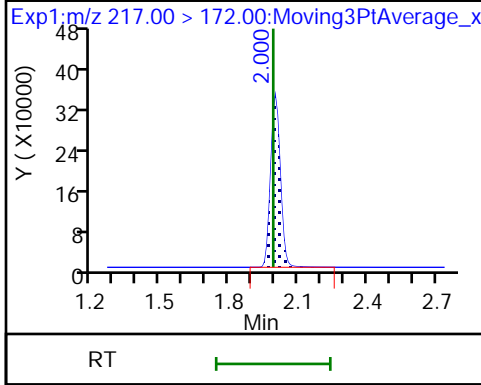
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

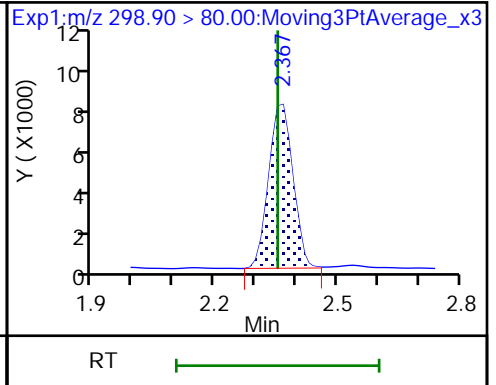
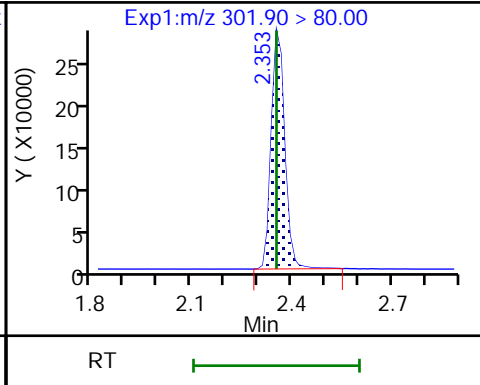
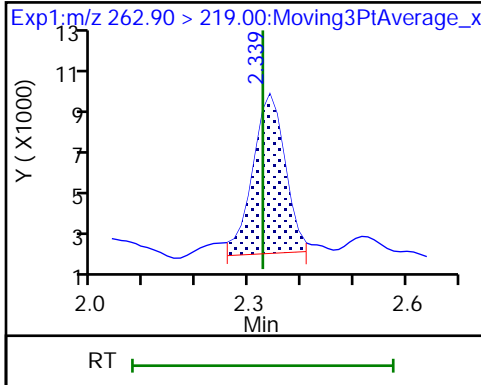
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

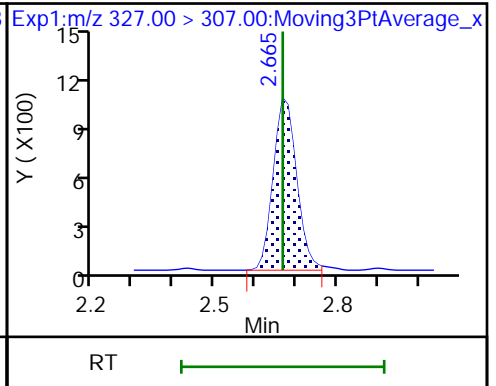
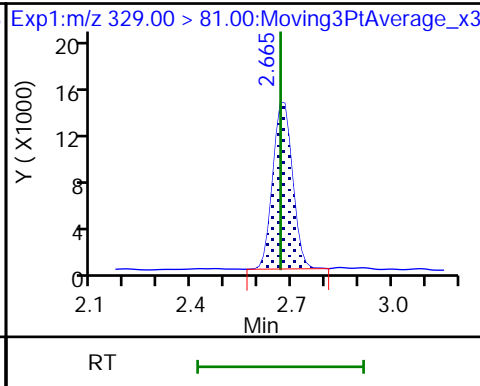
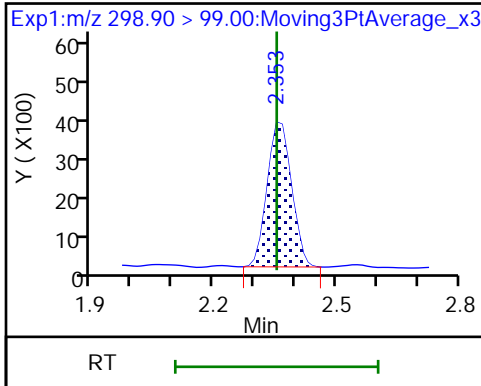
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

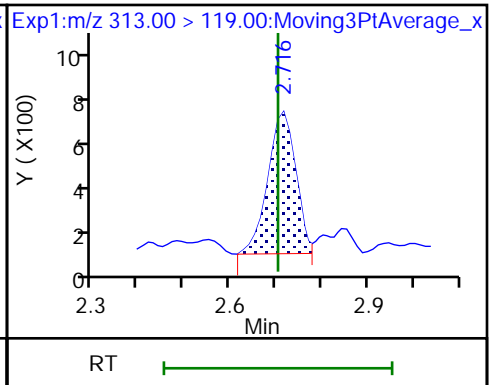
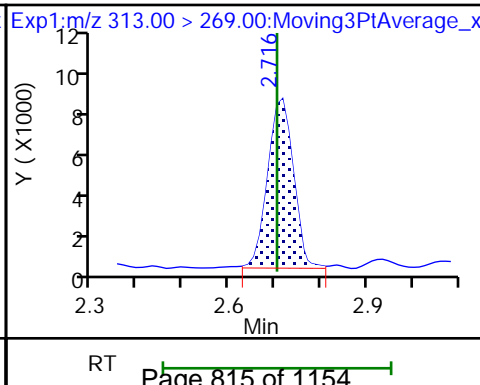
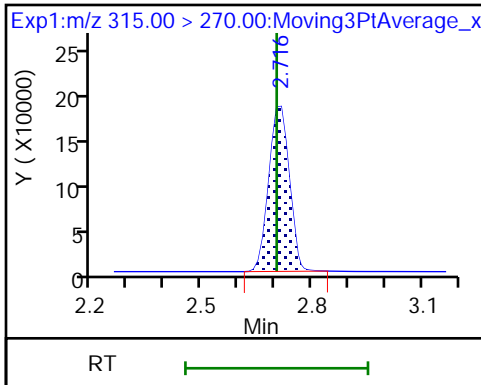
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



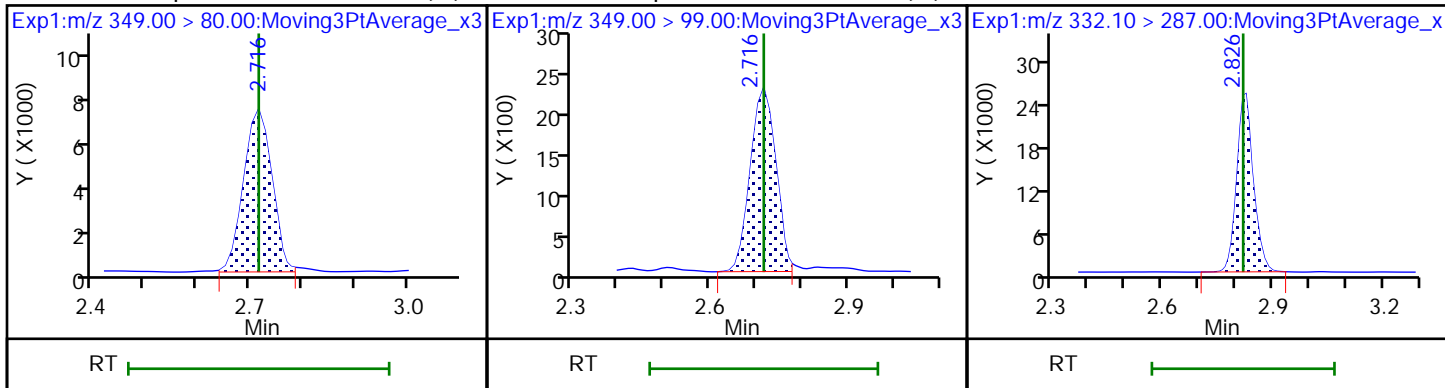
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

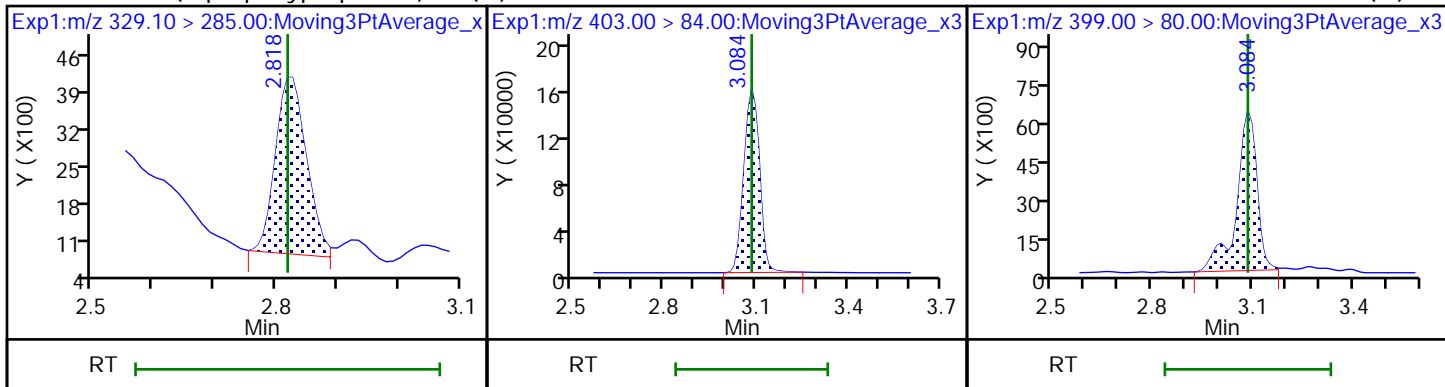
6 Perfluorohexanoic acid (M)



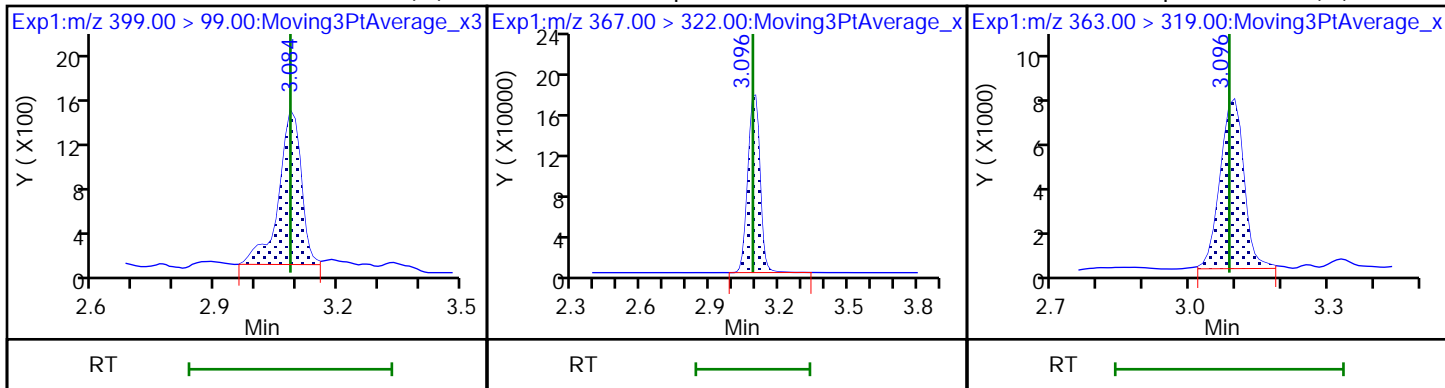
70 Perfluoropentanesulfonic acid (M) 70 Perfluoropentanesulfonic acid (M) D 64 13C3 HFPO-DA



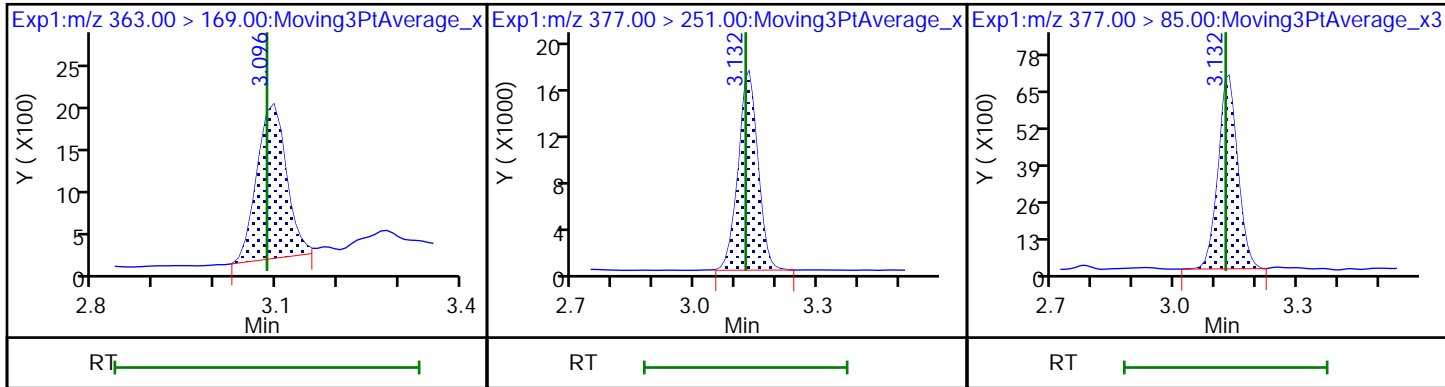
67 Perfluoro(2-propoxypropanoic) ac (M) 11 18O2 PFHxS 8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M) D 9 13C4 PFHpA 10 Perfluoroheptanoic acid (M)



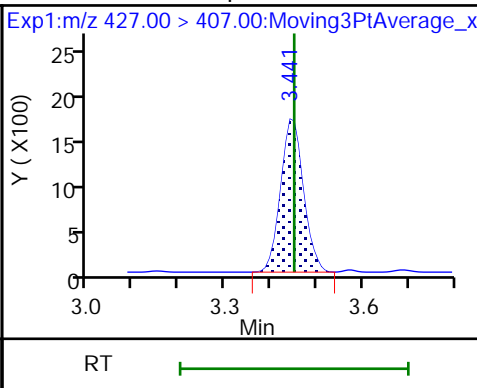
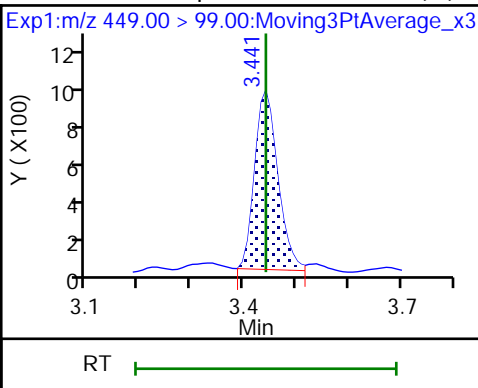
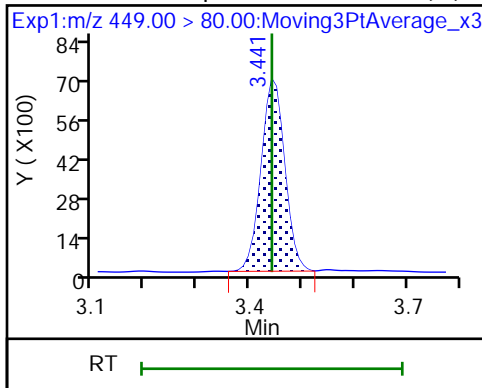
10 Perfluoroheptanoic acid (M) 77 DONA (M) 77 DONA



16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

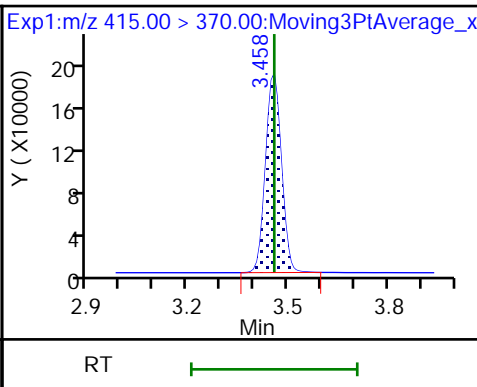
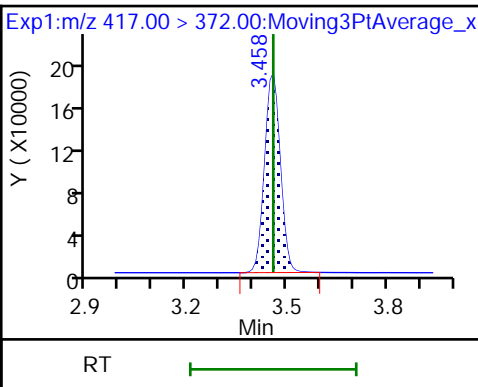
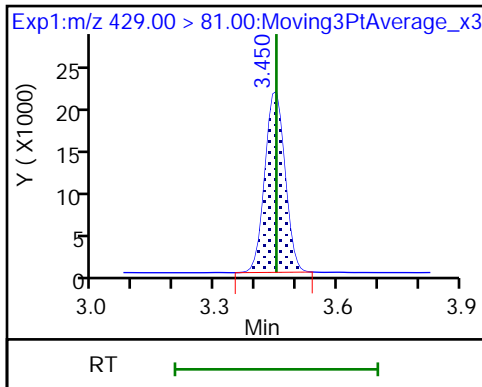
13 1H,1H,2H,2H-perfluorooctanesulfo



D 12 M2-6:2 FTS

D 14 13C4 PFOA

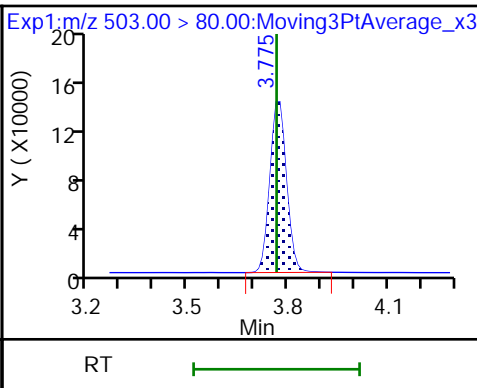
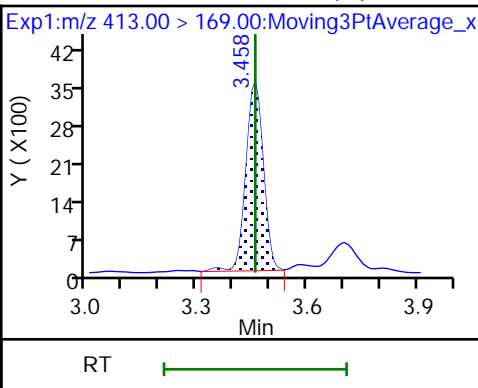
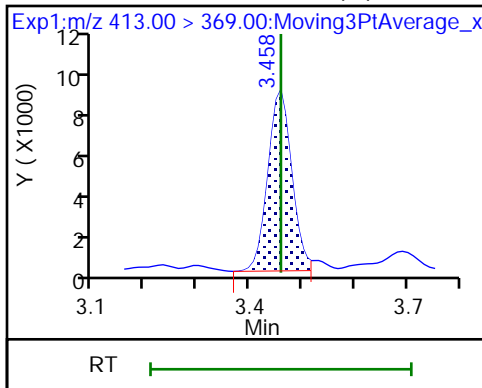
\* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

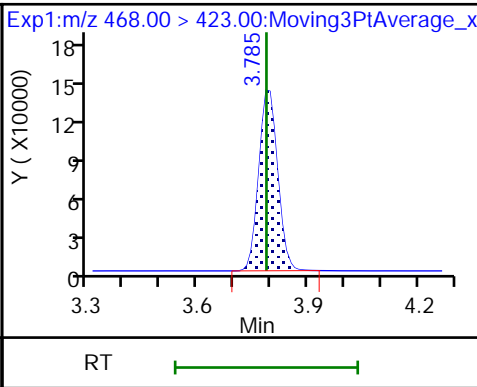
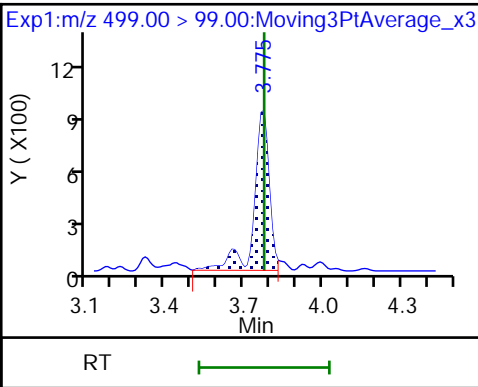
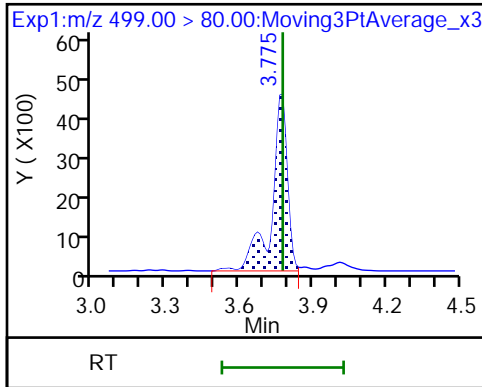
D 18 13C4 PFOS

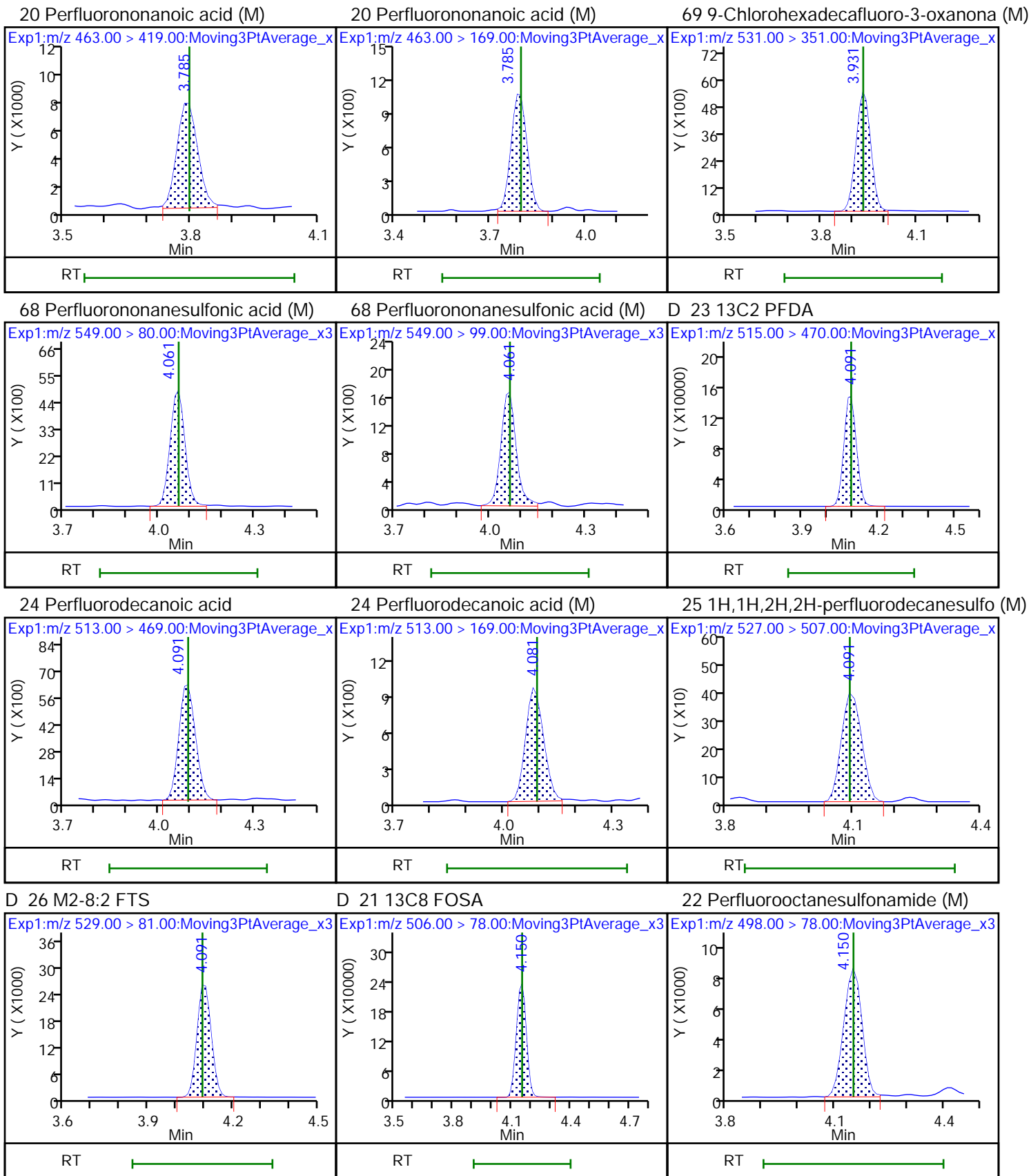


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

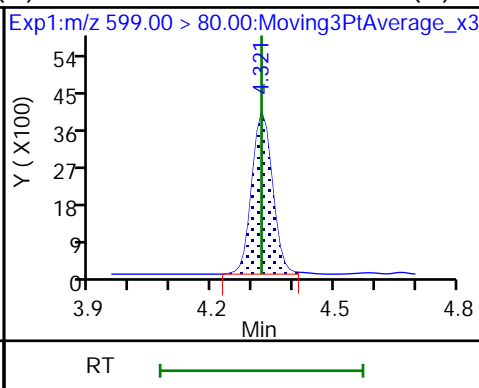
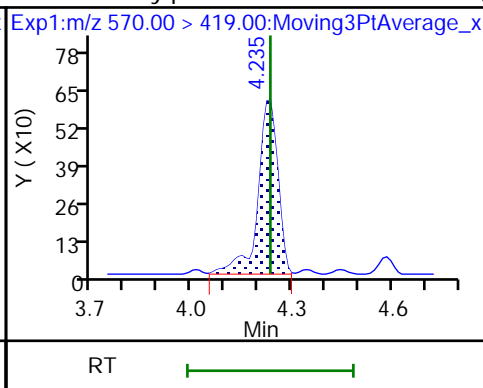
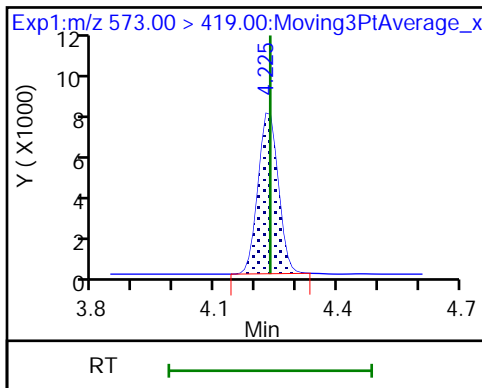
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

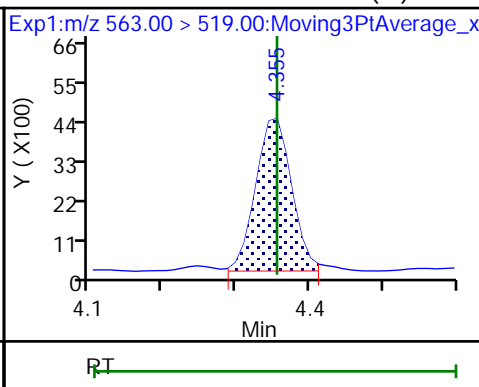
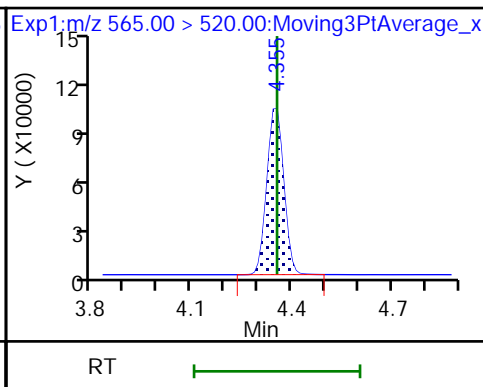
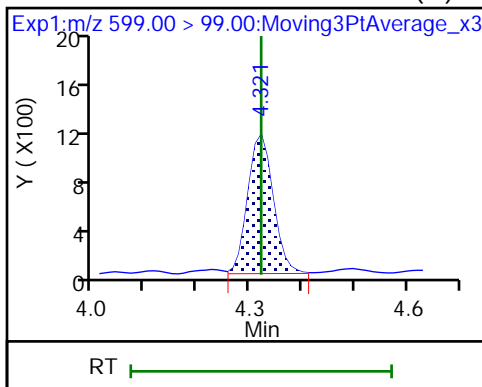
28 N-methylperfluorooctanesulfonami (M)  
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

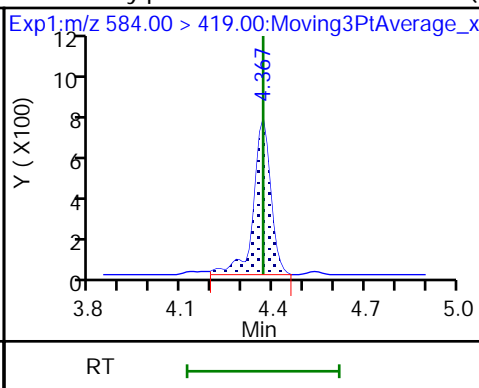
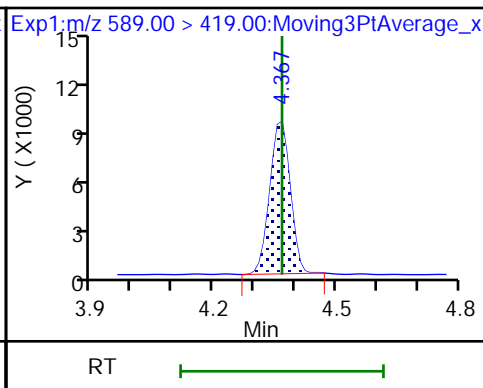
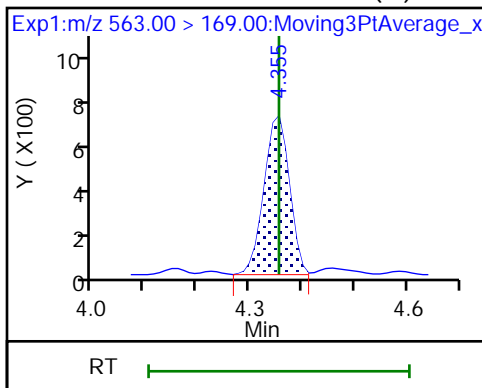
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

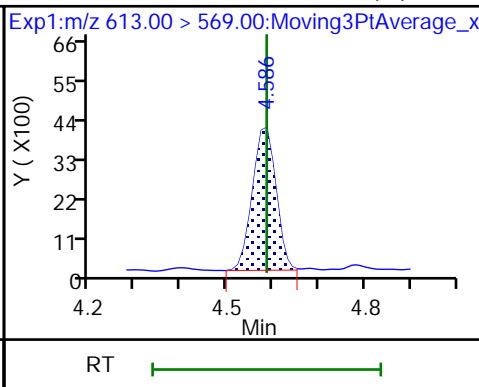
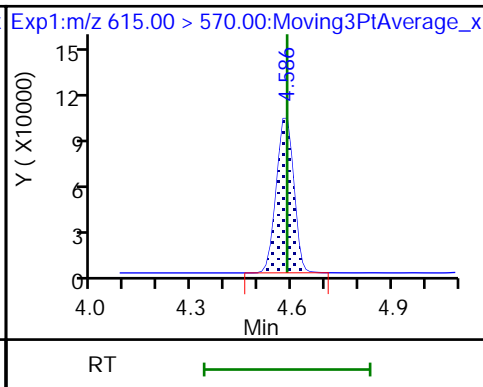
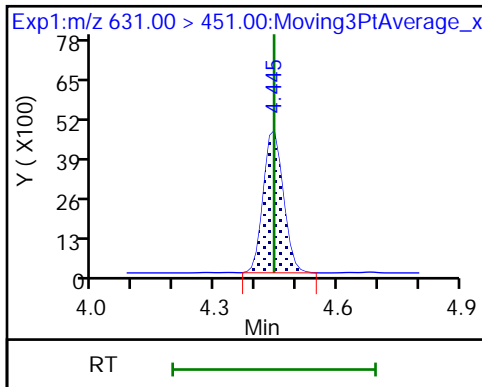
33 N-ethylperfluorooctanesulfonamid (M)



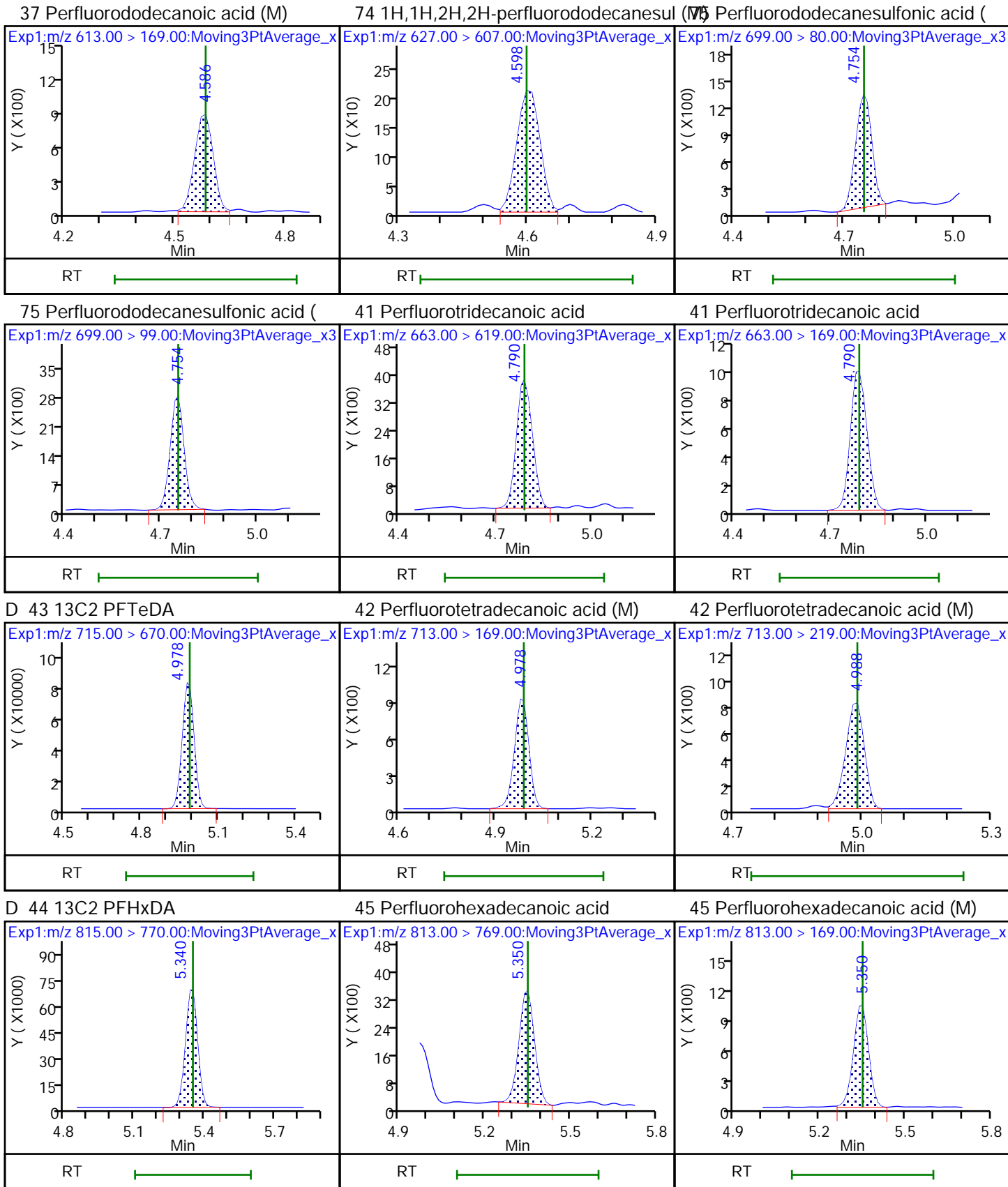
66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

37 Perfluorododecanoic acid (M)

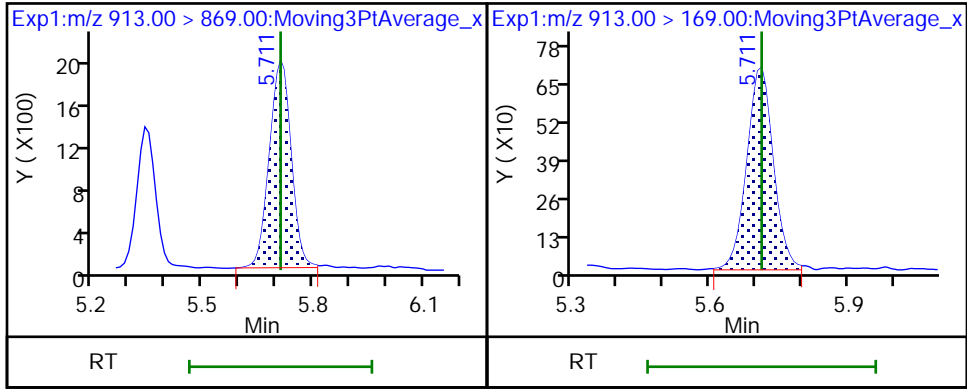






46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

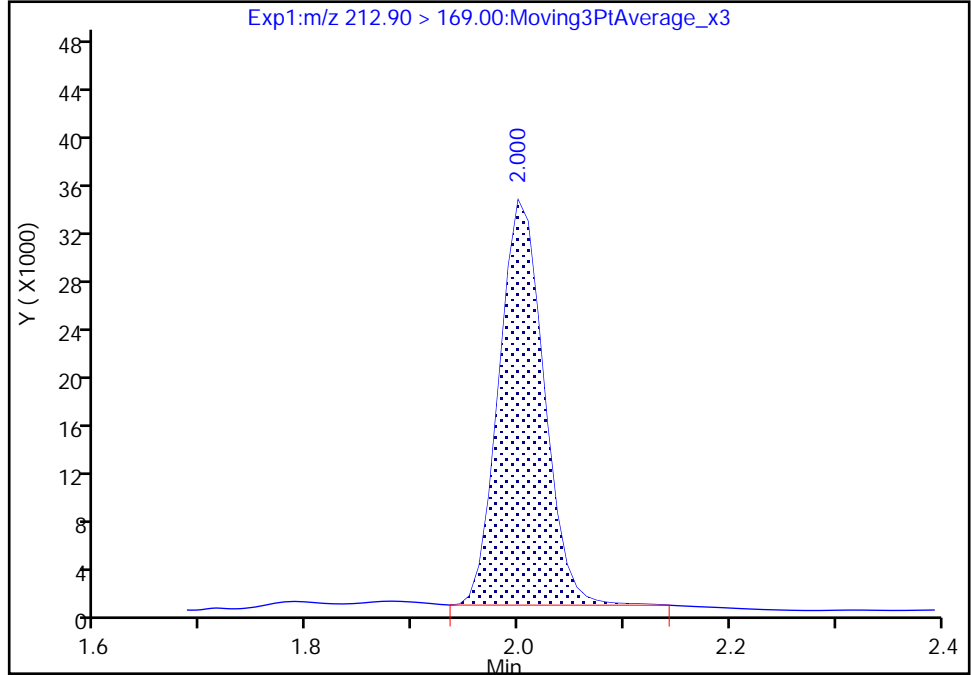
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

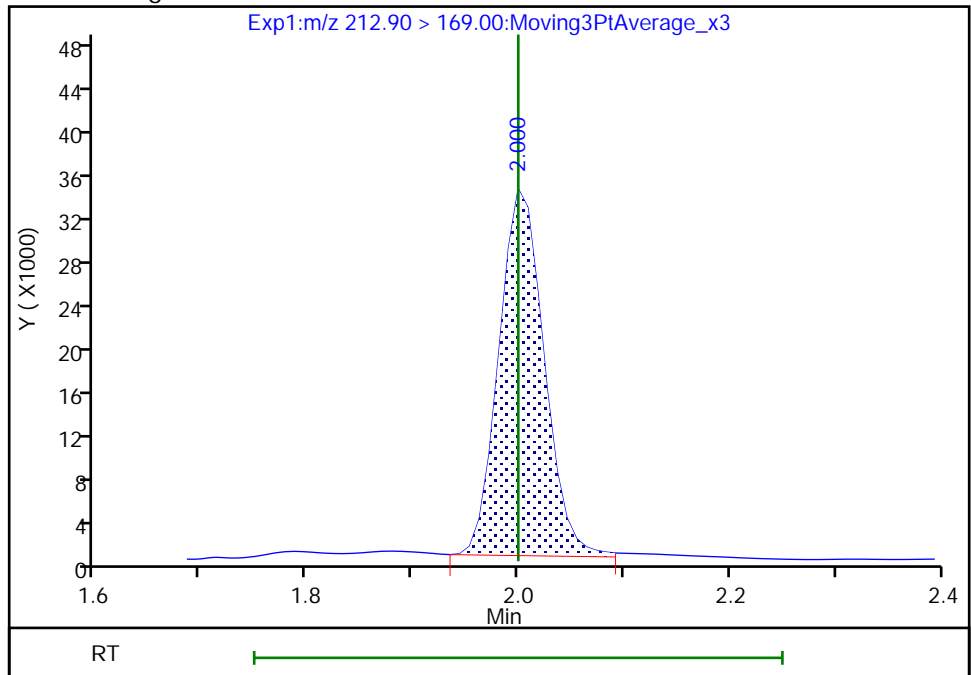
RT: 2.00  
Area: 96691  
Amount: 0.129380  
Amount Units: ng/ml

Processing Integration Results



RT: 2.00  
Area: 97387  
Amount: 0.130311  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

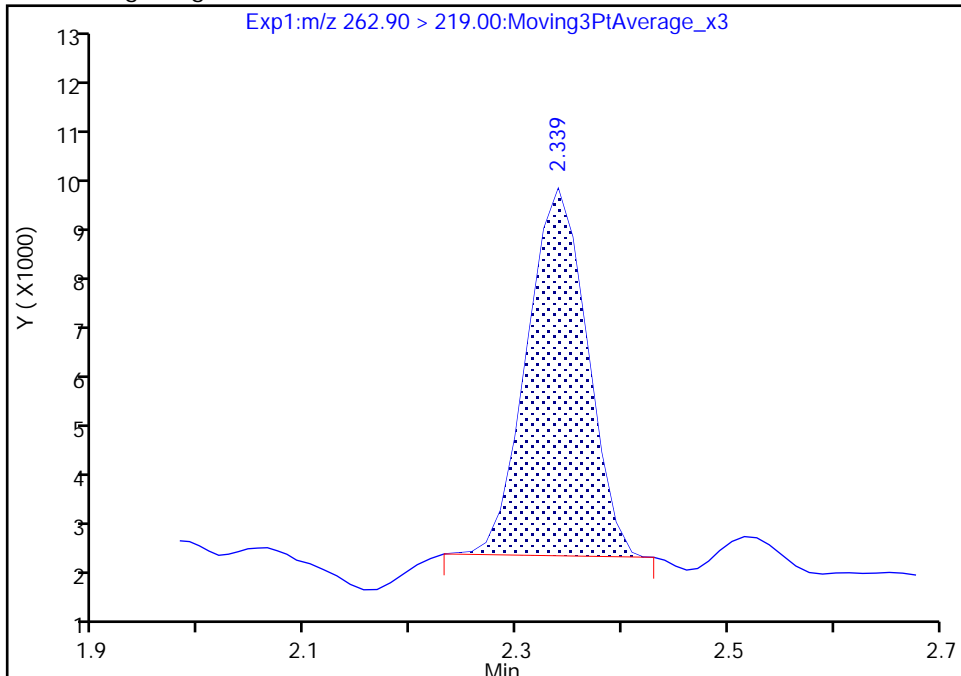
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

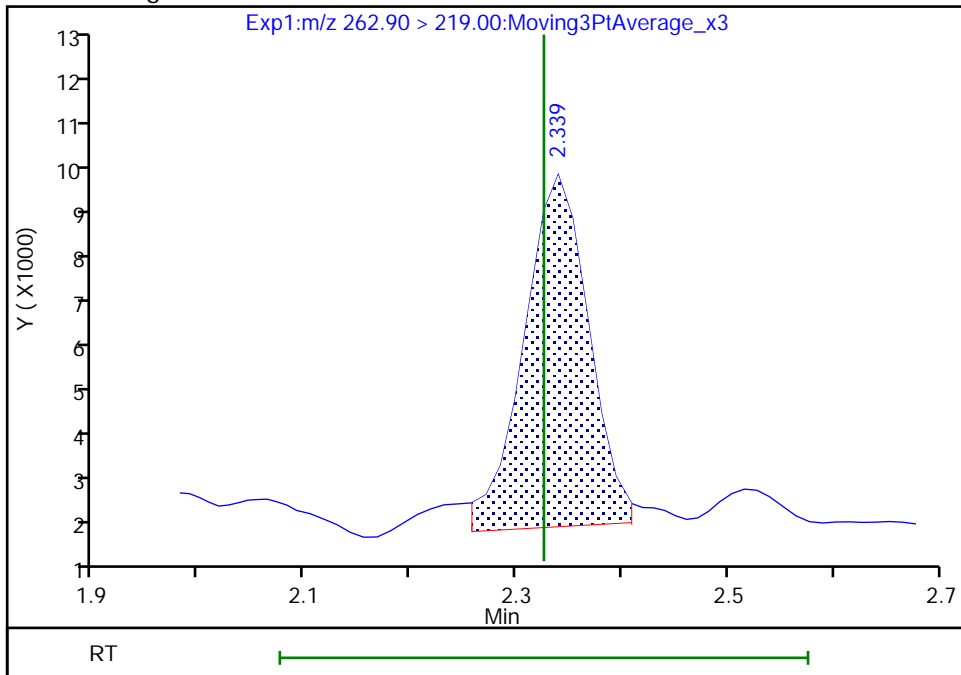
RT: 2.34  
Area: 28934  
Amount: 0.050741  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 32978  
Amount: 0.057833  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:11:06  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

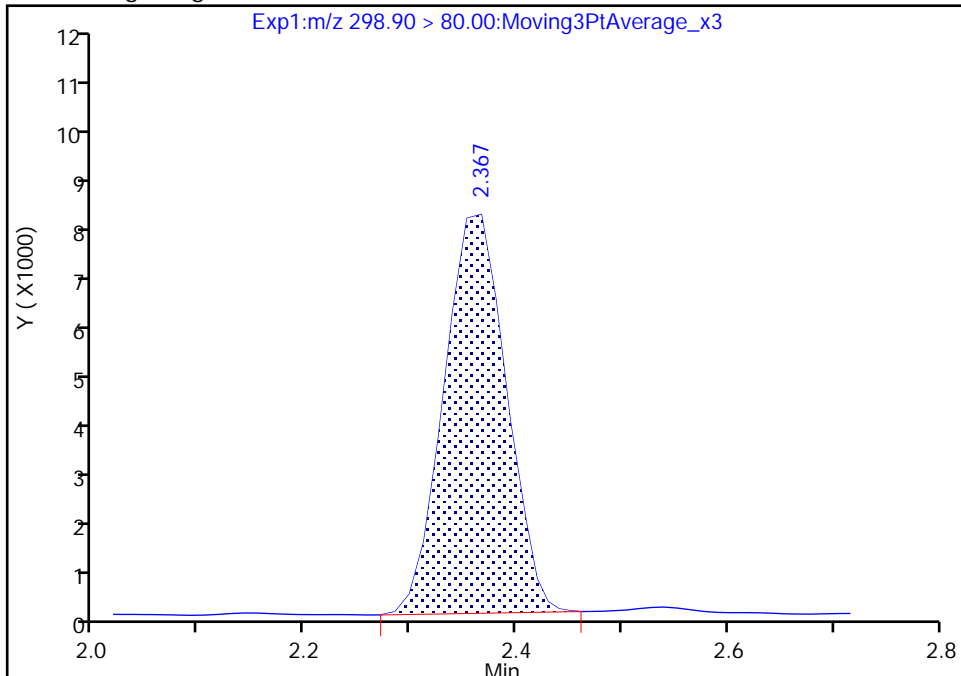
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

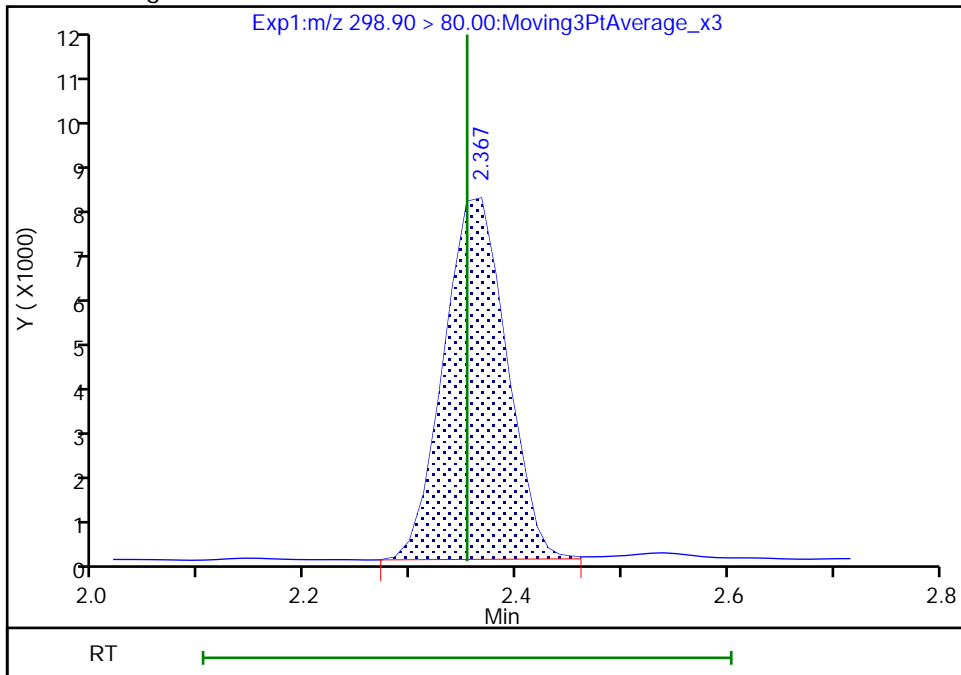
RT: 2.37  
Area: 31976  
Amount: 0.047700  
Amount Units: ng/ml

Processing Integration Results



RT: 2.37  
Area: 32198  
Amount: 0.048032  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:11:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

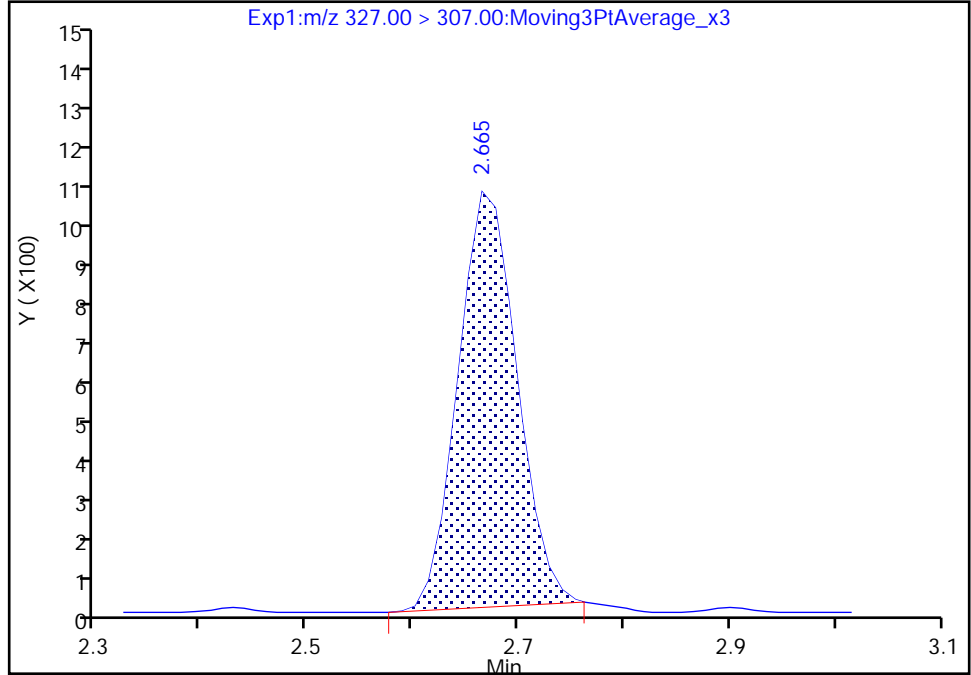
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

61 1H,1H,2H,2H-perfluorohexanesulfo, CAS: 757124-72-4

Signal: 1

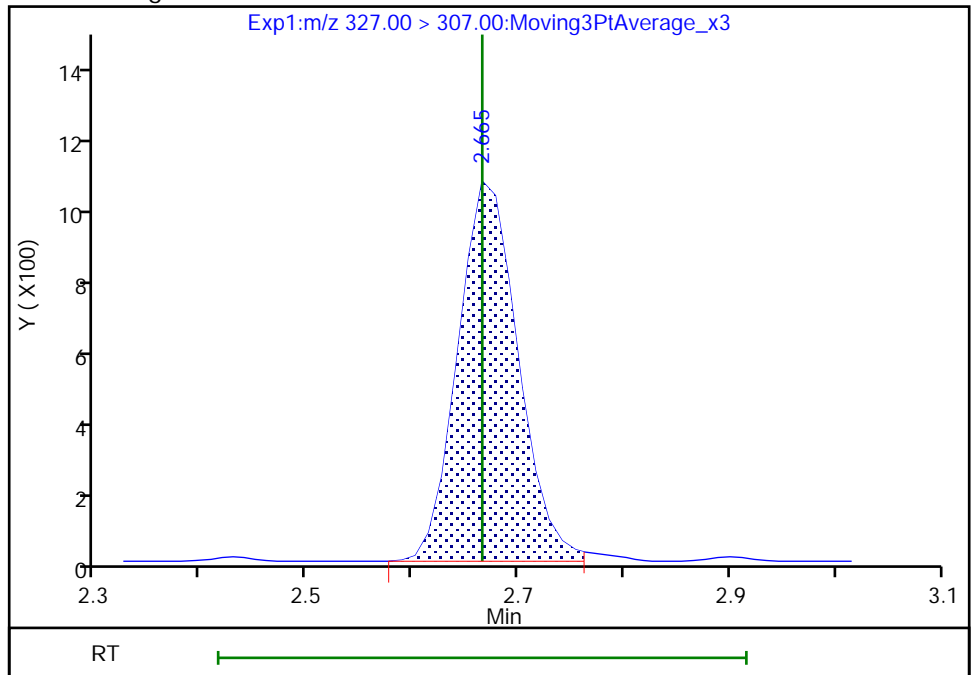
RT: 2.67  
Area: 3895  
Amount: 0.047459  
Amount Units: ng/ml

Processing Integration Results



RT: 2.67  
Area: 4034  
Amount: 0.049153  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:11:44  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

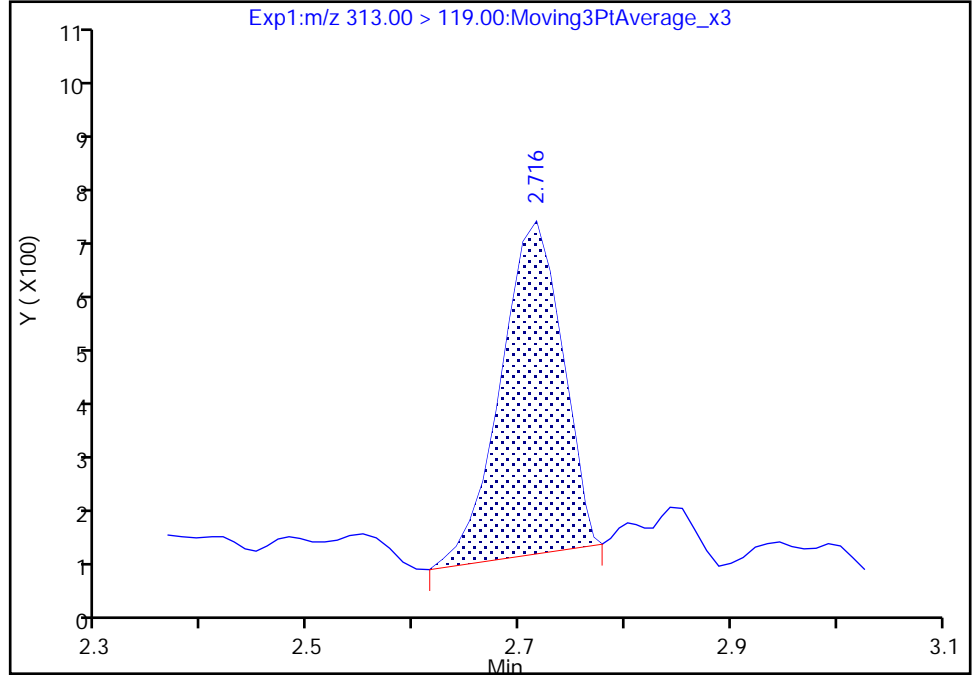
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

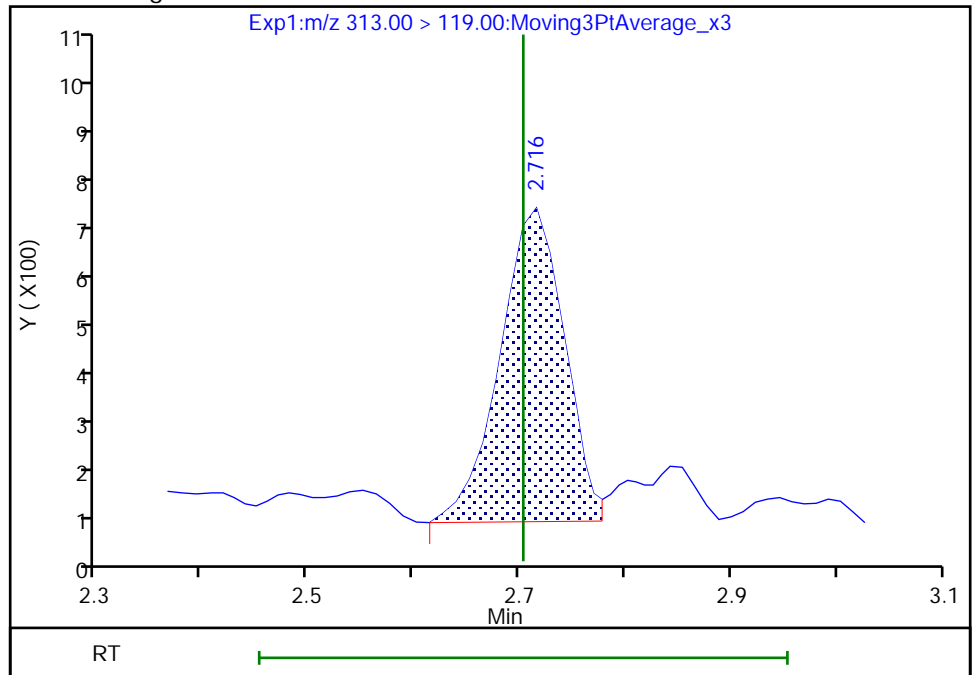
RT: 2.72  
Area: 2335  
Amount: 0.053972  
Amount Units: ng/ml

Processing Integration Results



RT: 2.72  
Area: 2536  
Amount: 0.054038  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:12:06  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

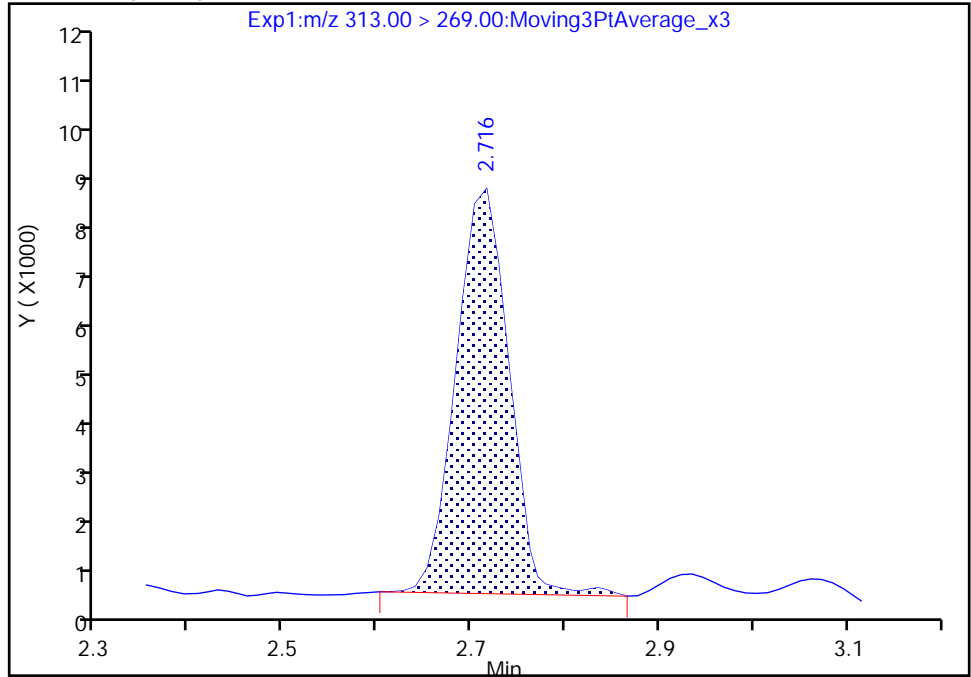
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

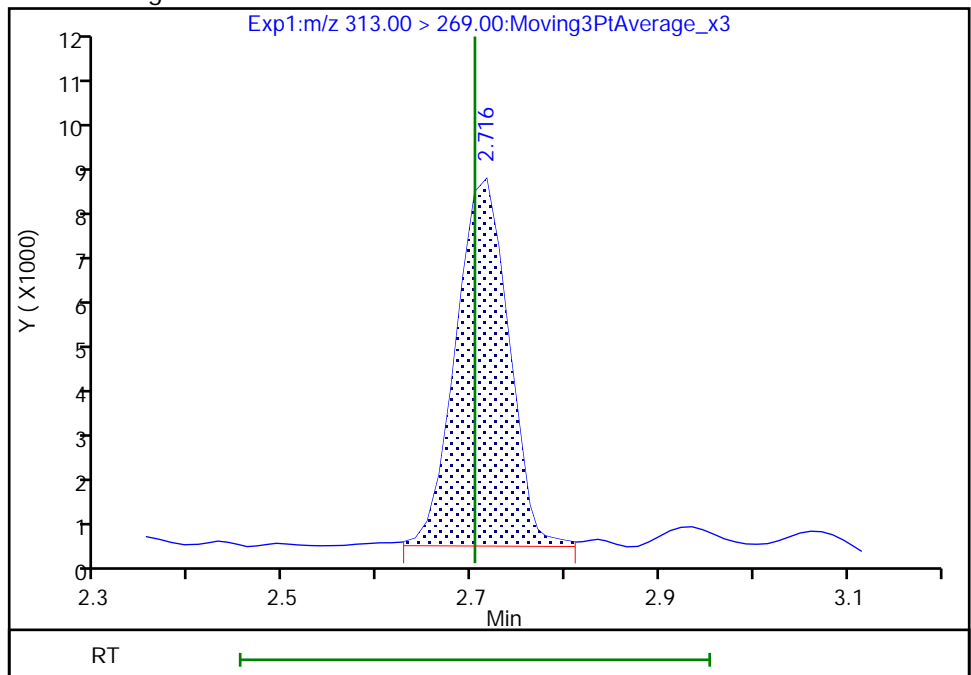
RT: 2.72  
Area: 30377  
Amount: 0.053972  
Amount Units: ng/ml

Processing Integration Results



RT: 2.72  
Area: 30414  
Amount: 0.054038  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:12:17

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

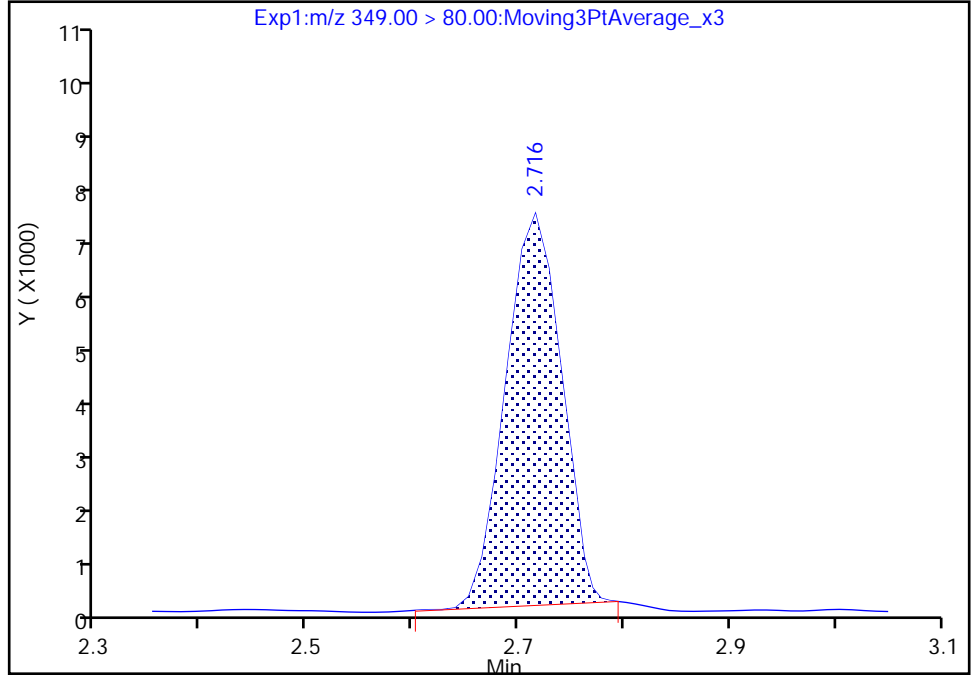
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 1

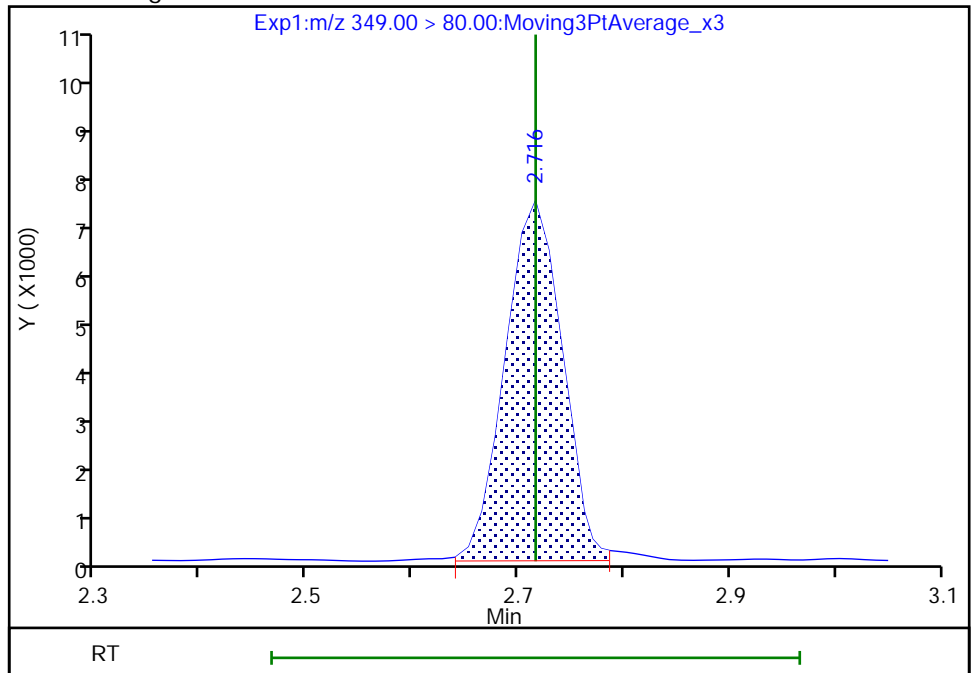
RT: 2.72  
Area: 27003  
Amount: 0.048436  
Amount Units: ng/ml

Processing Integration Results



RT: 2.72  
Area: 27993  
Amount: 0.050212  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:12:48  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

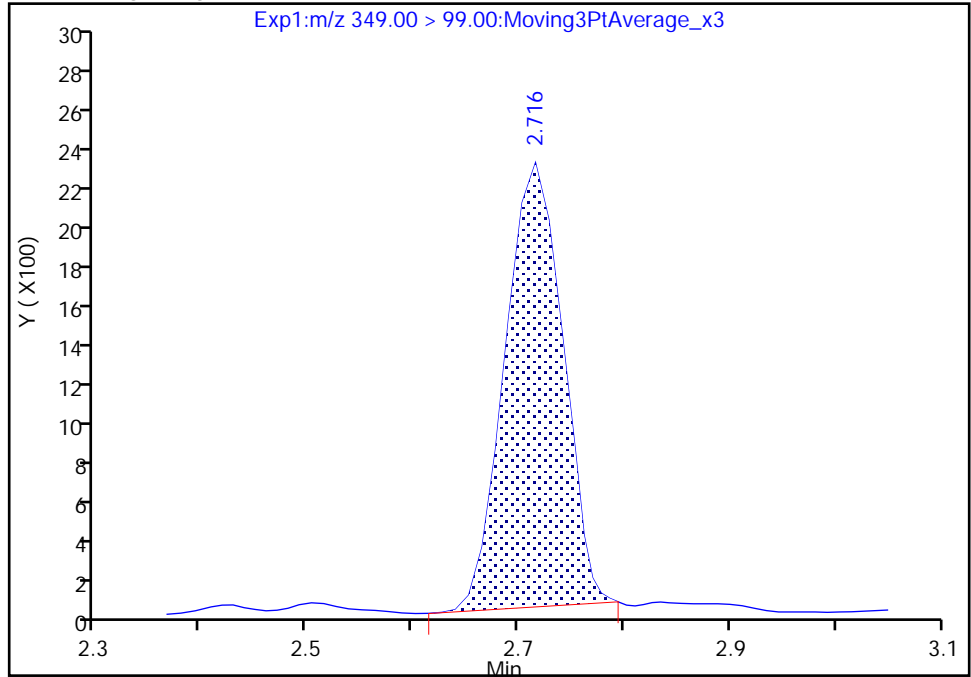
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

70 Perfluoropentanesulfonic acid, CAS: 2706-91-4

Signal: 2

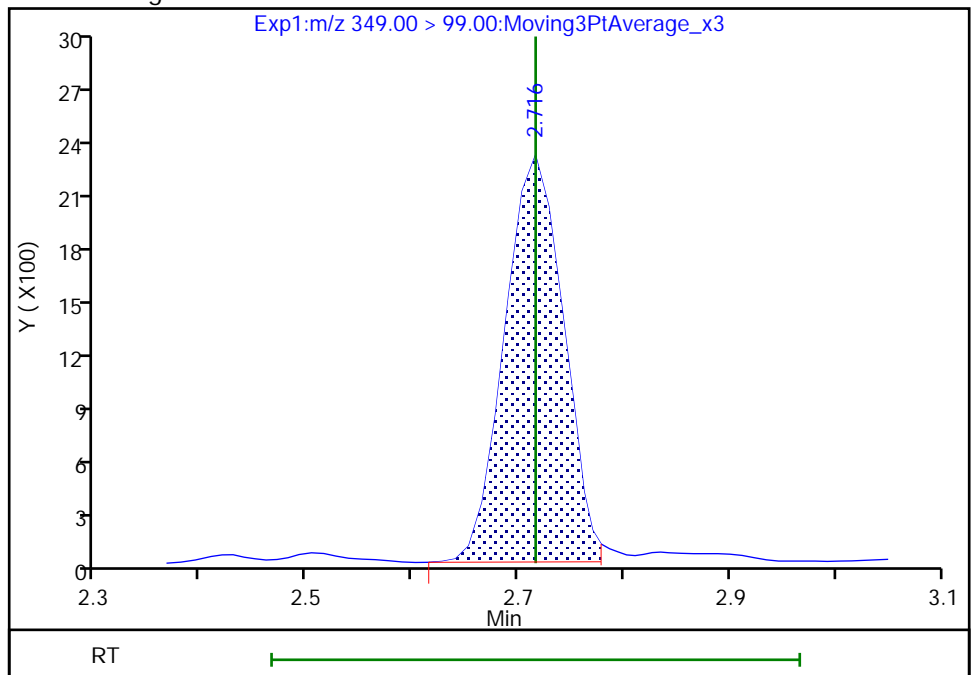
RT: 2.72  
Area: 8686  
Amount: 0.048436  
Amount Units: ng/ml

Processing Integration Results



RT: 2.72  
Area: 8907  
Amount: 0.050212  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:12:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

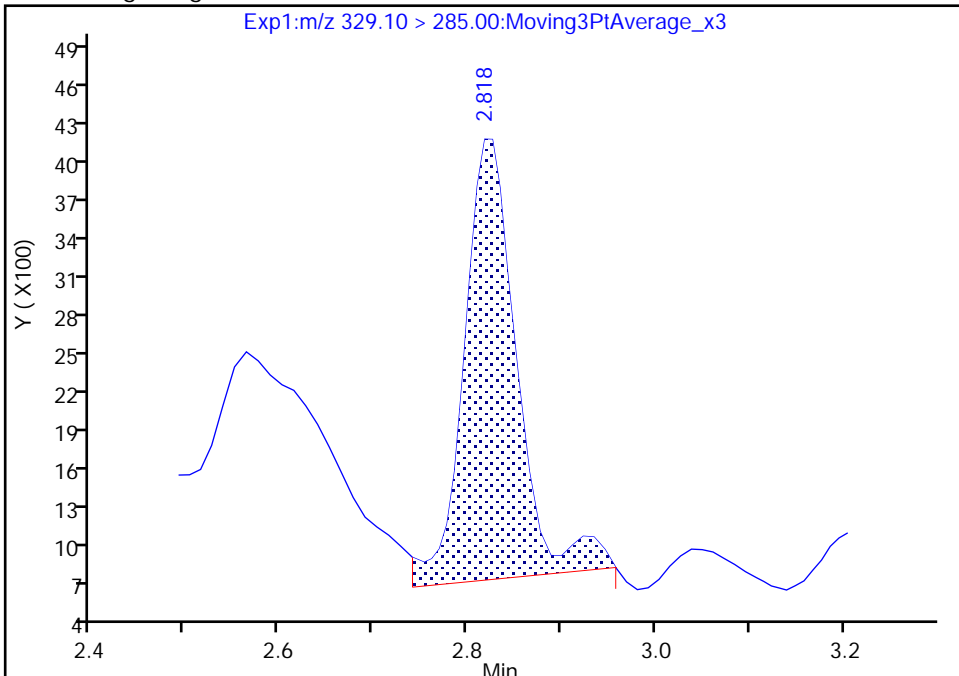
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

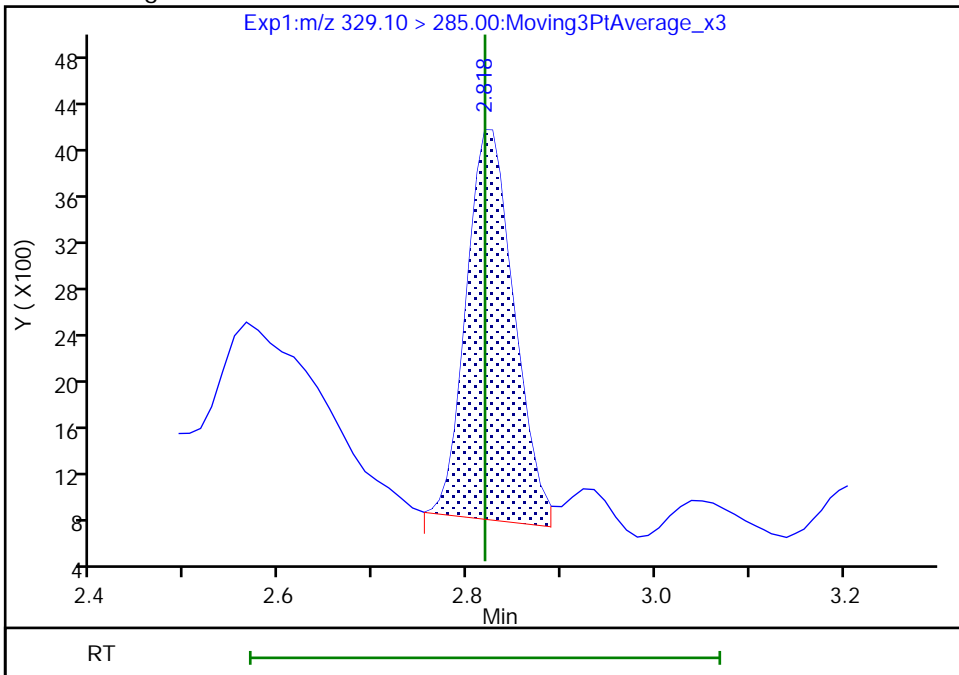
RT: 2.82  
Area: 13043  
Amount: 0.098434  
Amount Units: ng/ml

Processing Integration Results



RT: 2.82  
Area: 11570  
Amount: 0.087318  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:16:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

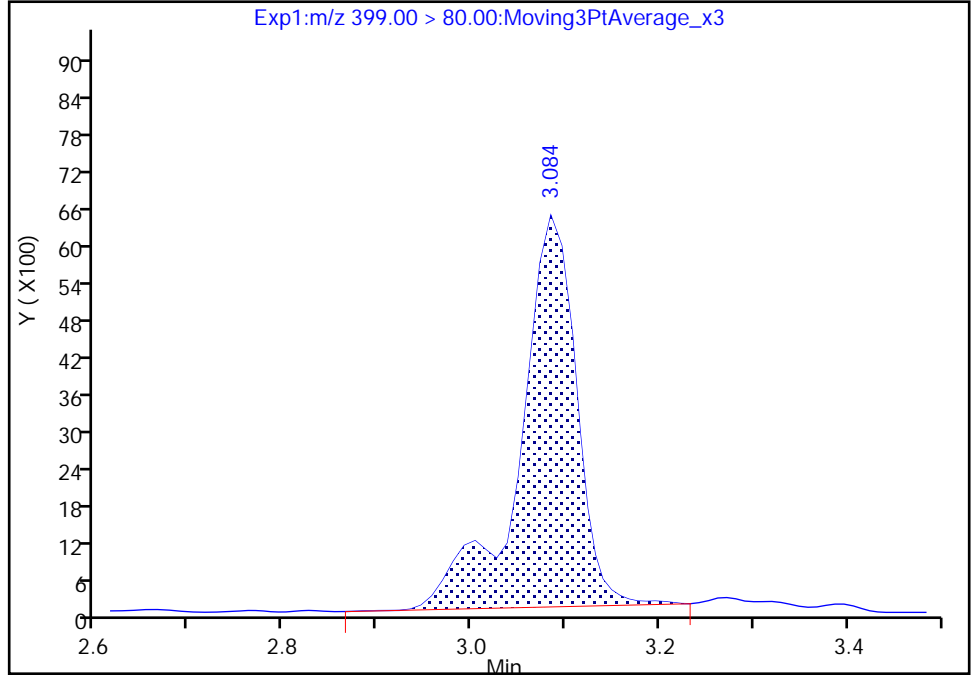
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

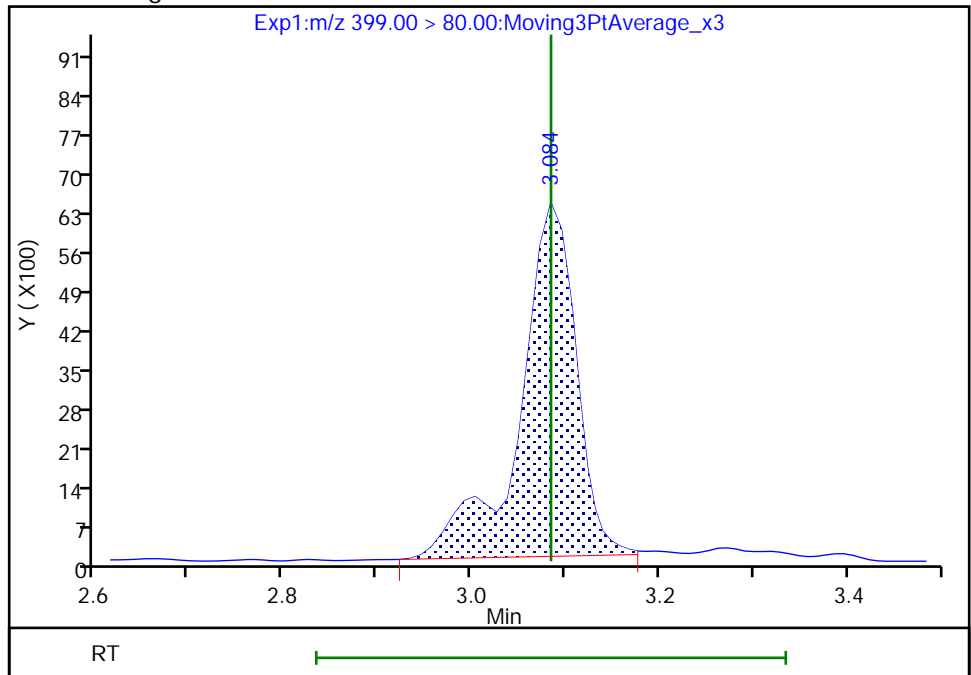
RT: 3.08  
Area: 26656  
Amount: 0.051261  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 26530  
Amount: 0.051019  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:16:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

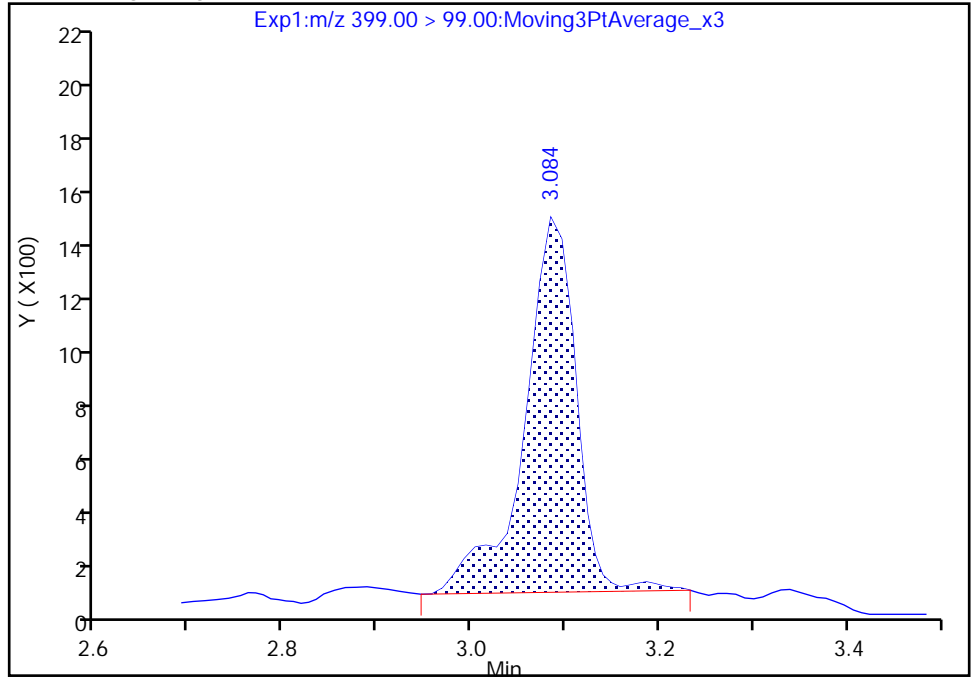
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

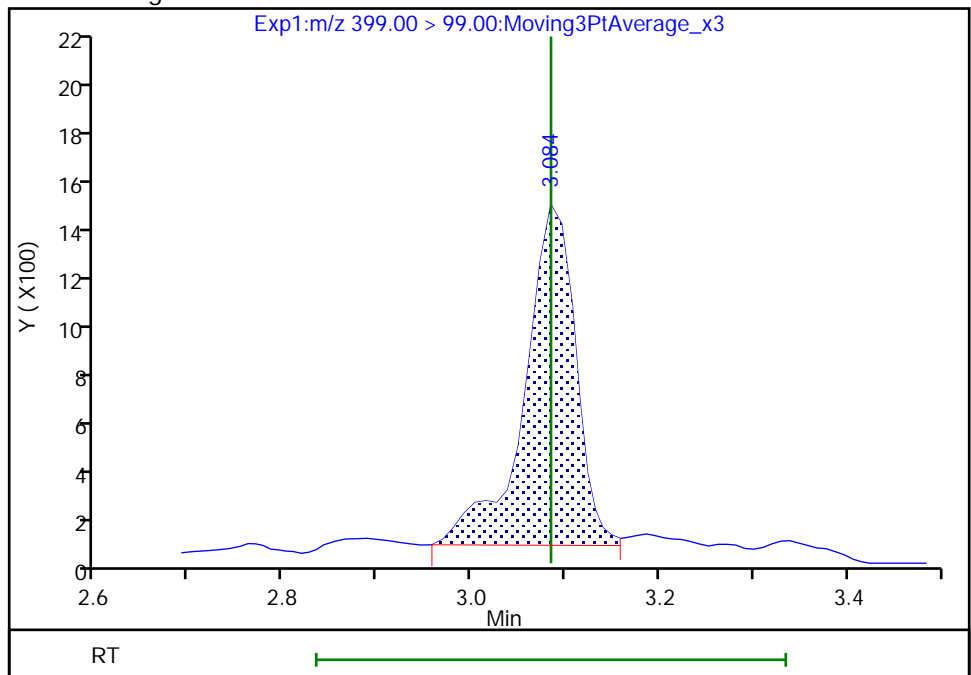
RT: 3.08  
Area: 5365  
Amount: 0.051261  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 5356  
Amount: 0.051019  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:16:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

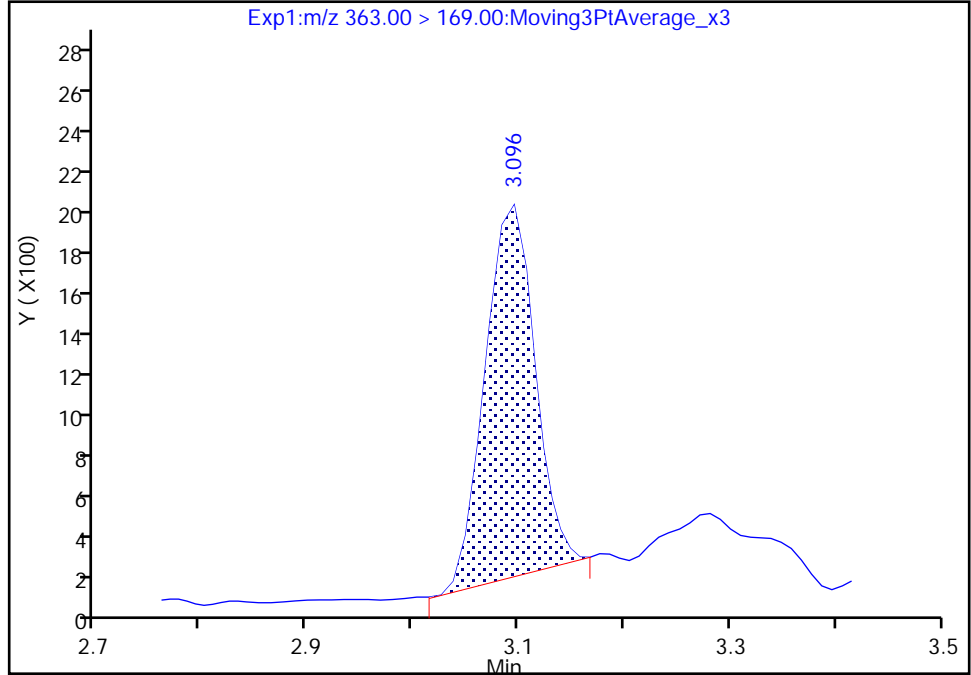
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

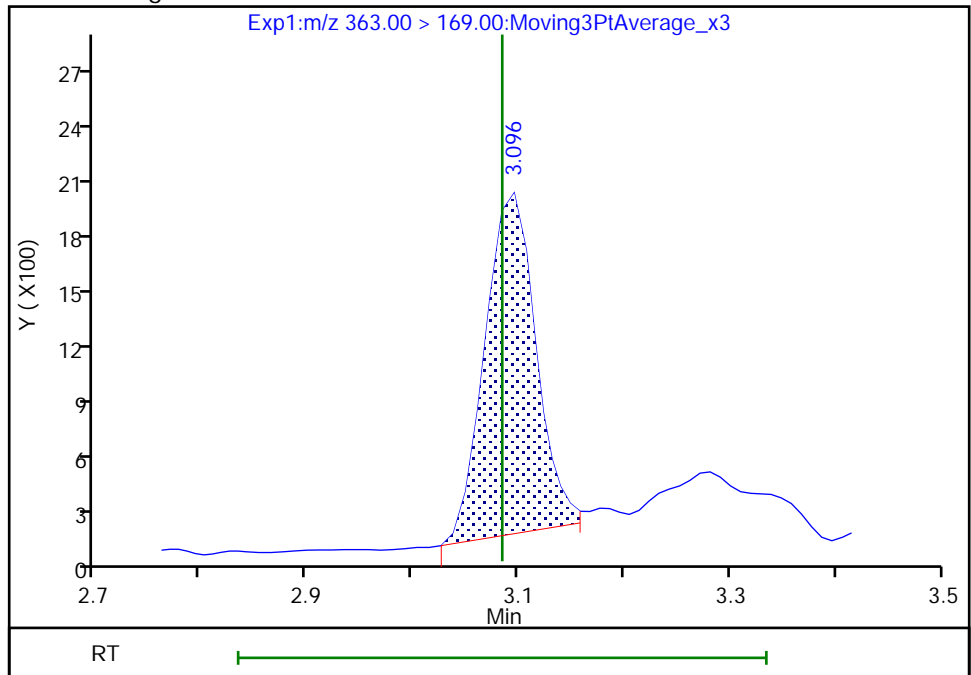
RT: 3.10  
Area: 6094  
Amount: 0.051021  
Amount Units: ng/ml

Processing Integration Results



RT: 3.10  
Area: 6281  
Amount: 0.054031  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

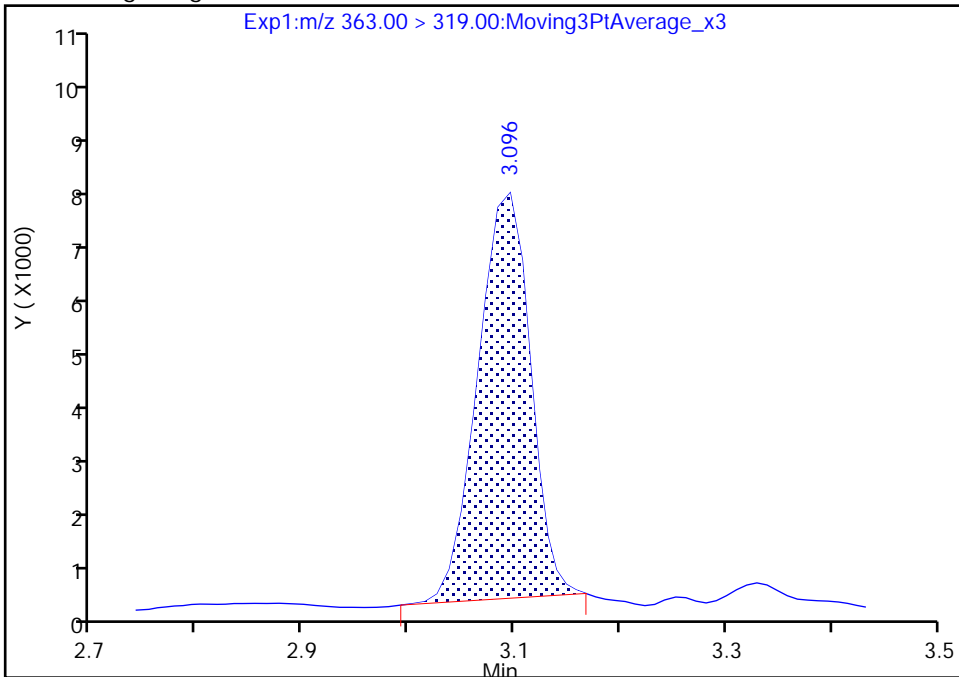
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

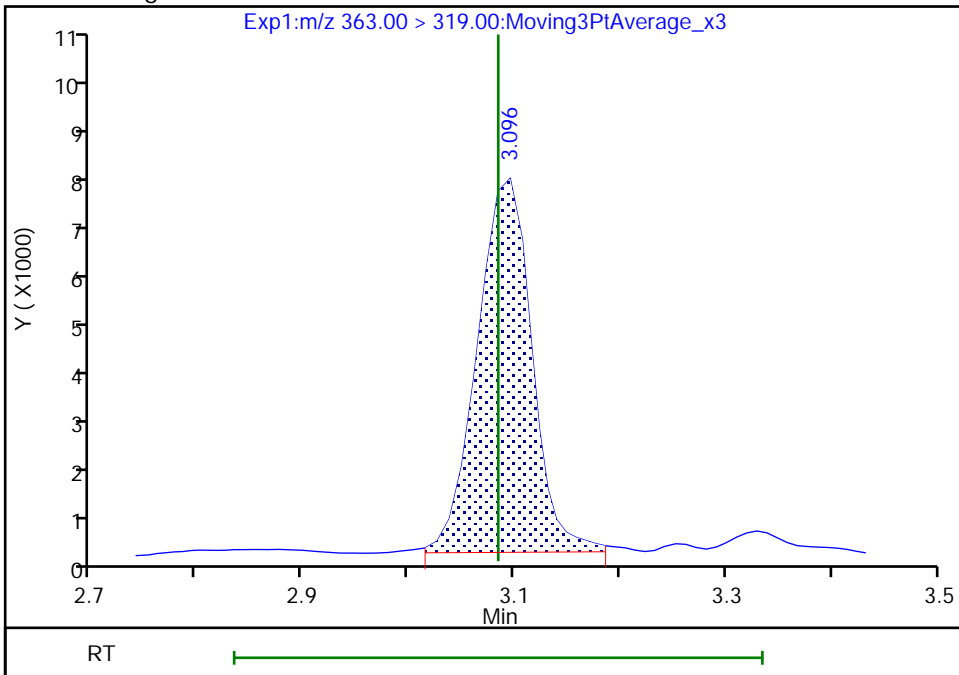
RT: 3.10  
Area: 25579  
Amount: 0.051021  
Amount Units: ng/ml

Processing Integration Results



RT: 3.10  
Area: 27088  
Amount: 0.054031  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:16:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

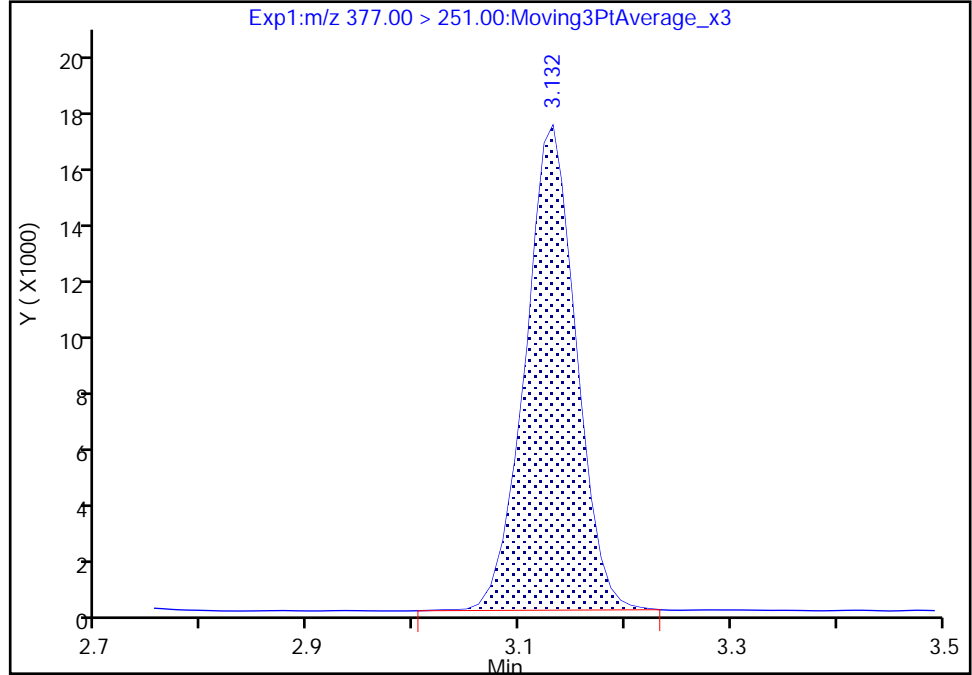
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

77 DONA, CAS: 919005-14-4

Signal: 1

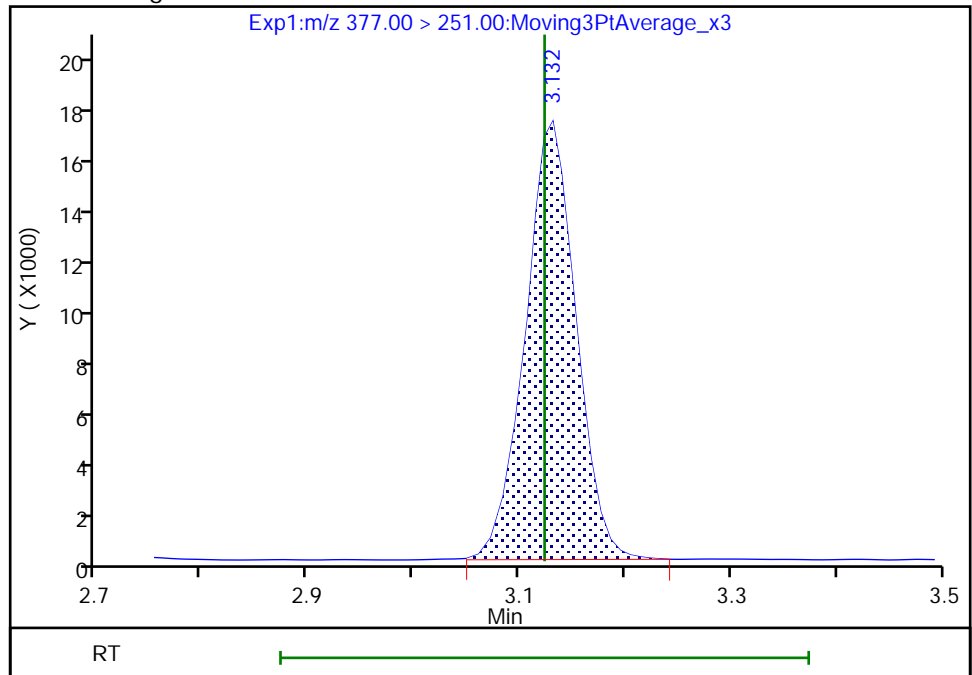
RT: 3.13  
Area: 57512  
Amount: 0.046773  
Amount Units: ng/ml

Processing Integration Results



RT: 3.13  
Area: 57606  
Amount: 0.046849  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:17:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

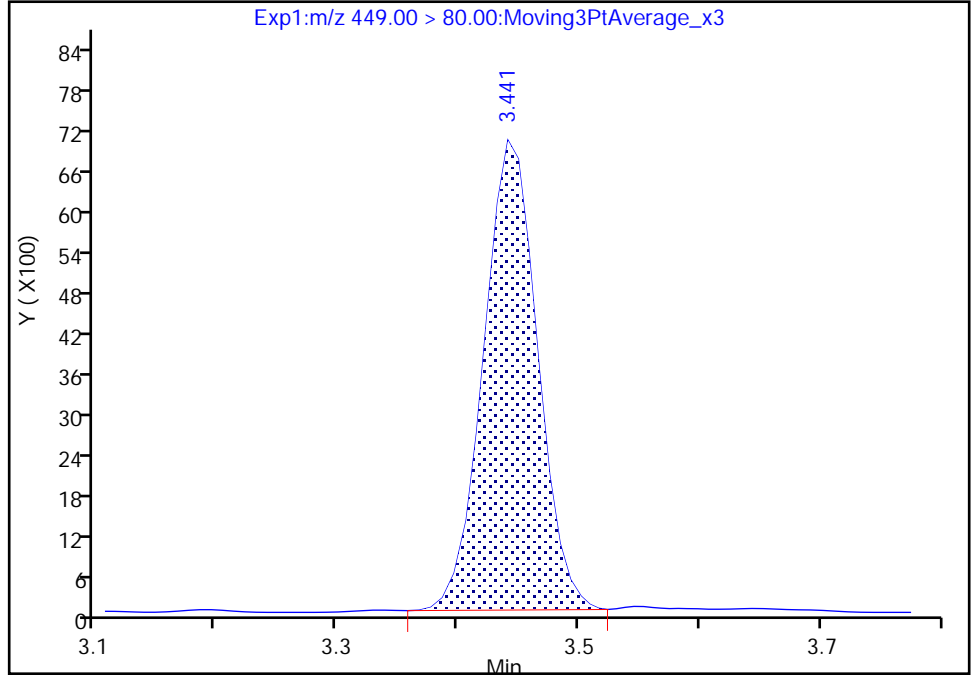
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

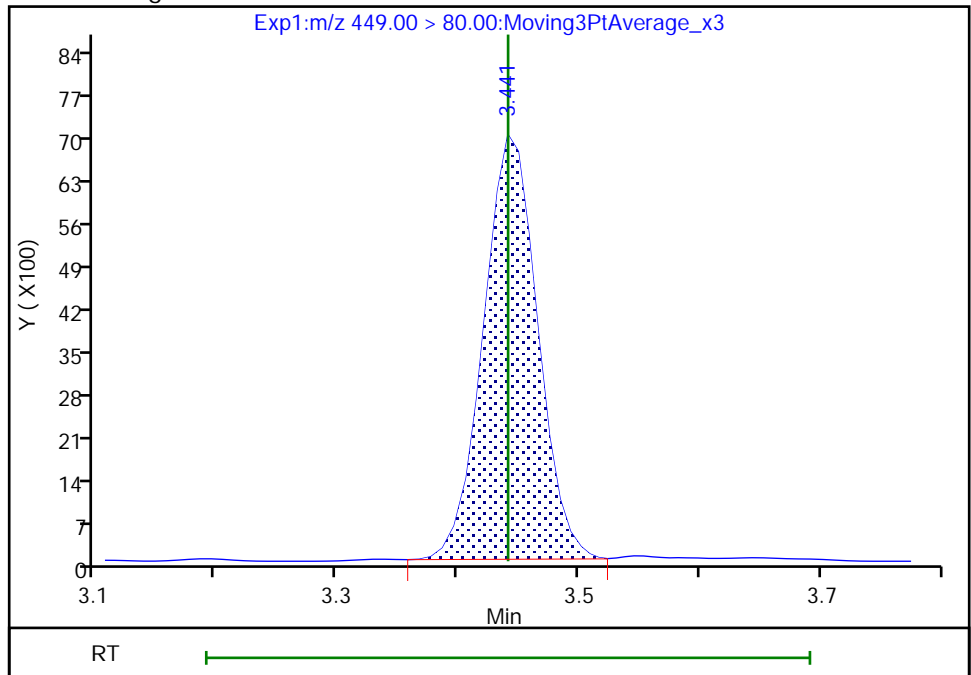
RT: 3.44  
Area: 21731  
Amount: 0.047000  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 21750  
Amount: 0.047042  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:17:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

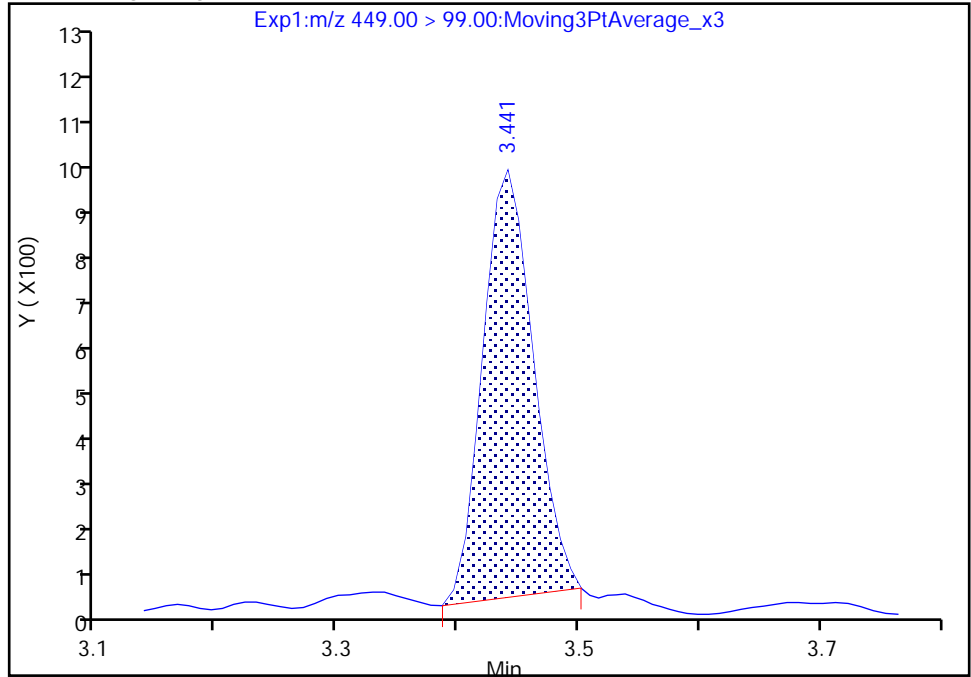
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

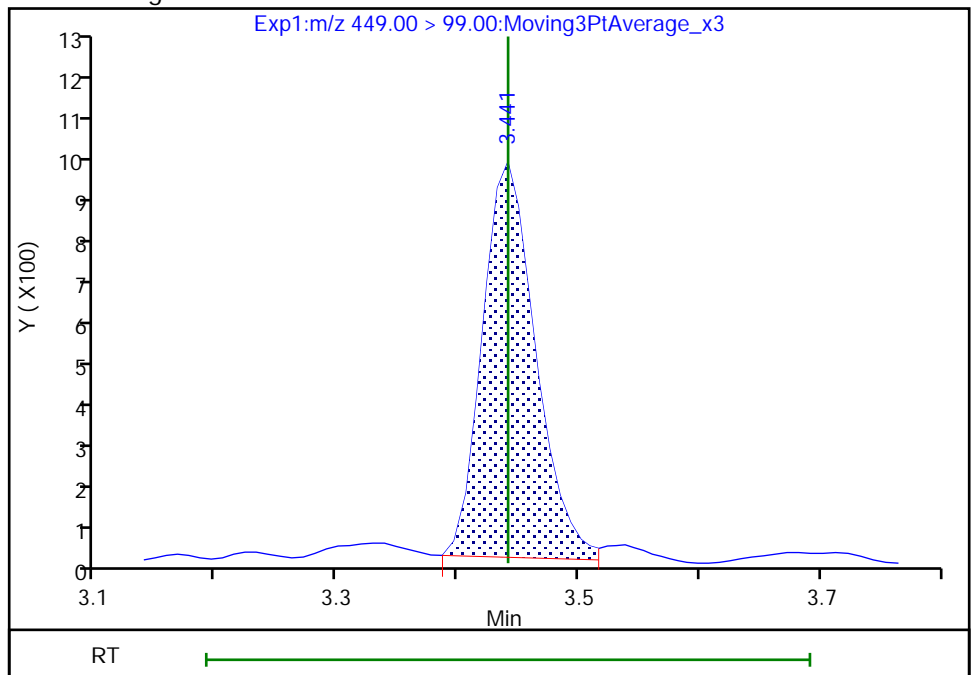
RT: 3.44  
Area: 2744  
Amount: 0.047000  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 2943  
Amount: 0.047042  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:17:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

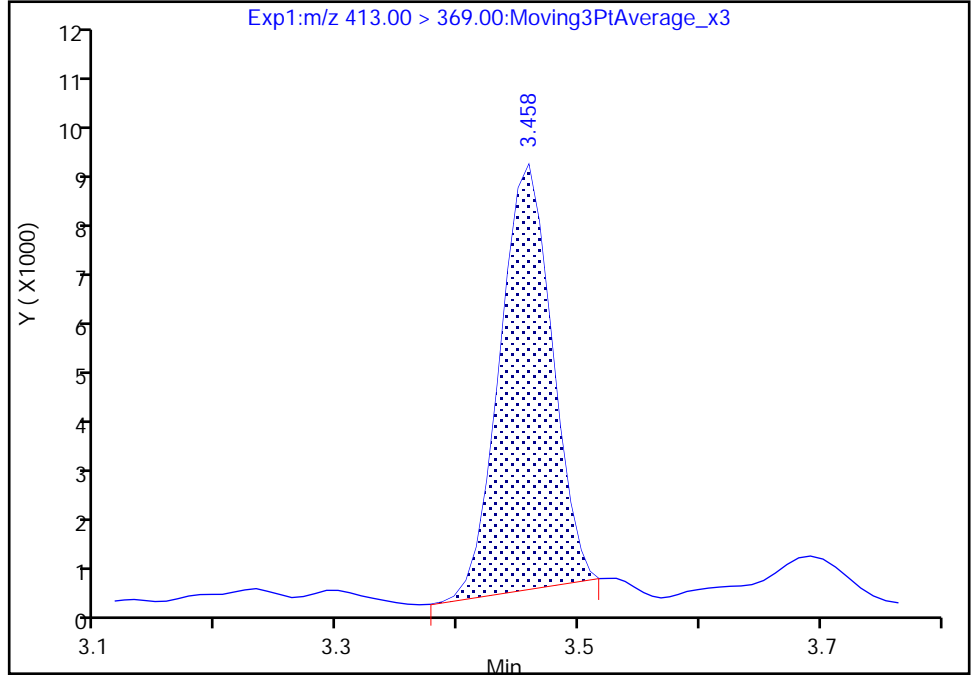
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

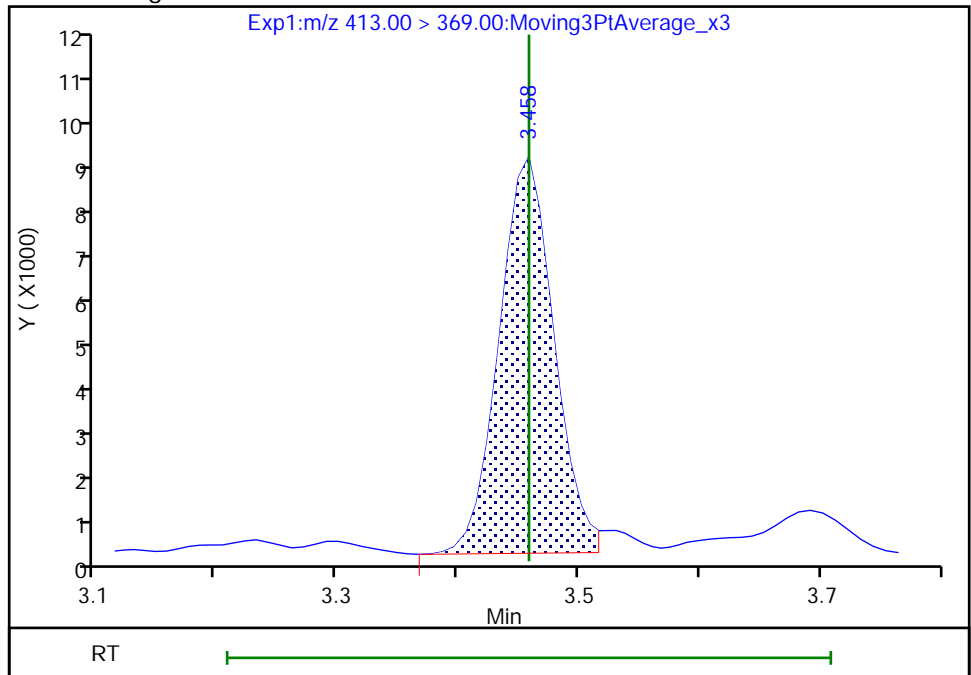
RT: 3.46  
Area: 26152  
Amount: 0.051488  
Amount Units: ng/ml

Processing Integration Results



RT: 3.46  
Area: 28202  
Amount: 0.055524  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:18:17  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

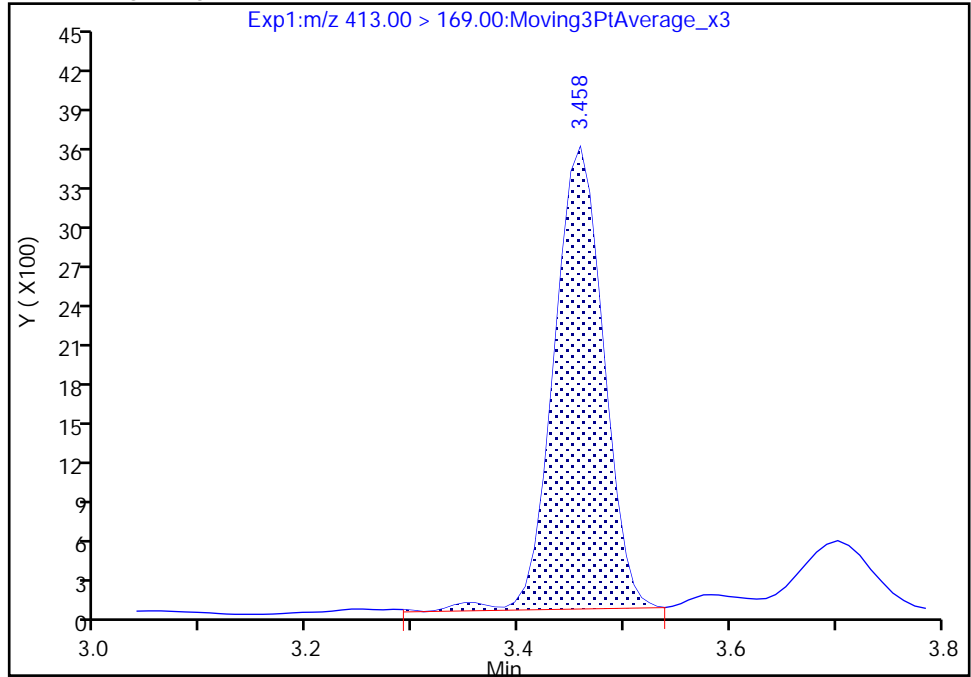
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

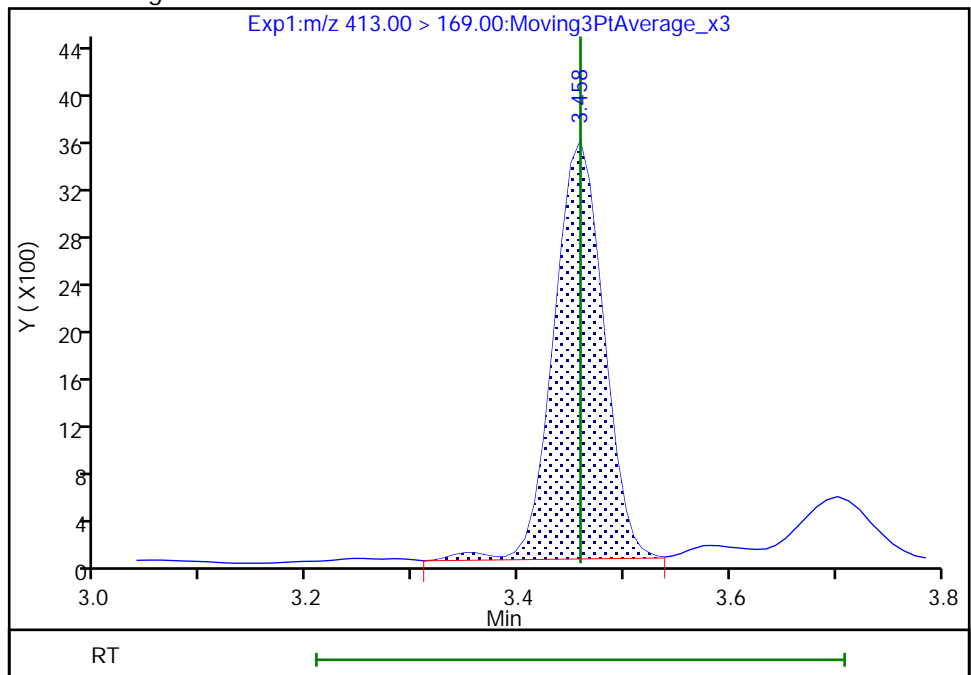
RT: 3.46  
Area: 11462  
Amount: 0.051488  
Amount Units: ng/ml

Processing Integration Results



RT: 3.46  
Area: 11503  
Amount: 0.055524  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:18:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

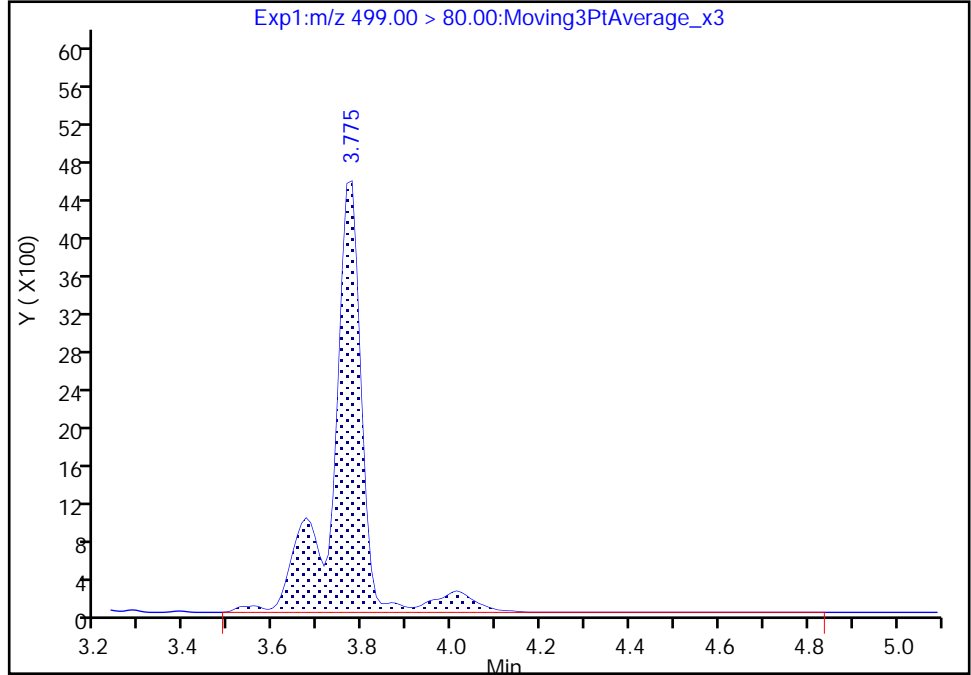
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

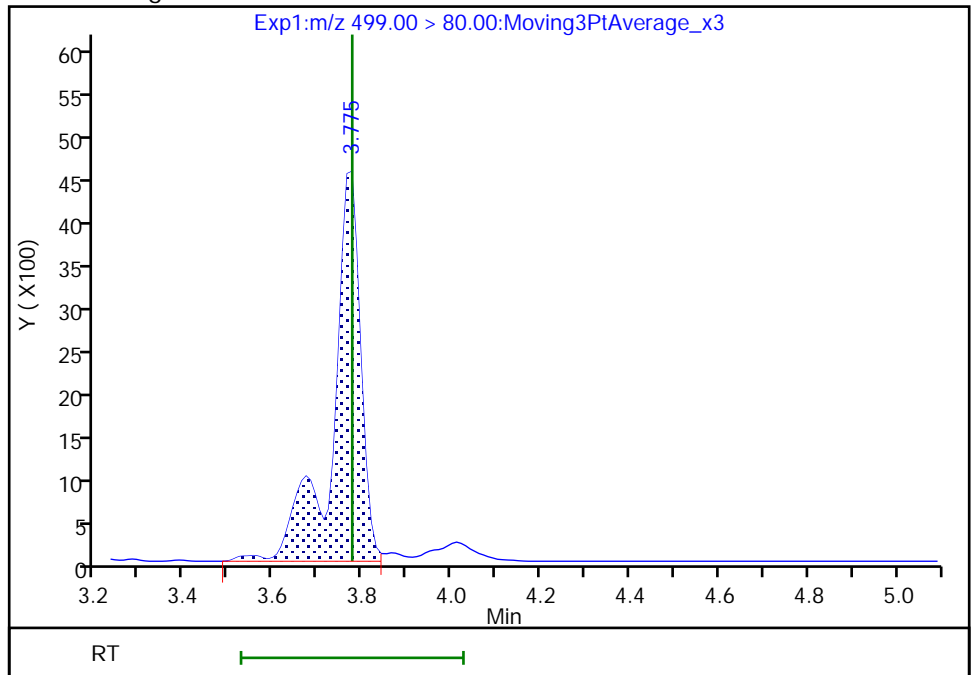
RT: 3.78  
Area: 21821  
Amount: 0.050317  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 20054  
Amount: 0.046242  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 02-Oct-2020 09:22:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

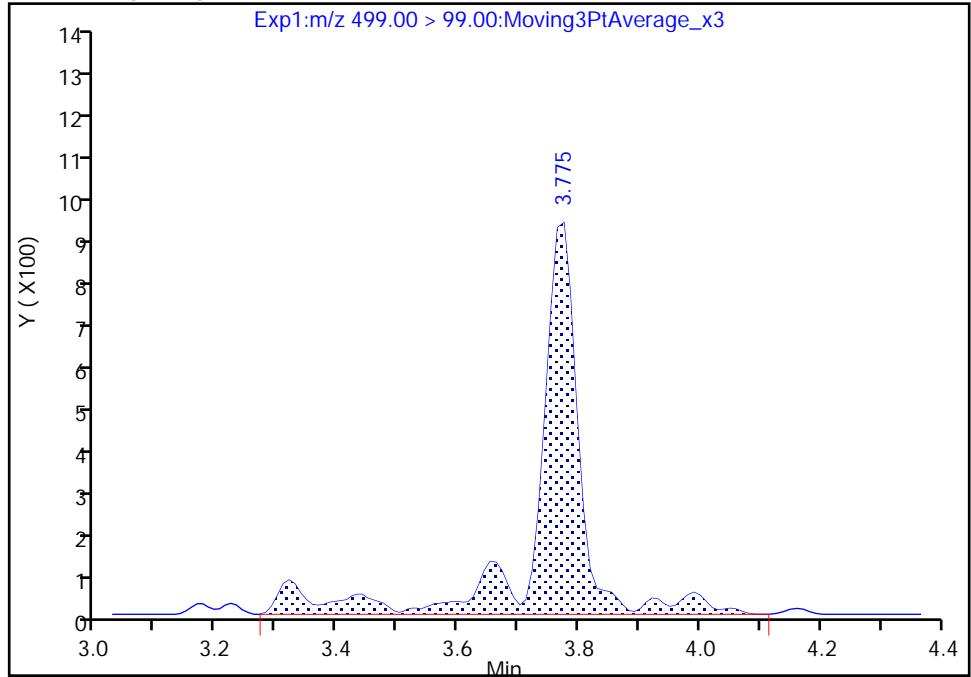
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

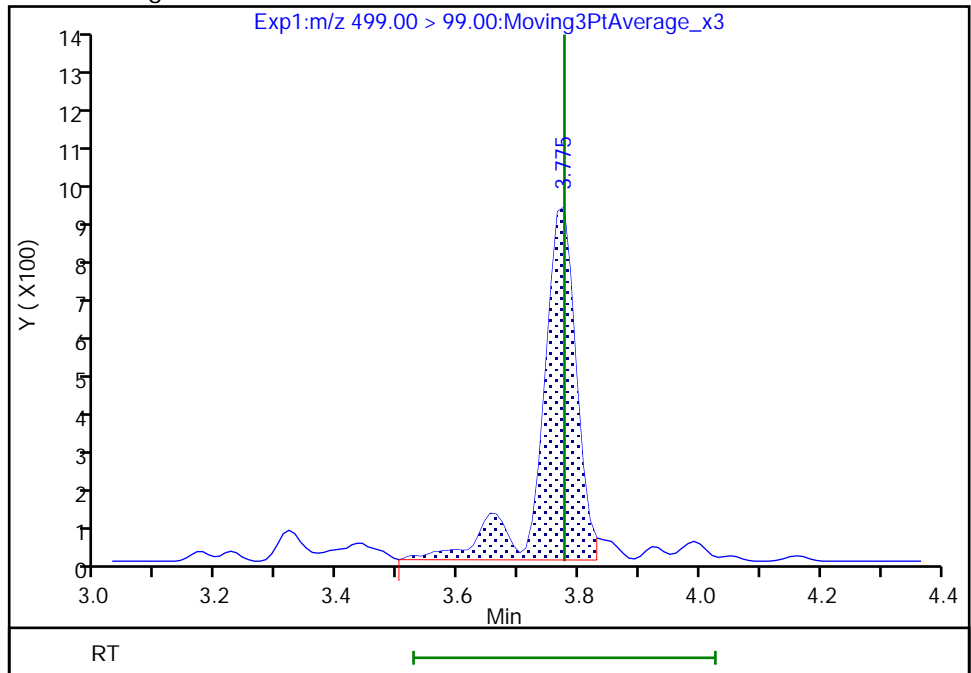
RT: 3.78  
Area: 4640  
Amount: 0.050317  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 3684  
Amount: 0.046242  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

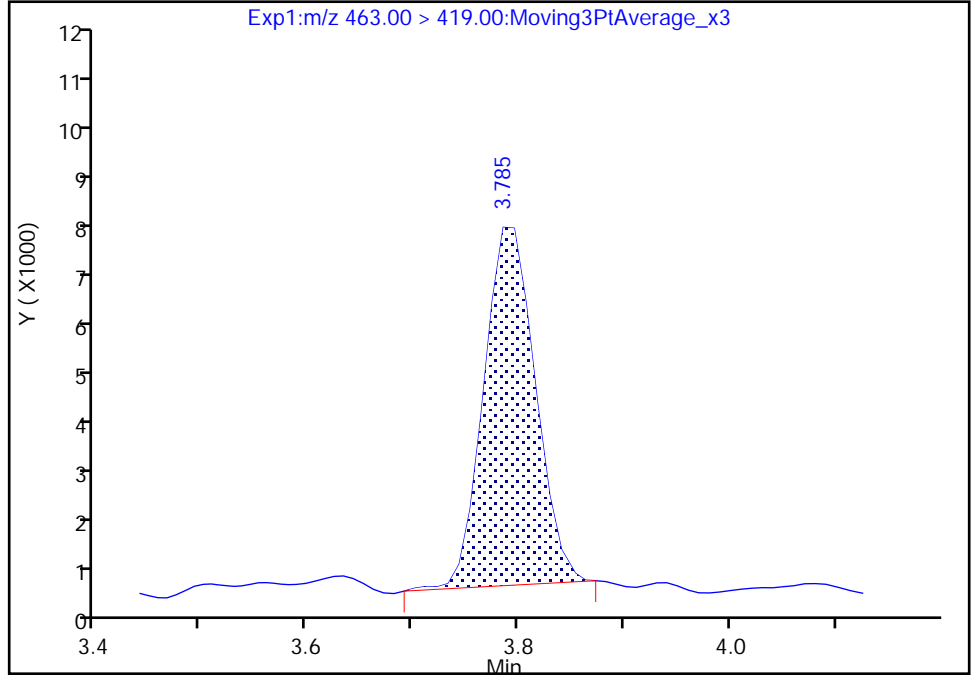
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

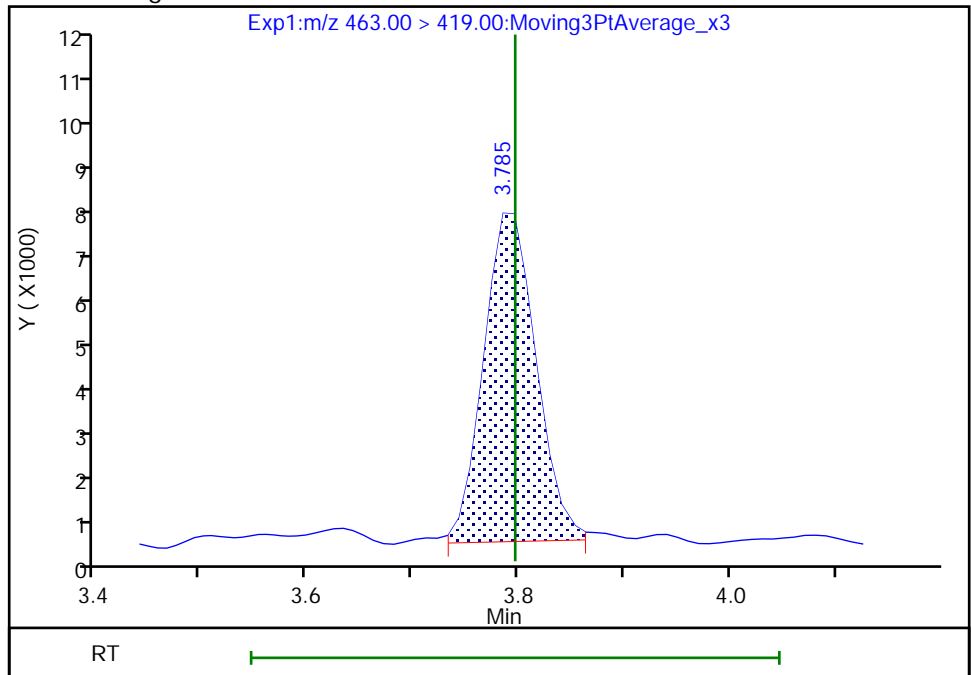
RT: 3.79  
Area: 23597  
Amount: 0.058058  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 24300  
Amount: 0.059787  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:19:11  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

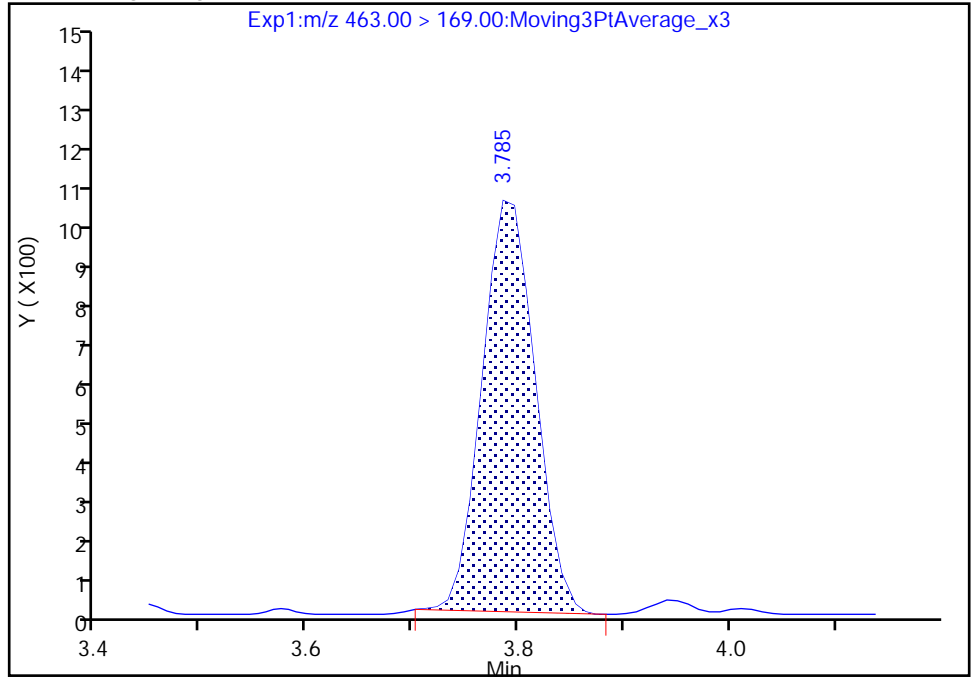
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

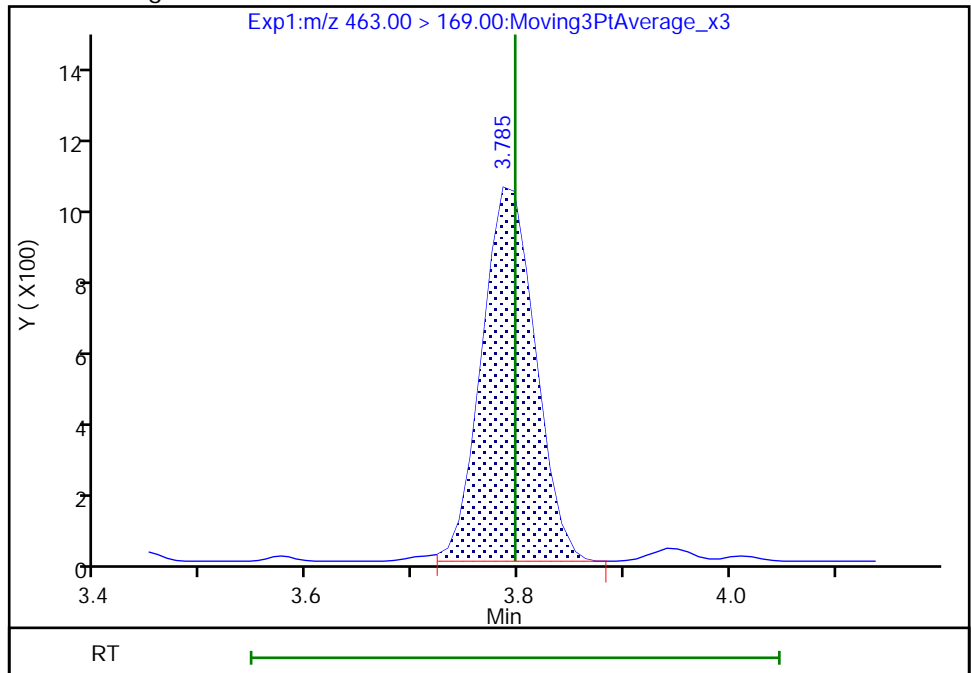
RT: 3.79  
Area: 3505  
Amount: 0.058058  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 3552  
Amount: 0.059787  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:19:13

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

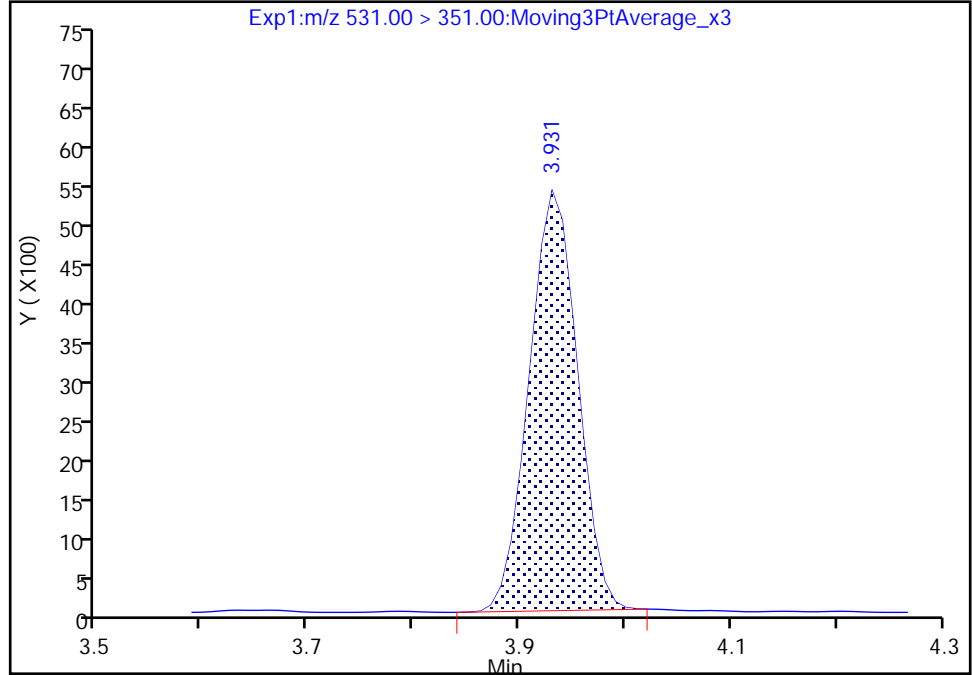
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

69 9-Chlorohexadecafluoro-3-oxanona, CAS: 756426-58-1

Signal: 1

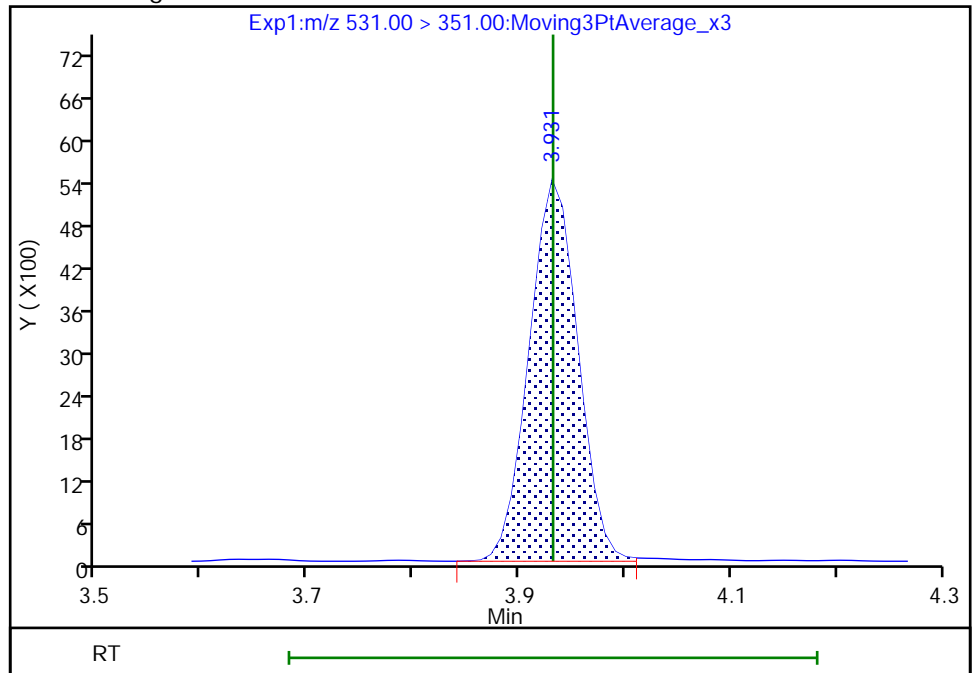
RT: 3.93  
Area: 17062  
Amount: 0.044703  
Amount Units: ng/ml

Processing Integration Results



RT: 3.93  
Area: 17263  
Amount: 0.045230  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:19:28  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

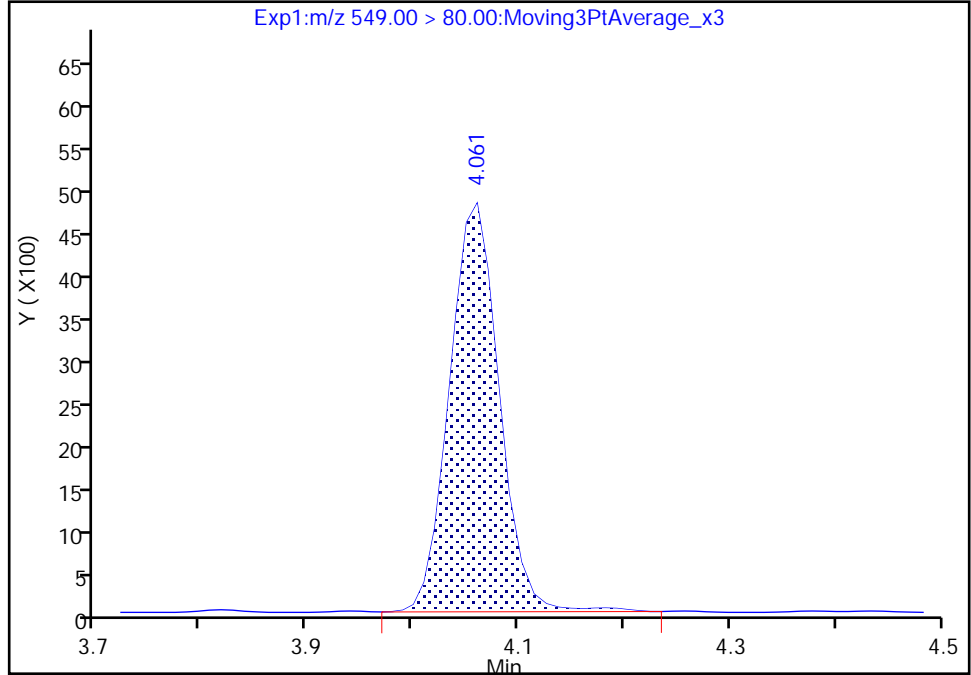
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

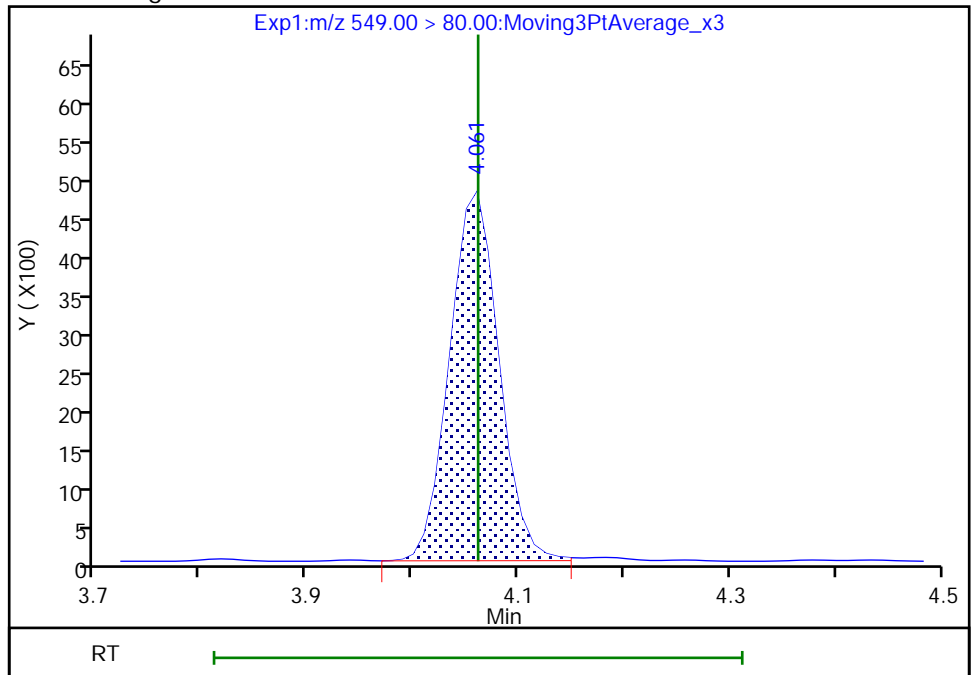
RT: 4.06  
Area: 15666  
Amount: 0.045710  
Amount Units: ng/ml

Processing Integration Results



RT: 4.06  
Area: 15540  
Amount: 0.045342  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:19:49  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

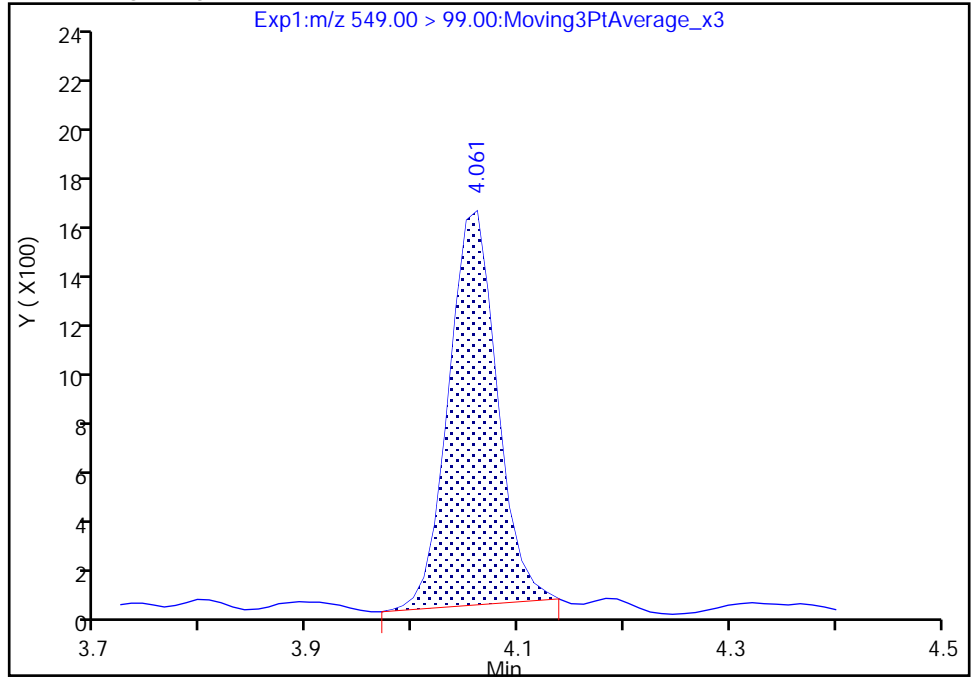
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

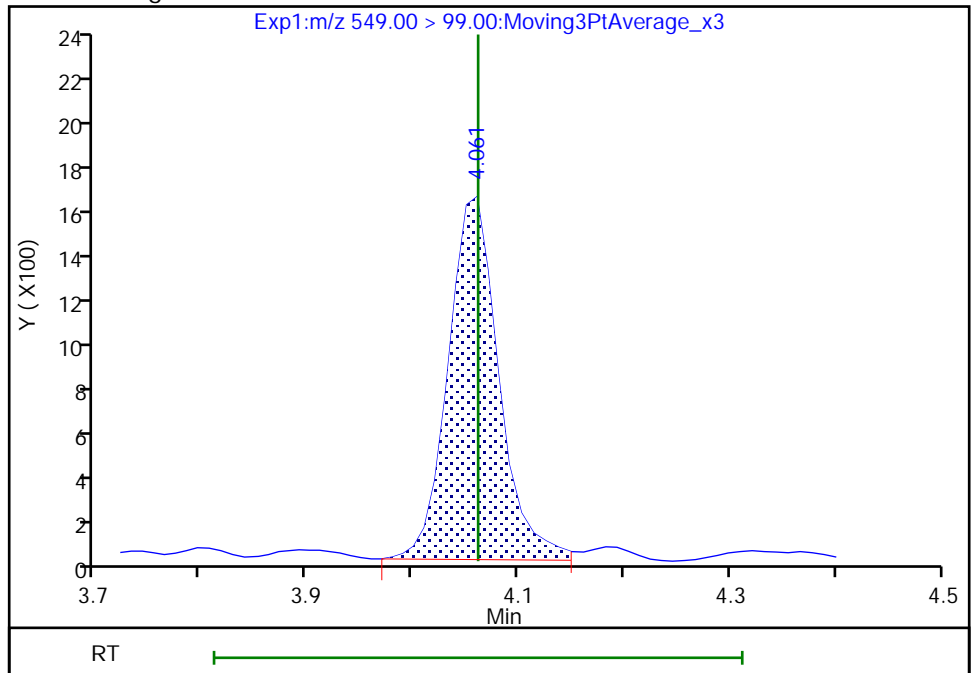
RT: 4.06  
Area: 4951  
Amount: 0.045710  
Amount Units: ng/ml

Processing Integration Results



RT: 4.06  
Area: 5269  
Amount: 0.045342  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:19:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

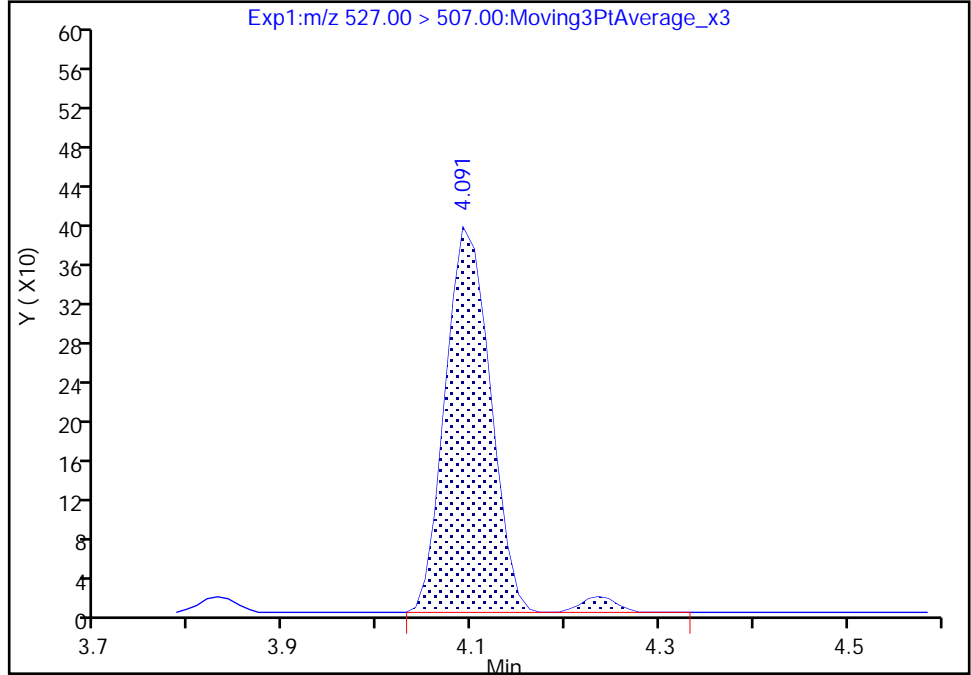
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

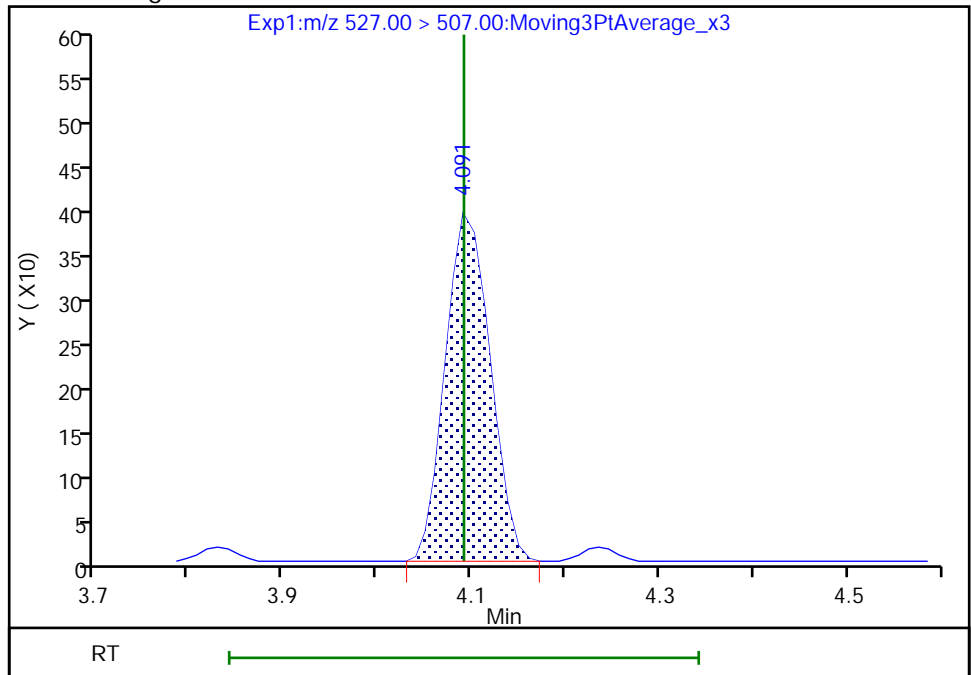
RT: 4.09  
Area: 1350  
Amount: 0.045308  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 1309  
Amount: 0.043932  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:25:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

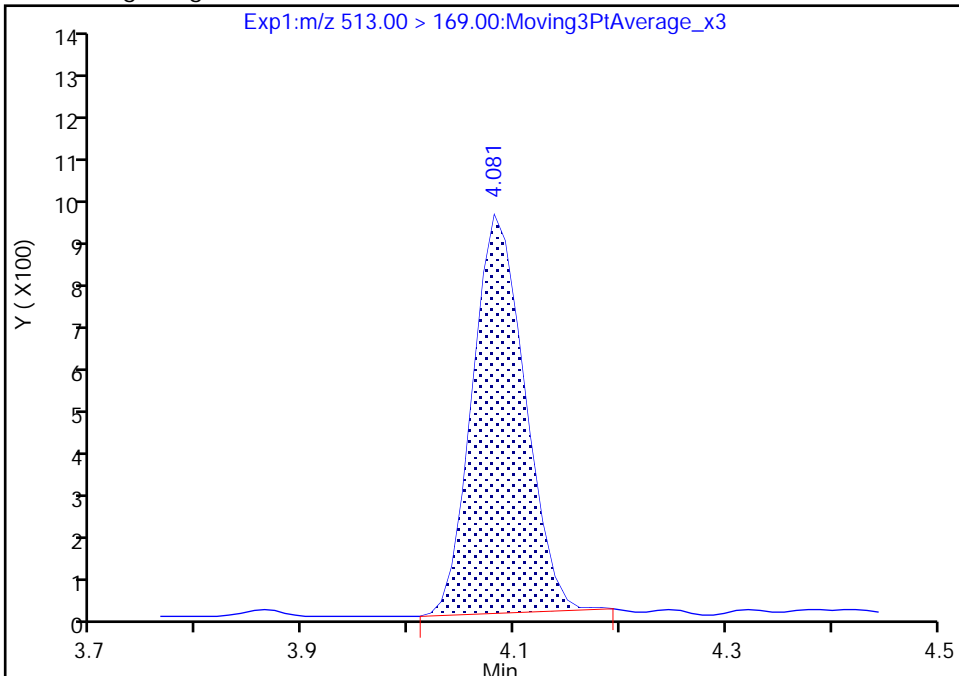
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

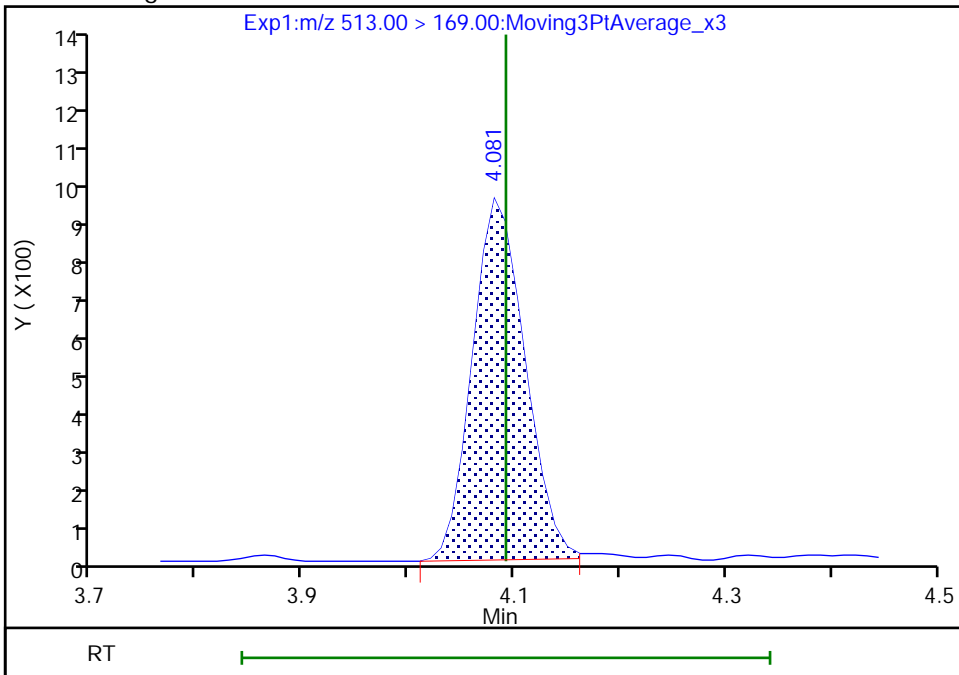
RT: 4.08  
Area: 3223  
Amount: 0.056398  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 3253  
Amount: 0.056398  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:24:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

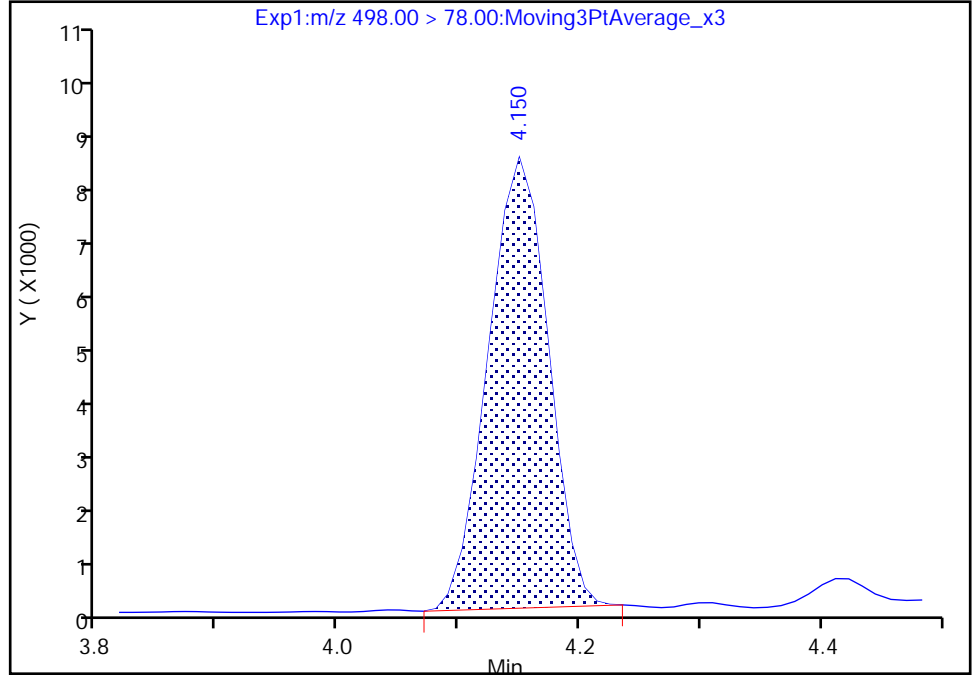
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

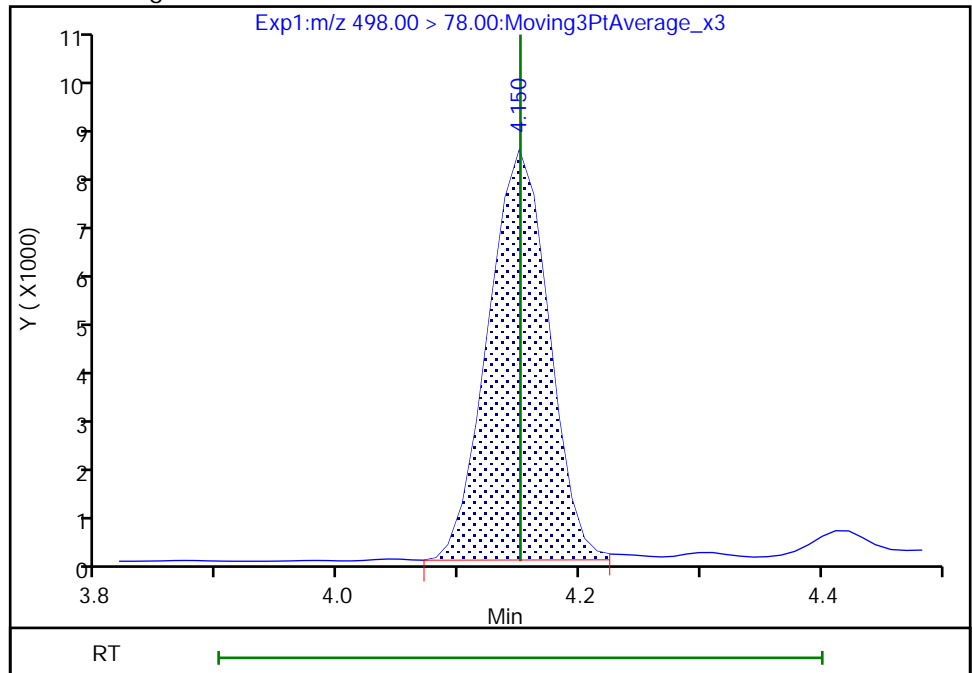
RT: 4.15  
Area: 28638  
Amount: 0.047762  
Amount Units: ng/ml

Processing Integration Results



RT: 4.15  
Area: 29097  
Amount: 0.048528  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:25:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

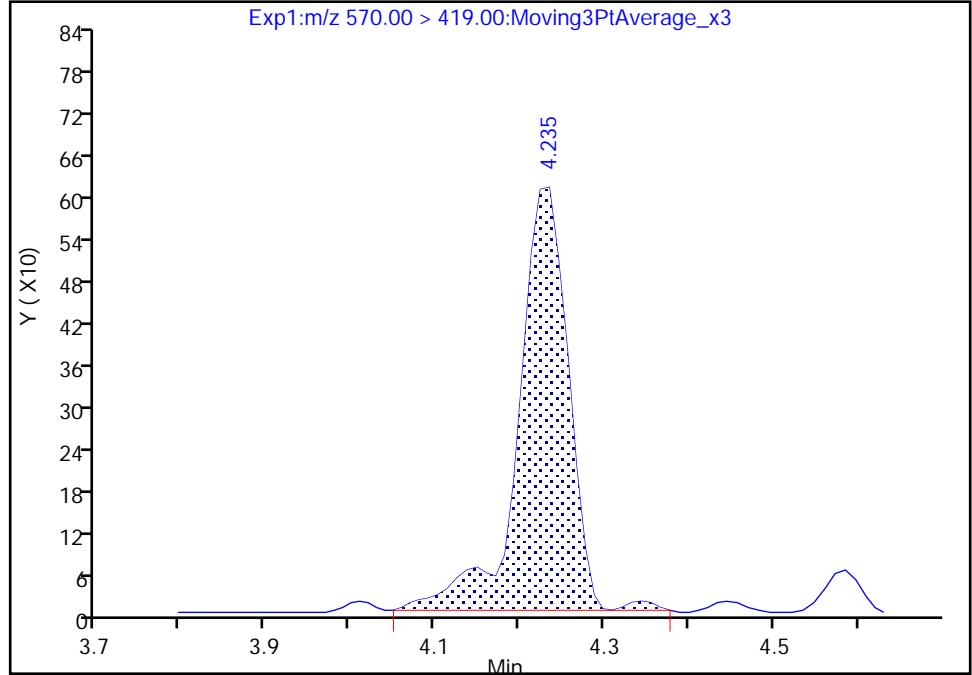
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

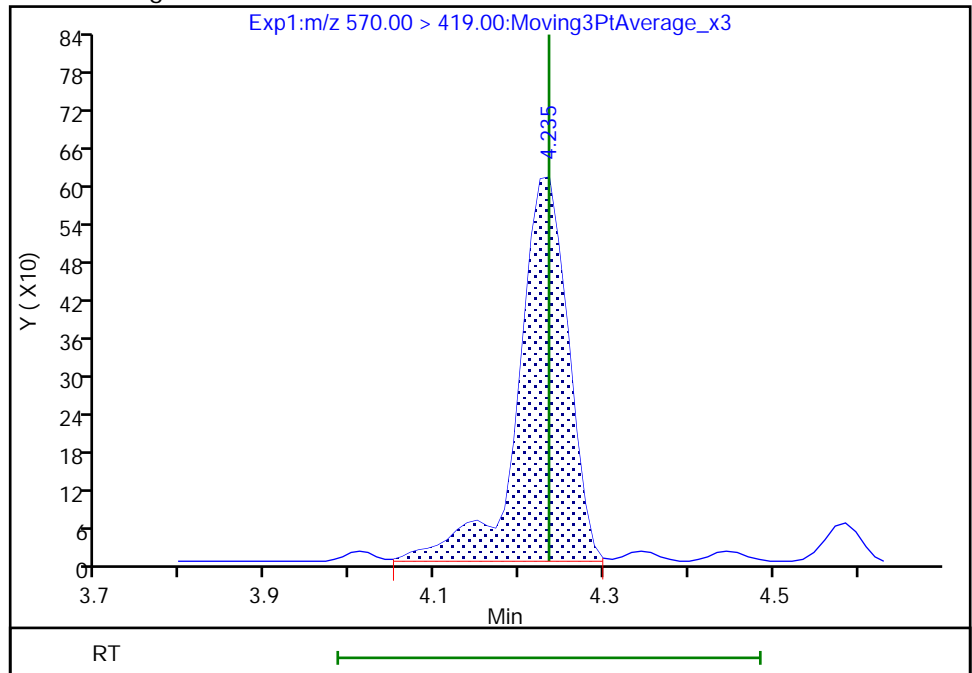
RT: 4.24  
Area: 2529  
Amount: 0.123249  
Amount Units: ng/ml

Processing Integration Results



RT: 4.24  
Area: 2544  
Amount: 0.123980  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:25:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

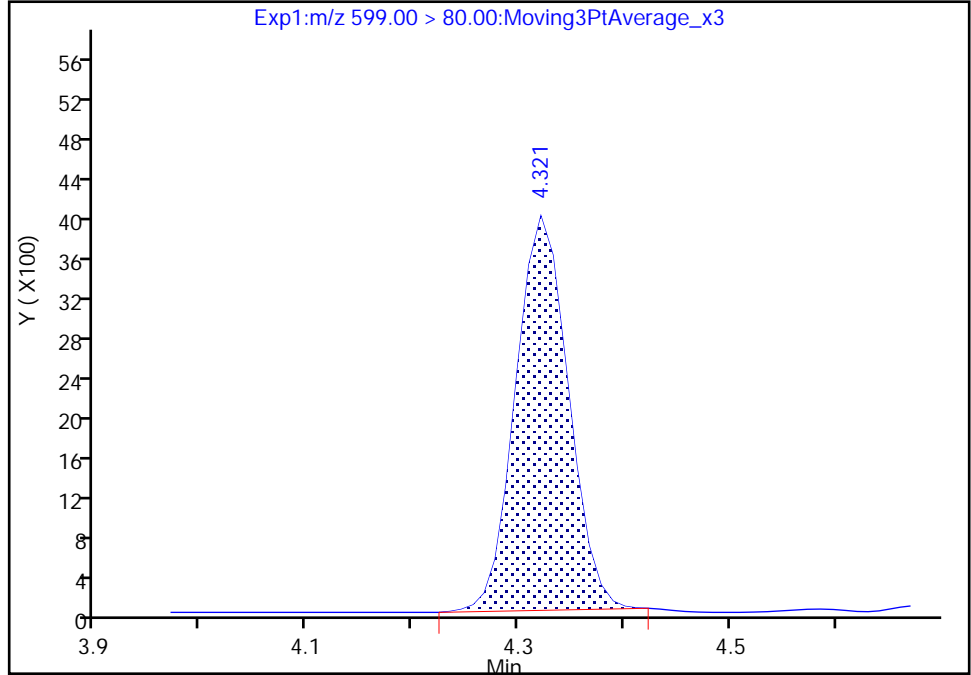
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

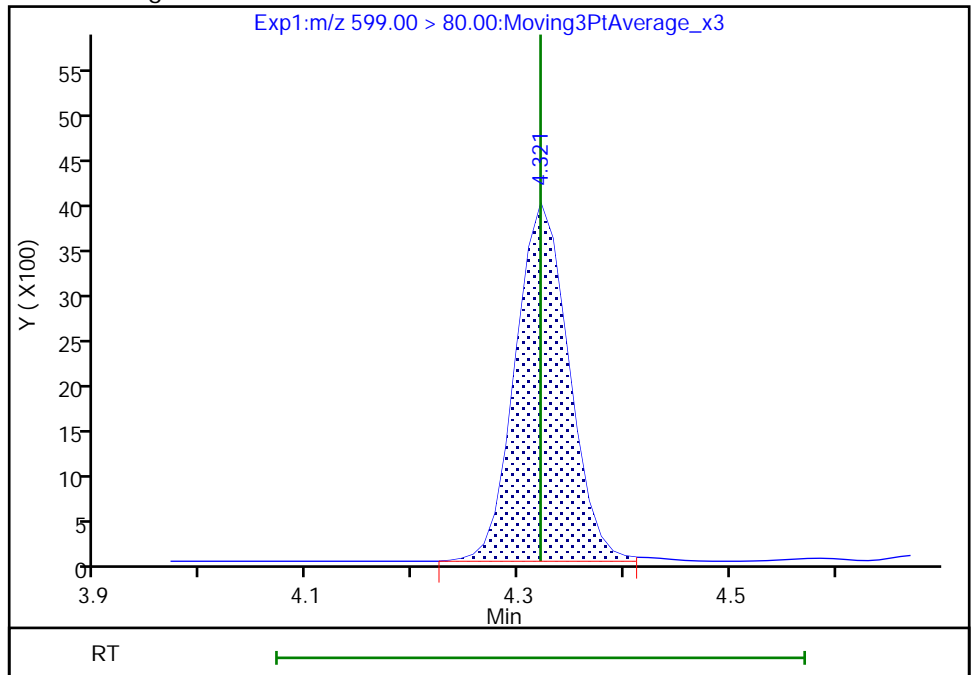
RT: 4.32  
Area: 13648  
Amount: 0.047594  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 13864  
Amount: 0.048347  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:26:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

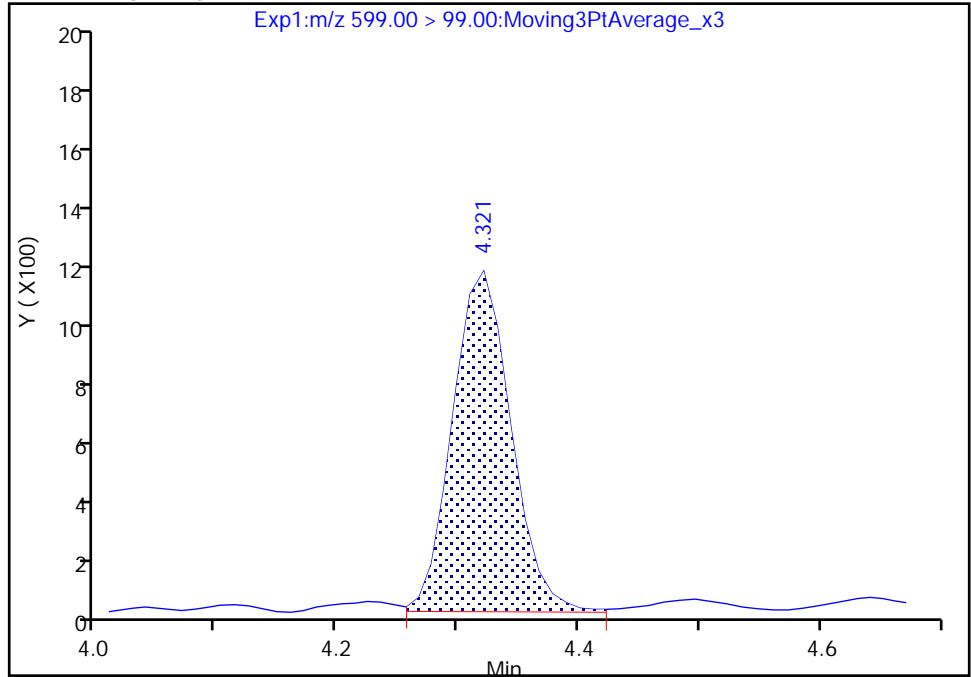
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

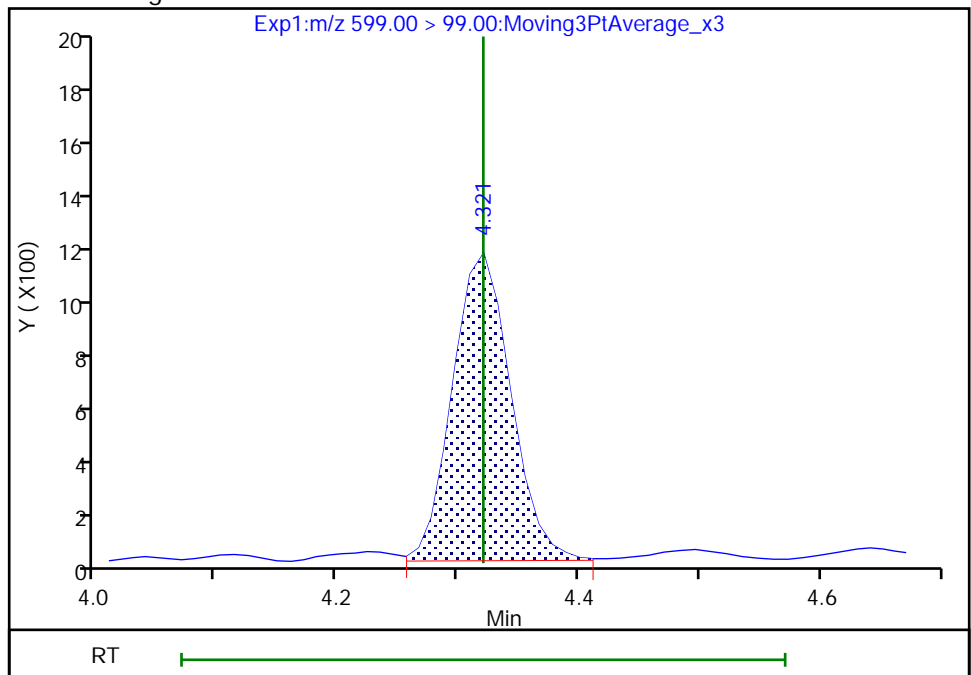
RT: 4.32  
Area: 3923  
Amount: 0.047594  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 3908  
Amount: 0.048347  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:26:18

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

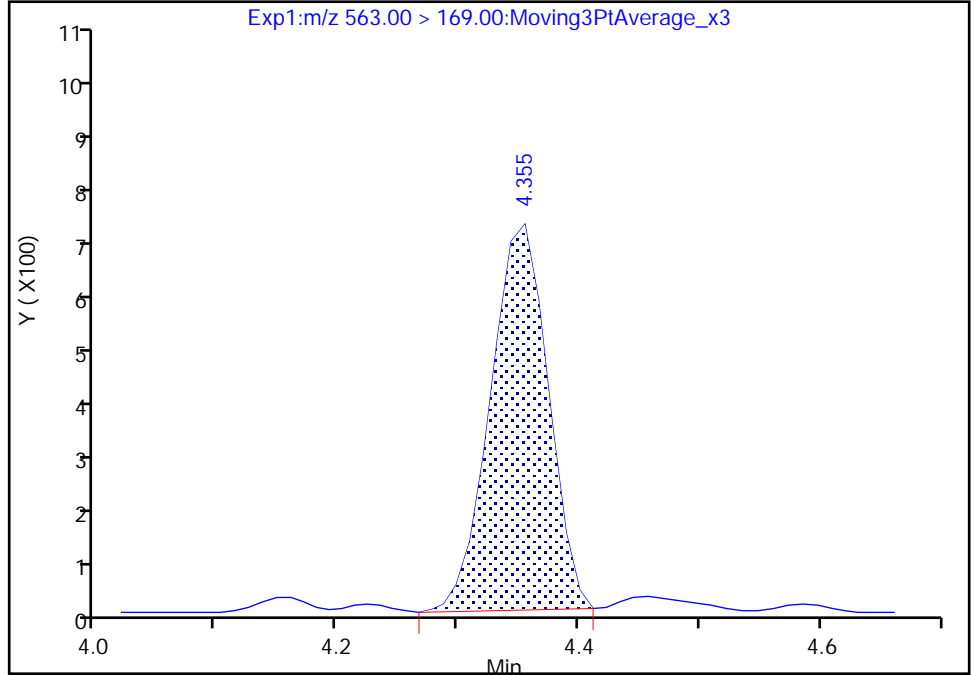
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

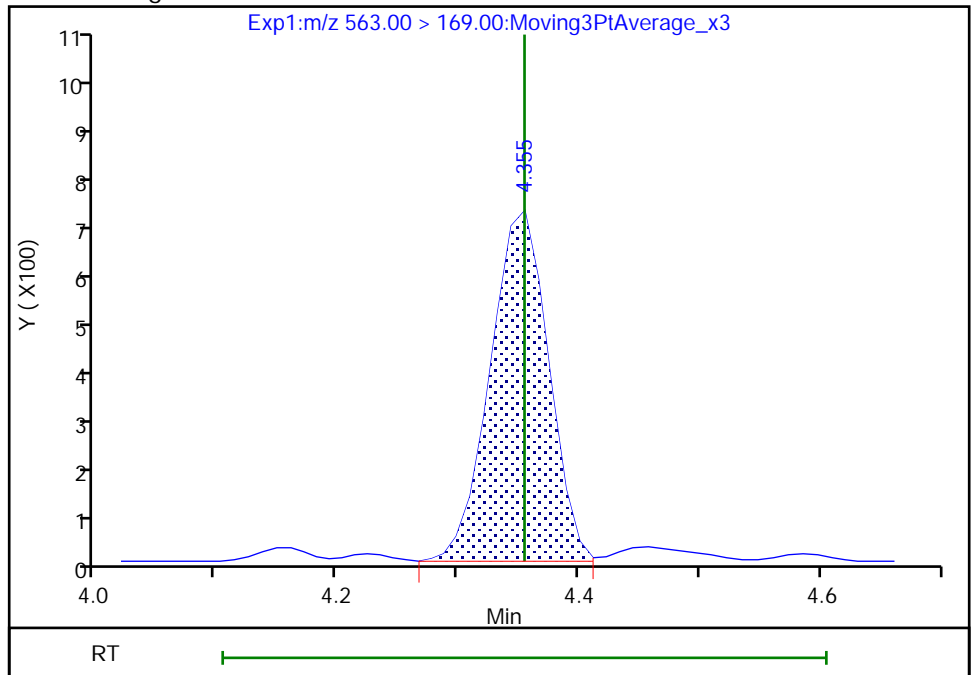
RT: 4.36  
Area: 2319  
Amount: 0.049628  
Amount Units: ng/ml

Processing Integration Results



RT: 4.36  
Area: 2349  
Amount: 0.051648  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:26:41  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

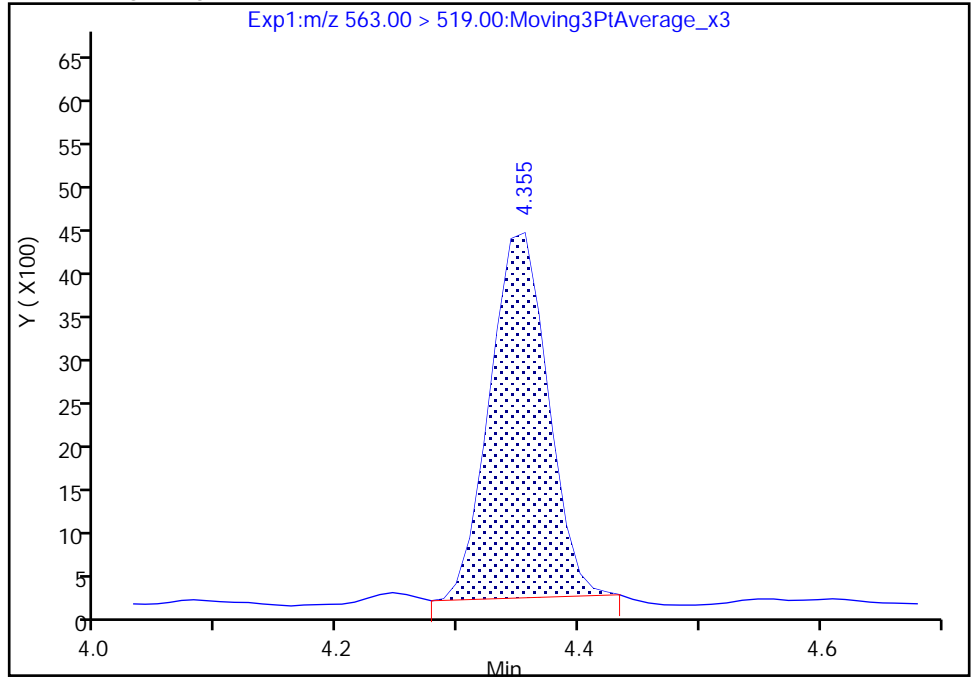
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

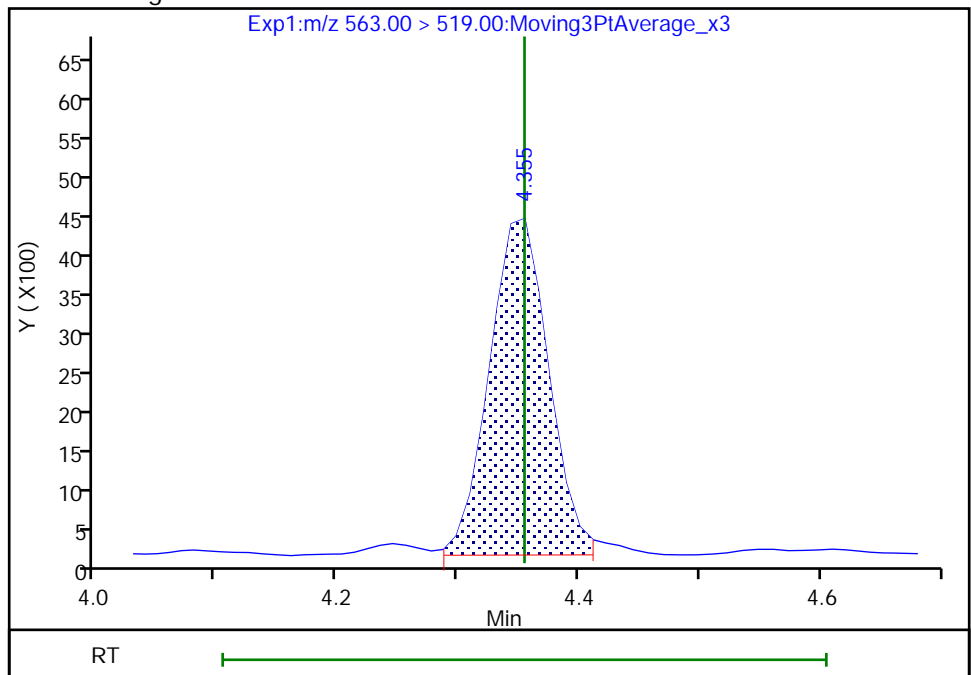
RT: 4.36  
Area: 14076  
Amount: 0.049628  
Amount Units: ng/ml

Processing Integration Results



RT: 4.36  
Area: 14649  
Amount: 0.051648  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:26:44

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

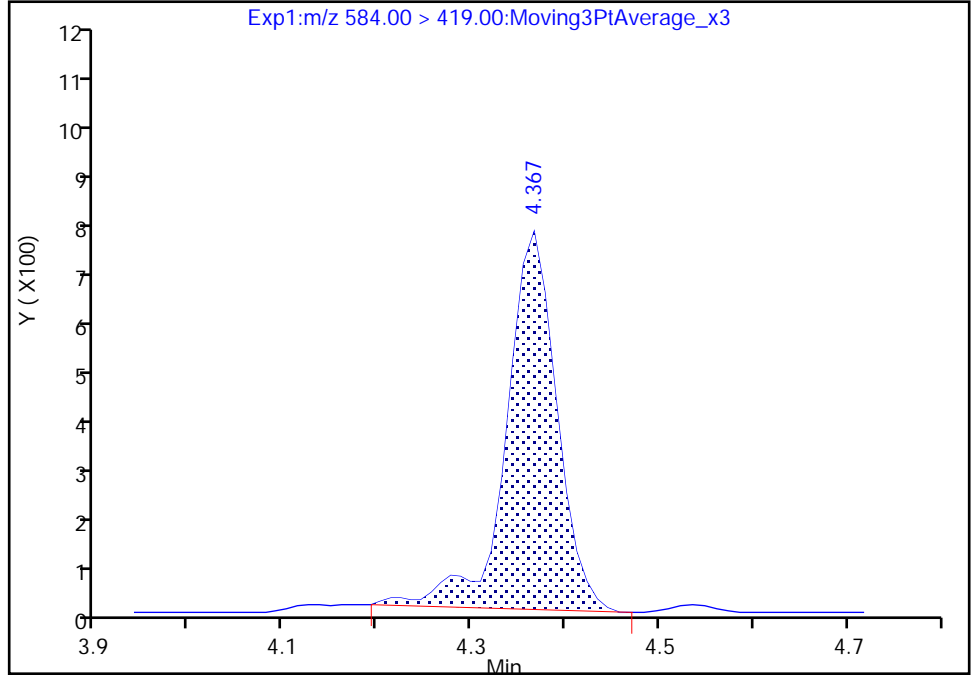
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

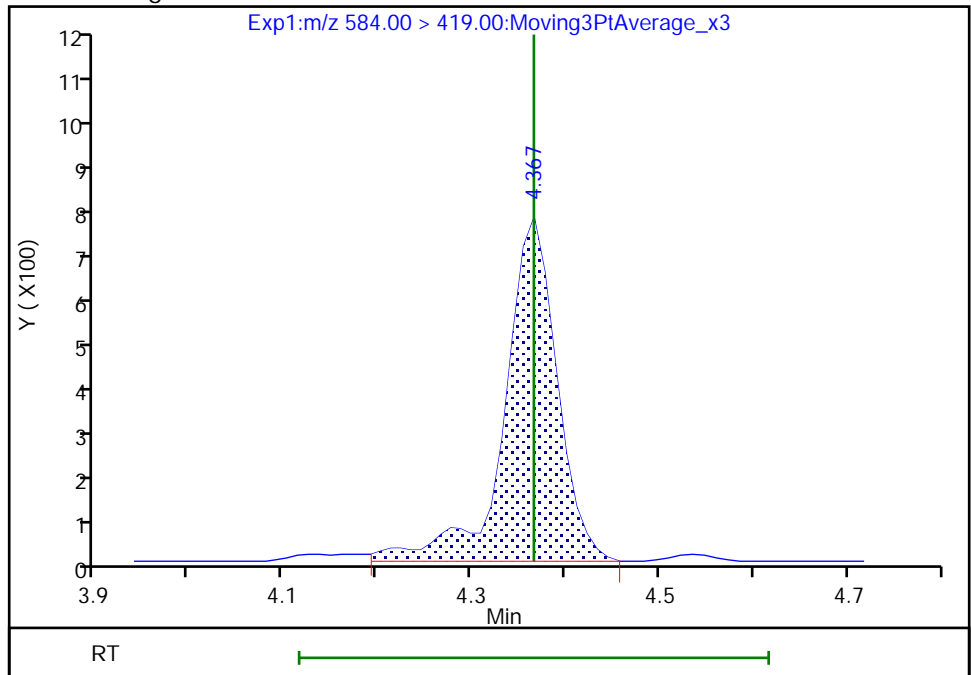
RT: 4.37  
Area: 2767  
Amount: 0.116162  
Amount Units: ng/ml

Processing Integration Results



RT: 4.37  
Area: 2891  
Amount: 0.121367  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:27:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

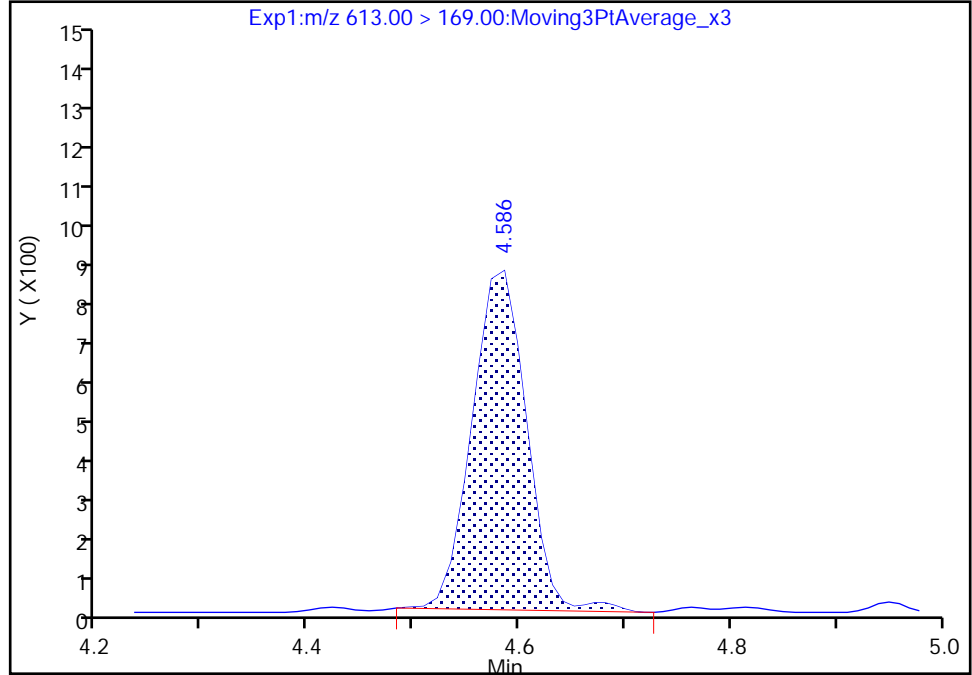
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

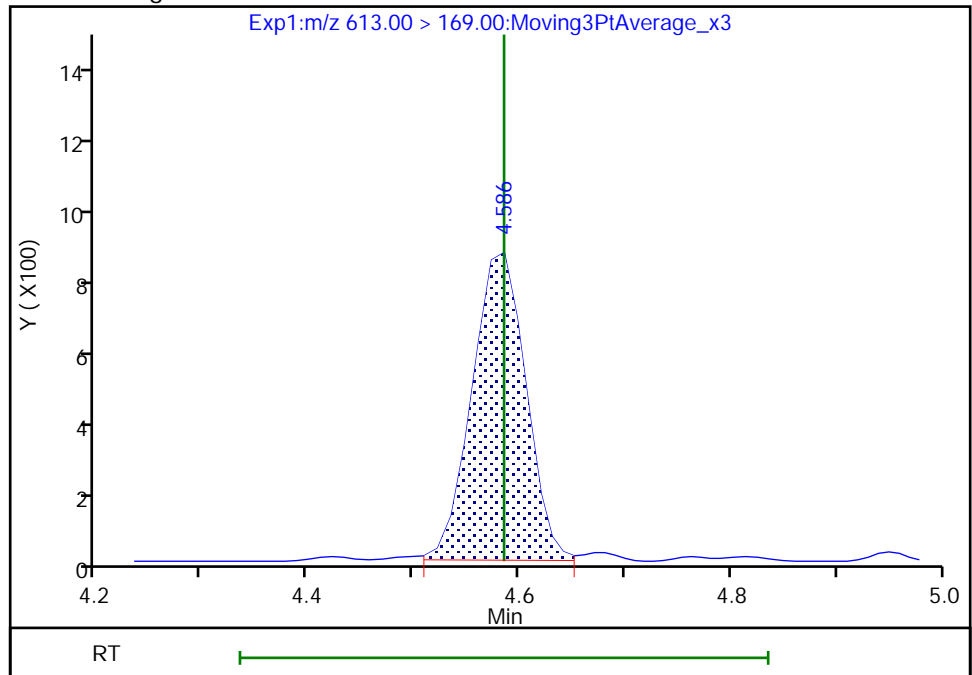
RT: 4.59  
Area: 3044  
Amount: 0.051144  
Amount Units: ng/ml

Processing Integration Results



RT: 4.59  
Area: 3021  
Amount: 0.050794  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:28:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

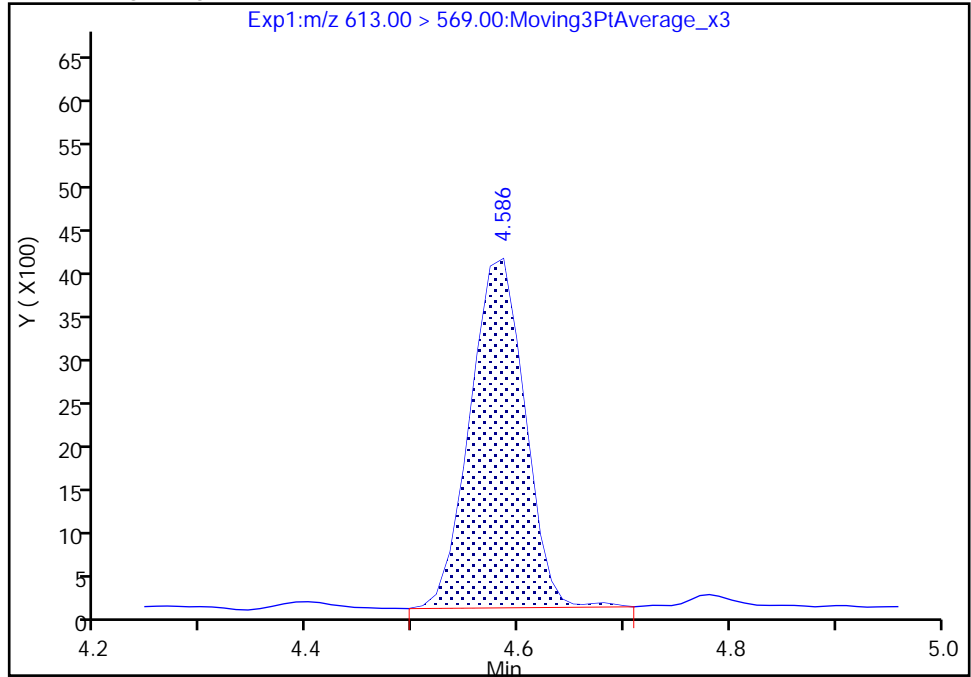
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

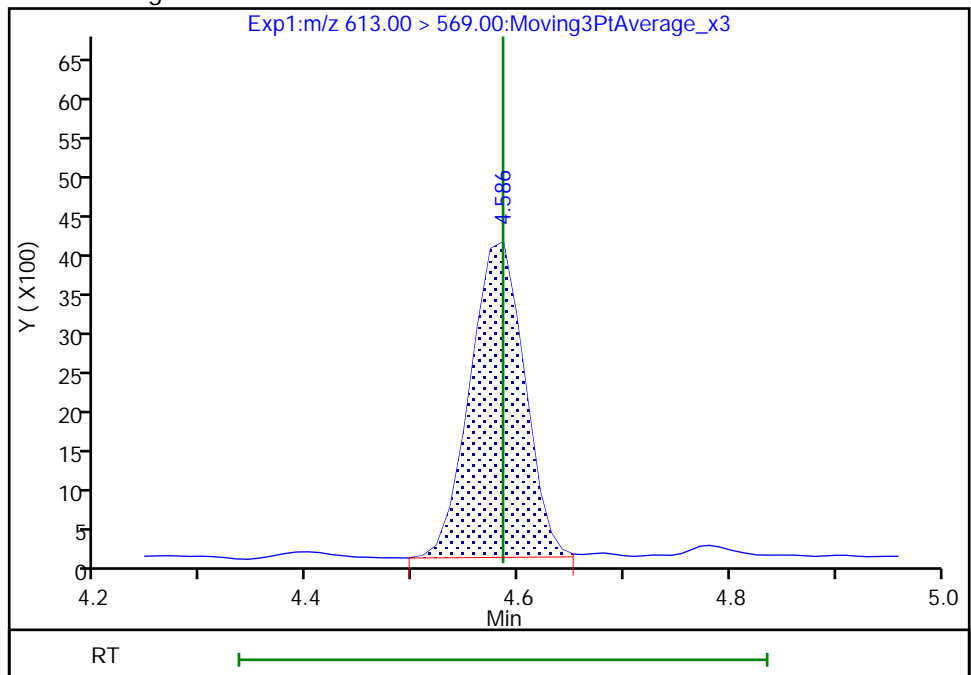
RT: 4.59  
Area: 14497  
Amount: 0.051144  
Amount Units: ng/ml

Processing Integration Results



RT: 4.59  
Area: 14398  
Amount: 0.050794  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:28:54

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

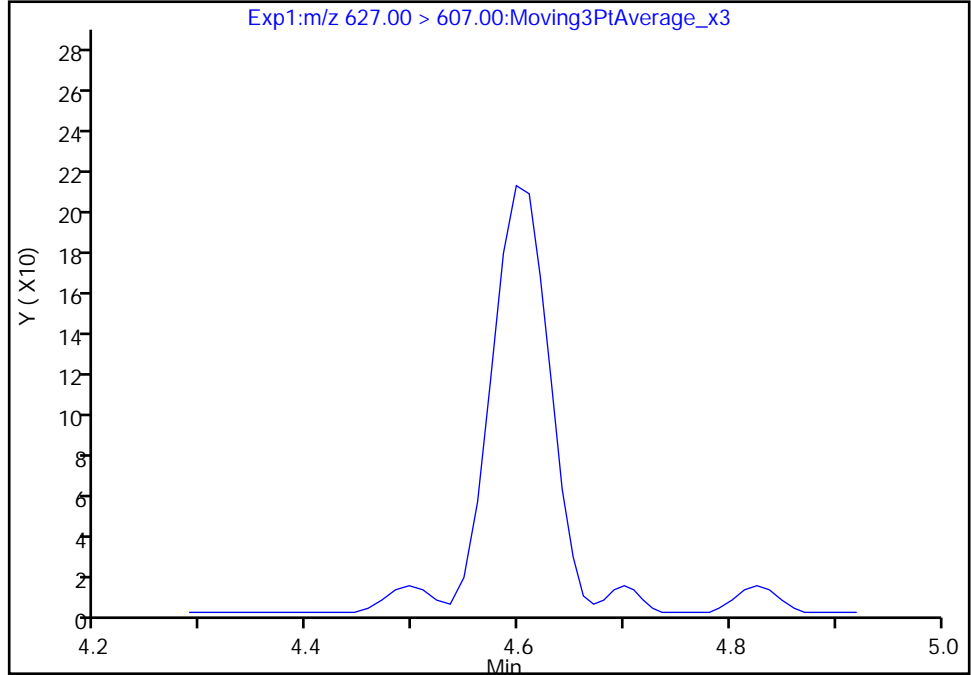
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

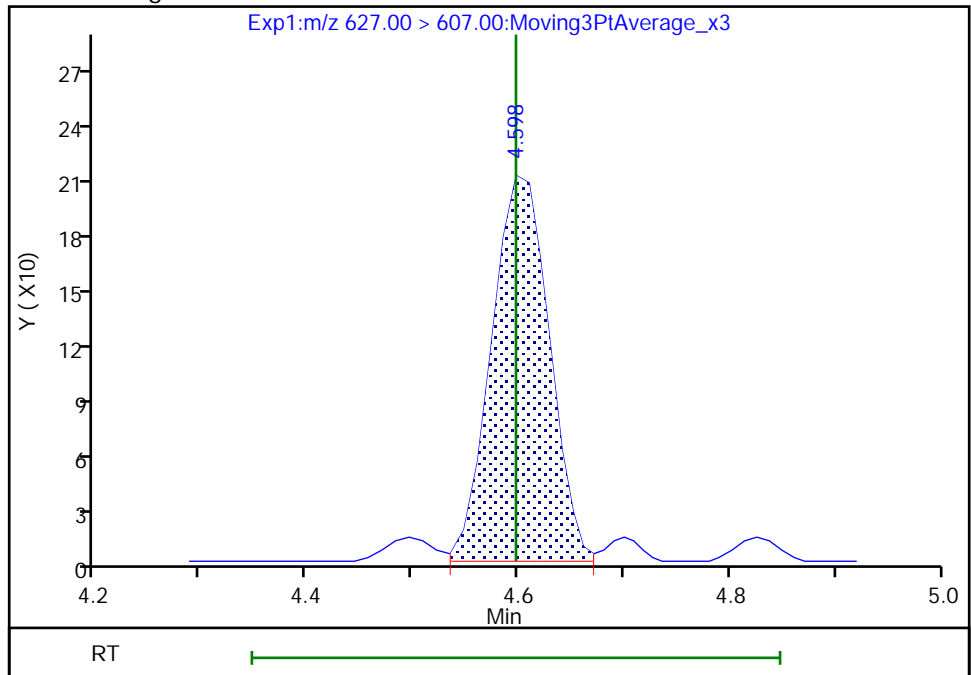
Not Detected  
Expected RT: 4.60

Processing Integration Results



Manual Integration Results

RT: 4.60  
Area: 789  
Amount: 0.047658  
Amount Units: ng/ml



Reviewer: manopan, 02-Oct-2020 08:29:09  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

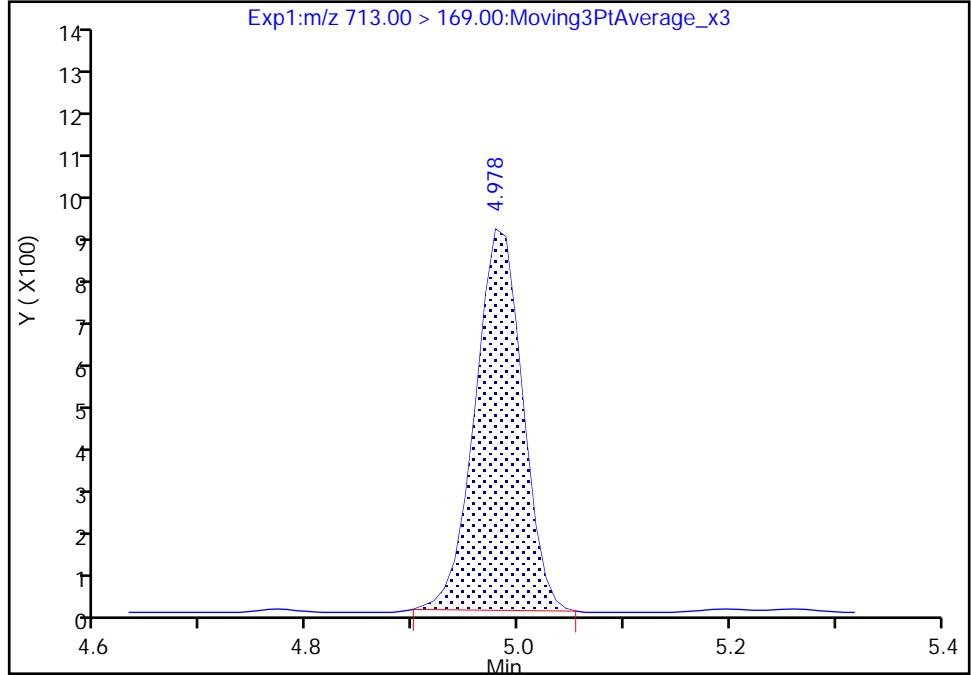
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

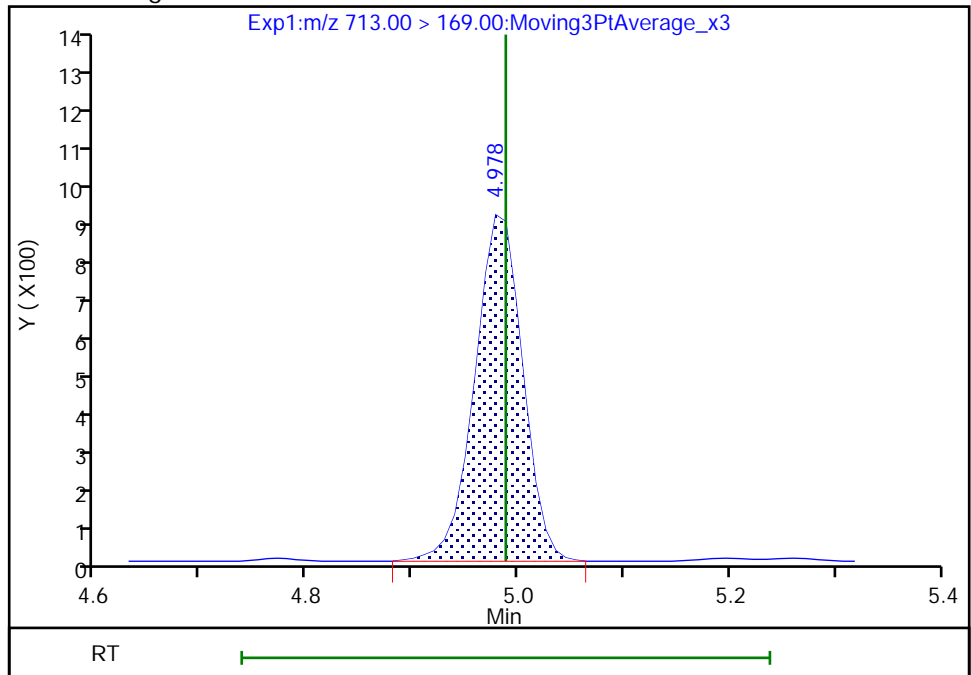
RT: 4.98  
Area: 2807  
Amount: 0.059521  
Amount Units: ng/ml

Processing Integration Results



RT: 4.98  
Area: 2858  
Amount: 0.060602  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:29:28  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

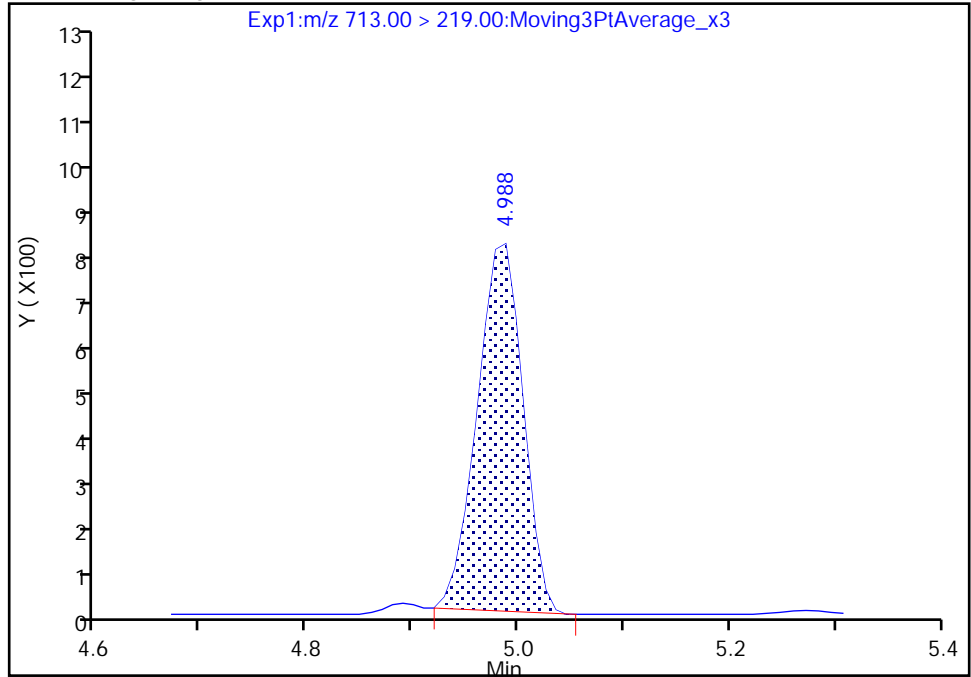
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

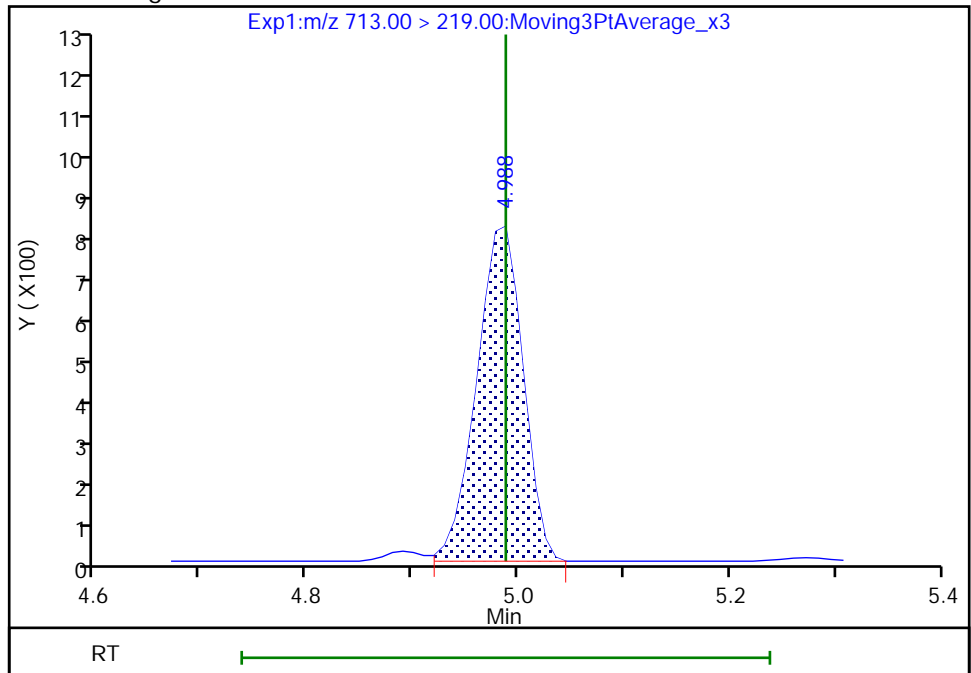
RT: 4.99  
Area: 2286  
Amount: 0.059521  
Amount Units: ng/ml

Processing Integration Results



RT: 4.99  
Area: 2339  
Amount: 0.060602  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:29:35

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

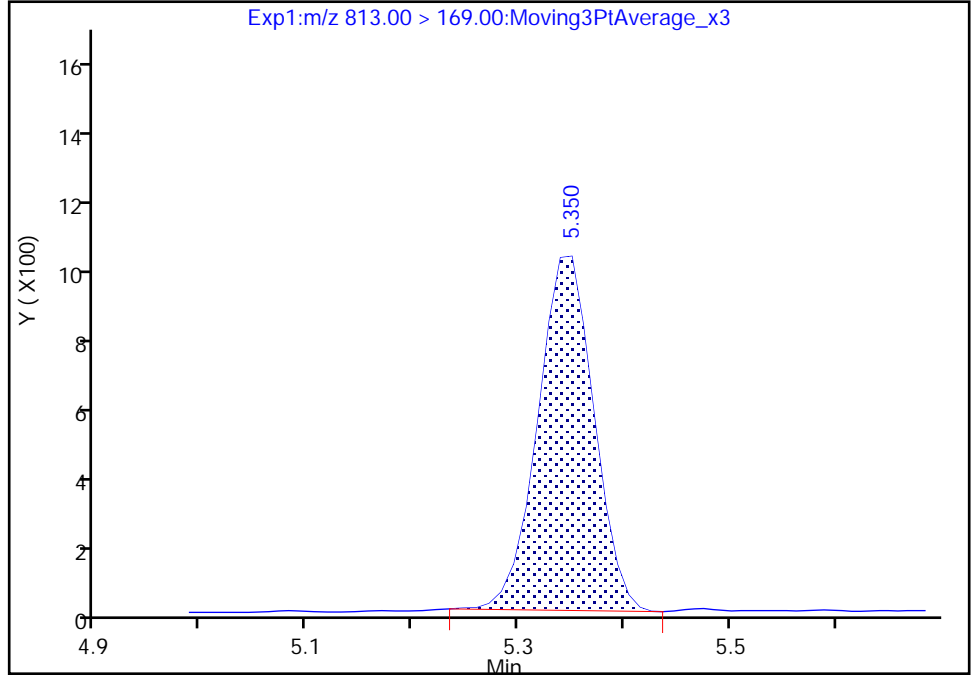
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

45 Perfluorohexadecanoic acid, CAS: 67905-19-5

Signal: 2

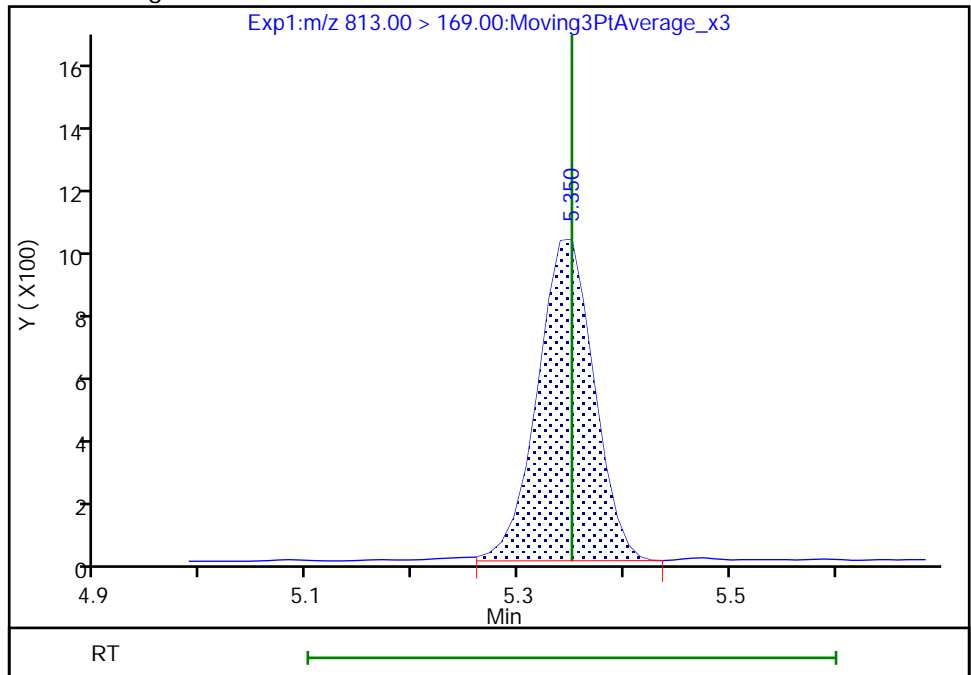
RT: 5.35  
Area: 3722  
Amount: 0.047782  
Amount Units: ng/ml

Processing Integration Results



RT: 5.35  
Area: 3761  
Amount: 0.047782  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:29:51  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

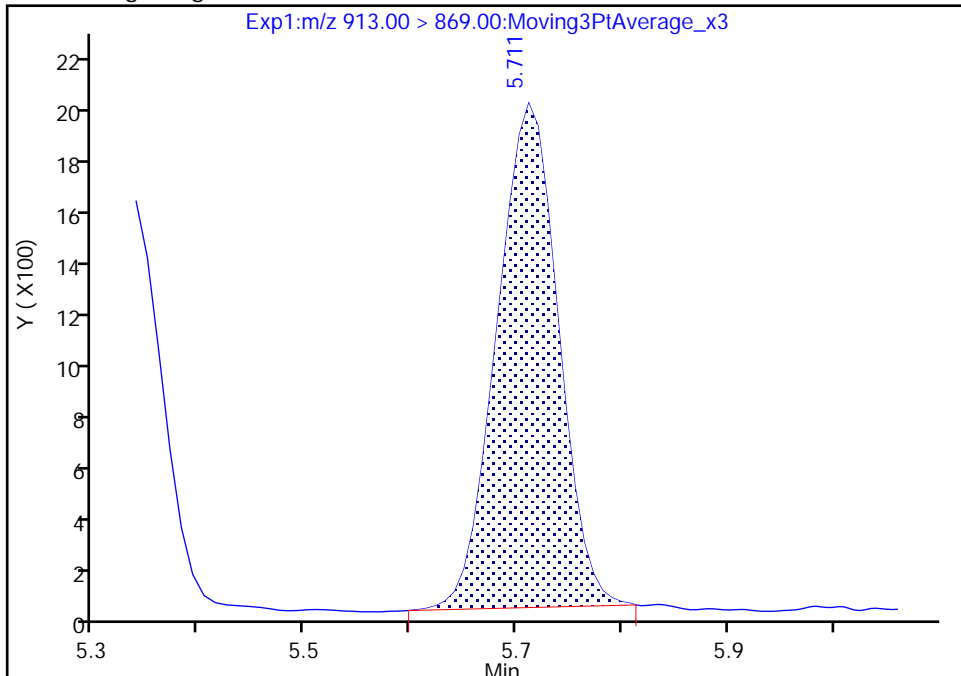
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 1

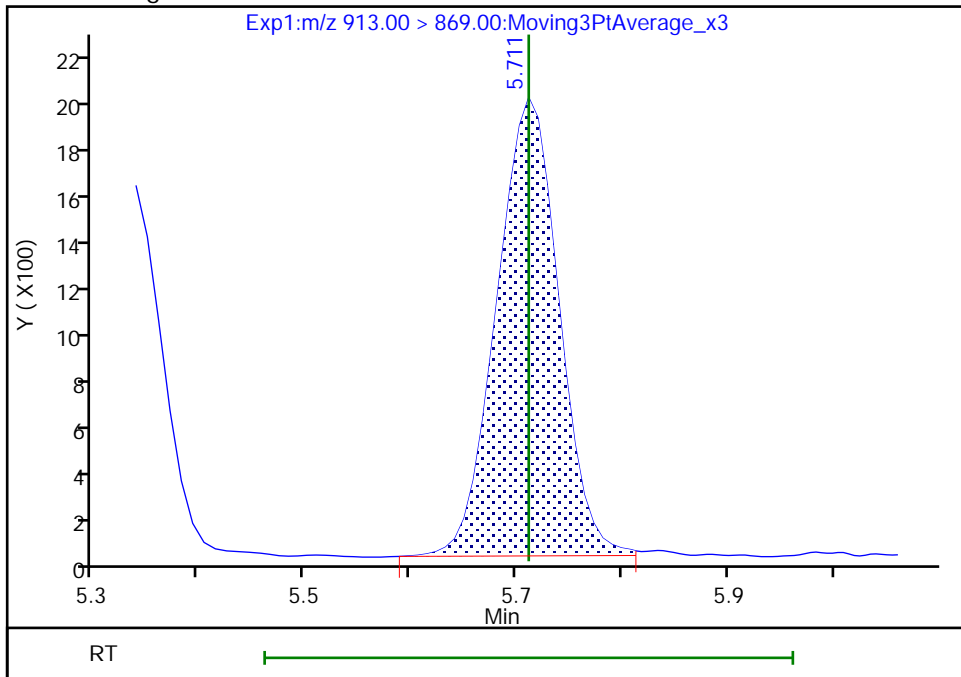
RT: 5.71  
Area: 8010  
Amount: 0.053635  
Amount Units: ng/ml

Processing Integration Results



RT: 5.71  
Area: 8152  
Amount: 0.054586  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:30:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

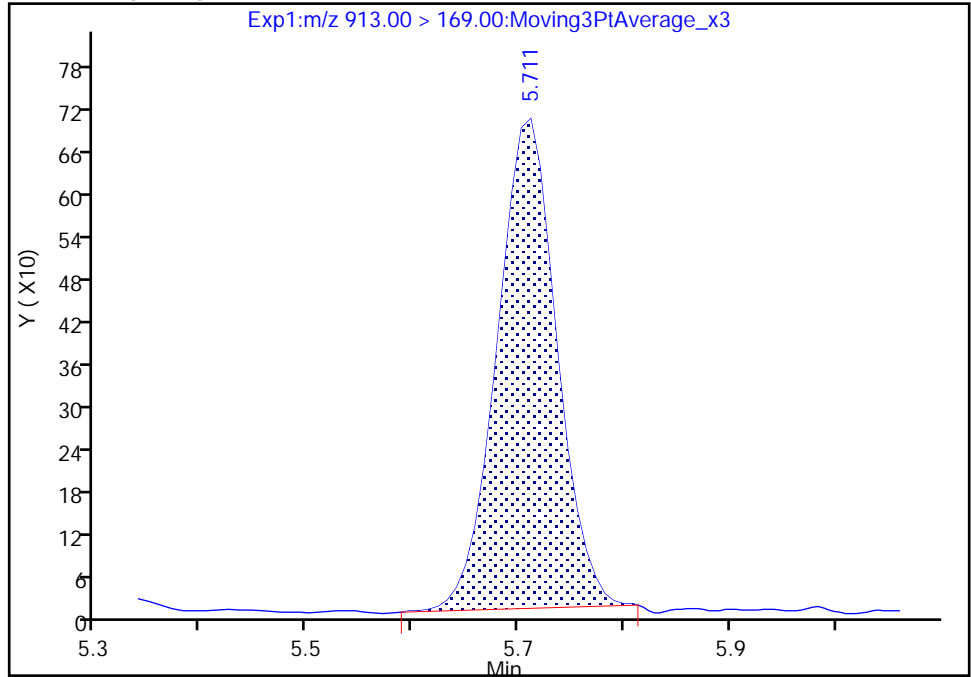
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A05.d  
Injection Date: 01-Oct-2020 18:36:55 Instrument ID: LC812  
Lims ID: CCVL  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 5  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

46 Perfluorooctadecanoic acid, CAS: 16517-11-6

Signal: 2

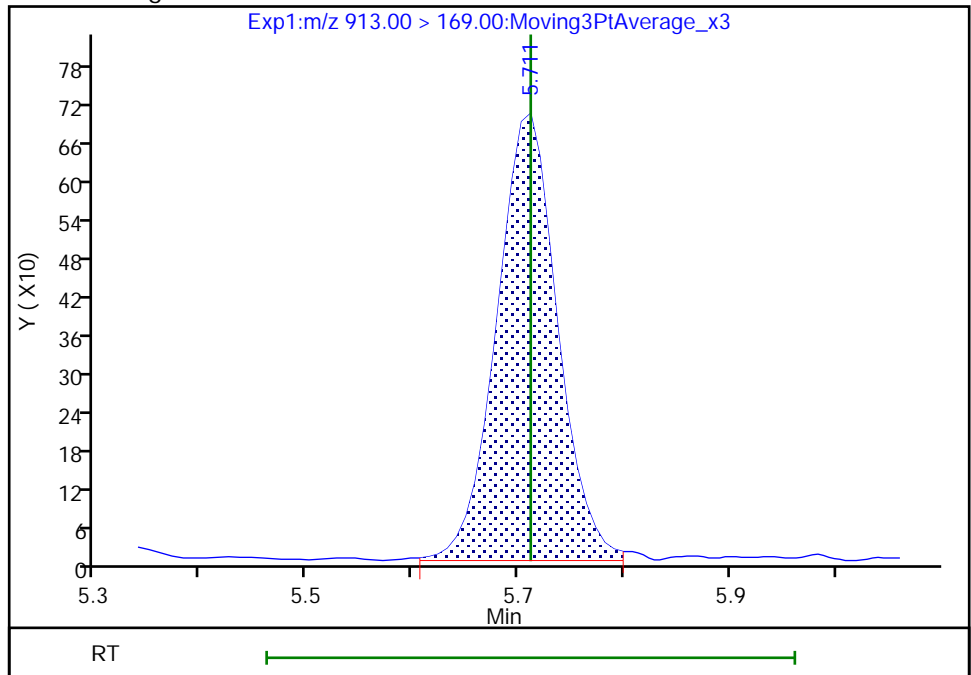
RT: 5.71  
Area: 2710  
Amount: 0.053635  
Amount Units: ng/ml

Processing Integration Results



RT: 5.71  
Area: 2789  
Amount: 0.054586  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:30:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-159470/6 Calibration Date: 10/01/2020 18:45  
 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: PA201001A06.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	0.8884		0.950	1.00	-5.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	0.998		0.945	1.00	-5.5	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.011		0.897	0.884	1.4	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.477		0.854	0.934	-8.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	0.9575		0.951	1.00	-4.9	40.0
Perfluoropentanesulfonic acid (PFPA)	AveID	1.184	1.242		0.984	0.938	4.9	50.0
HFPO-DA	AveID	2.128	1.791		0.842	1.00	-15.8	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.9354		0.934	1.00	-6.6	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.081		0.891	0.910	-2.1	40.0
DONA	AveID	3.081	2.924		0.894	0.942	-5.1	50.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.124		0.924	0.952	-2.9	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7439		0.884	0.948	-6.8	40.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.016		0.984	1.00	-1.6	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.020		0.871	0.928	-6.2	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	1.013		0.995	1.00	-0.5	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.8796		0.857	0.932	-8.0	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8112		0.907	0.960	-5.5	50.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.3687		0.892	0.958	-6.9	40.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.9796		0.990	1.00	-1.0	40.0
Perfluorodecanesulfonamide (PFOSA)	AveID	0.9348	0.9595		1.03	1.00	2.6	40.0
N-methylperfluorodecanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.8976		0.951	1.00	-4.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6743		0.905	0.964	-6.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	0.9559		0.969	1.00	-3.1	40.0
N-ethylperfluorodecanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.7862		0.859	1.00	-14.1	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7391		0.844	0.942	-10.4	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.8689		0.891	1.00	-10.9	40.0
10:2 FTS	AveID	0.2199	0.1764		0.773	0.964	-19.8	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.1977		0.830	0.968	-14.2	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8499		1.03	1.00	2.6	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2334		1.02	1.00	1.9	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCVIS 200-159470/6 Calibration Date: 10/01/2020 18:45  
 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: PA201001A06.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	0.7245		0.969	1.00	-3.1	50.0
13C4 PFBA	Ave	1.433	1.486		1.30	1.25	3.7	50.0
13C5 PFPeA	Ave	1.027	1.060		1.29	1.25	3.2	50.0
13C3 PFBS	Ave	1.251	1.245		1.16	1.16	-0.5	50.0
M2-4:2 FTS	Ave	0.0939	0.0959		1.19	1.17	2.1	50.0
13C2 PFHxA	Ave	1.058	1.079		1.28	1.25	2.0	50.0
13C3 HFPO-DA	Ave	0.0985	0.1168		1.48	1.25	18.5	50.0
13C4 PFHpA	Ave	0.9620	1.003		1.30	1.25	4.3	50.0
18O2 PFHxS	Ave	0.8974	0.9230		1.22	1.18	2.9	50.0
M2-6:2 FTS	Ave	0.1199	0.1220		1.21	1.19	1.7	50.0
13C4 PFOA	Ave	0.9845	0.9449		1.20	1.25	-4.0	50.0
13C4 PFOS	Ave	0.7341	0.7575		1.23	1.20	3.2	50.0
13C5 PFNA	Ave	0.8296	0.8249		1.24	1.25	-0.6	50.0
13C2 PFDA	Ave	0.7956	0.7675		1.21	1.25	-3.5	50.0
M2-8:2 FTS	Ave	0.1413	0.1485		1.26	1.20	5.2	50.0
13C8 FOSA	Ave	1.282	1.213		1.18	1.25	-5.4	50.0
d3-NMeFOSAA	Ave	0.0453	0.0436		1.20	1.25	-3.7	50.0
13C2 PFUnA	Ave	0.6006	0.5972		1.24	1.25	-0.6	50.0
d5-NEtFOSAA	Ave	0.0487	0.0461		1.18	1.25	-5.3	50.0
13C2 PFDoA	Ave	0.6348	0.5791		1.14	1.25	-8.8	50.0
13C2 PFTeDA	Ave	0.4522	0.3967		1.10	1.25	-12.3	50.0
13C2 PFHxDA	Ave	0.5124	0.3822		0.932	1.25	-25.4	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
 Lims ID: CCVIS  
 Client ID:  
 Sample Type: CCVIS  
 Inject. Date: 01-Oct-2020 18:45:11 ALS Bottle#: 3 Worklist Smp#: 6  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCVIS  
 Misc. Info.: 200-0043055-006 Plate: 1 Rack: 1  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 02-Oct-2020 15:15:37 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: CTX1005

First Level Reviewer: manopan Date: 02-Oct-2020 08:38:41

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	1.990	0.0	0.576	947674	1.30	104	15291	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.000	2.000	0.0	1.005	673548	0.9504		95.0	202	M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.672	675677	1.29	103	3390	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	539497	0.9451		94.5	40.8	M
D 47 13C3 PFBS	301.90 > 80.00	2.353	2.353	0.0	0.680	738280	1.16	99.5	134300	M
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.353	2.353	0.0	1.000	567442	0.8967	Target=2.07	101	1710	
298.90 > 99.00	2.353	2.353	0.0	1.000	283906		2.00(1.04-3.11)		522	
D 60 M2-4:2 FTS	329.00 > 81.00	2.666	2.666	0.0	0.771	57123	1.19	102	143	M
61 1H,1H,2H,2H-perfluorohexanesulfo										
327.00 > 307.00	2.666	2.666	0.0	1.000	67500	0.8536		91.4	900	
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.782	688094	1.28	102	2234	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	527095	0.9509	Target=12.44	95.1	276	
313.00 > 119.00	2.703	2.703	0.0	1.000	45120		11.68(6.22-18.66)		62.4	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.881	548727	0.9842	Target=3.64	105	2039	
349.00 > 99.00	2.716	2.716	0.0	0.881	153080		3.58(1.82-5.46)		629	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.818	2.818	0.0	0.815	74497	1.48	119	1131	

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	2.818	0.0	1.000	106737	0.8417		84.2	34.6	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.085	3.085	0.0	0.892	556810	1.22		103	1213	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.085	3.085	0.0	1.000	463317	0.8909	Target=4.60	97.9	766	M
399.00 > 99.00	3.085	3.085	0.0	1.000	100798		4.60(2.30-6.91)		297	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.085	3.085	0.0	0.892	639827	1.30		104	3492	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.085	3.085	0.0	1.000	478813	0.9335	Target=3.34	93.4	365	
363.00 > 169.00	3.096	3.085	0.012	1.004	142276		3.37(1.67-5.01)		305	
77 DONA										
377.00 > 251.00	3.124	3.124	0.0	0.830	1064349	0.8939	Target=2.44	94.9	3535	
377.00 > 85.00	3.124	3.124	0.0	0.830	446998		2.38(1.22-3.67)		1611	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.441	3.441	0.0	0.914	413681	0.9239	Target=7.08	97.1	2203	M
449.00 > 99.00	3.441	3.441	0.0	0.914	59930		6.90(3.54-10.63)		694	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.450	3.450	0.0	1.000	43885	0.8837		93.2	646	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.450	0.0	0.997	73896	1.21		102	835	
D 14 13C4 PFOA										
417.00 > 372.00	3.459	3.459	0.0	1.000	602578	1.20		96.0	2988	
* 62 13C2 PFOA										
415.00 > 370.00	3.459	3.459	0.0		637720	1.25			3246	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.459	3.459	0.0	1.000	489641	0.9838	Target=2.29	98.4	317	
413.00 > 169.00	3.459	3.459	0.0	1.000	212387		2.31(1.14-3.43)		564	
D 18 13C4 PFOS										
503.00 > 80.00	3.766	3.766	0.0	1.089	461815	1.23		103	1791	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.776	3.776	0.0	1.003	365692	0.8708	Target=7.10	93.8	989	M
499.00 > 99.00	3.766	3.776	-0.010	1.000	54659		6.69(3.55-10.64)		680	M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.786	0.0	1.095	526069	1.24		99.4	3998	
20 Perfluorononanoic acid										
463.00 > 419.00	3.797	3.797	0.0	1.003	426234	0.99	Target=5.83	99.5	207	
463.00 > 169.00	3.786	3.797	-0.011	1.000	70344		6.06(2.91-8.74)		1150	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.932	3.932	0.0	1.044	316803	0.8572		92.0	2269	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.062	4.062	0.0	1.079	300962	0.9068	Target=3.38	94.5	2381	M
549.00 > 99.00	4.062	4.062	0.0	1.079	85080		3.54(1.69-5.08)		645	M
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.183	489427	1.21		96.5	3416	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.092	0.0	1.000	383545	0.99	Target=6.81	99.0	960	
513.00 > 169.00	4.082	4.092	-0.010	0.998	48958		7.83(3.41-10.22)		728	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.092	4.092	0.0	1.000	26765	0.8923		93.1	592	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.183	90746	1.26		105	1443	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.151	0.0	1.200	773797	1.18		94.6	3135	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.151	4.151	0.0	1.000	593989	1.03		103	1270	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.224	27826	1.20		96.3	194	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.235	4.235	0.0	1.000	19982	0.9512		95.1	311	
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.321	0.0	1.147	251189	0.9046	Target=3.31	93.8	1933	M
599.00 > 99.00	4.321	4.321	0.0	1.147	77497		3.24(1.66-4.97)		637	M
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.259	380877	1.24		99.4	4199	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.355	0.0	1.000	291278	0.9692	Target=6.57	96.9	555	
563.00 > 169.00	4.355	4.355	0.0	1.000	43215		6.74(3.28-9.85)		1157	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.262	29410	1.18		94.7	398	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.366	4.366	0.0	1.000	18498	0.8588		85.9		M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.444	4.444	0.0	1.180	269051	0.8439		89.6	3706	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.585	4.585	0.0	1.326	369313	1.14		91.2	4865	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.585	4.585	0.0	1.000	256713	0.8910	Target=5.16	89.1	469	M
613.00 > 169.00	4.585	4.585	0.0	1.000	54216		4.74(2.58-7.75)		1664	M
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.597	4.597	0.0	1.124	12887	0.7732		80.2	238	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.754	4.754	0.0	1.263	73970	0.8301	Target=0.45	85.8	453	
699.00 > 99.00	4.754	4.754	0.0	1.263	172809		0.43(0.22-0.67)		1747	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.790	4.790	0.0	1.045	251091	1.03	Target=3.30	103	285	M
663.00 > 169.00	4.790	4.790	0.0	1.045	69081		3.63(1.65-4.95)		1483	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.988	0.0	1.442	252980	1.10		87.7	2998	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.988	4.988	0.0	1.000	47228	1.02	Target=1.06	102	1209	M
713.00 > 219.00	4.978	4.988	-0.010	0.998	45297		1.04(0.53-1.59)		1318	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	1.547	243706	0.9322		74.6	3213	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.350	0.0	1.000	181874	1.05	Target=3.06	105	174	
813.00 > 169.00	5.350	5.350	0.0	1.000	59452		3.06(1.53-4.58)		2356	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.711	5.711	0.0	1.067	141248	0.9694	Target=2.82	96.9	313	
913.00 > 169.00	5.703	5.711	-0.008	1.066	49100		2.88(1.41-4.24)		883	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

PFAS32NCIC4\_00011

Amount Added: 100.00

Units: uL

Eurofins TestAmerica, Burlington

Data File: \\chromf\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d

Injection Date: 01-Oct-2020 18:45:11

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

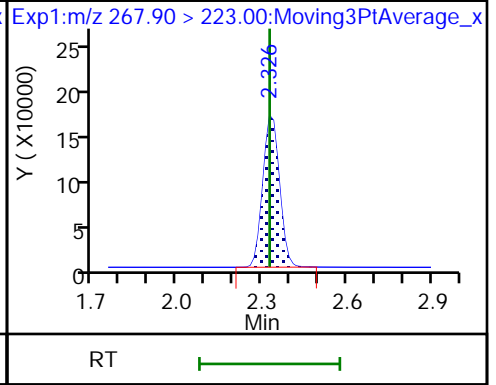
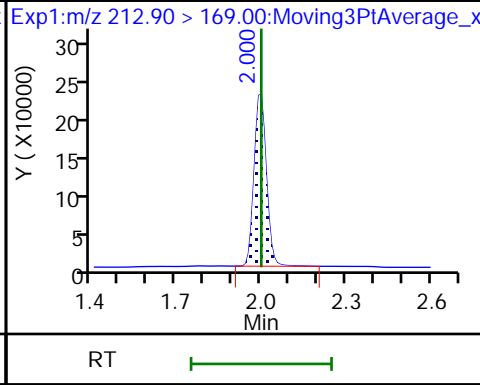
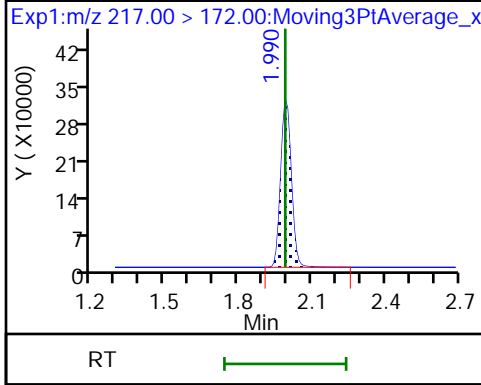
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

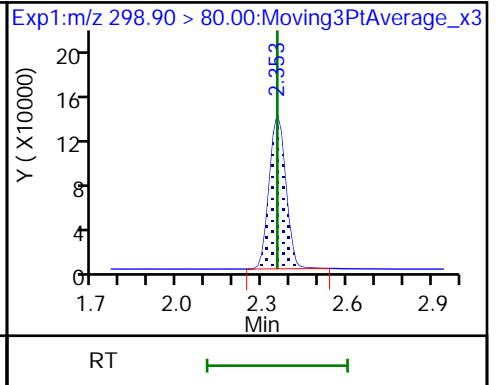
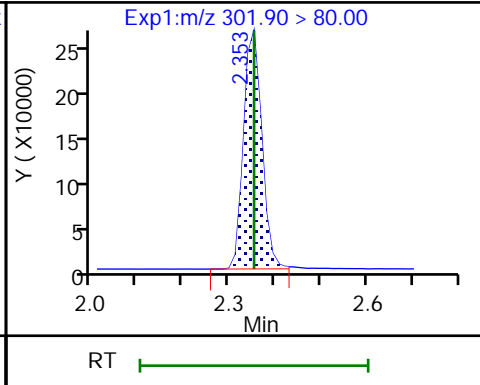
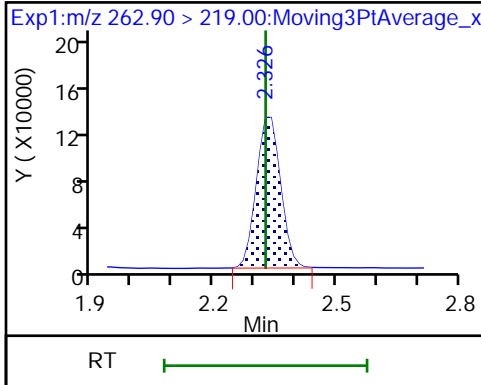
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS (M)

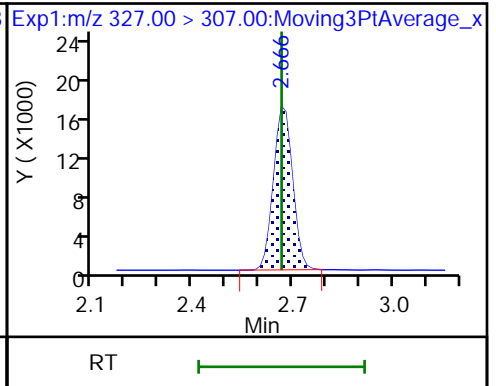
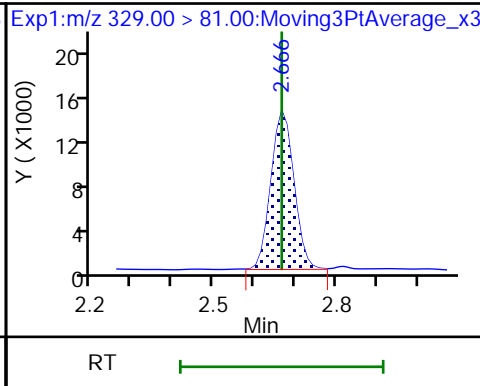
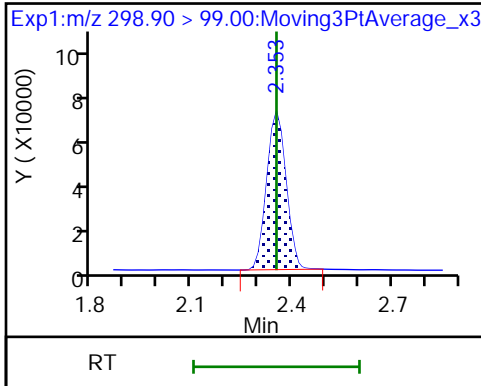
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

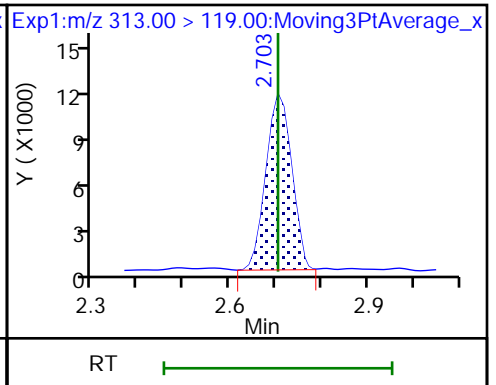
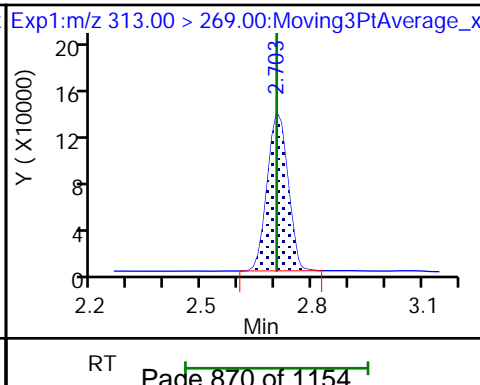
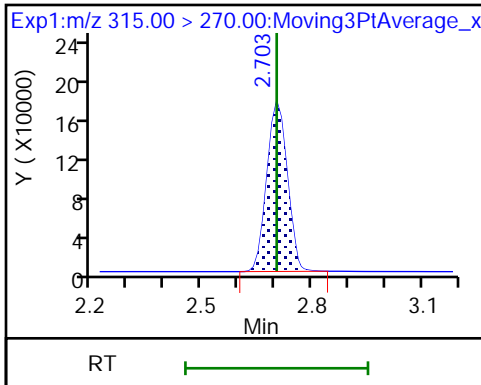
61 1H,1H,2H,2H-perfluorohexanesulfo

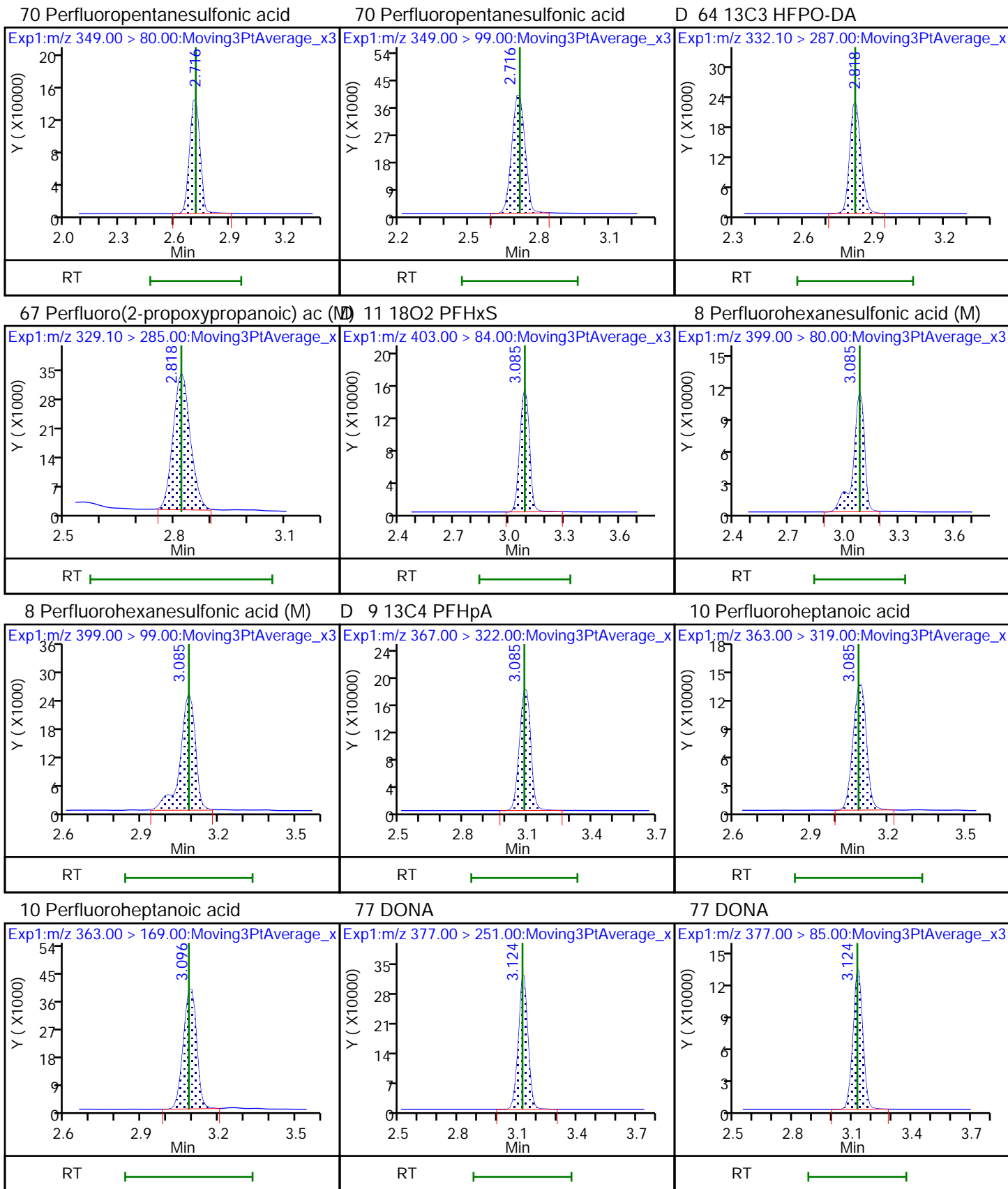


D 7 13C2 PFHxA

6 Perfluorohexanoic acid

6 Perfluorohexanoic acid (M)

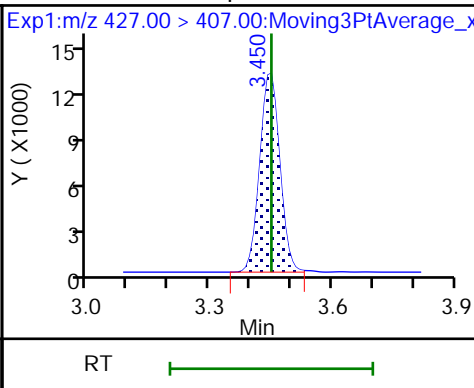
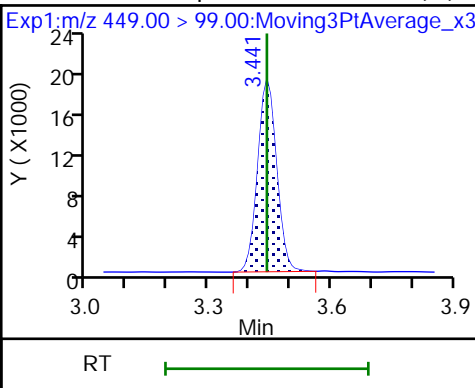
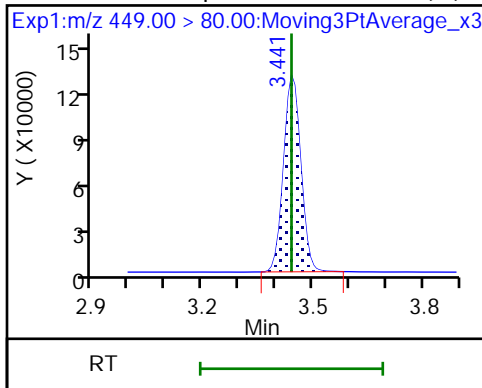




16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

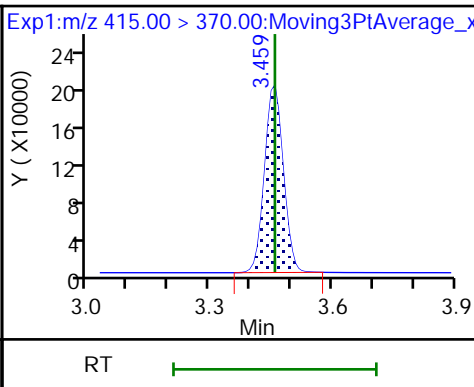
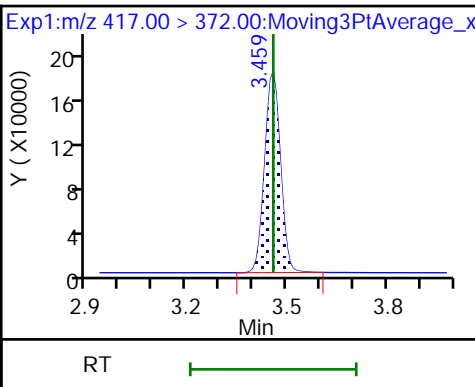
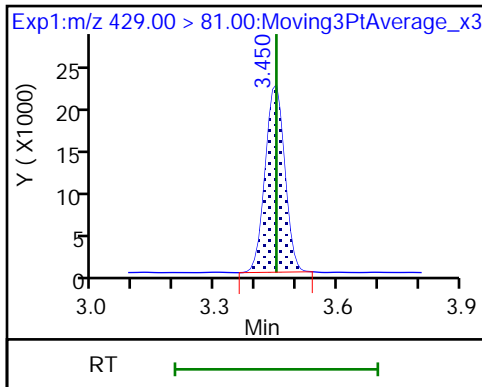
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



D 12 M2-6:2 FTS

D 14 13C4 PFOA

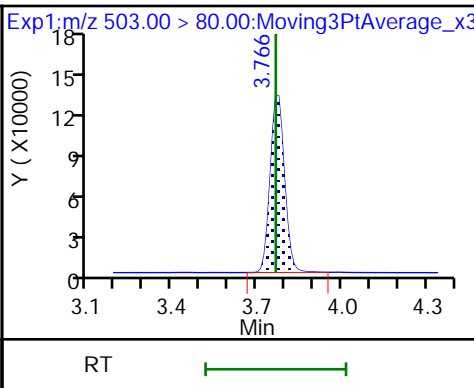
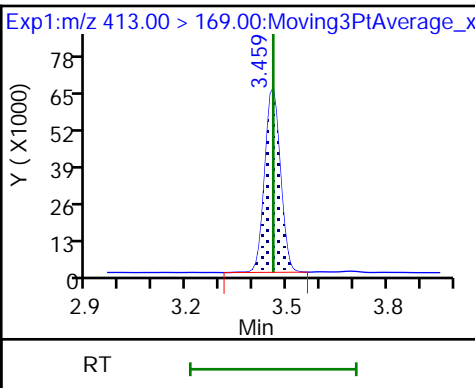
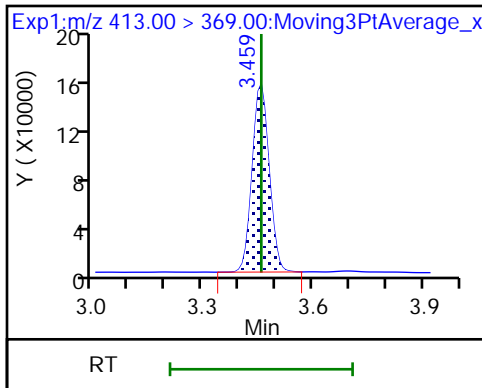
\* 62 13C2 PFOA



15 Perfluorooctanoic acid

15 Perfluorooctanoic acid

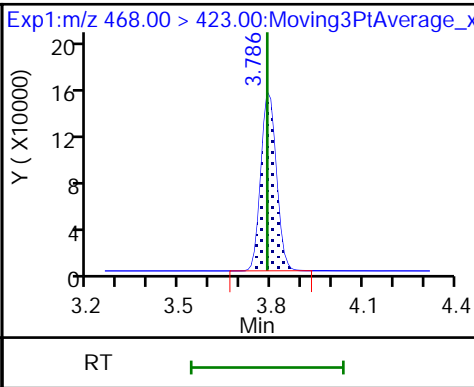
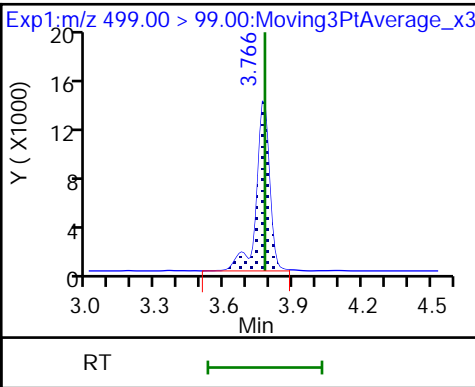
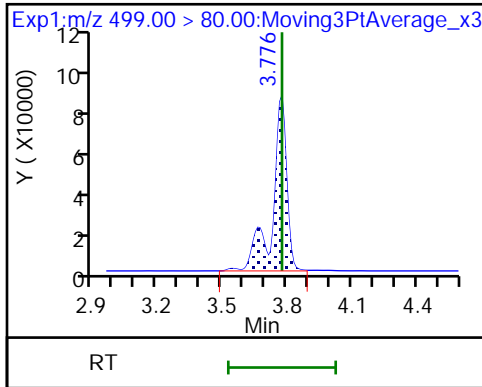
D 18 13C4 PFOS

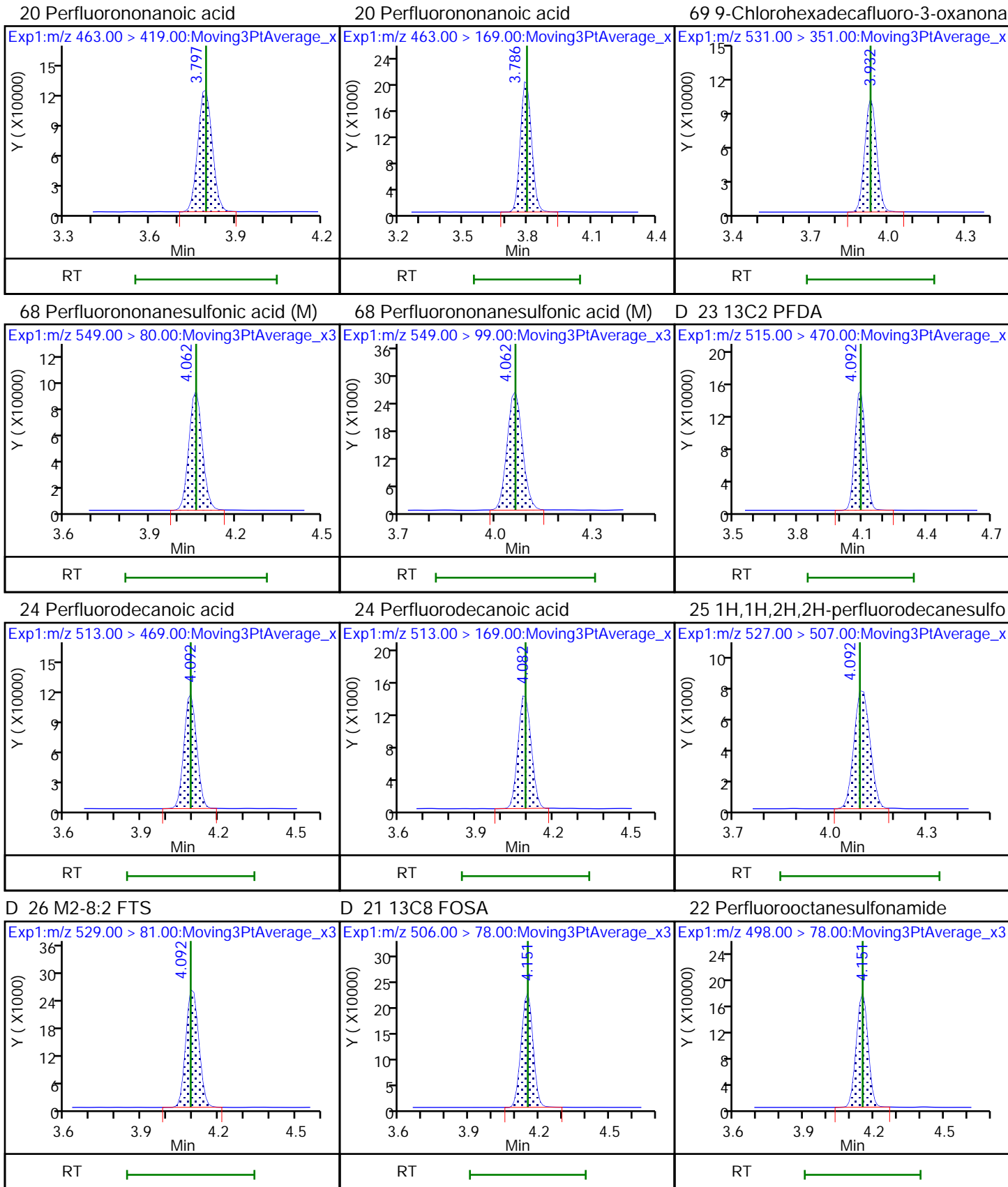


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

D 19 13C5 PFNA

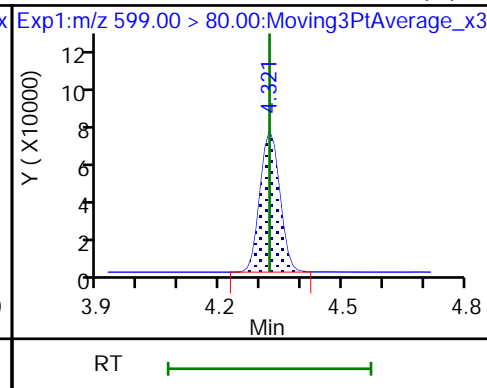
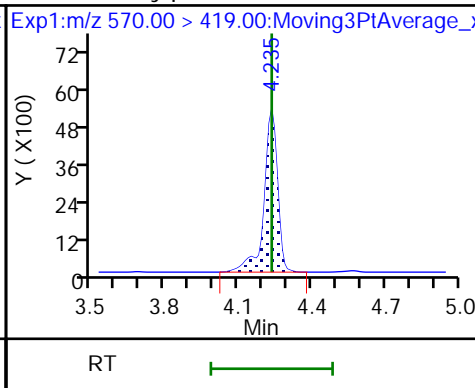
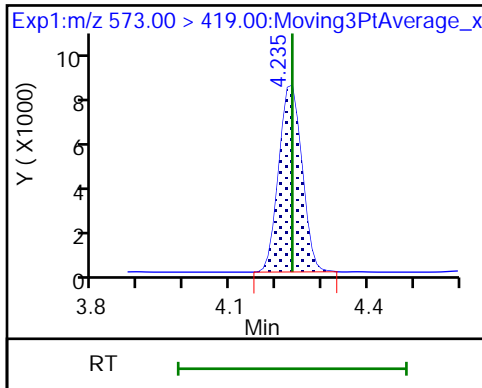




D 27 d3-NMeFOSAA

28 N-methylperfluorooctanesulfonami

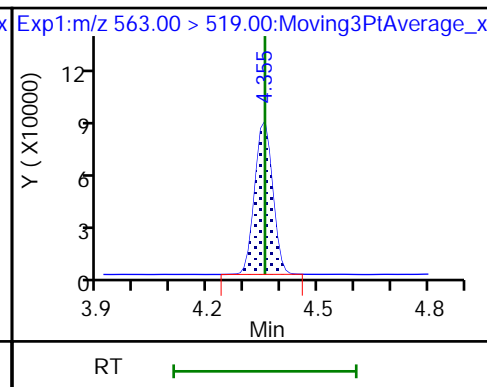
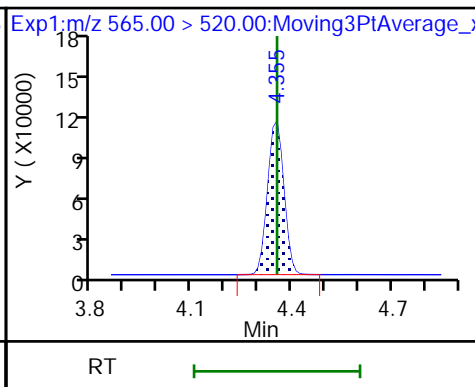
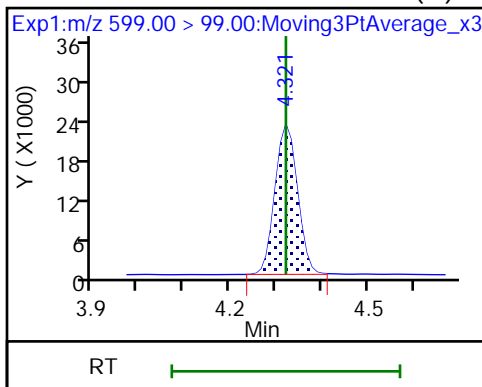
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUoA

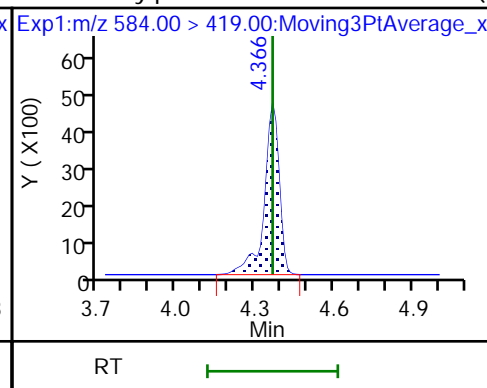
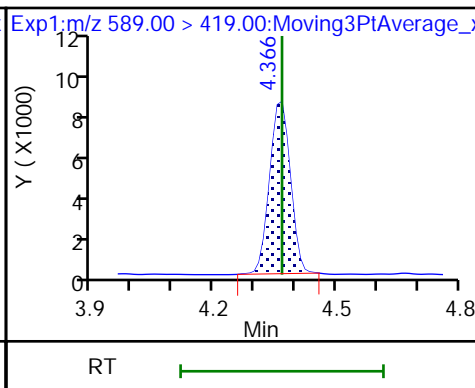
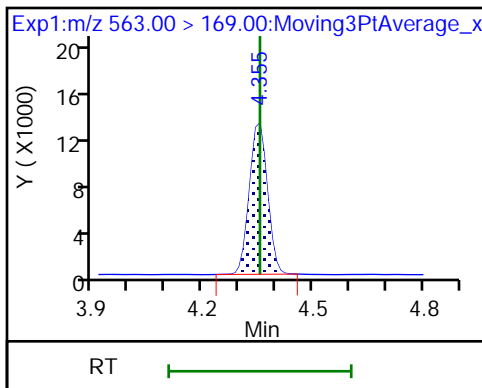
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

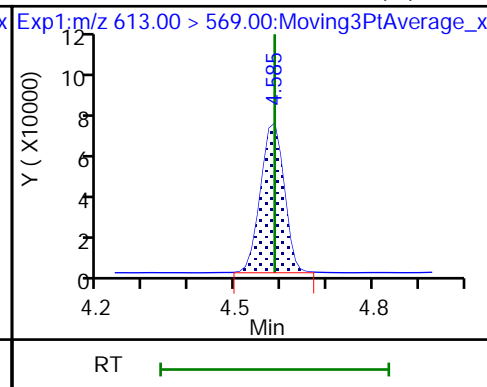
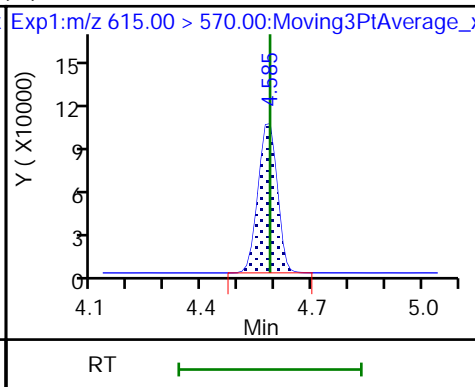
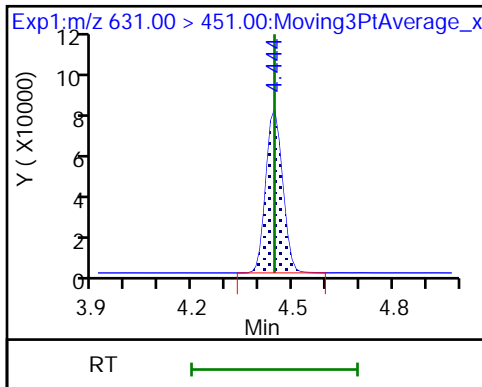
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec

(M)36 13C2 PFDoA

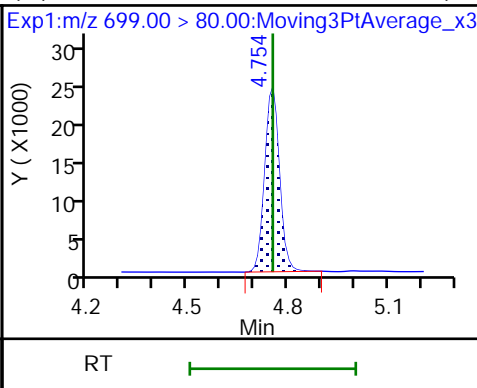
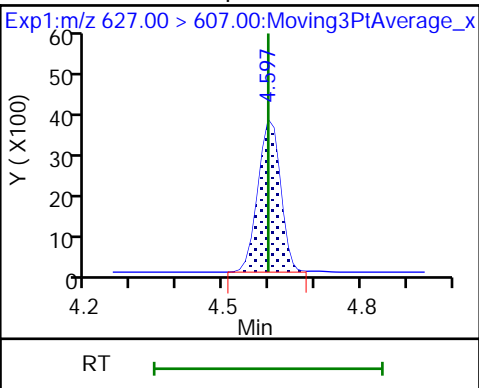
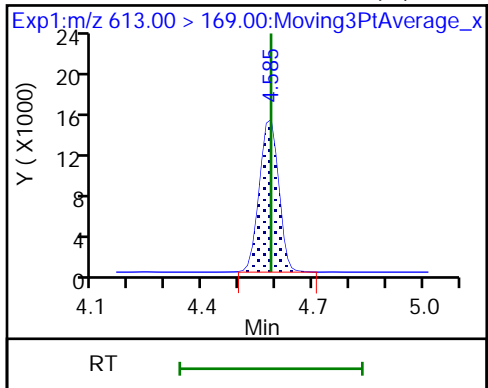
37 Perfluorododecanoic acid (M)



37 Perfluorododecanoic acid (M)

74 1H,1H,2H,2H-perfluorododecanesul (M)

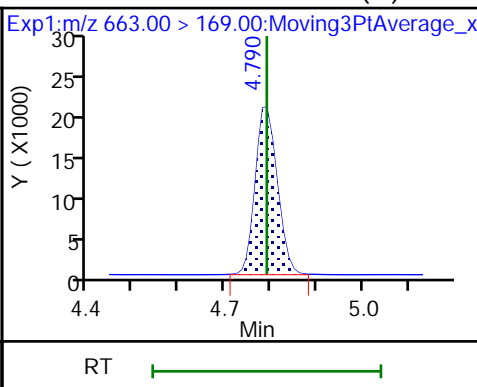
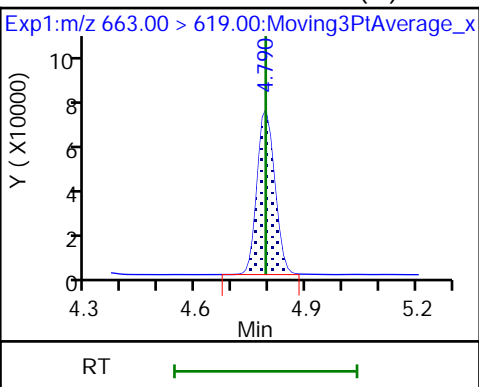
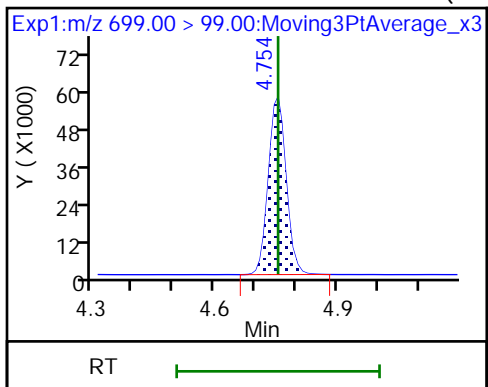
75 Perfluorododecanesulfonic acid (M)



75 Perfluorododecanesulfonic acid (M)

41 Perfluorotridecanoic acid (M)

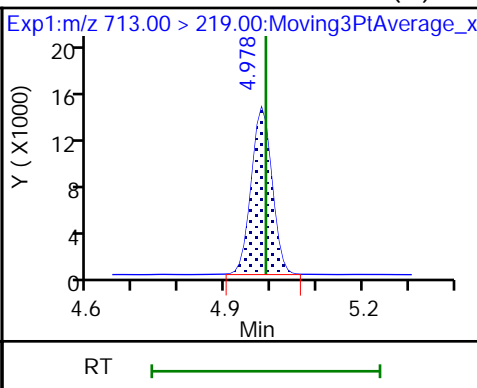
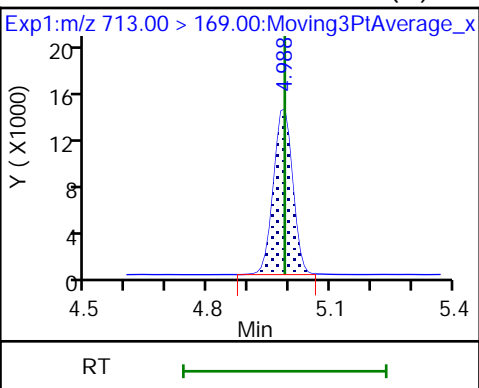
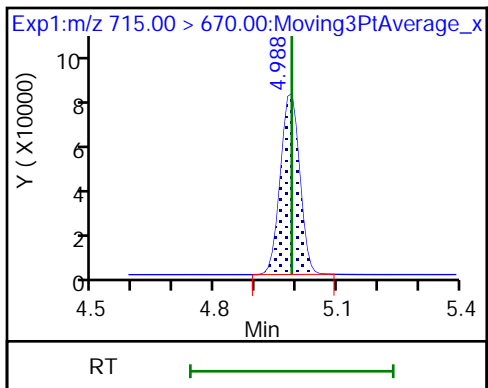
41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid (M)

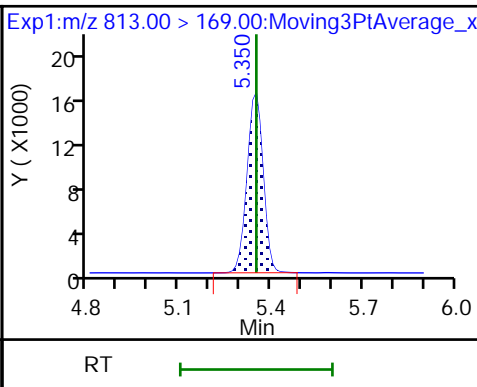
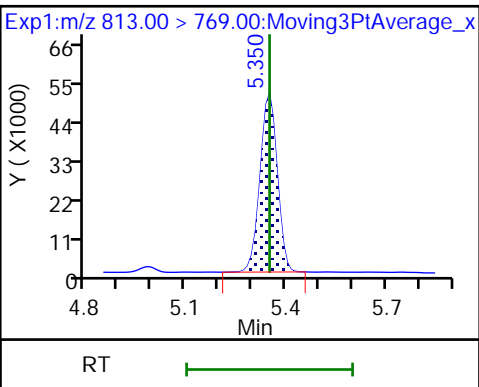
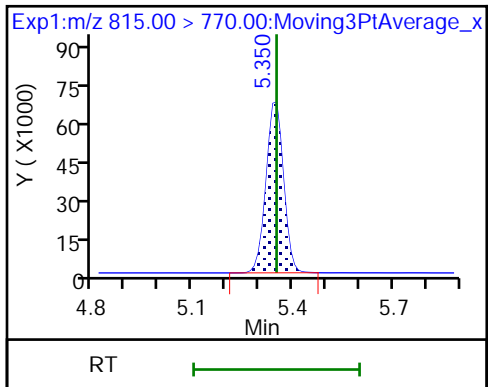
42 Perfluorotetradecanoic acid (M)



D 44 13C2 PFHxDA

45 Perfluorohexadecanoic acid

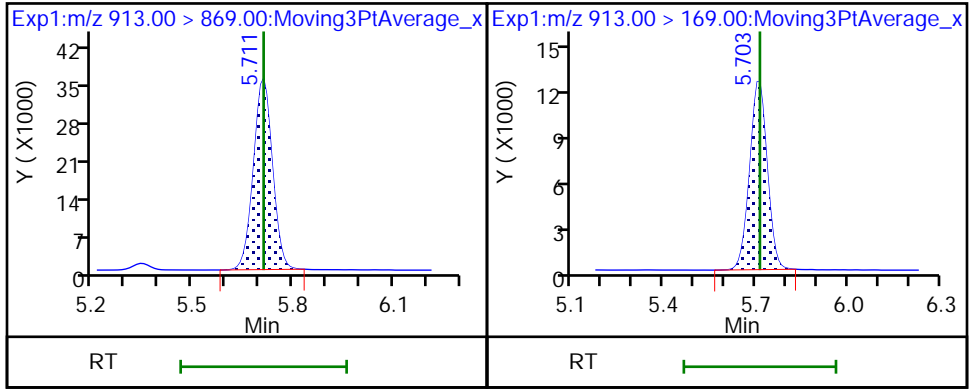
45 Perfluorohexadecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

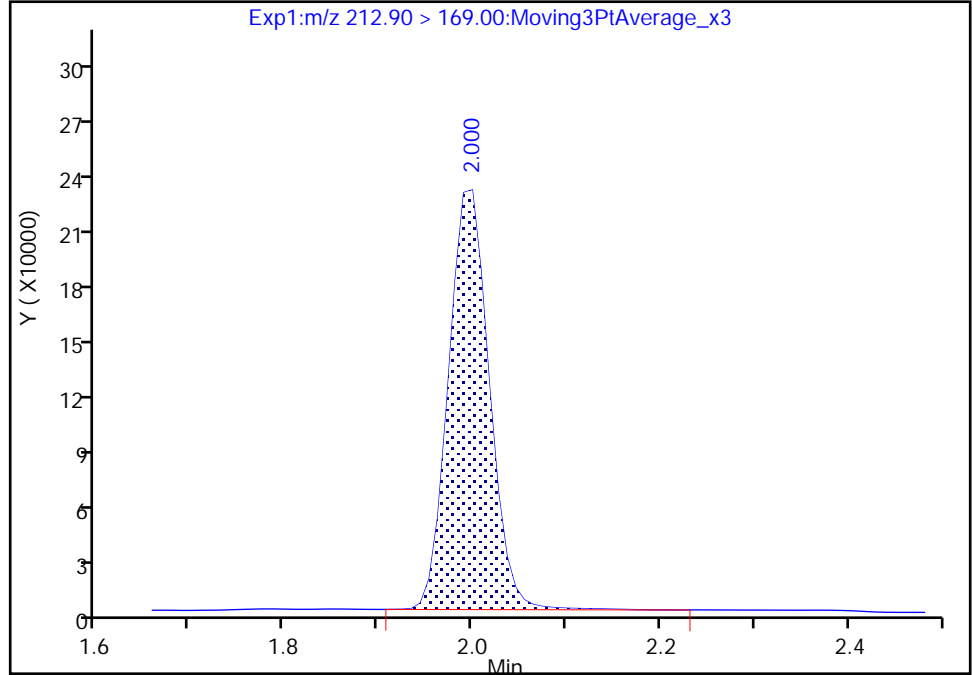
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

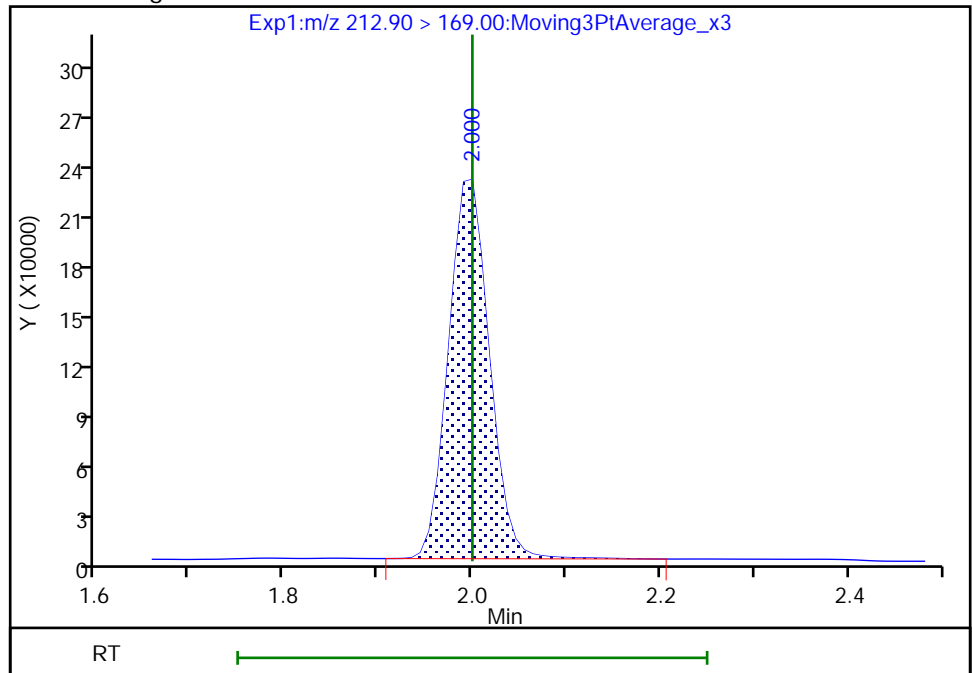
RT: 2.00  
Area: 673622  
Amount: 0.950552  
Amount Units: ng/ml

Processing Integration Results



RT: 2.00  
Area: 673548  
Amount: 0.950448  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

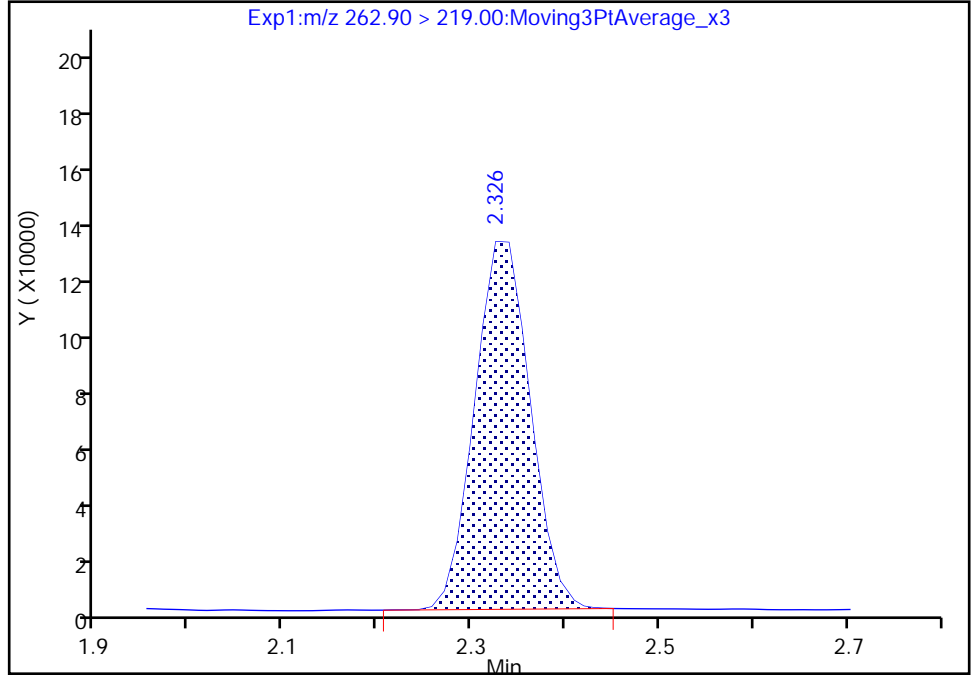
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

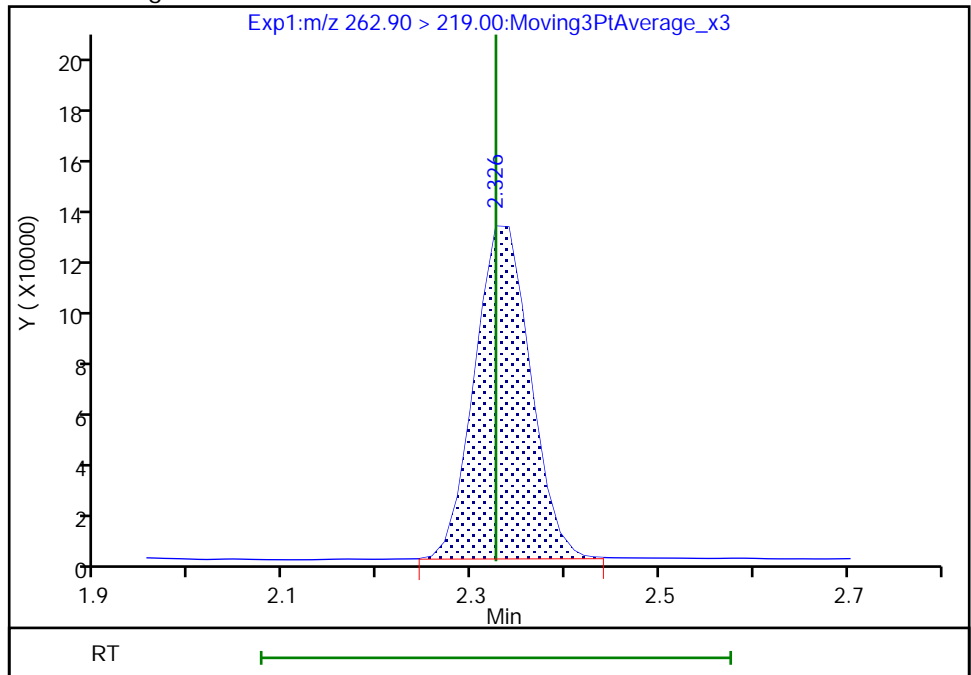
RT: 2.33  
Area: 537361  
Amount: 0.941325  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 539497  
Amount: 0.945067  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:32:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

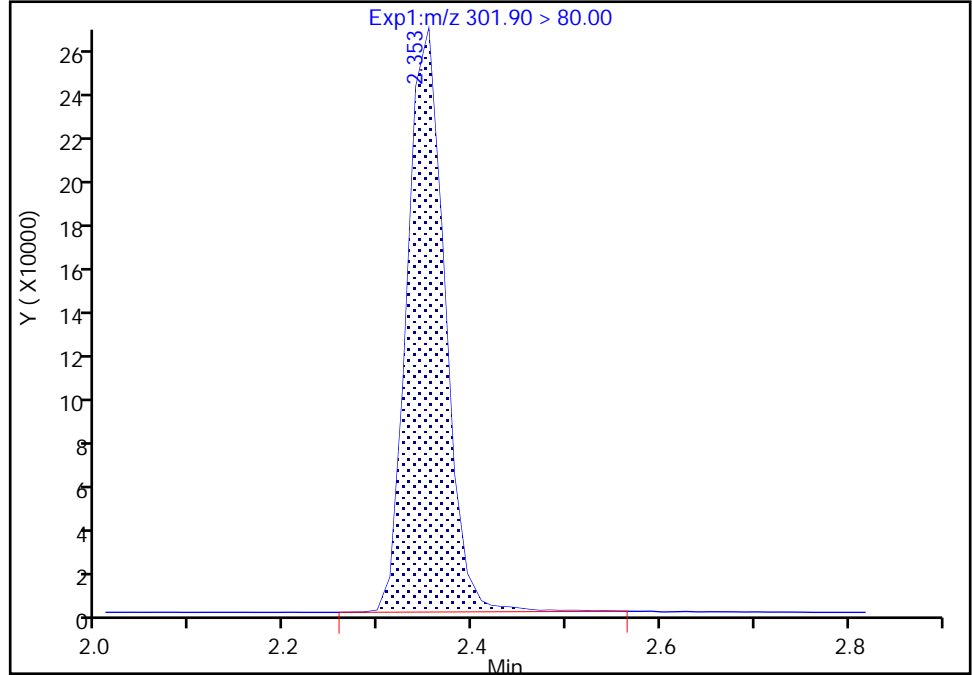
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 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 47 13C3 PFBS, CAS: STL02337**  
Signal: 1

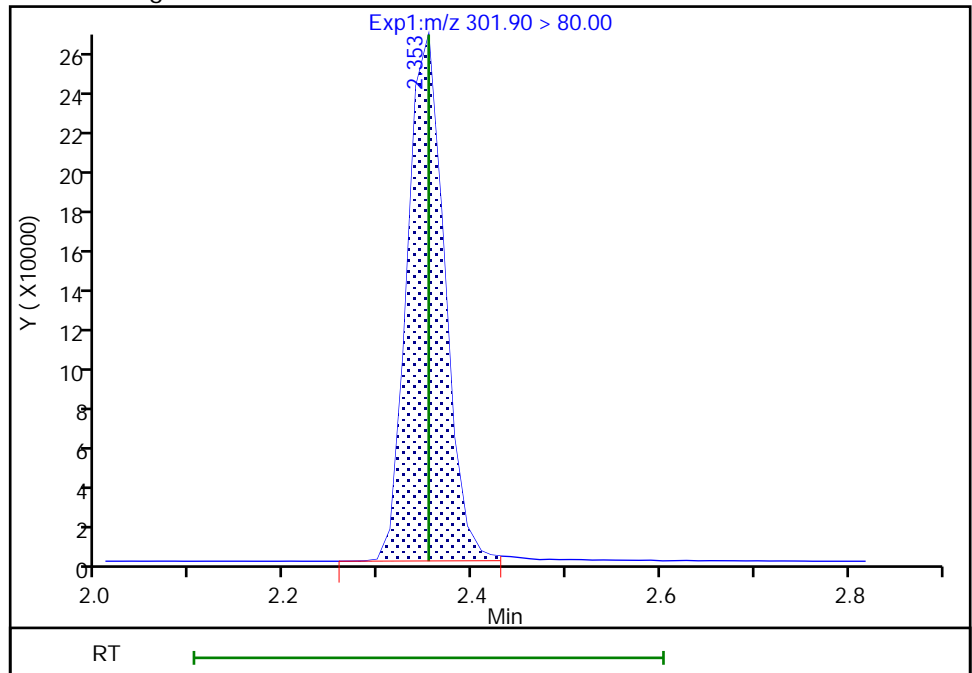
RT: 2.35  
Area: 743699  
Amount: 1.165532  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 738280  
Amount: 1.157039  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:31:18  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

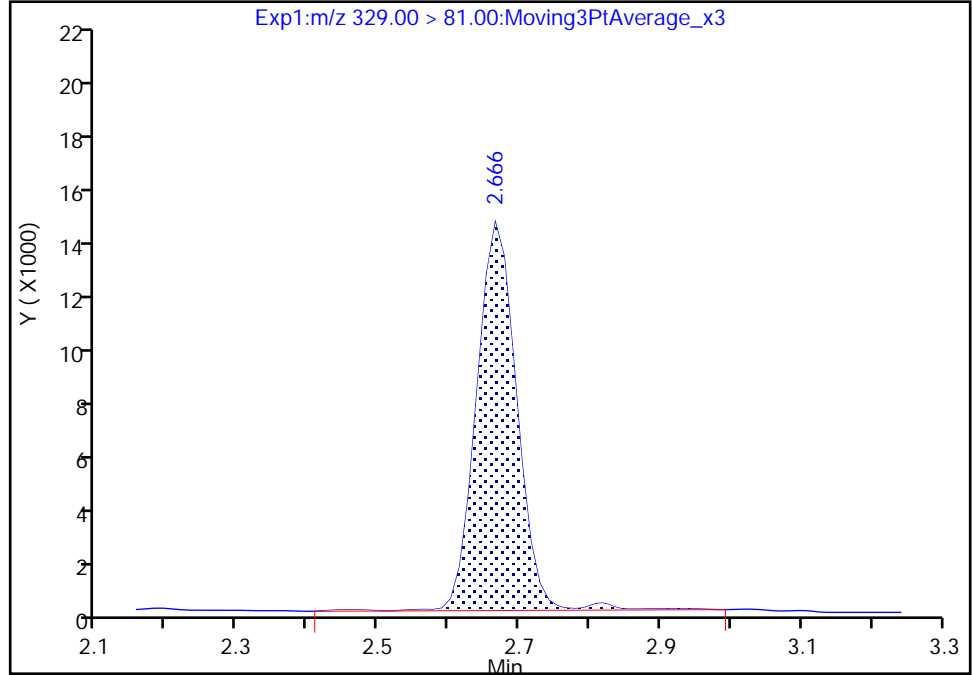
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

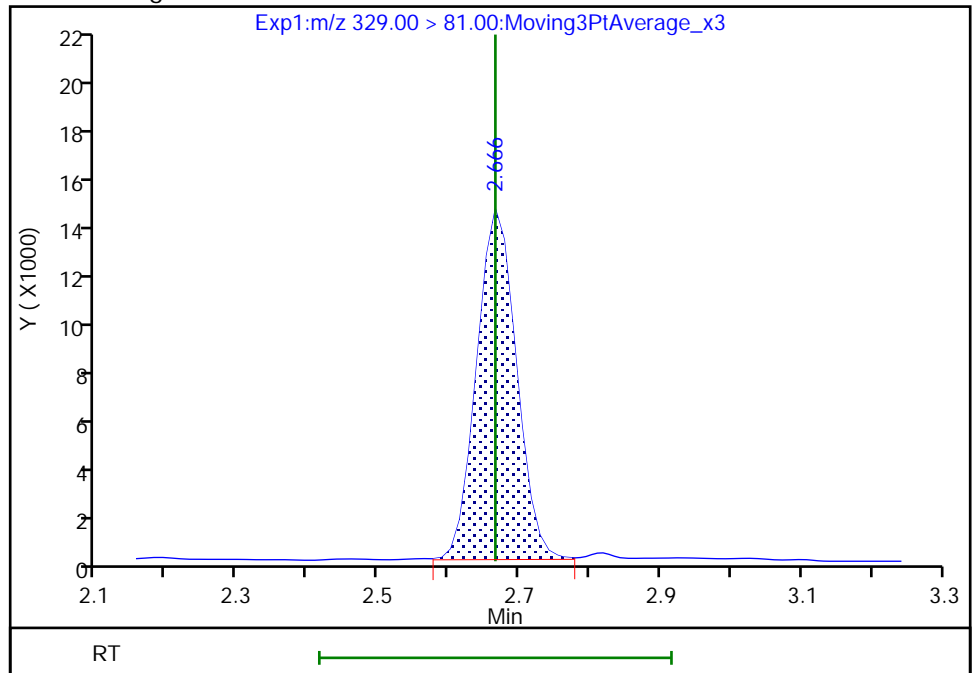
RT: 2.67  
Area: 58320  
Amount: 1.216802  
Amount Units: ng/ml

Processing Integration Results



RT: 2.67  
Area: 57123  
Amount: 1.191828  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:31:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

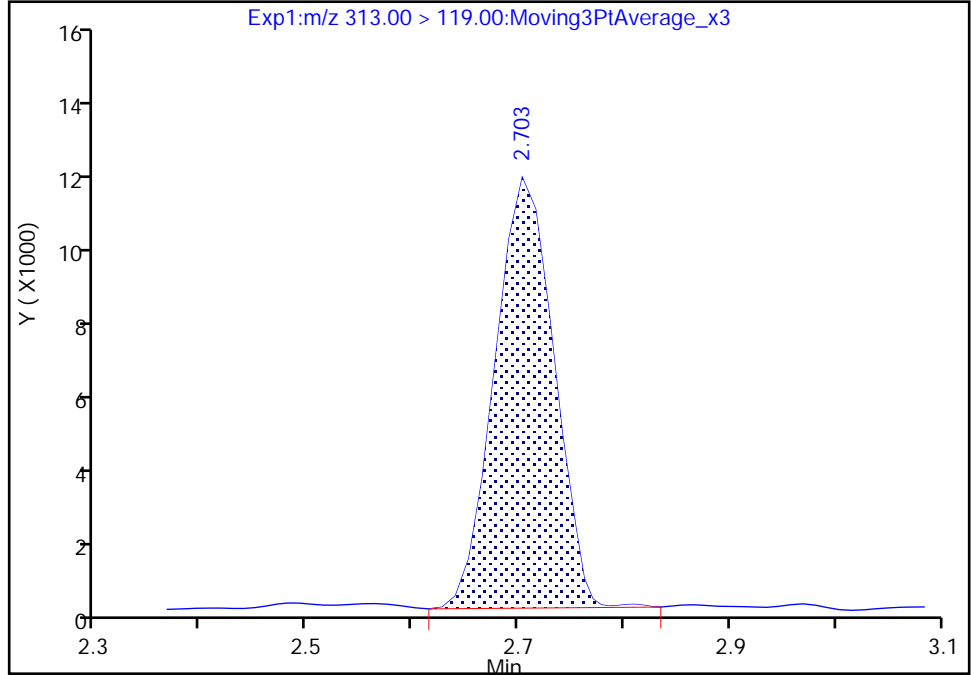
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

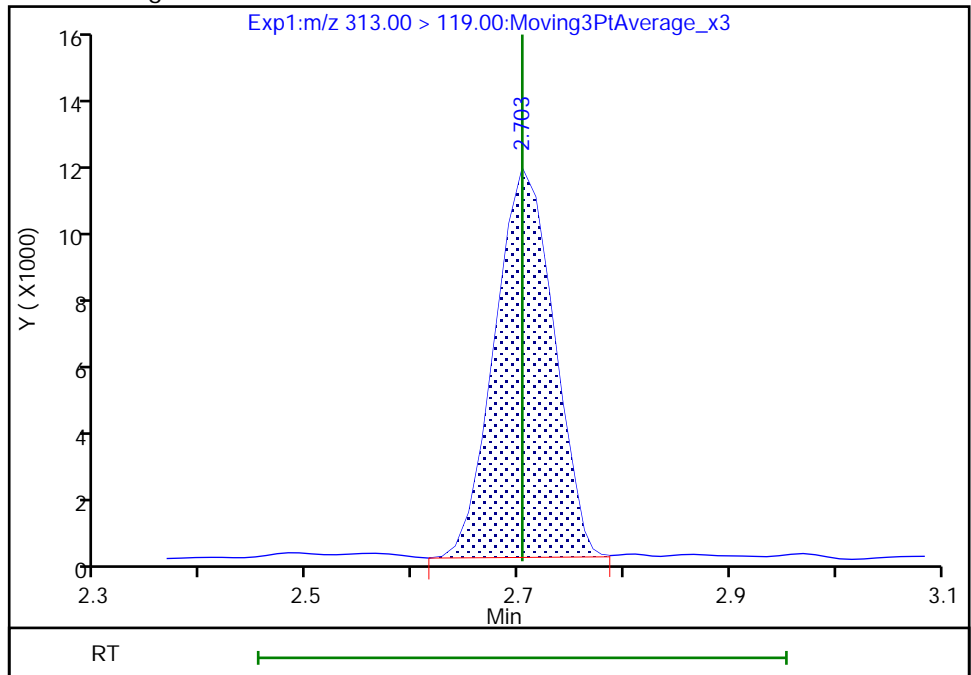
RT: 2.70  
Area: 45247  
Amount: 0.950920  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 45120  
Amount: 0.950920  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:32:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

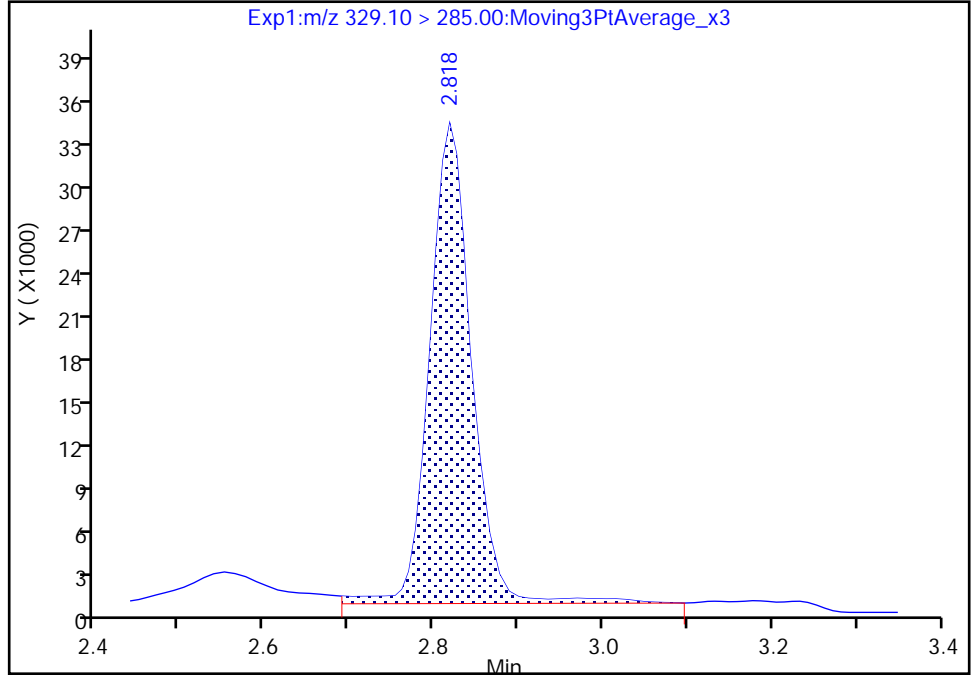
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

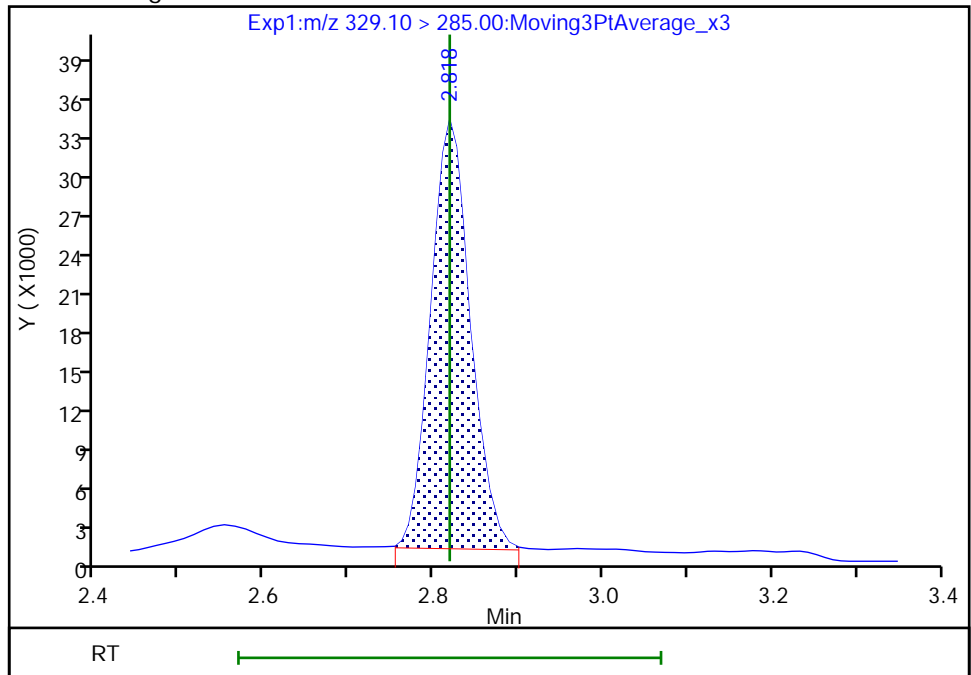
RT: 2.82  
Area: 114319  
Amount: 0.901481  
Amount Units: ng/ml

Processing Integration Results



RT: 2.82  
Area: 106737  
Amount: 0.841691  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:32:49  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

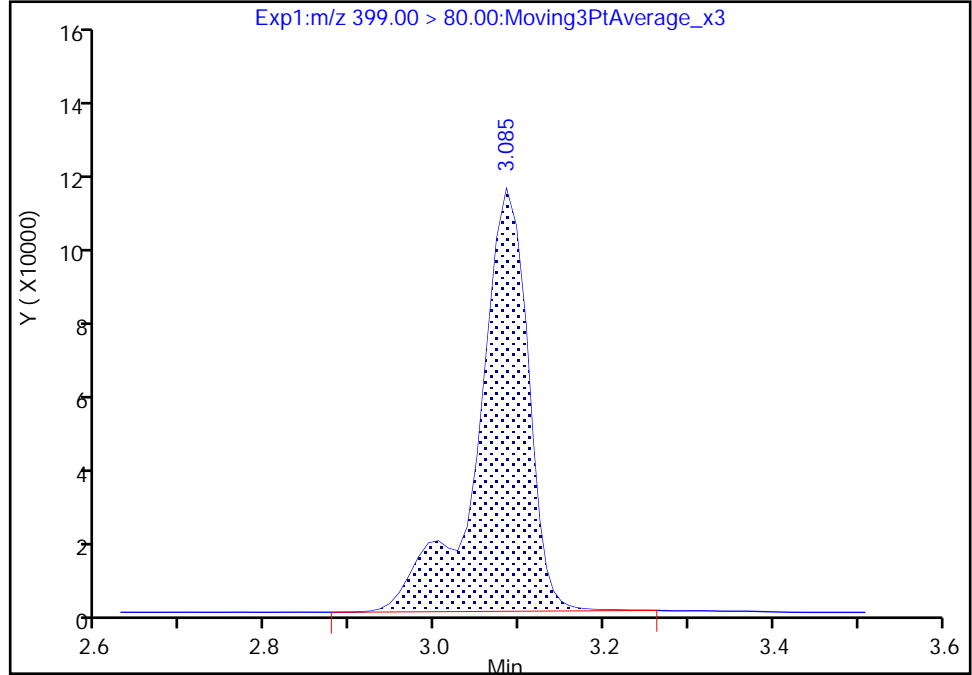
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

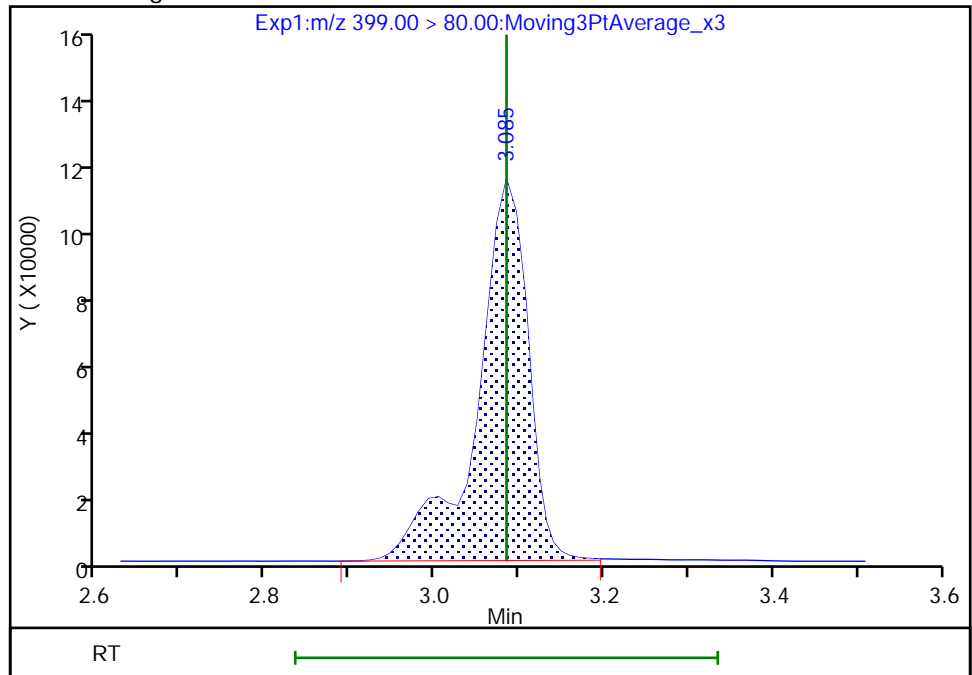
RT: 3.08  
Area: 462695  
Amount: 0.889732  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 463317  
Amount: 0.890928  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:33:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

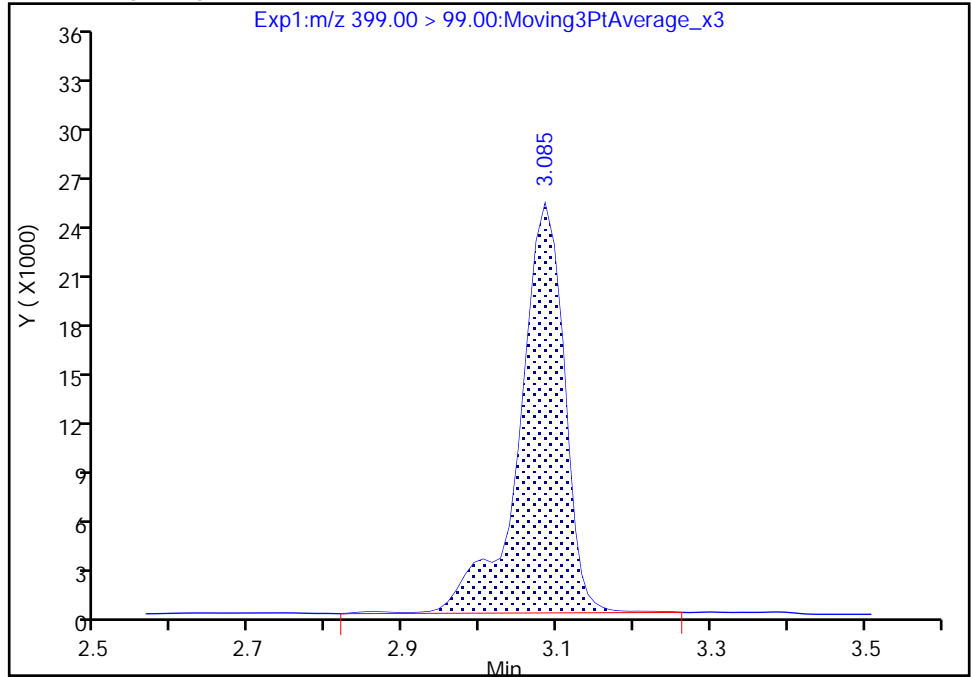
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

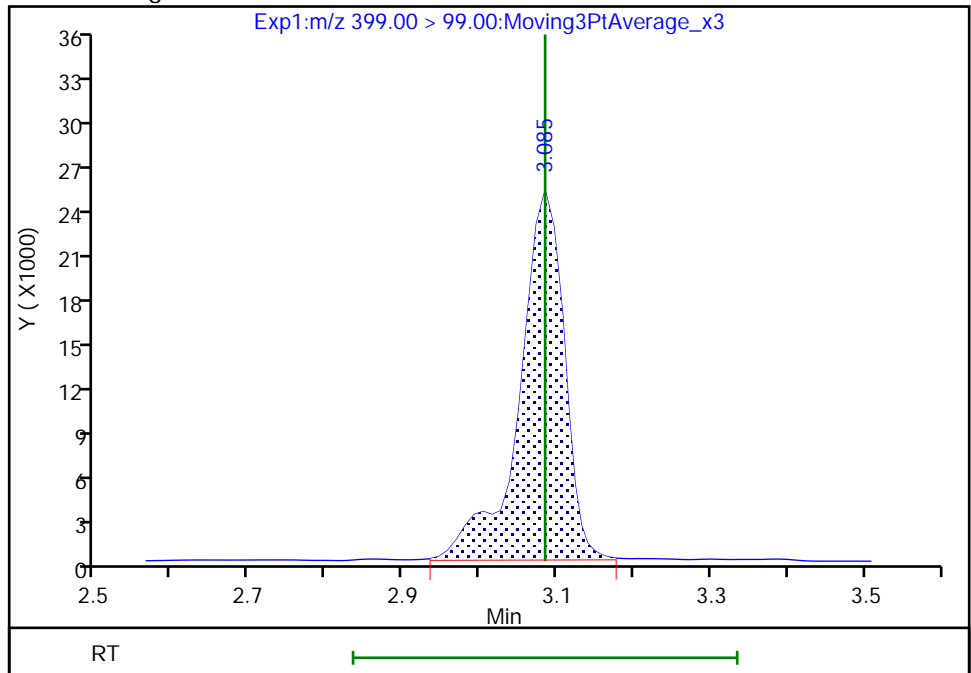
RT: 3.08  
Area: 101399  
Amount: 0.889732  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 100798  
Amount: 0.890928  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:33:31

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

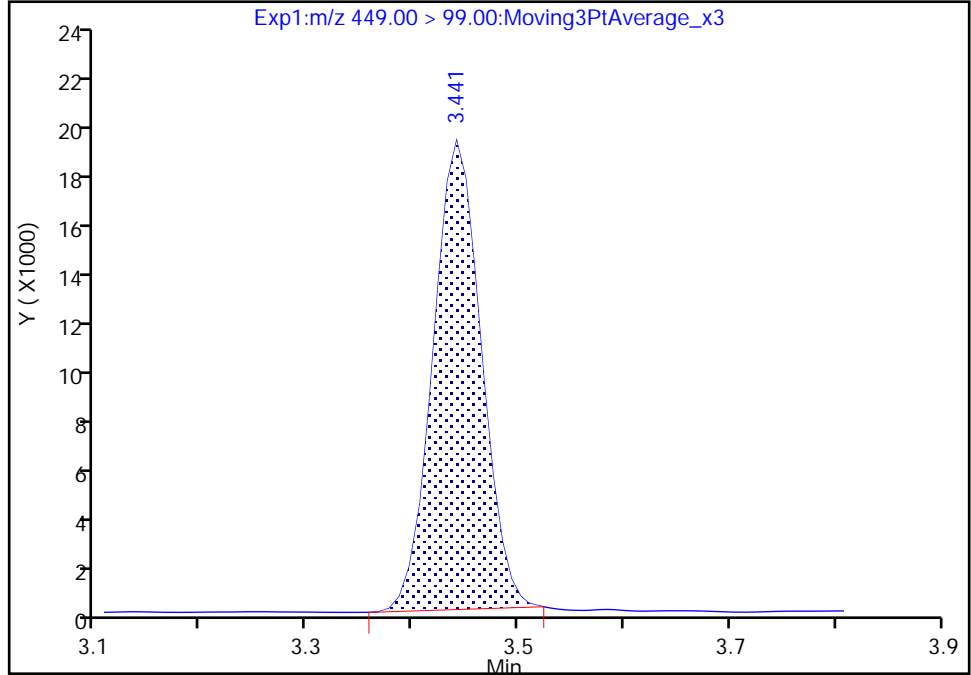
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

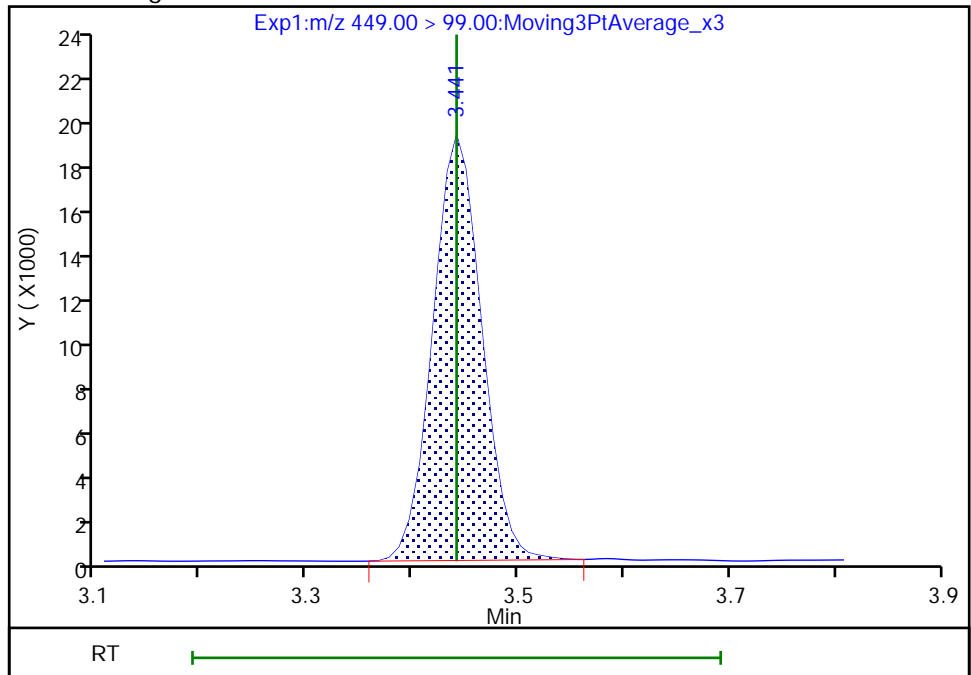
RT: 3.44  
Area: 59033  
Amount: 0.921667  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 59930  
Amount: 0.923943  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:33:49  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

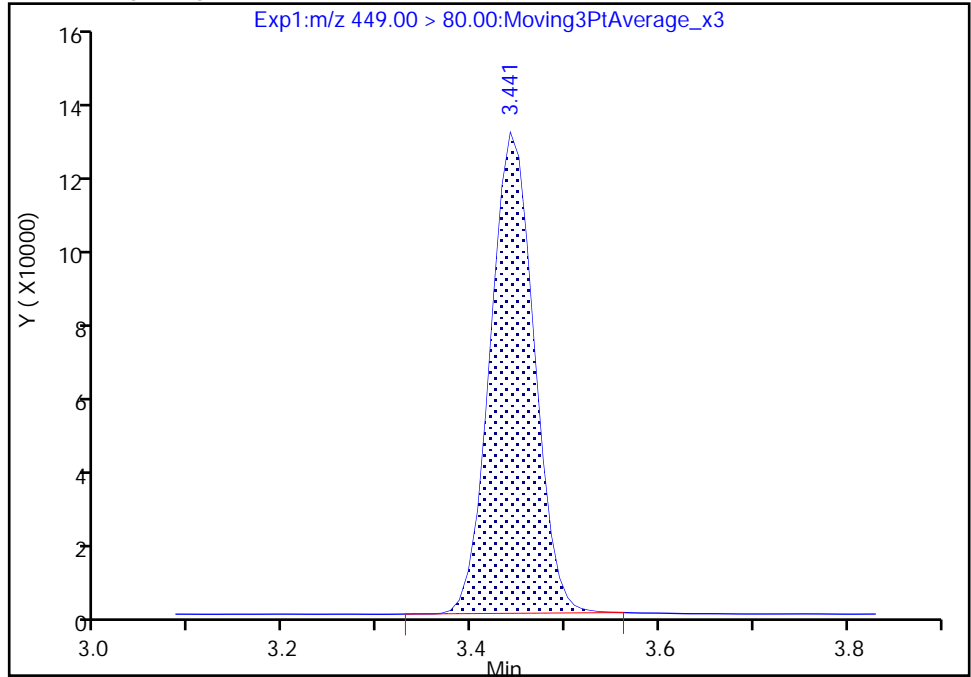
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

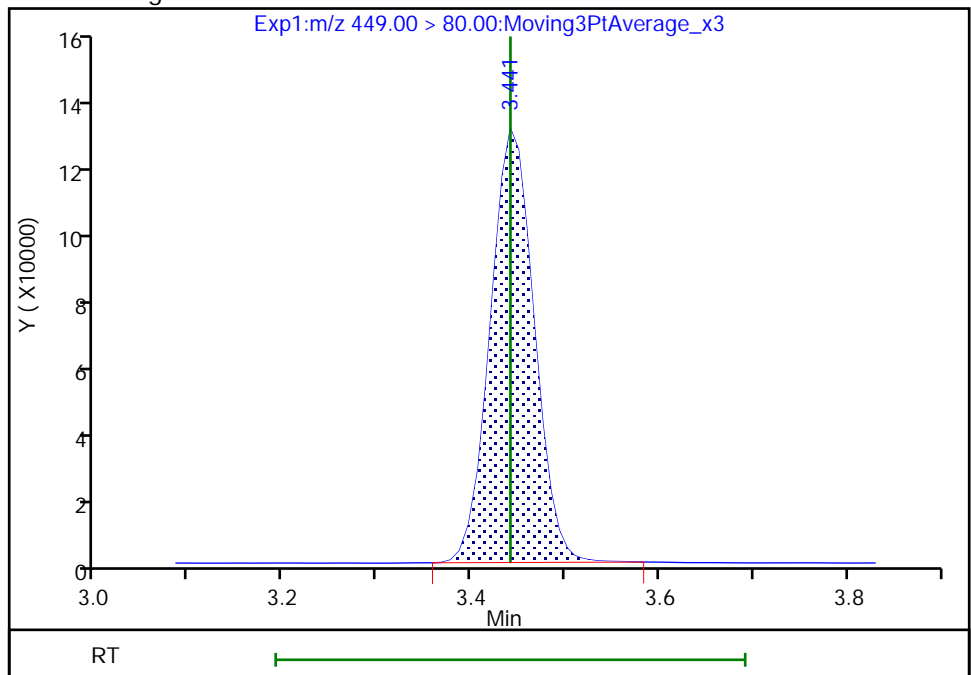
RT: 3.44  
Area: 412662  
Amount: 0.921667  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 413681  
Amount: 0.923943  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:33:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

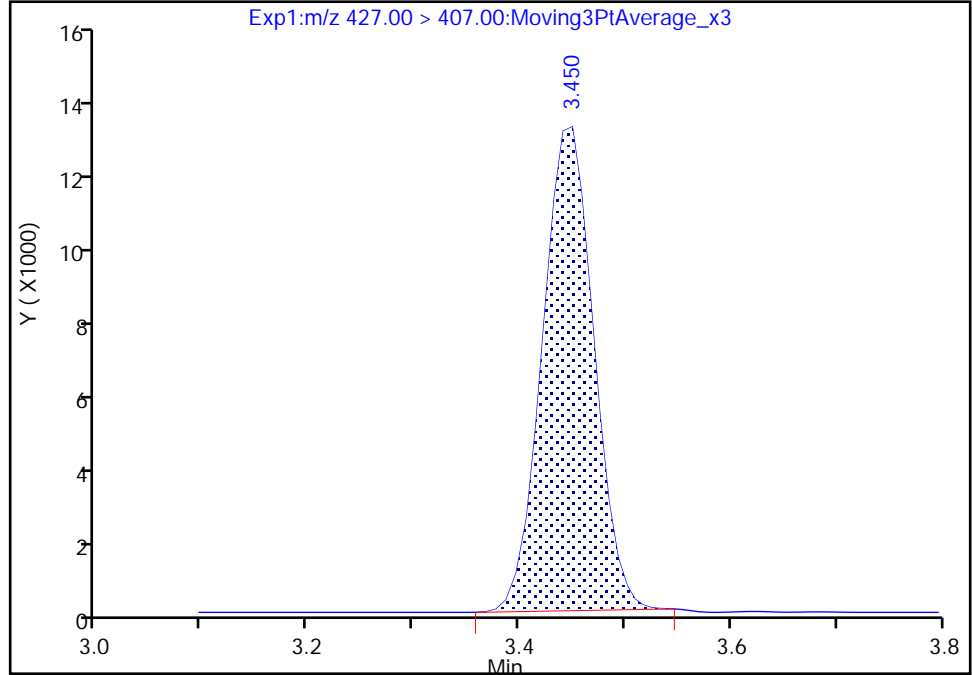
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

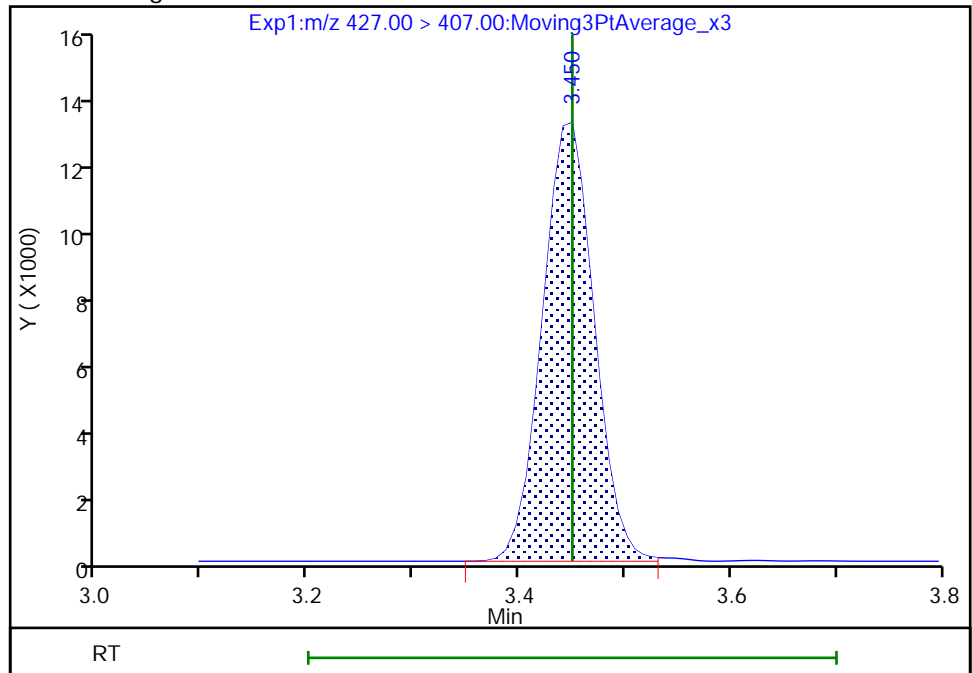
RT: 3.45  
Area: 43451  
Amount: 0.874923  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 43885  
Amount: 0.883662  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:34:11  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

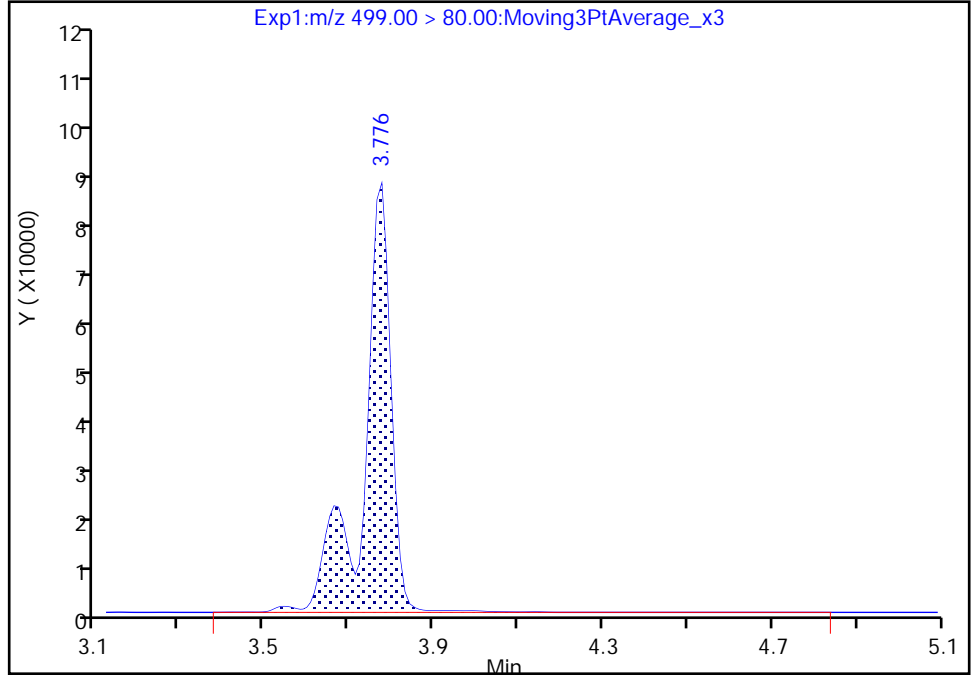
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

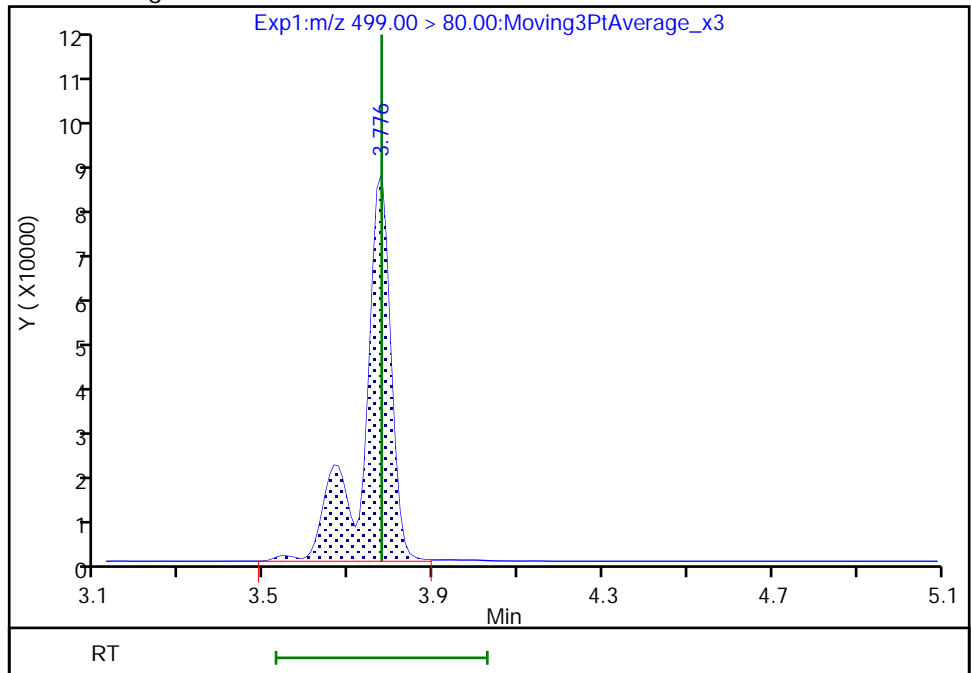
RT: 3.78  
Area: 368321  
Amount: 0.877042  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 365692  
Amount: 0.870782  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:34:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

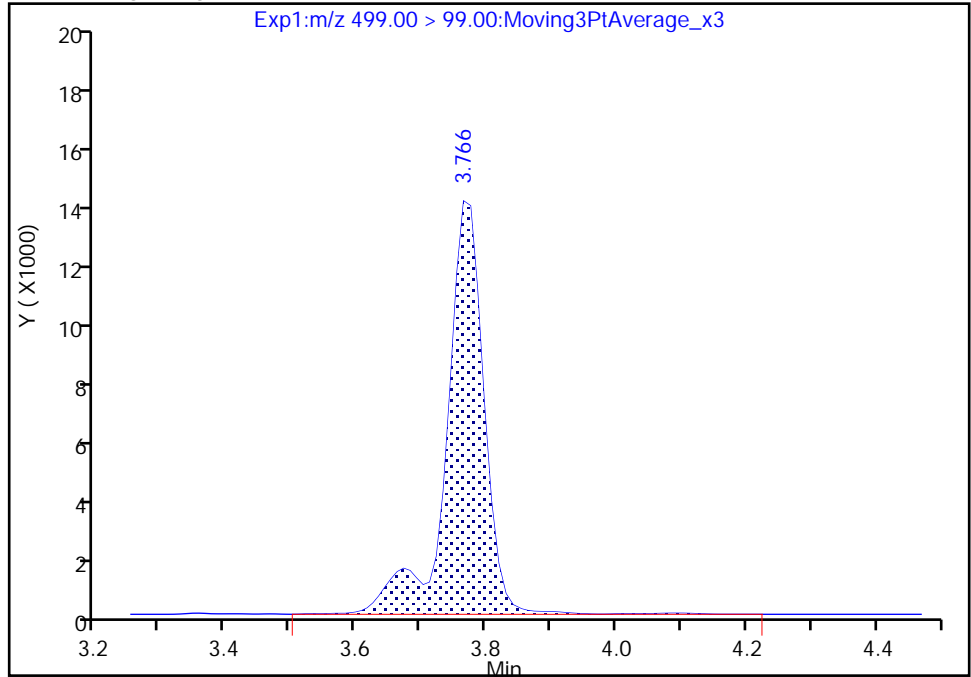
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

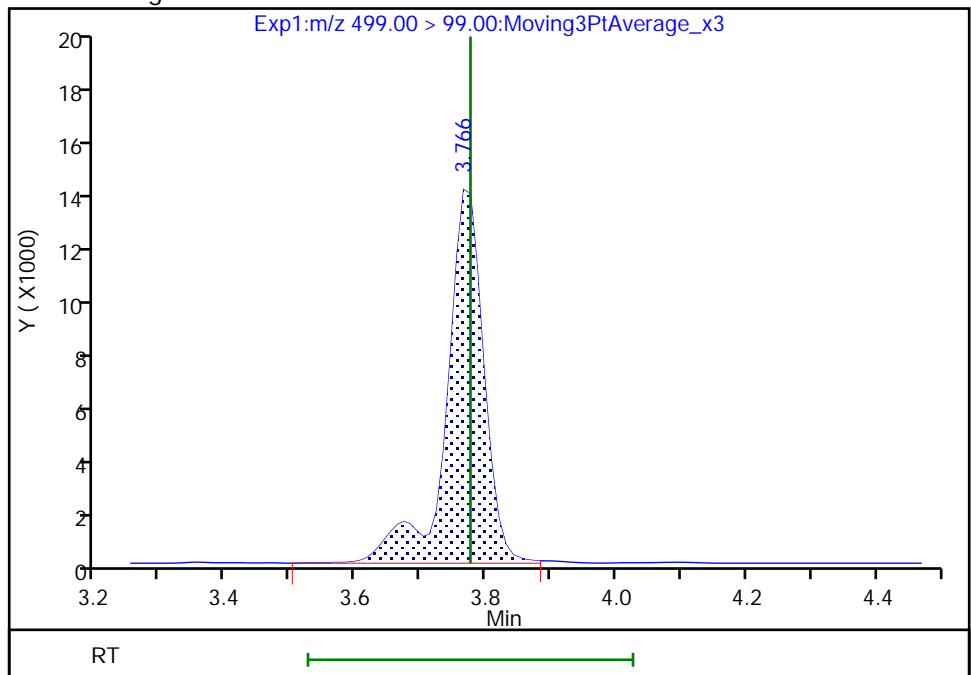
RT: 3.77  
Area: 55093  
Amount: 0.877042  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 54659  
Amount: 0.870782  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:34:47

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

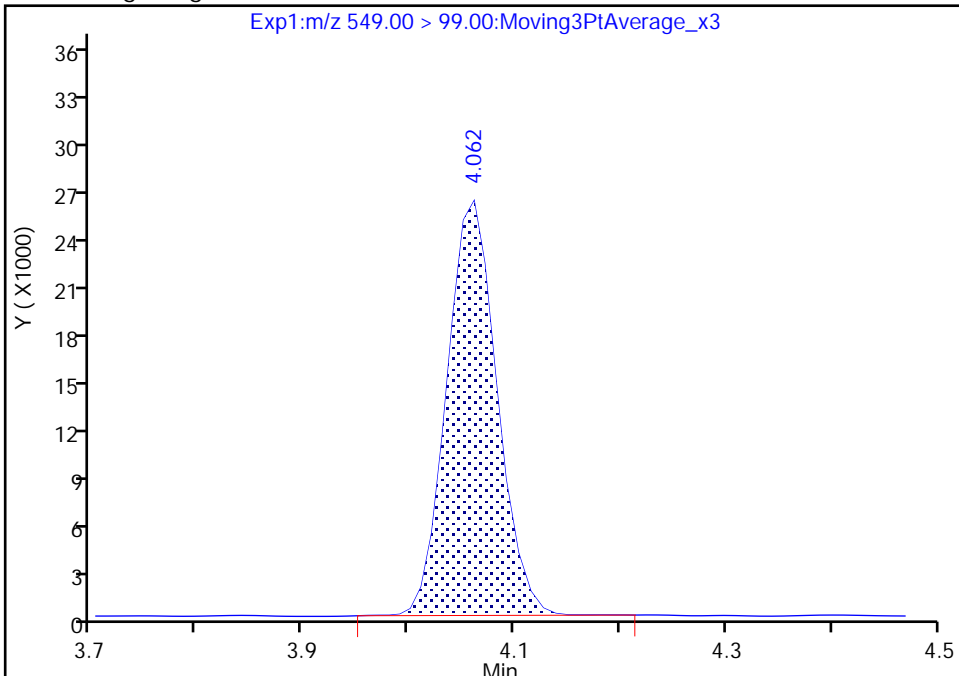
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

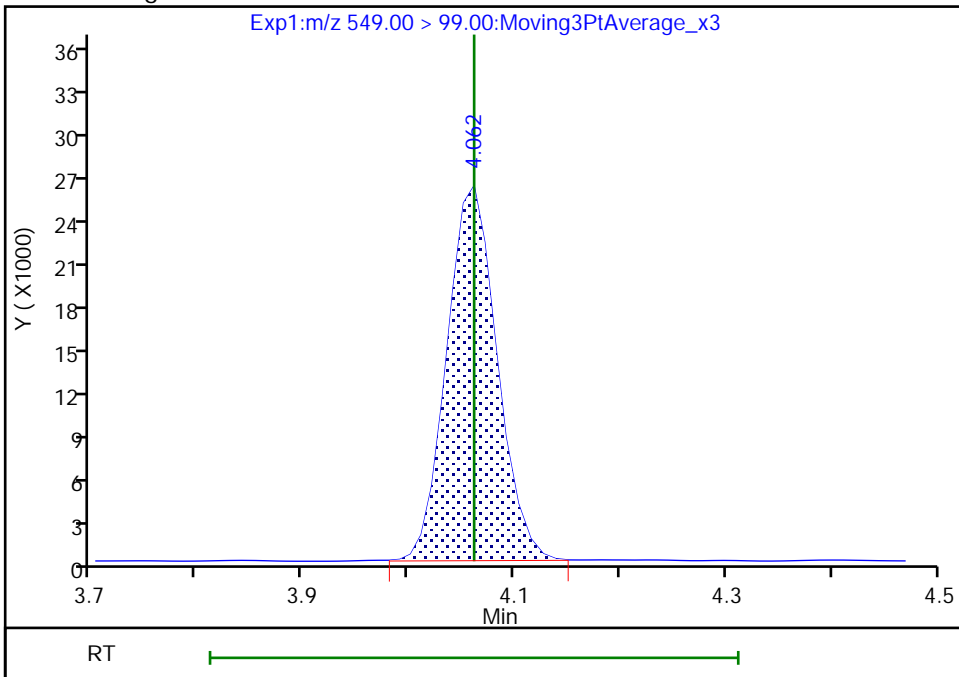
RT: 4.06  
Area: 84979  
Amount: 0.909110  
Amount Units: ng/ml

Processing Integration Results



RT: 4.06  
Area: 85080  
Amount: 0.906817  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:35:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

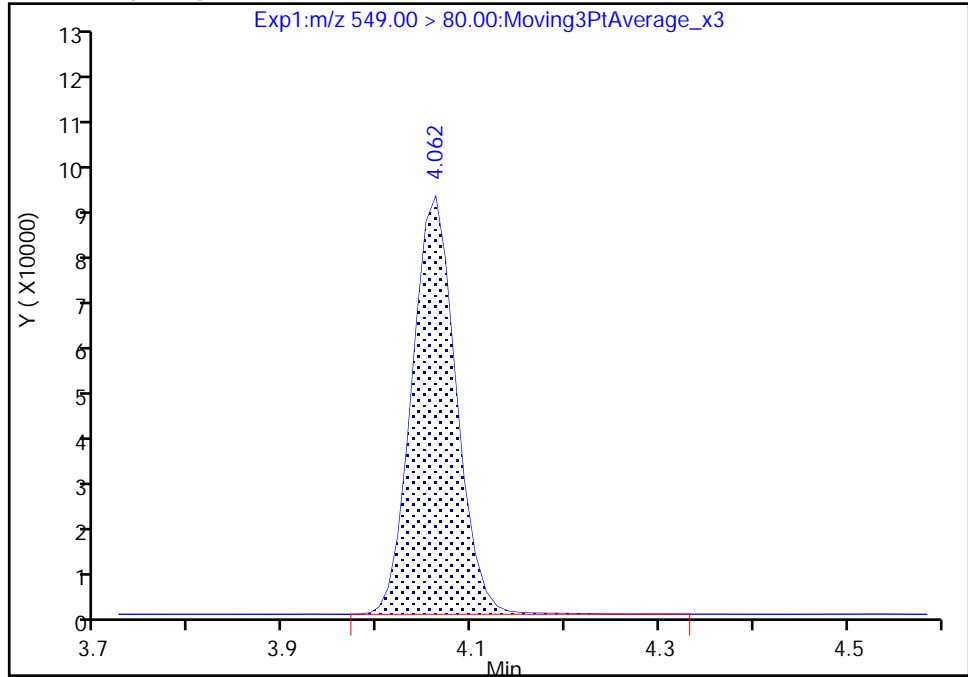
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

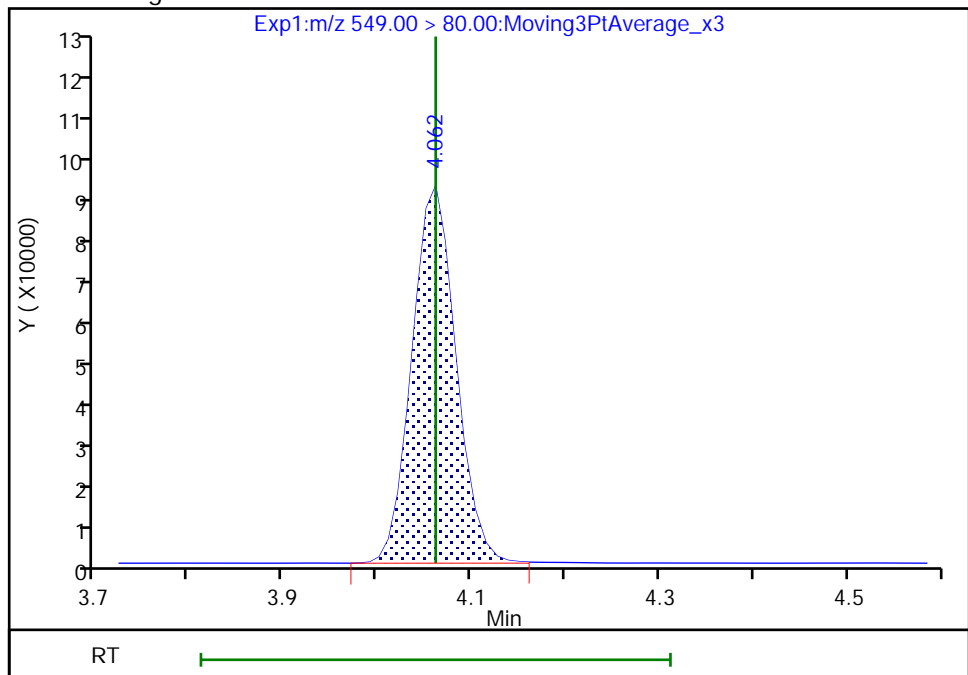
RT: 4.06  
Area: 301723  
Amount: 0.909110  
Amount Units: ng/ml

Processing Integration Results



RT: 4.06  
Area: 300962  
Amount: 0.906817  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:35:22

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

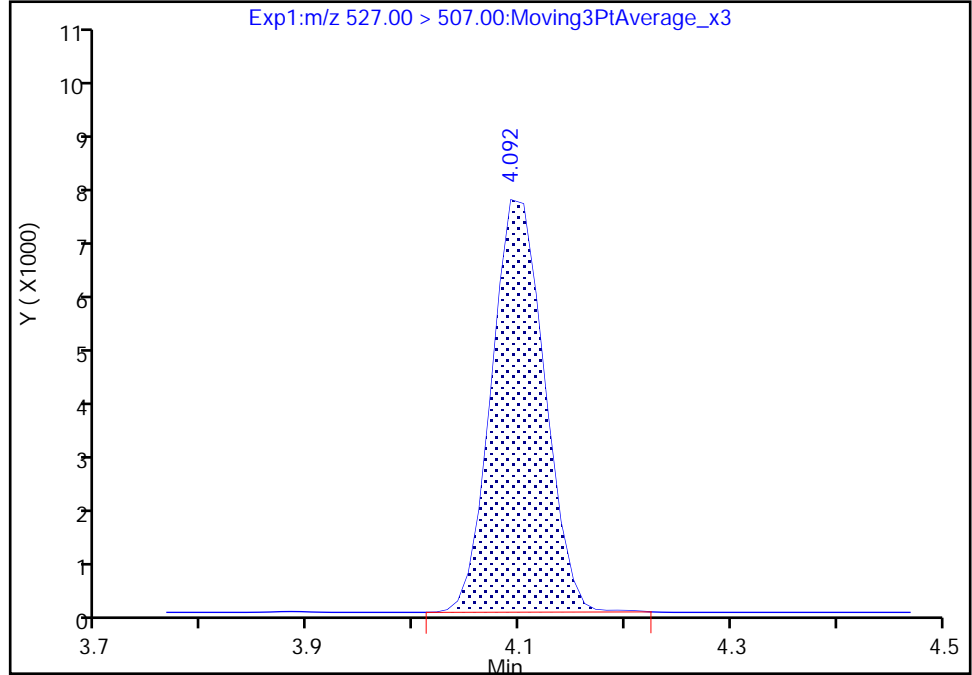
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

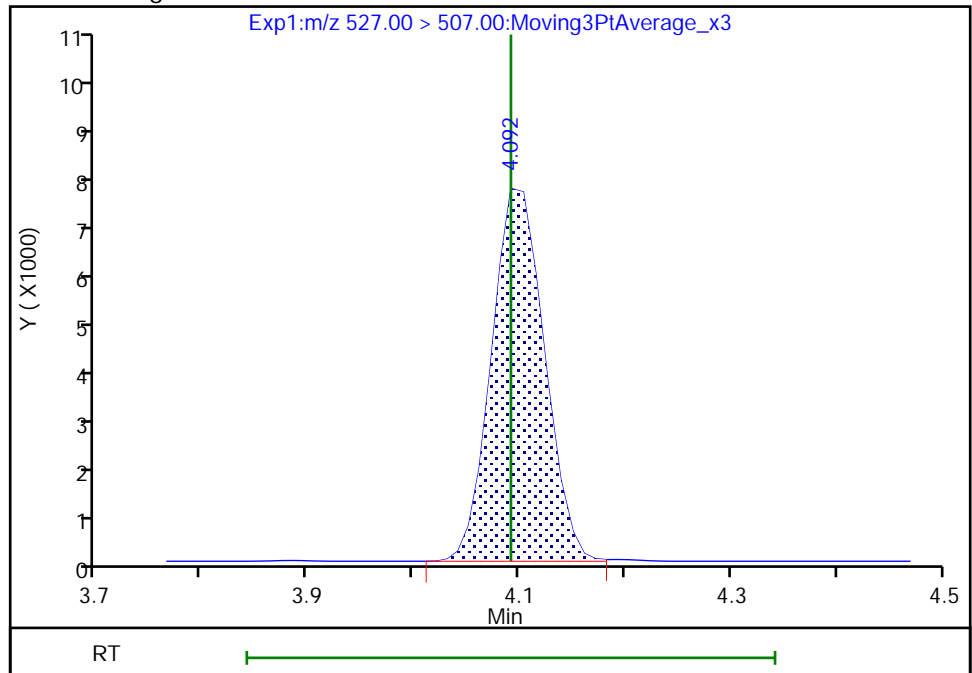
RT: 4.09  
Area: 26777  
Amount: 0.892651  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 26765  
Amount: 0.892251  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:35:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

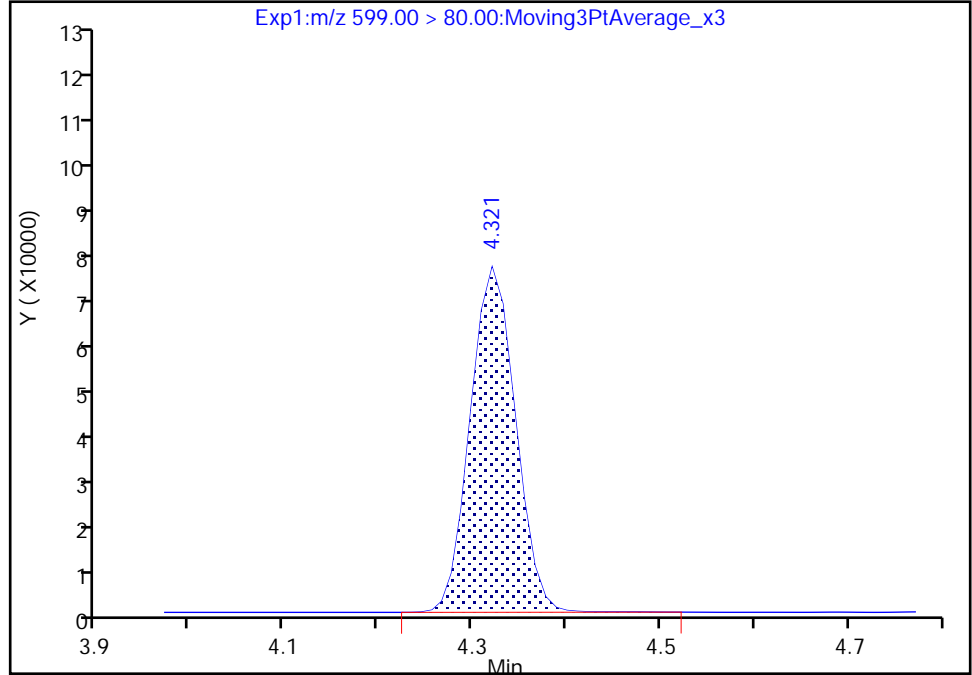
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

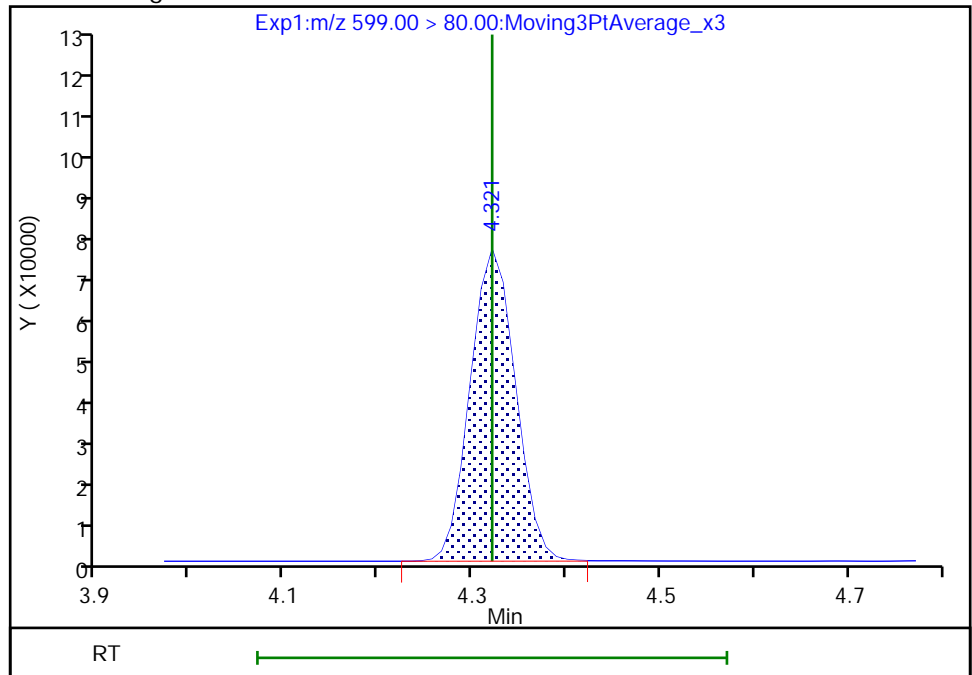
RT: 4.32  
Area: 251463  
Amount: 0.905550  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 251189  
Amount: 0.904563  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:36:01  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

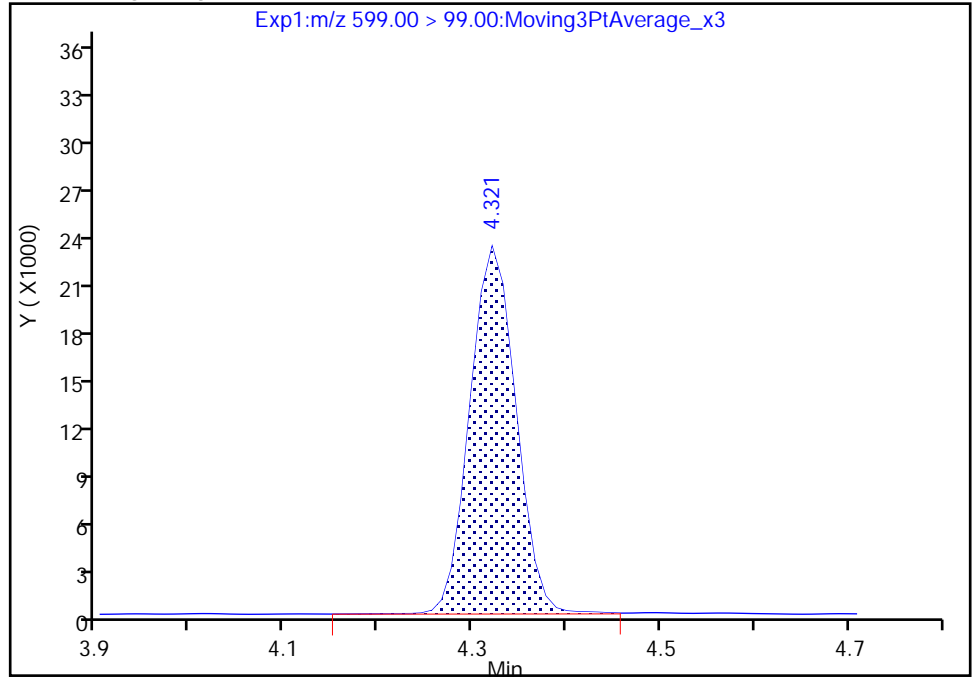
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

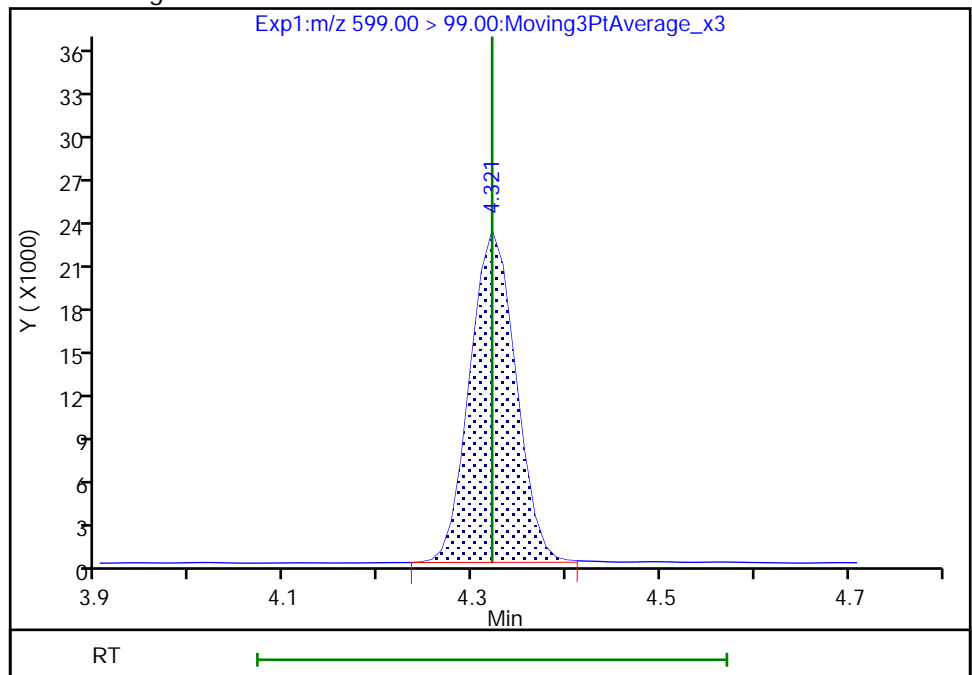
RT: 4.32  
Area: 78245  
Amount: 0.905550  
Amount Units: ng/ml

Processing Integration Results



RT: 4.32  
Area: 77497  
Amount: 0.904563  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:36:03

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

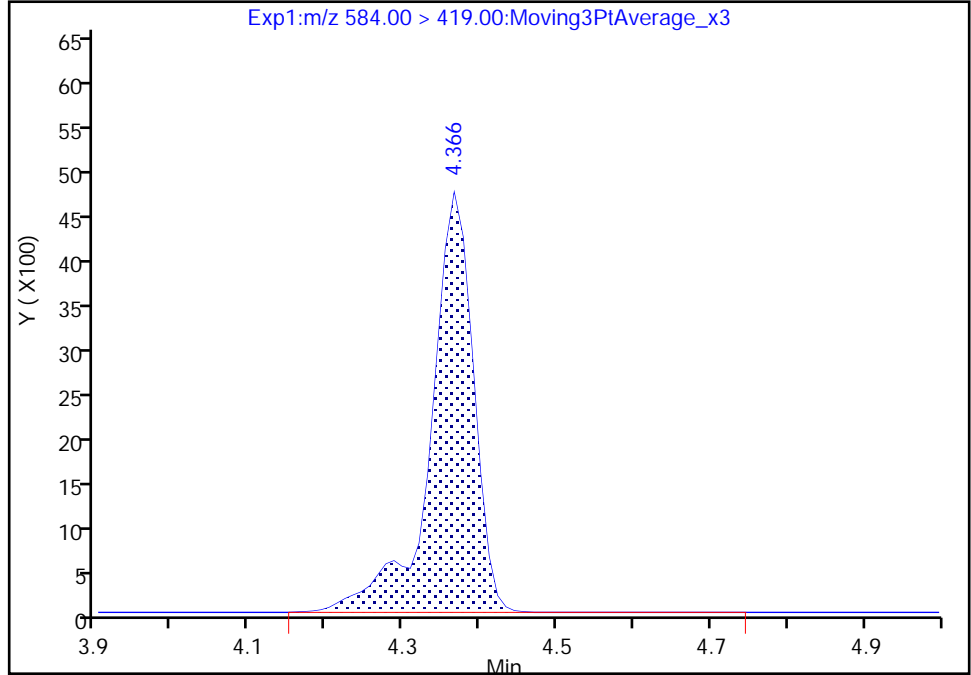
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

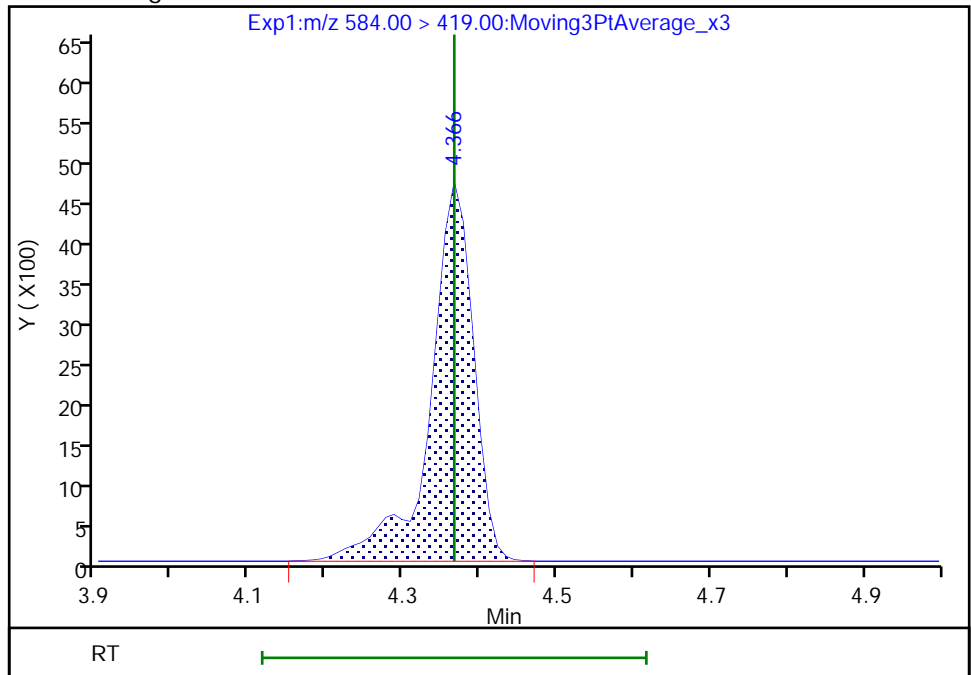
RT: 4.37  
Area: 18498  
Amount: 0.858765  
Amount Units: ng/ml

Processing Integration Results



RT: 4.37  
Area: 18498  
Amount: 0.858765  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:36:14  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

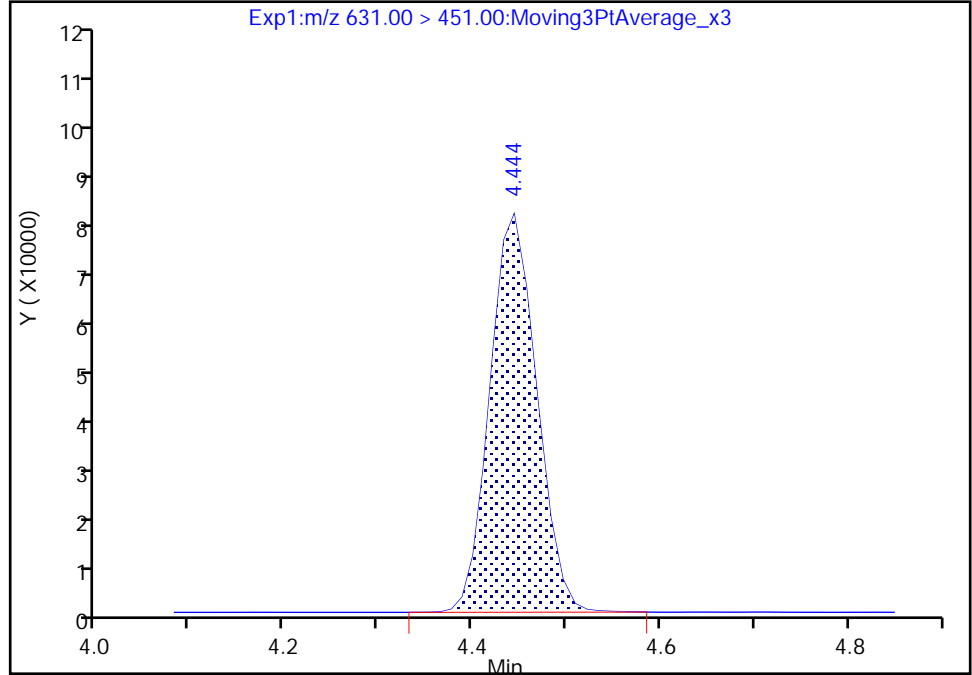
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

66 11-Chloroeicosafuoro-3-oxaundec, CAS: 763051-92-9

Signal: 1

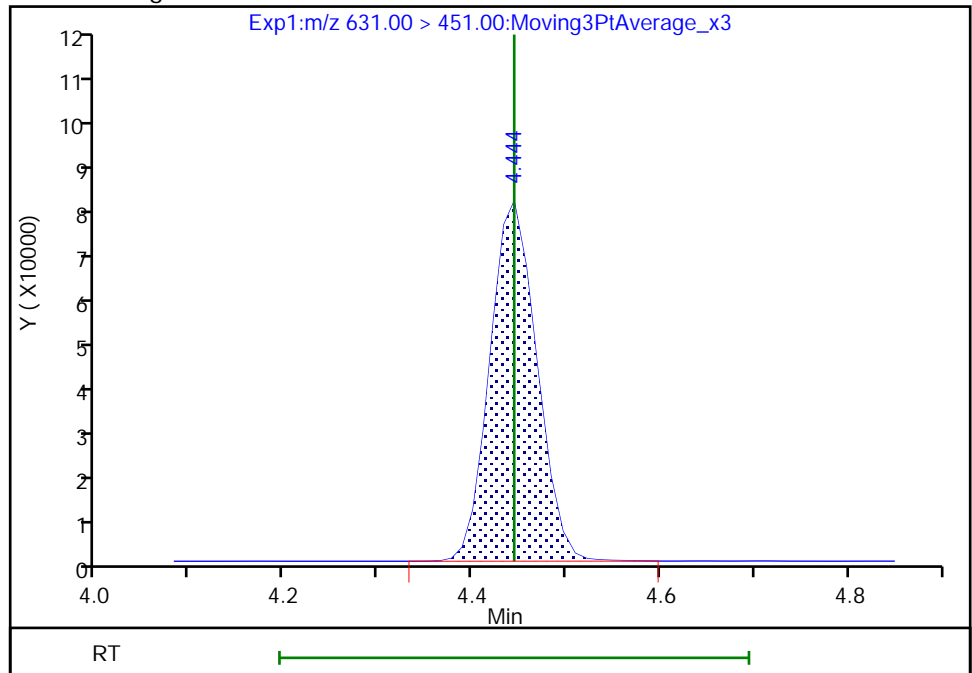
RT: 4.44  
Area: 268839  
Amount: 0.843264  
Amount Units: ng/ml

Processing Integration Results



RT: 4.44  
Area: 269051  
Amount: 0.843929  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:36:21  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

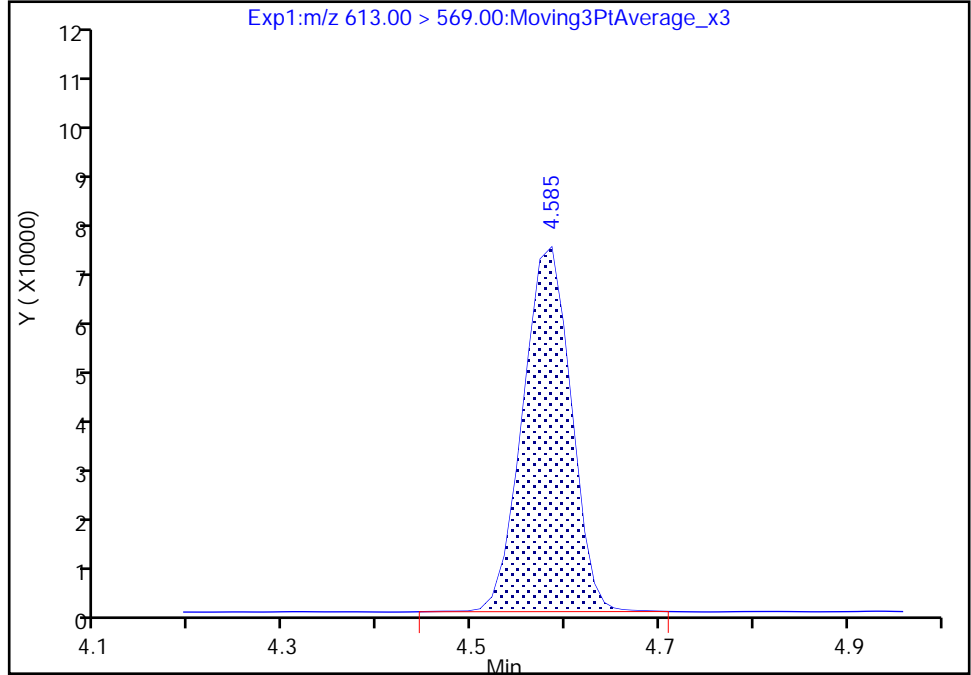
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

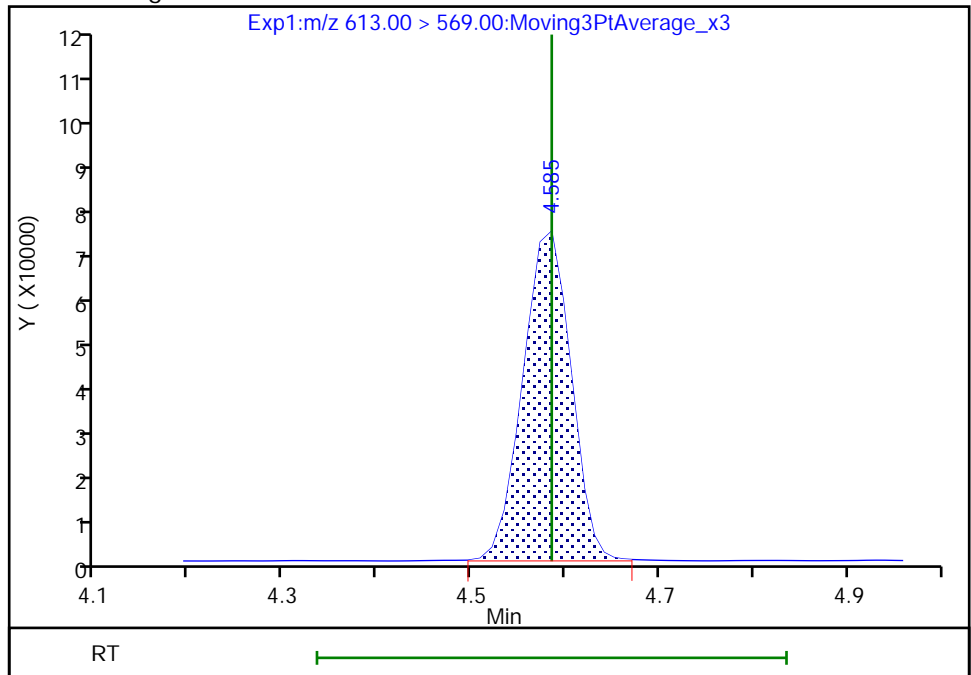
RT: 4.59  
Area: 256377  
Amount: 0.889825  
Amount Units: ng/ml

Processing Integration Results



RT: 4.59  
Area: 256713  
Amount: 0.890992  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:36:42  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

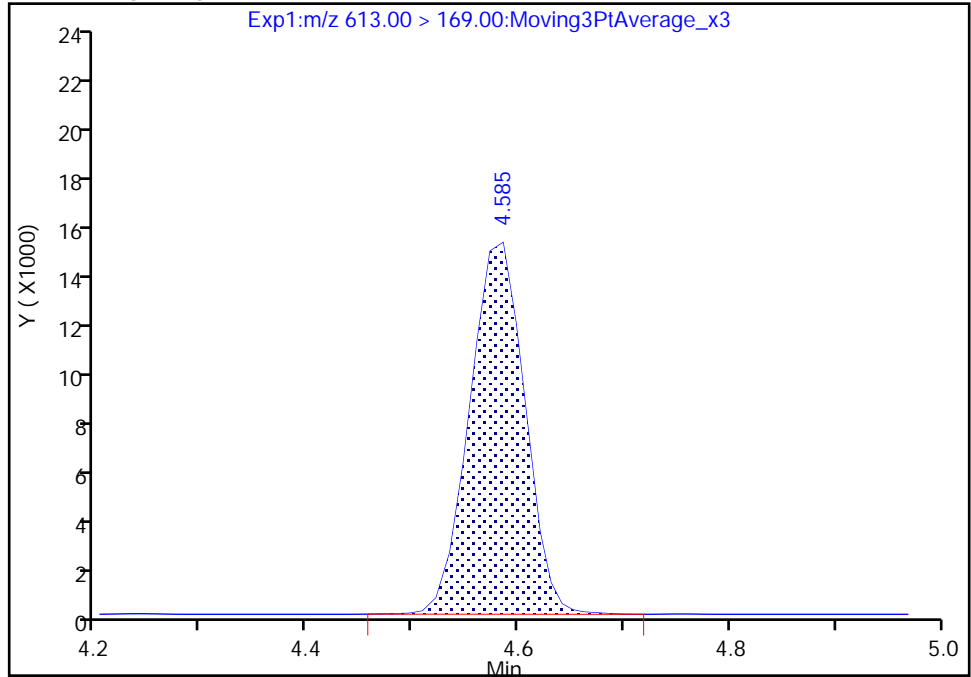
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

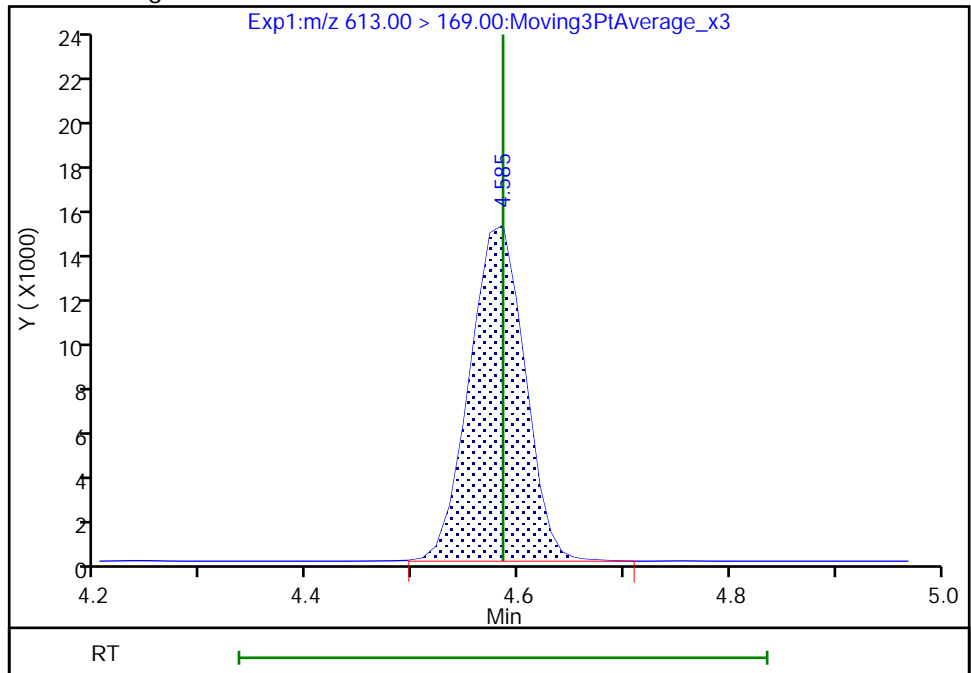
RT: 4.59  
Area: 54211  
Amount: 0.889825  
Amount Units: ng/ml

Processing Integration Results



RT: 4.59  
Area: 54216  
Amount: 0.890992  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:36:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

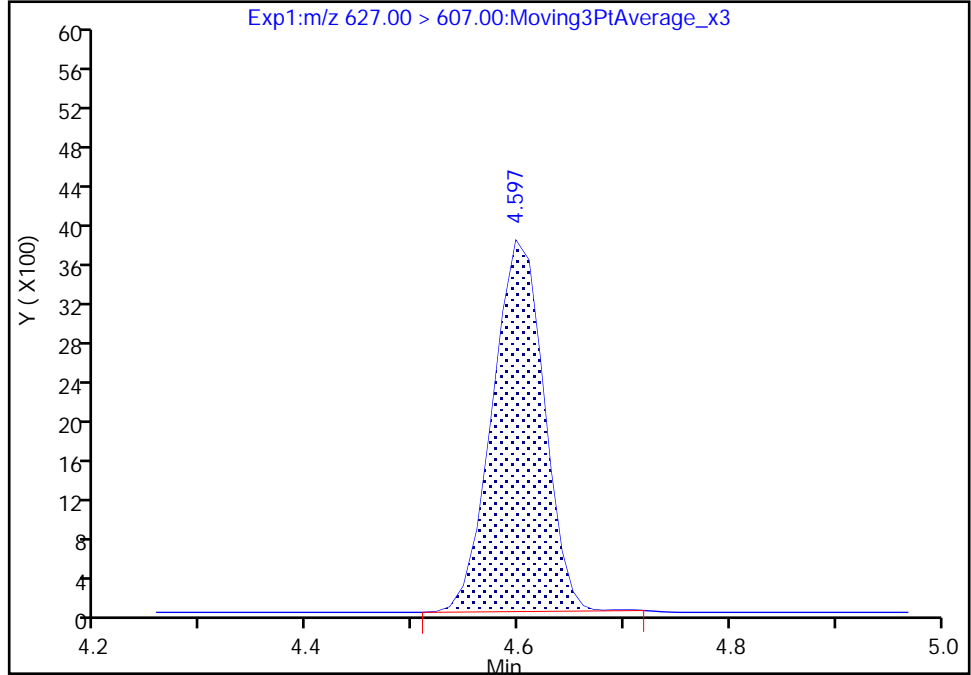
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

74 1H,1H,2H,2H-perfluorododecanesul, CAS: 120226-60-0

Signal: 1

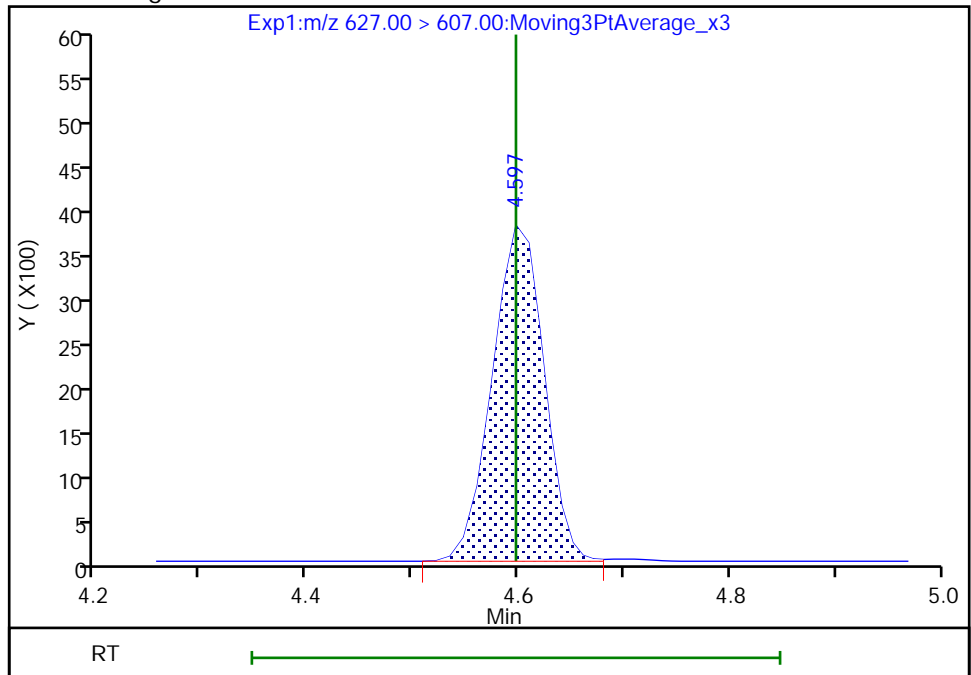
RT: 4.60  
Area: 12820  
Amount: 0.769186  
Amount Units: ng/ml

Processing Integration Results



RT: 4.60  
Area: 12887  
Amount: 0.773206  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:37:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

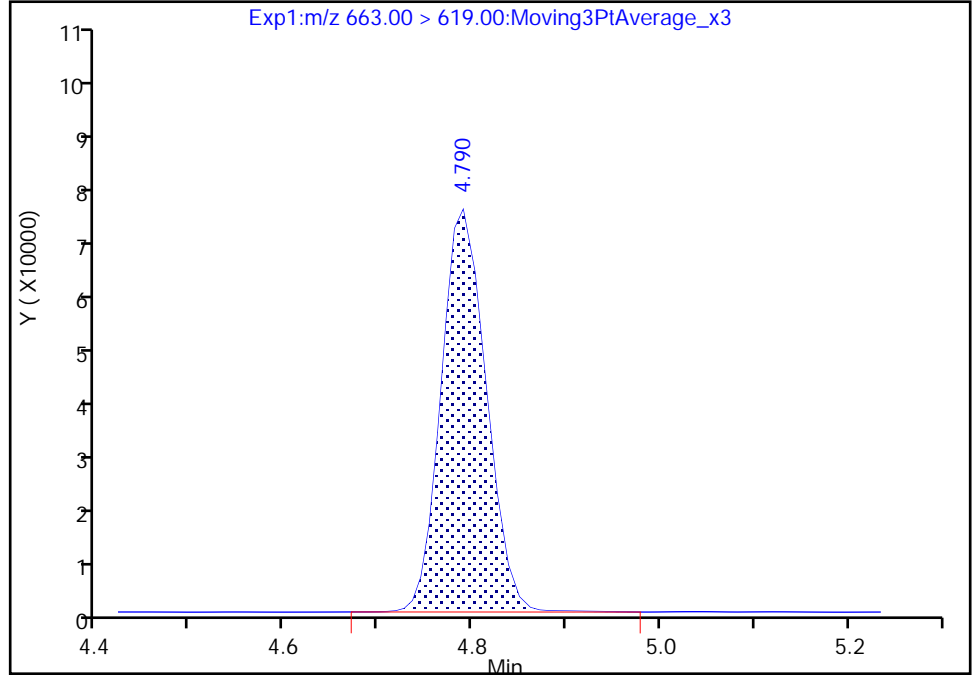
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

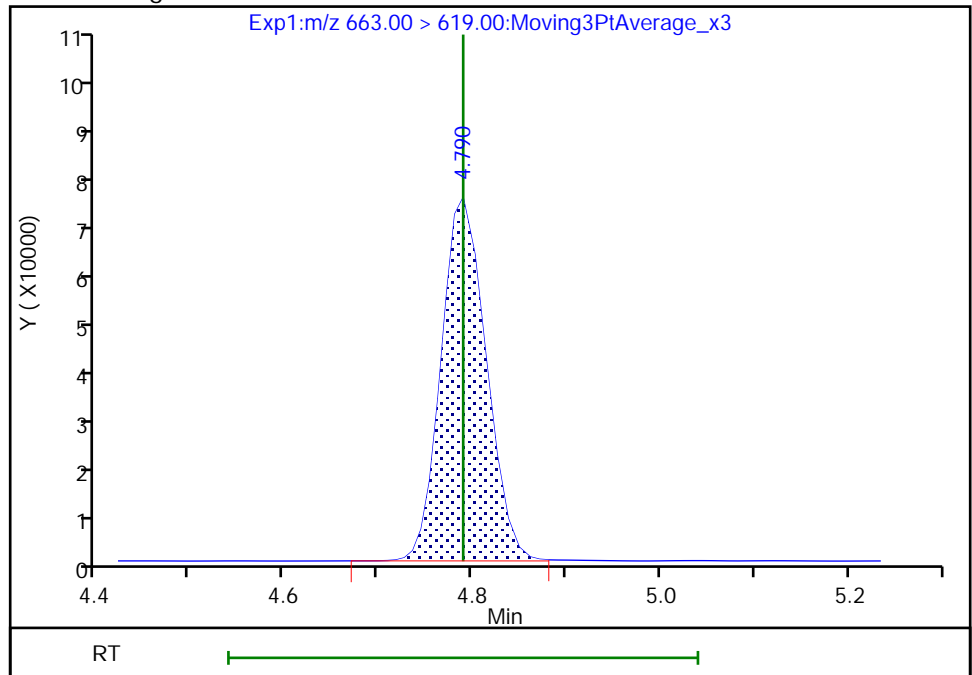
RT: 4.79  
Area: 251684  
Amount: 1.028571  
Amount Units: ng/ml

Processing Integration Results



RT: 4.79  
Area: 251091  
Amount: 1.026148  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:37:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

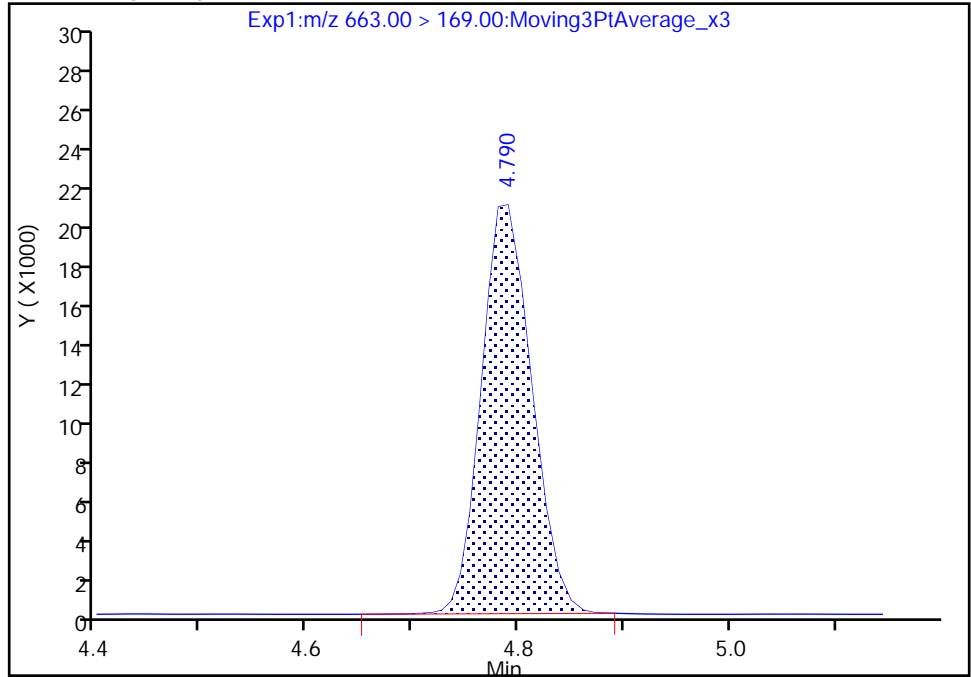
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

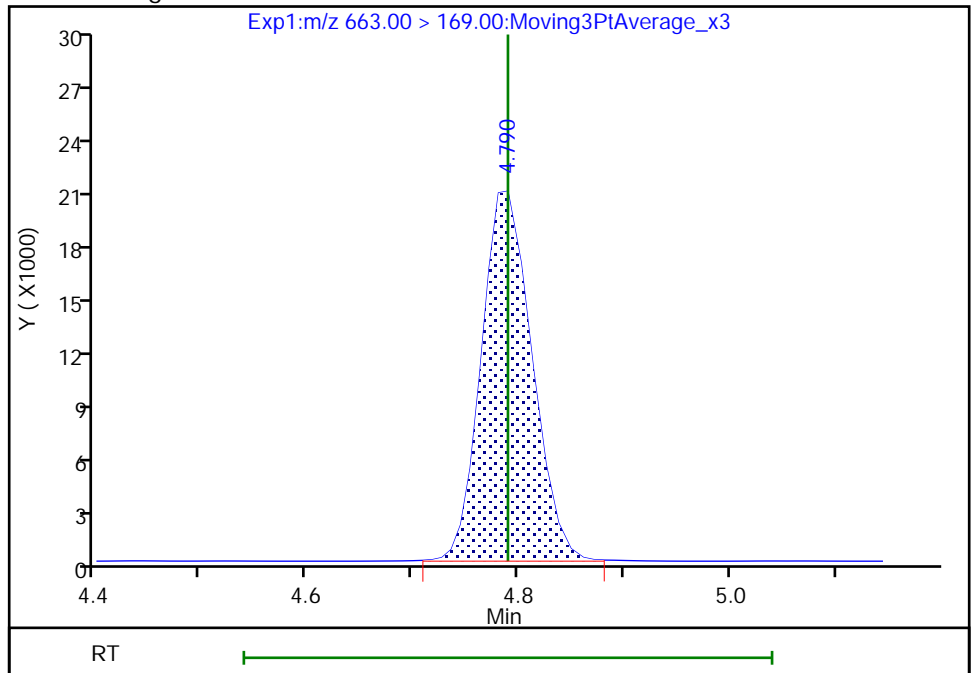
RT: 4.79  
Area: 68788  
Amount: 1.028571  
Amount Units: ng/ml

Processing Integration Results



RT: 4.79  
Area: 69081  
Amount: 1.026148  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:37:30

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

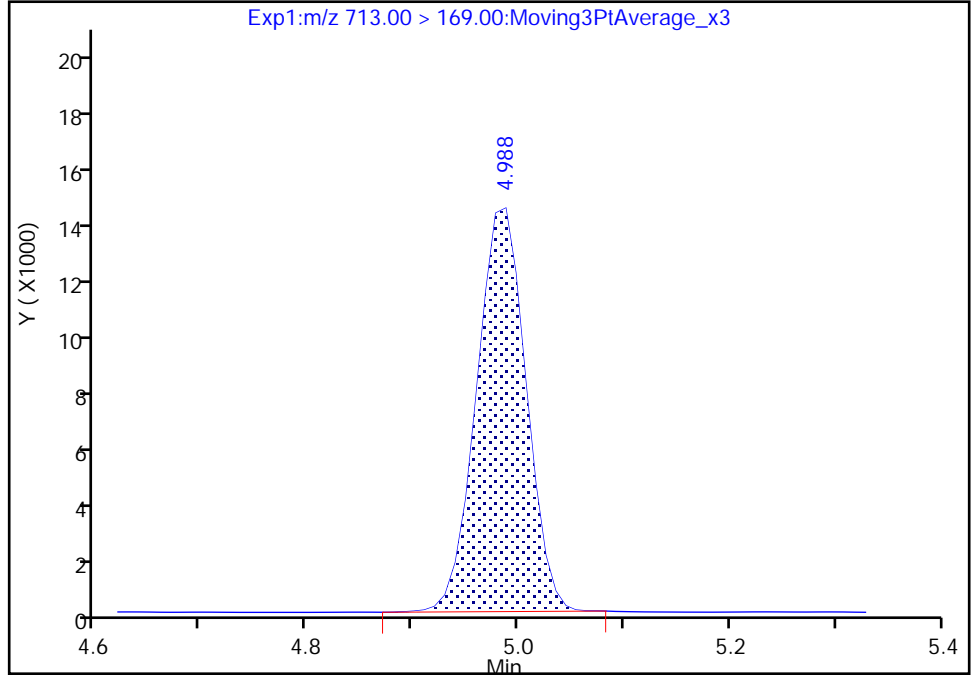
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

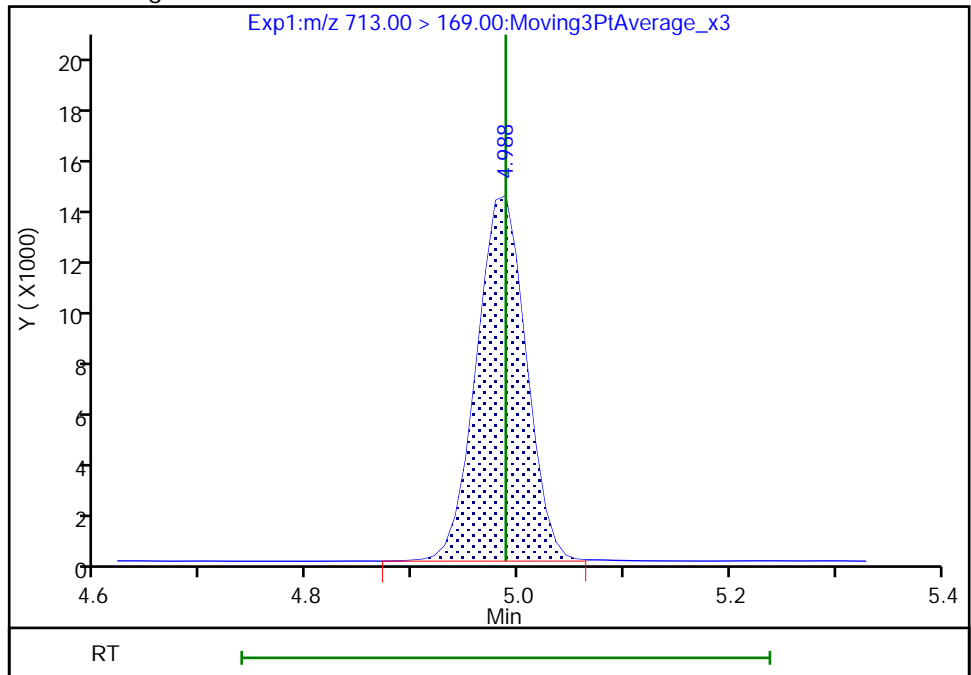
RT: 4.99  
Area: 47017  
Amount: 1.014266  
Amount Units: ng/ml

Processing Integration Results



RT: 4.99  
Area: 47228  
Amount: 1.018817  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:37:44  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

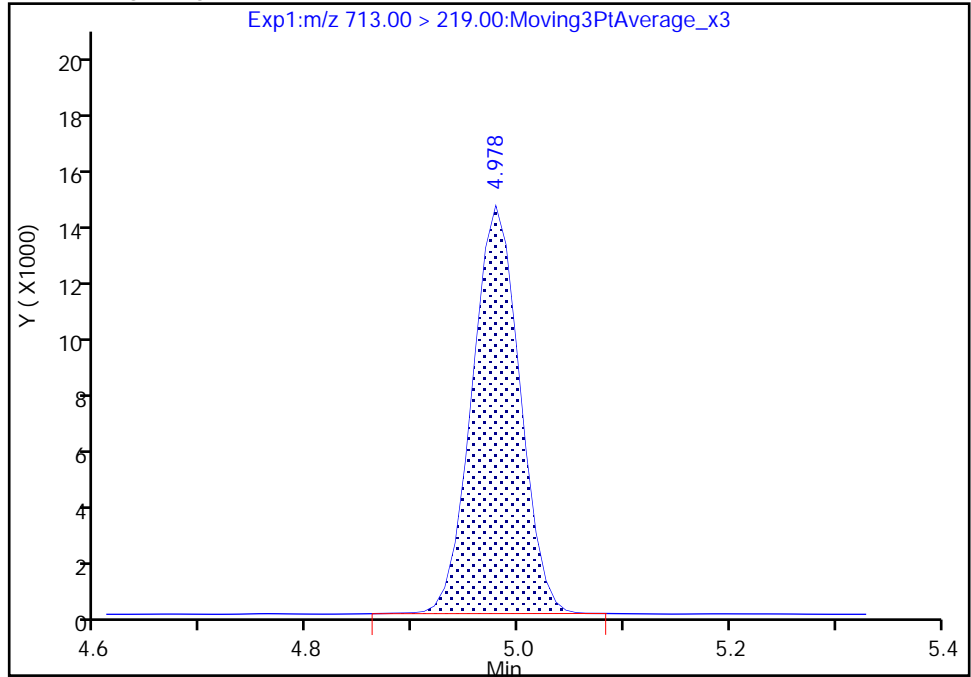
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A06.d  
Injection Date: 01-Oct-2020 18:45:11 Instrument ID: LC812  
Lims ID: CCVIS  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 6  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

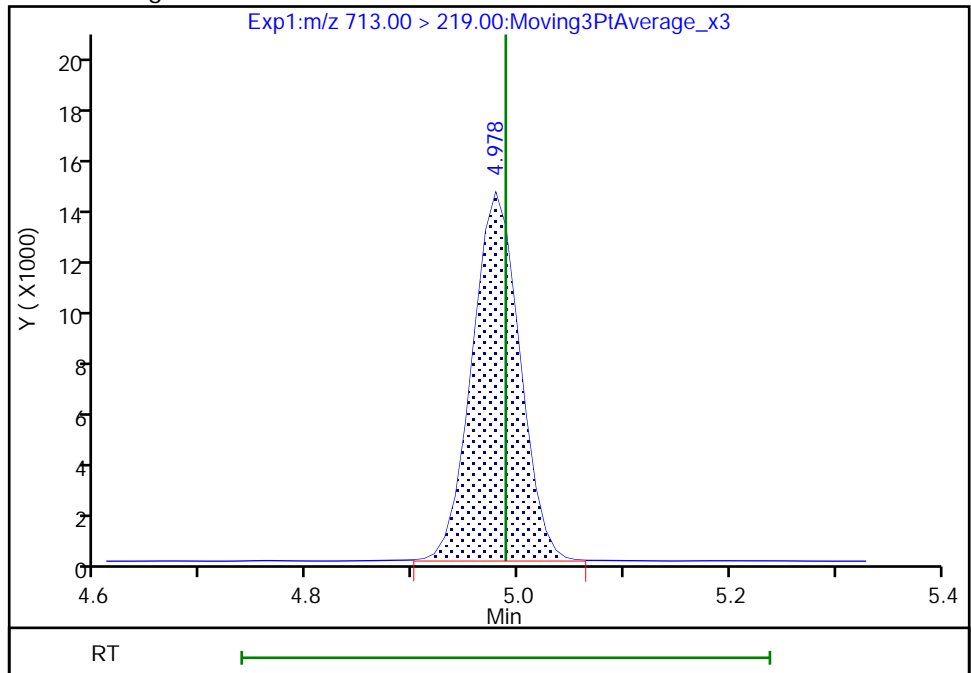
RT: 4.98  
Area: 45133  
Amount: 1.014266  
Amount Units: ng/ml

Processing Integration Results



RT: 4.98  
Area: 45297  
Amount: 1.018817  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 08:37:55

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159470/33 Calibration Date: 10/01/2020 22:28  
 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: PA201001A33.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	0.8711		0.932	1.00	-6.8	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	0.9907		0.938	1.00	-6.2	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	0.9630		0.854	0.884	-3.4	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.574		0.909	0.934	-2.6	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	1.008		1.00	1.00	0.1	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.202		0.953	0.938	1.6	50.0
HFPO-DA	AveID	2.128	1.772		0.833	1.00	-16.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.064		0.877	0.910	-3.7	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.9746		0.973	1.00	-2.7	40.0
DONA	AveID	3.081	2.999		0.917	0.942	-2.7	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7451		0.885	0.948	-6.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.175		0.966	0.952	1.4	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	0.9947		0.963	1.00	-3.7	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	1.047		0.894	0.928	-3.6	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	1.013		0.994	1.00	-0.6	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.9088		0.886	0.932	-5.0	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.8438		0.943	0.960	-1.7	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.8945		0.904	1.00	-9.6	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.3672		0.889	0.958	-7.2	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9348	0.9197		0.984	1.00	-1.6	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.9000		0.954	1.00	-4.6	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6494		0.871	0.964	-9.6	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	0.9713		0.985	1.00	-1.5	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.8144		0.890	1.00	-11.0	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.8013		0.915	0.942	-2.9	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	0.8765		0.899	1.00	-10.1	40.0
10:2 FTS	AveID	0.2199	0.1901		0.833	0.964	-13.6	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.2040		0.856	0.968	-11.5	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8202		0.990	1.00	-1.0	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2101		0.917	1.00	-8.3	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159470/33 Calibration Date: 10/01/2020 22:28  
 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: PA201001A33.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		0.9166		1.03	1.00	3.1	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.6575		0.880	1.00	-12.0	50.0
13C4 PFBA	Ave	1.433	1.579		1.38	1.25	10.2	50.0
13C5 PFPeA	Ave	1.027	1.051		1.28	1.25	2.3	50.0
13C3 PFBS	Ave	1.251	1.251		1.16	1.16	0.0	50.0
M2-4:2 FTS	Ave	0.0939	0.0977		1.21	1.17	4.0	50.0
13C2 PFHxA	Ave	1.058	1.117		1.32	1.25	5.6	50.0
13C3 HFPO-DA	Ave	0.0985	0.1207		1.53	1.25	22.4	50.0
18O2 PFHxS	Ave	0.8974	0.9292		1.22	1.18	3.5	50.0
13C4 PFHpA	Ave	0.9620	1.010		1.31	1.25	5.0	50.0
M2-6:2 FTS	Ave	0.1199	0.1205		1.19	1.19	0.5	50.0
13C4 PFOA	Ave	0.9845	0.9854		1.25	1.25	0.1	50.0
13C4 PFOS	Ave	0.7341	0.7364		1.20	1.20	0.3	50.0
13C5 PFNA	Ave	0.8296	0.8482		1.28	1.25	2.2	50.0
13C2 PFDA	Ave	0.7956	0.8127		1.28	1.25	2.2	50.0
M2-8:2 FTS	Ave	0.1413	0.1454		1.23	1.20	2.9	50.0
13C8 FOSA	Ave	1.282	1.252		1.22	1.25	-2.4	50.0
d3-NMeFOSAA	Ave	0.0453	0.0444		1.22	1.25	-2.0	50.0
13C2 PFUnA	Ave	0.6006	0.5820		1.21	1.25	-3.1	50.0
d5-NEtFOSAA	Ave	0.0487	0.0469		1.20	1.25	-3.7	50.0
13C2 PFDoA	Ave	0.6348	0.6042		1.19	1.25	-4.8	50.0
13C2 PFTeDA	Ave	0.4522	0.4101		1.13	1.25	-9.3	50.0
13C2 PFHxDA	Ave	0.5124	0.3887		0.948	1.25	-24.1	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
 Lims ID: CCV L4  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 01-Oct-2020 22:28:51 ALS Bottle#: 30 Worklist Smp#: 33  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L4  
 Misc. Info.: 200-0043055-033 Plate: 1 Rack: 1  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3

Method: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 02-Oct-2020 15:16:34 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: CTX1005

First Level Reviewer: manopan Date: 02-Oct-2020 13:54:18

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	0.578	982111	1.38	110	15002	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.000	2.000	0.0	1.000	684408	0.9319		93.2	221	M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.672	653717	1.28	102	3374	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.340	2.326	0.014	1.006	518104	0.9381		93.8	38.4	M
D 47 13C3 PFBS	301.90 > 80.00	2.353	2.353	0.0	0.680	723867	1.16	100	275166	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.353	2.353	0.0	1.000	530100	0.8544	Target=2.07	96.6	2139	
298.90 > 99.00	2.353	2.353	0.0	1.000	259706		2.04(1.04-3.11)		506	
D 60 M2-4:2 FTS	329.00 > 81.00	2.666	2.666	0.0	0.771	56759	1.21	104	140	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.666	2.666	0.0	1.000	71456	0.9095		97.4	1535	
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.782	695043	1.32	106	2640	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	560600	1.00	Target=12.44	100	290	M
313.00 > 119.00	2.703	2.703	0.0	1.000	44021		12.73(6.22-18.66)		64.3	M
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.881	521580	0.9526	Target=3.64	102	2386	
349.00 > 99.00	2.716	2.716	0.0	0.881	152880		3.41(1.82-5.46)		882	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.818	2.818	0.0	0.815	75063	1.53	122	1180	

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	2.818	0.0	1.000	106424	0.8329		83.3	31.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.084	3.085	0.0	0.892	546833	1.22		104	1396	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.085	0.0	1.000	447648	0.8765	Target=4.60	96.3	800	M
399.00 > 99.00	3.084	3.085	0.0	1.000	98091		4.56(2.30-6.91)		270	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.085	0.012	0.895	628250	1.31		105	3279	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.096	3.085	0.012	1.000	489838	0.9726	Target=3.34	97.3	388	
363.00 > 169.00	3.096	3.085	0.012	1.000	144667		3.39(1.67-5.01)		322	
77 DONA										
377.00 > 251.00	3.132	3.124	0.008	0.829	1035385	0.9170	Target=2.44	97.3	3833	
377.00 > 85.00	3.132	3.124	0.008	0.829	447298		2.31(1.22-3.67)		1303	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.450	3.441	0.009	0.914	409962	0.9656	Target=7.08	101	2880	
449.00 > 99.00	3.450	3.441	0.009	0.914	55673		7.36(3.54-10.63)		631	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.450	3.450	0.0	1.000	42353	0.8850		93.4	1480	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.450	0.0	0.997	71205	1.19		100	772	
D 14 13C4 PFOA										
417.00 > 372.00	3.459	3.459	0.0	1.000	613040	1.25		100	2485	
* 62 13C2 PFOA										
415.00 > 370.00	3.459	3.459	0.0		622099	1.25			2806	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.459	3.459	0.0	1.000	487844	0.9635	Target=2.29	96.3	271	M
413.00 > 169.00	3.459	3.459	0.0	1.000	221124		2.21(1.14-3.43)		569	M
D 18 13C4 PFOS										
503.00 > 80.00	3.776	3.766	0.010	1.092	437936	1.20		100	1957	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.776	3.776	0.0	1.000	356162	0.8943	Target=7.10	96.4	656	M
499.00 > 99.00	3.776	3.776	0.0	1.000	51212		6.95(3.55-10.64)		369	M
D 19 13C5 PFNA										
468.00 > 423.00	3.797	3.786	0.011	1.098	527688	1.28		102	3501	
20 Perfluorononanoic acid										
463.00 > 419.00	3.797	3.797	0.0	1.000	427436	0.99	Target=5.83	99.4	235	
463.00 > 169.00	3.797	3.797	0.0	1.000	72823		5.87(2.91-8.74)		1167	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.932	3.932	0.0	1.041	310393	0.8856		95.0	2019	
68 Perfluorononanesulfonic acid										M
549.00 > 80.00	4.062	4.062	0.0	1.076	296852	0.9432	Target=3.38	98.3	1990	M
549.00 > 99.00	4.062	4.062	0.0	1.076	85502		3.47(1.69-5.08)		639	M
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.183	505582	1.28		102	2513	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.092	0.0	1.000	361795	0.9041	Target=6.81	90.4	1051	
513.00 > 169.00	4.092	4.092	0.0	1.000	55248		6.55(3.41-10.22)		1025	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.104	4.092	0.012	1.000	25454	0.8886		92.8	734	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.092	0.012	1.187	86657	1.23		103	1472	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.151	0.0	1.200	778717	1.22		97.6	3858	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.151	4.151	0.0	1.000	572923	0.9838		98.4	1013	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.224	27602	1.22		98.0	113	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.235	4.235	0.0	1.000	19874	0.9537		95.4	195	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.321	4.321	0.0	1.144	229435	0.8713	Target=3.31	90.4	1690	
599.00 > 99.00	4.321	4.321	0.0	1.144	78093		2.94(1.66-4.97)		777	
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.259	362086	1.21		96.9	3959	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.355	0.0	1.000	281363	0.9848	Target=6.57	98.5	500	
563.00 > 169.00	4.355	4.355	0.0	1.000	43004		6.54(3.28-9.85)		985	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.367	4.366	0.0	1.262	29184	1.20		96.3	850	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.367	4.366	0.0	1.000	19013	0.8895		89.0	320	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.444	4.444	0.0	1.177	276627	0.9150		97.1	3467	
D 36 13C2 PFDaA										
615.00 > 570.00	4.586	4.585	0.001	1.326	375842	1.19		95.2	6652	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.586	4.585	0.001	1.000	263541	0.8988	Target=5.16	89.9	421	
613.00 > 169.00	4.586	4.585	0.001	1.000	54659		4.82(2.58-7.75)		1409	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.610	4.597	0.013	1.123	13263	0.8333		86.4	472	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.754	4.754	0.0	1.259	72369	0.8564	Target=0.45	88.5	483	M
699.00 > 99.00	4.754	4.754	0.0	1.259	170077		0.43(0.22-0.67)		1983	M
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.789	4.790	-0.001	1.044	246603	0.99	Target=3.30	99.0	274	
663.00 > 169.00	4.789	4.790	-0.001	1.044	66234		3.72(1.65-4.95)		1406	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.988	0.0	1.442	255095	1.13		90.7	3697	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.988	4.988	0.0	1.000	42871	0.9172	Target=1.06	91.7	1244	
713.00 > 219.00	4.988	4.988	0.0	1.000	42169		1.02(0.53-1.59)		1426	

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	1.547	241806	0.9481		75.9	3711	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.350	5.350	0.0	1.000	177305	1.03	Target=3.06	103	165	
813.00 > 169.00	5.350	5.350	0.0	1.000	57340		3.09(1.53-4.58)		2223	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.720	5.711	0.009	1.069	127189	0.8798	Target=2.82	88.0	262	
913.00 > 169.00	5.720	5.711	0.009	1.069	45610		2.79(1.41-4.24)		796	

**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\20201001-43055.b\PA201001A33.d

Injection Date: 01-Oct-2020 22:28:51

Instrument ID: LC812

Lims ID: CCV L4

Client ID:

Operator ID: lc812tech

ALS Bottle#: 30

Worklist Smp#: 33

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

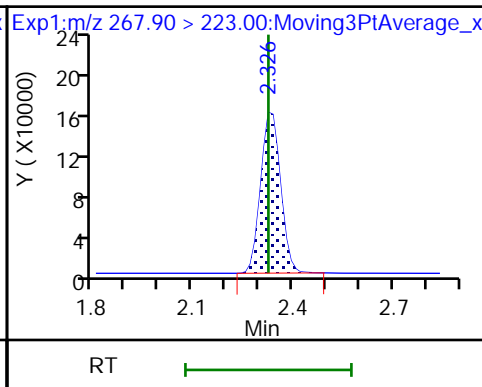
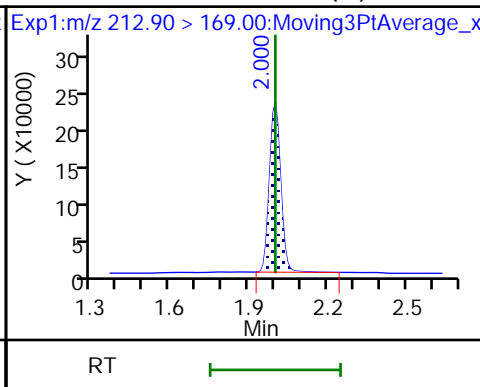
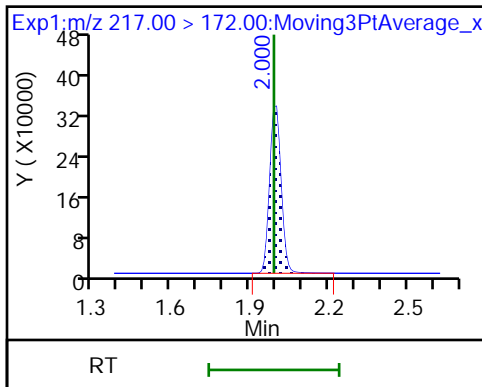
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

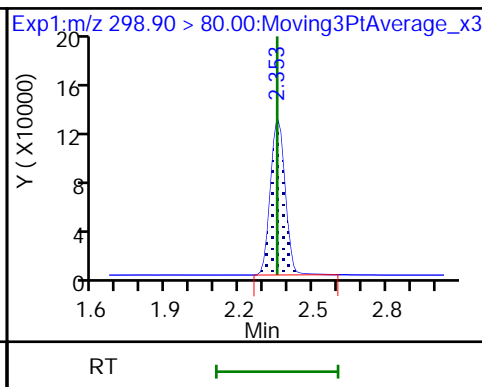
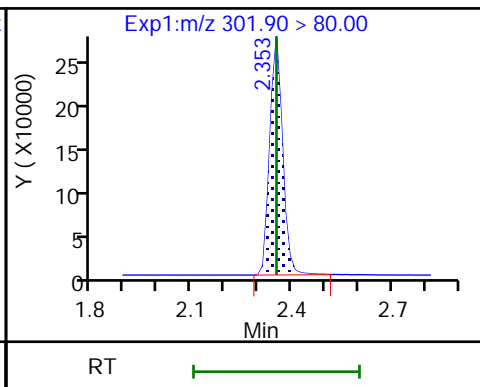
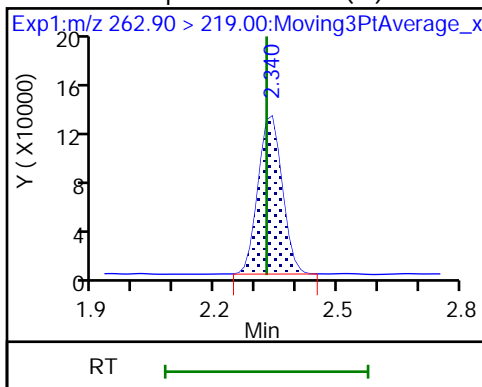
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

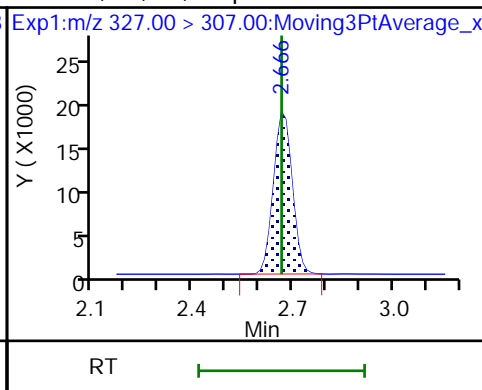
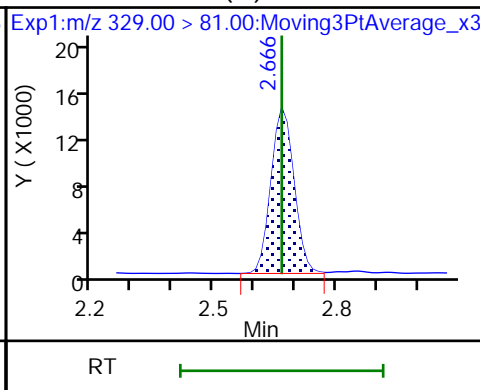
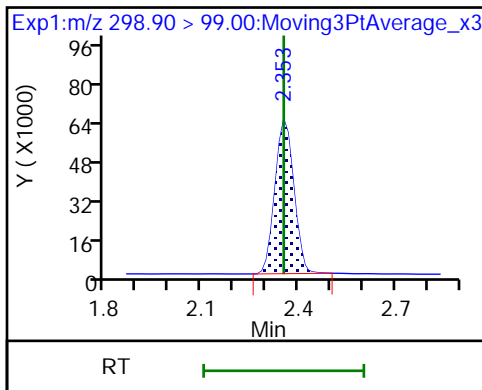
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

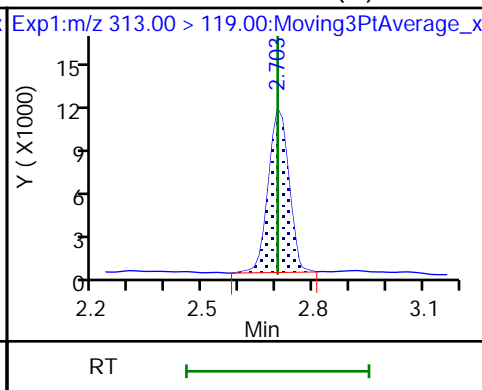
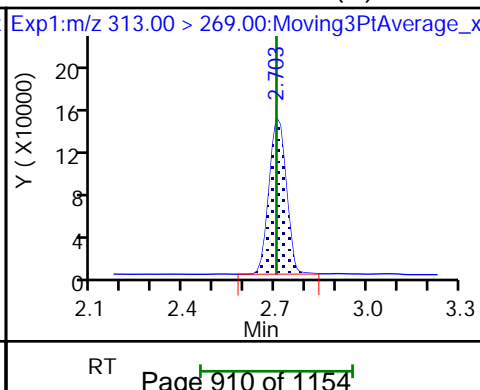
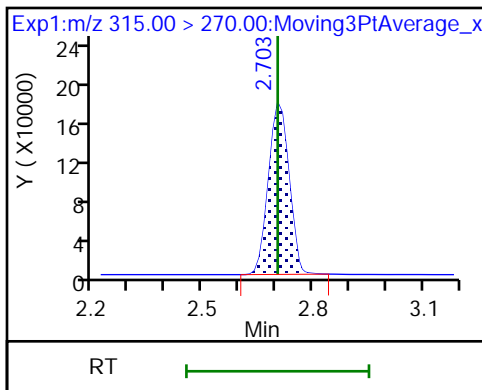
61 1H,1H,2H,2H-perfluorohexanesulfo

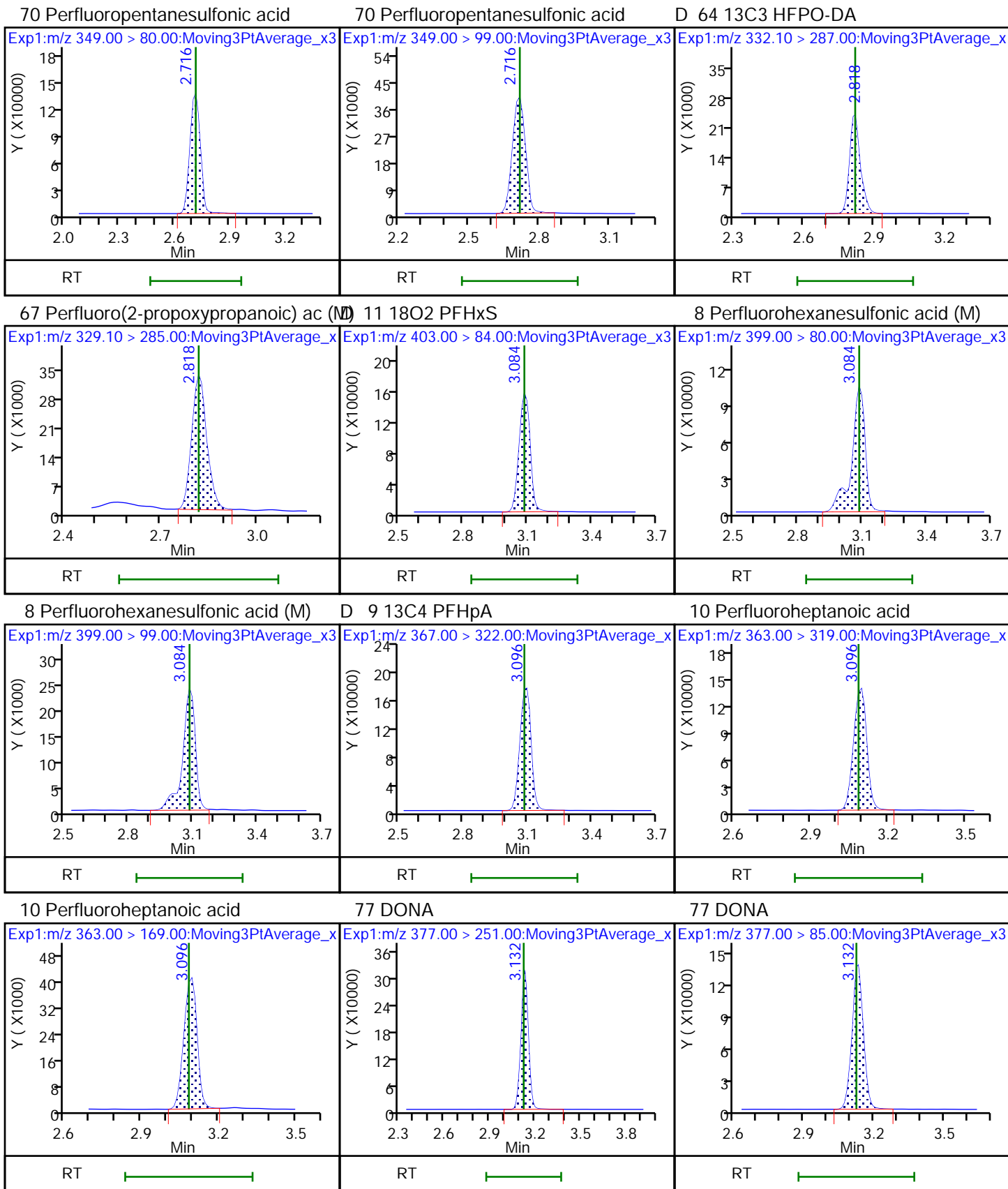


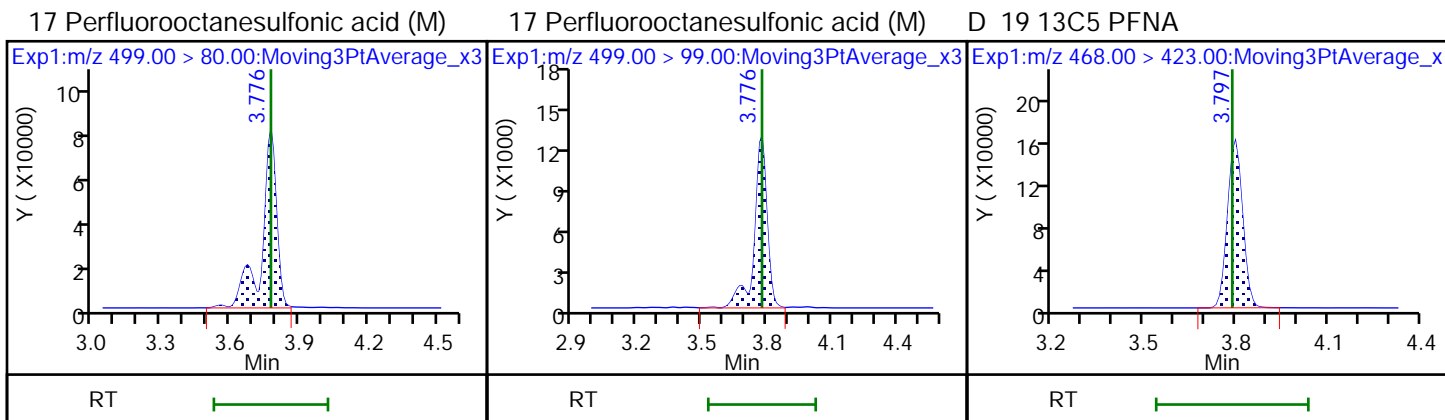
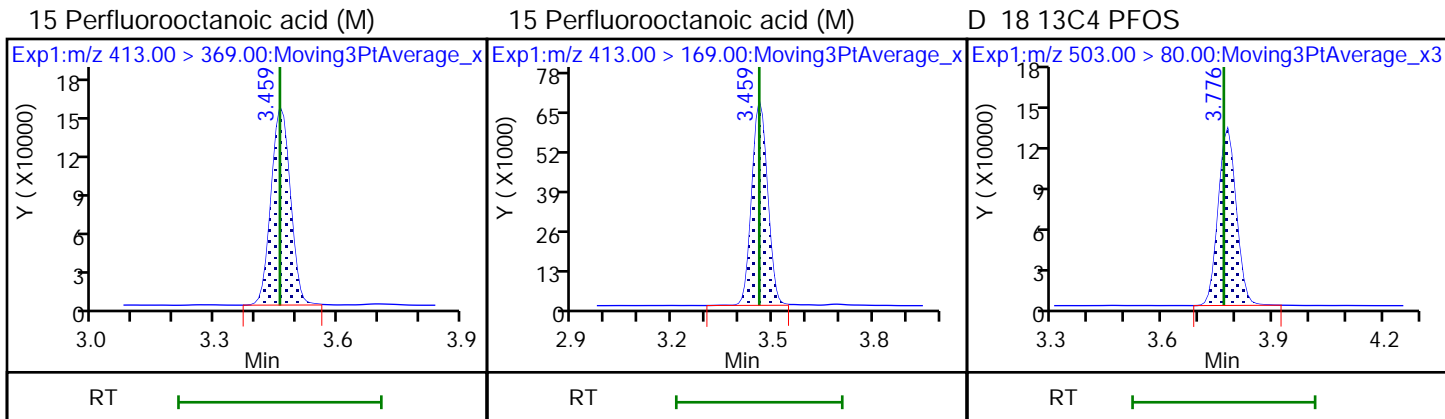
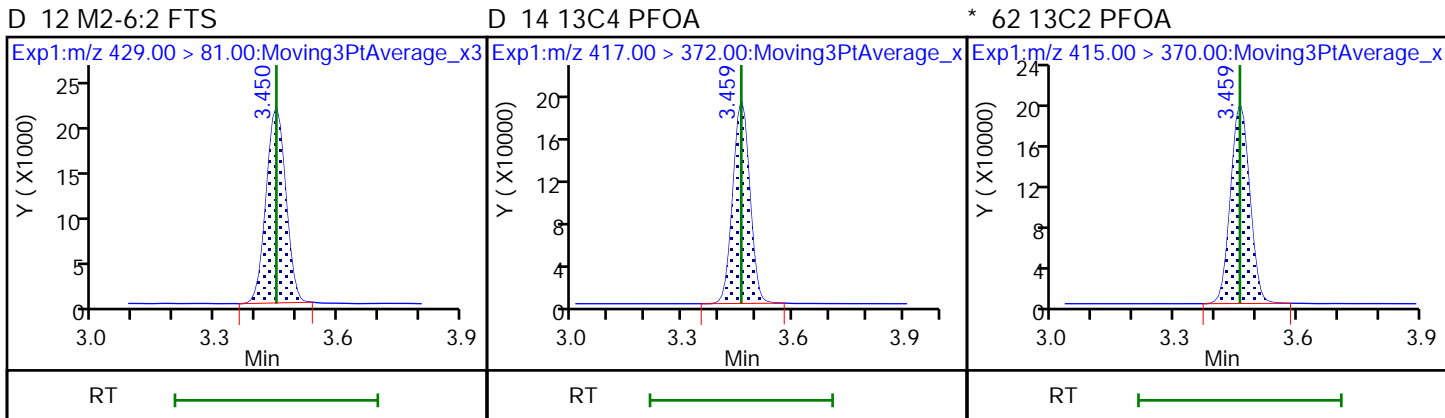
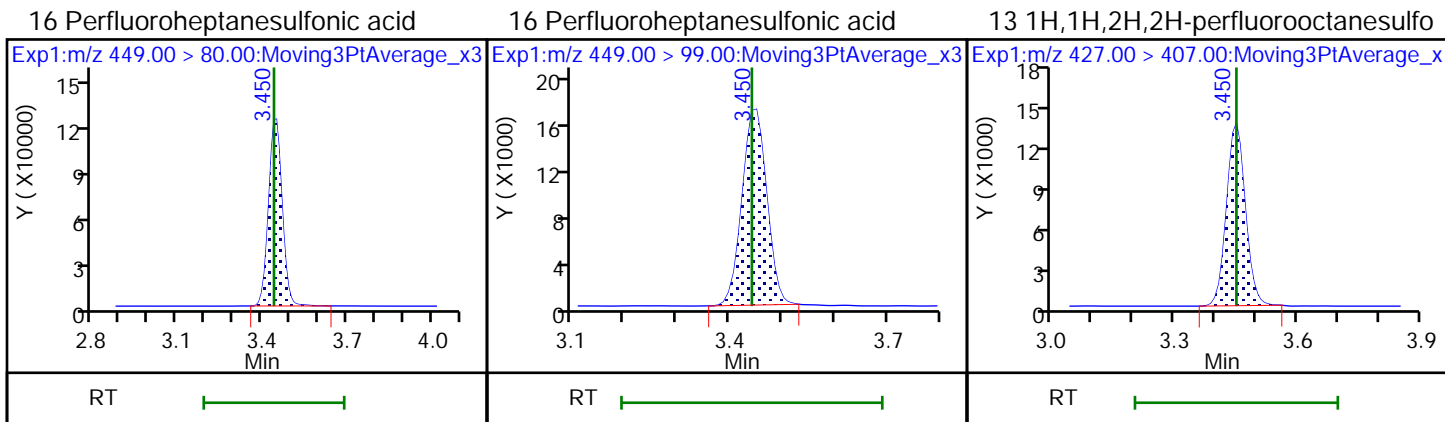
D 7 13C2 PFHxA

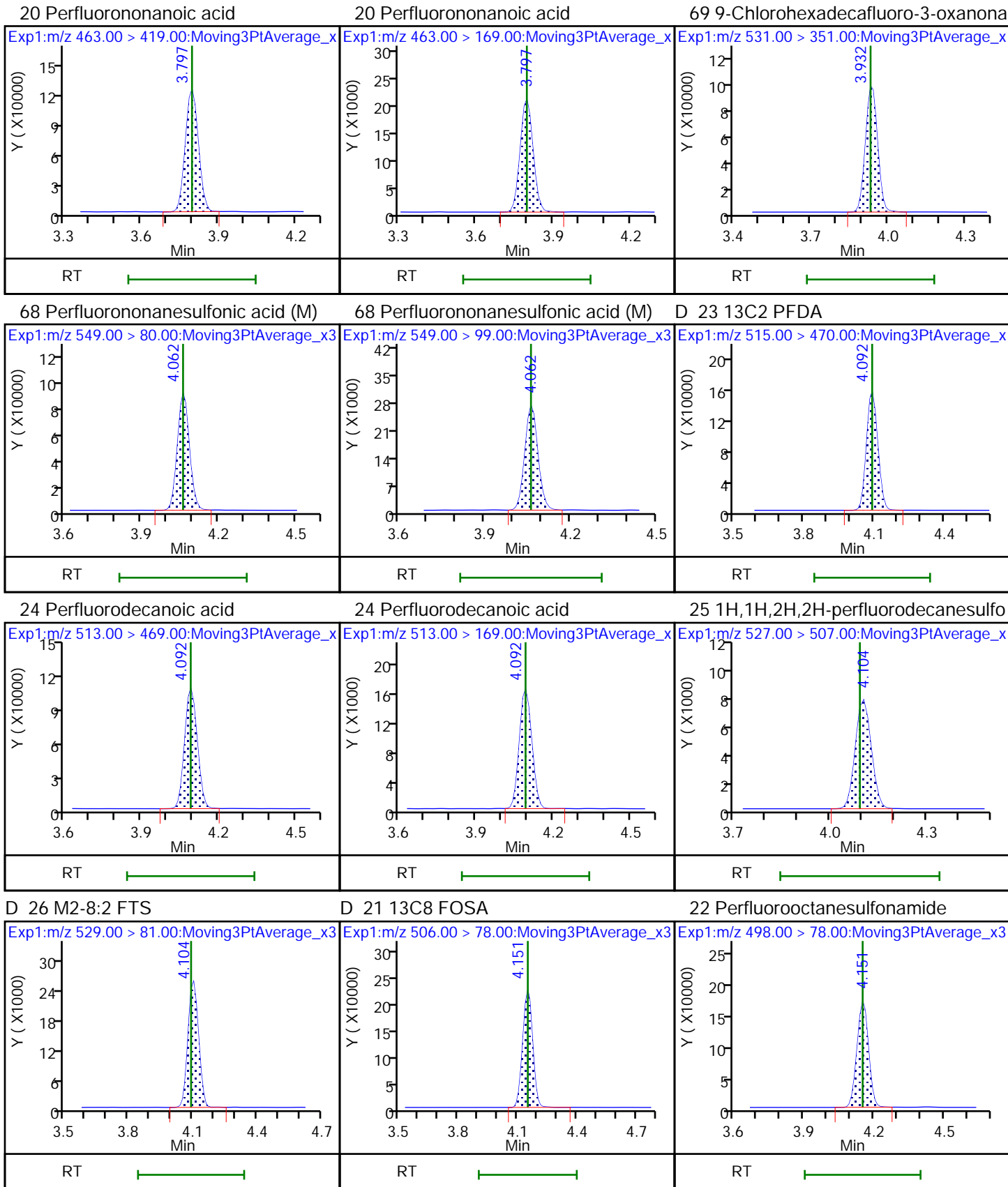
6 Perfluorohexanoic acid (M)

6 Perfluorohexanoic acid (M)



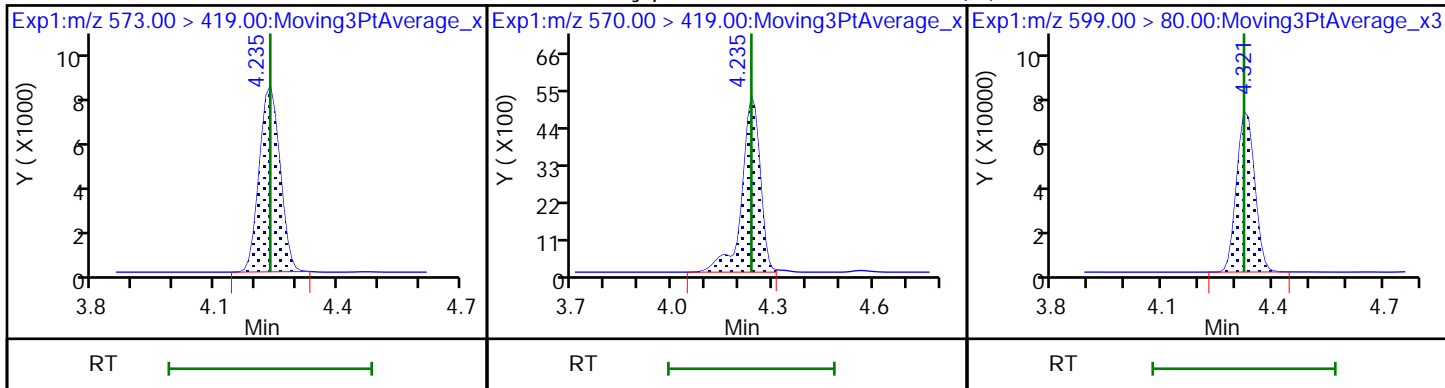






D 27 d3-NMeFOSAA

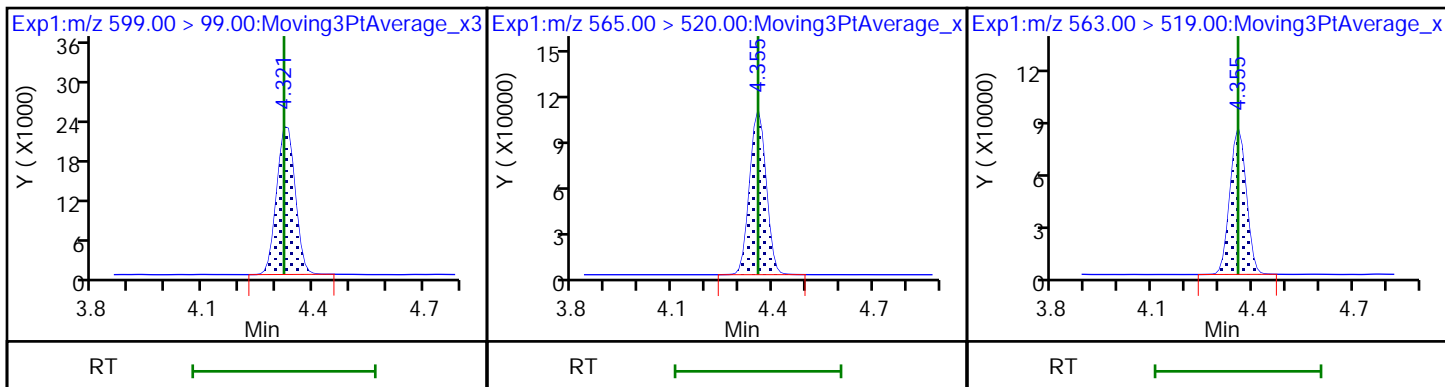
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUnA

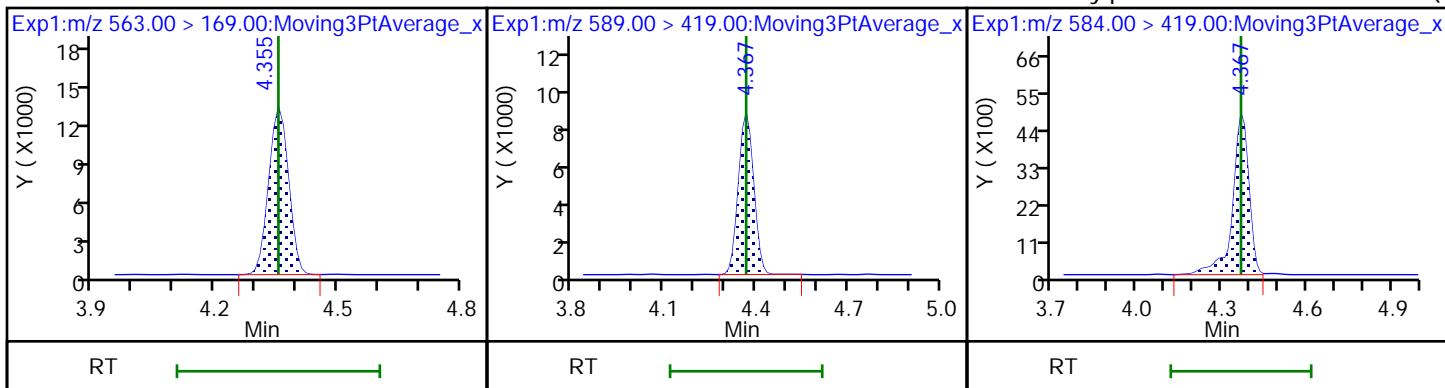
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

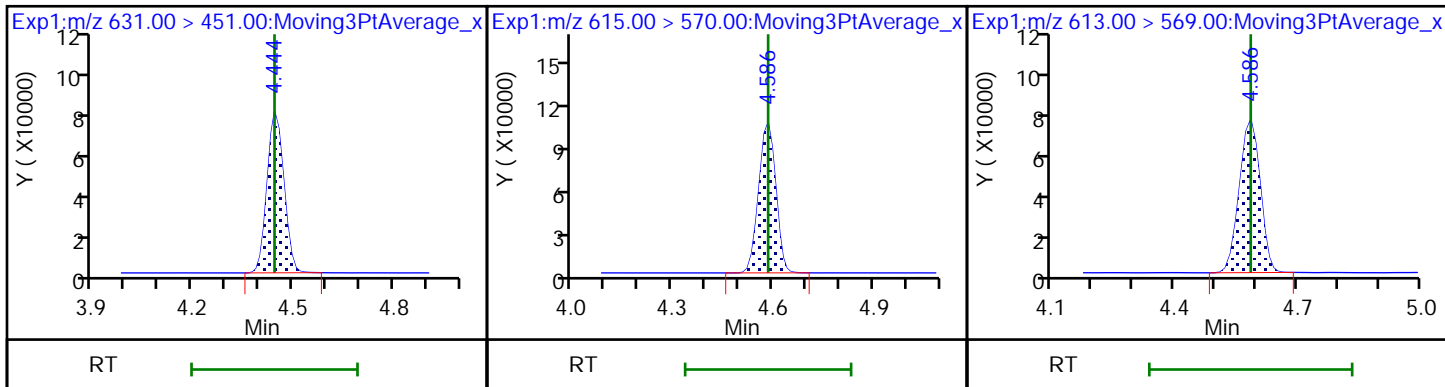
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

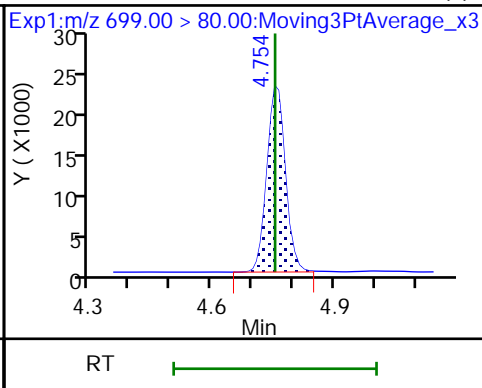
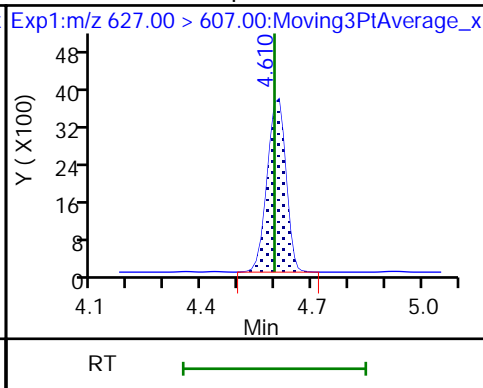
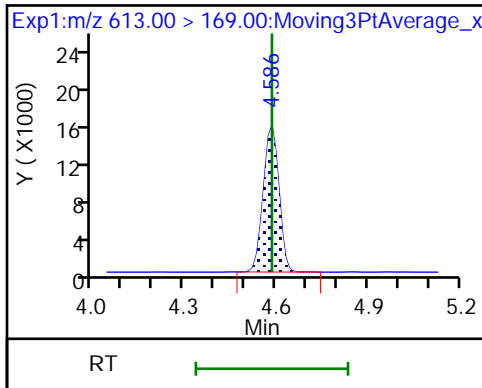
37 Perfluorododecanoic acid



37 Perfluorododecanoic acid

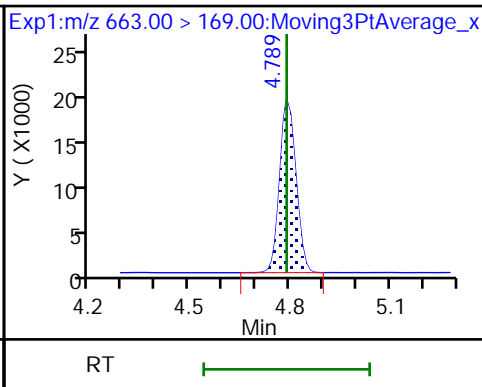
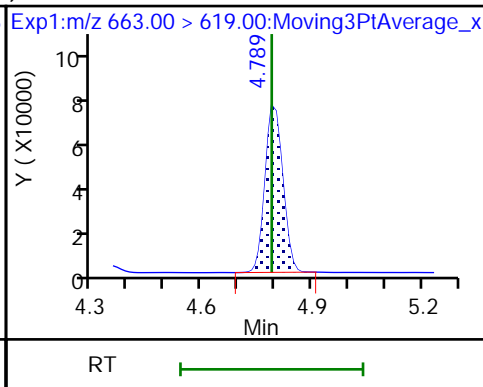
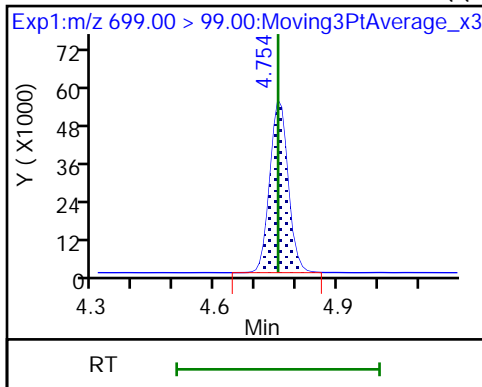
74 1H,1H,2H,2H-perfluorododecanesul

75 Perfluorododecanesulfonic acid ( (M)



75 Perfluorododecanesulfonic acid ( (M) 41 Perfluorotridecanoic acid

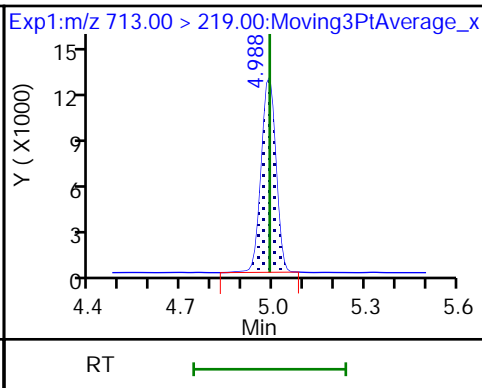
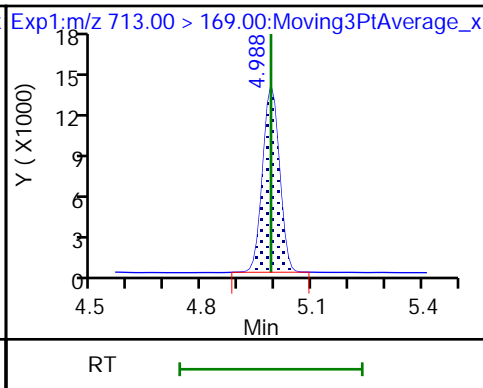
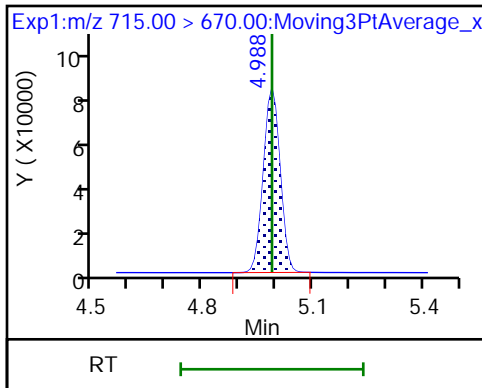
41 Perfluorotridecanoic acid



D 43 13C2 PFTeDA

42 Perfluorotetradecanoic acid

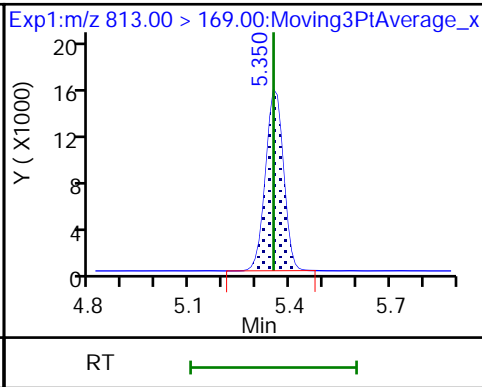
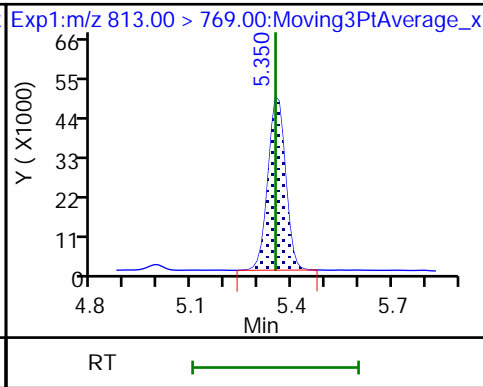
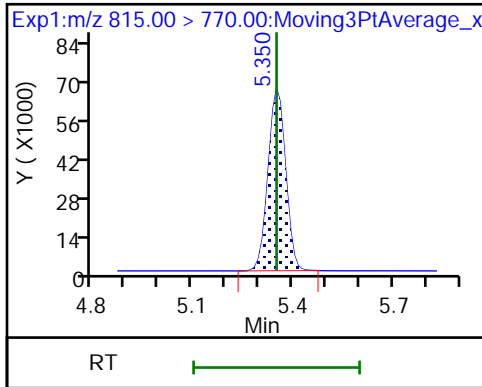
42 Perfluorotetradecanoic acid



D 44 13C2 PFHxDA

45 Perfluorohexadecanoic acid

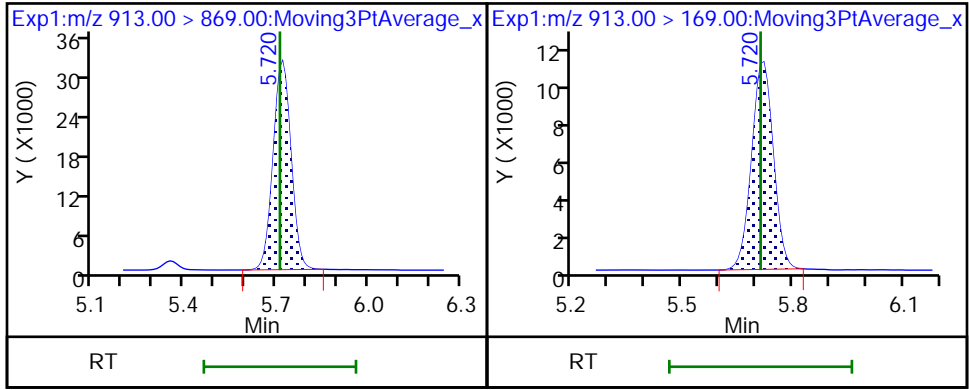
45 Perfluorohexadecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

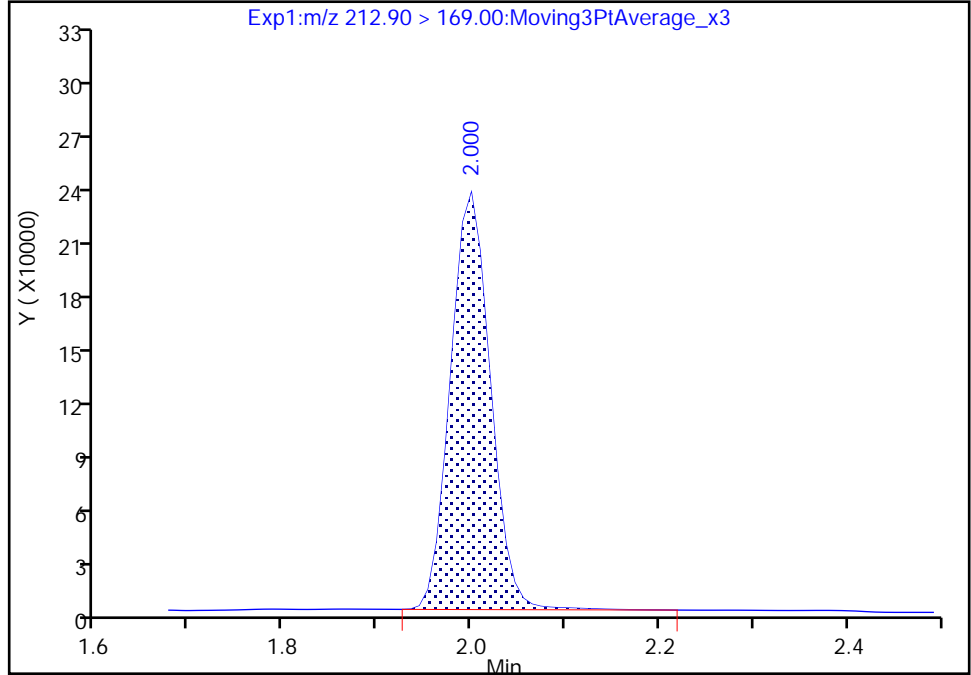
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

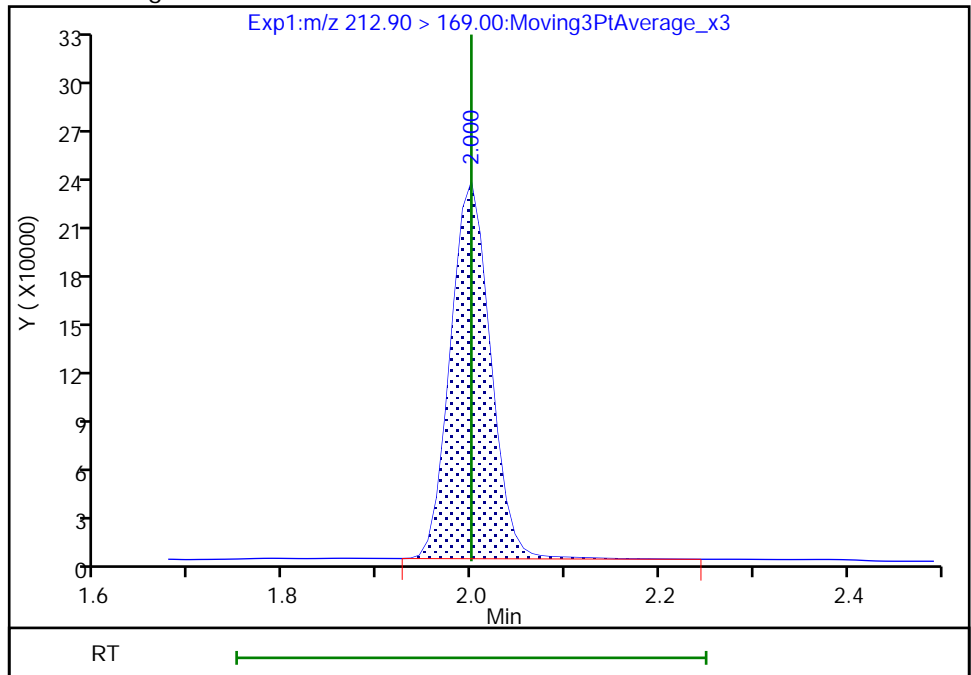
RT: 2.00  
Area: 683813  
Amount: 0.931098  
Amount Units: ng/ml

Processing Integration Results



RT: 2.00  
Area: 684408  
Amount: 0.931908  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:50:09  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

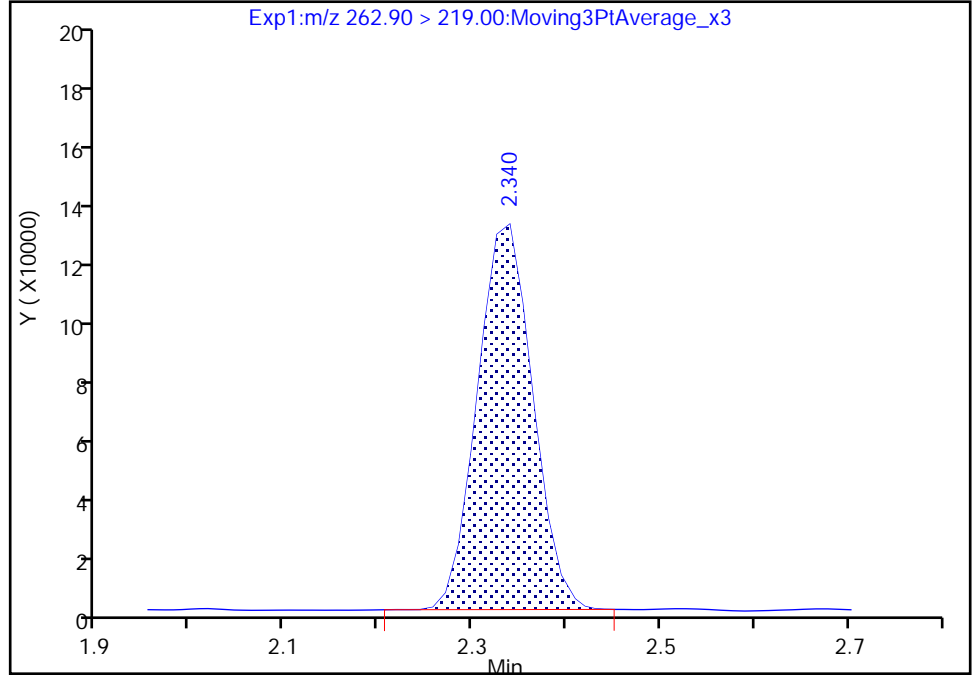
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

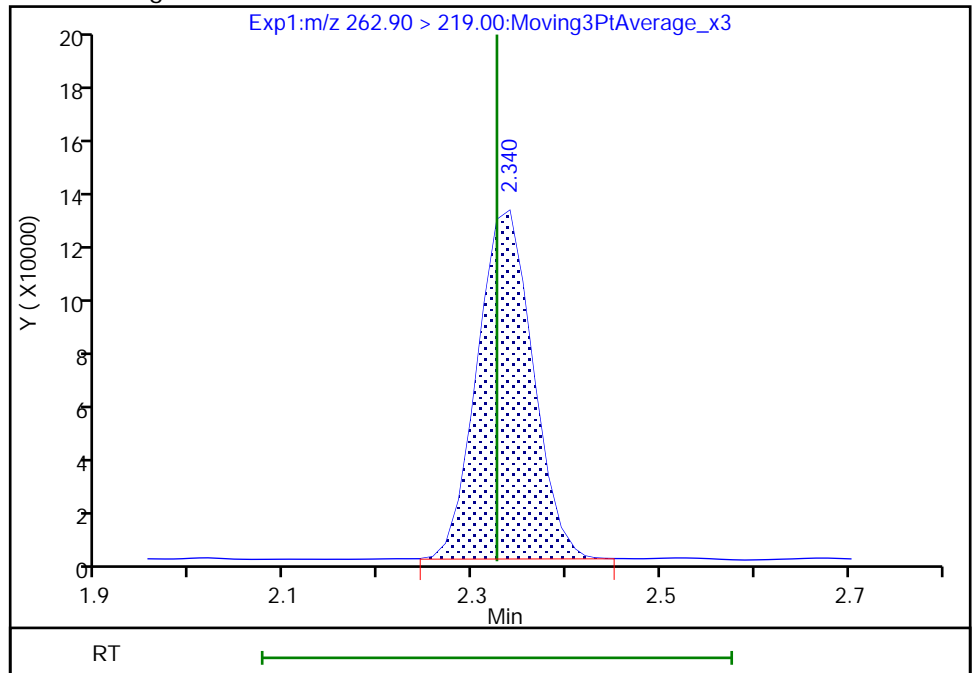
RT: 2.34  
Area: 516873  
Amount: 0.935851  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 518104  
Amount: 0.938080  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:50:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

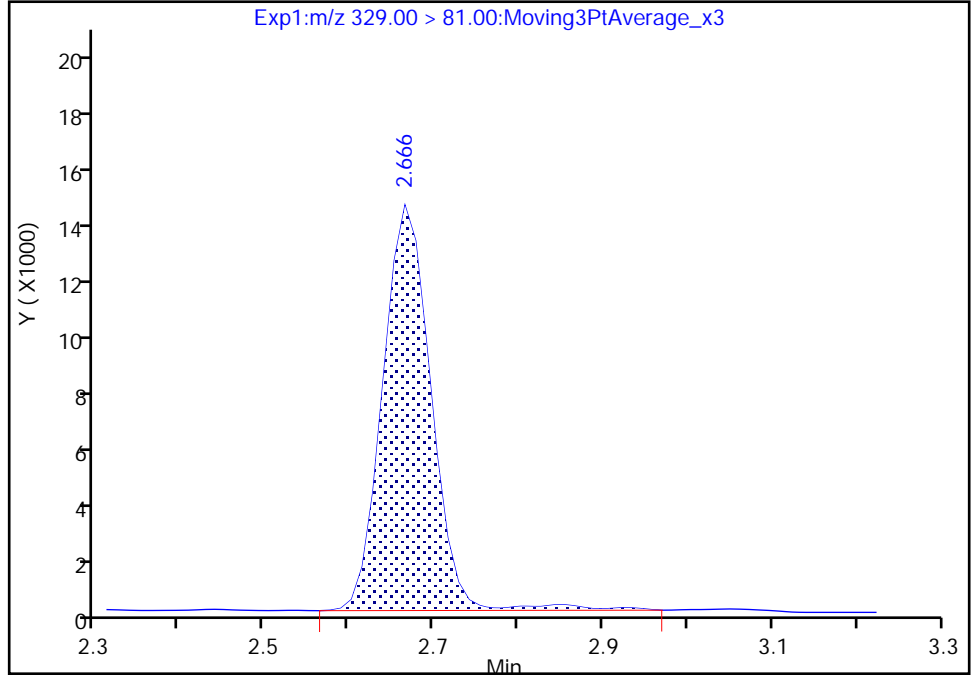
Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection 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

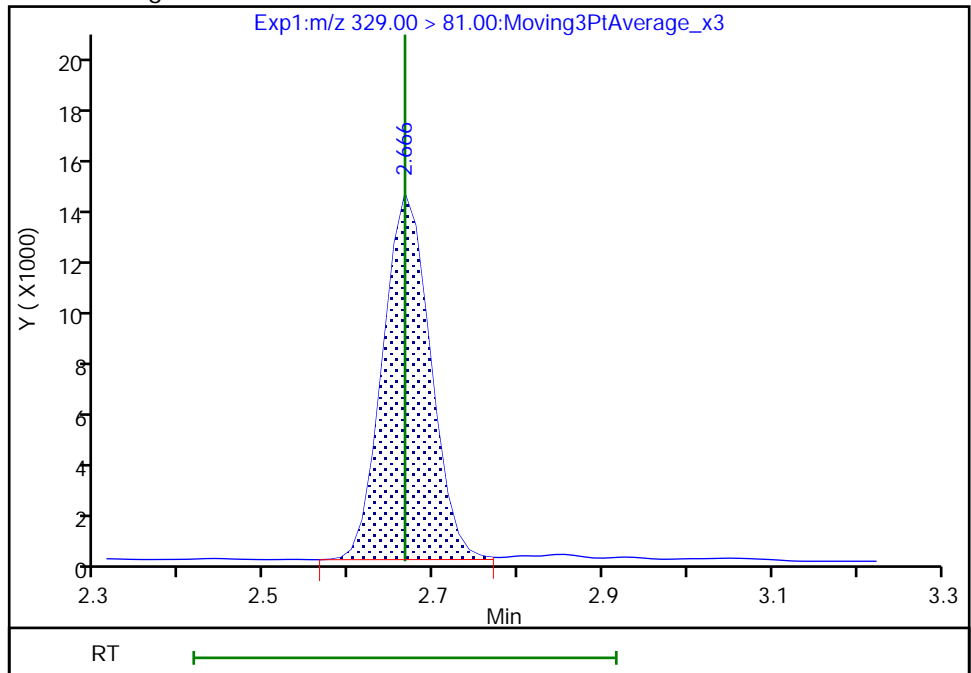
RT: 2.67  
Area: 57987  
Amount: 1.240234  
Amount Units: ng/ml

Processing Integration Results



RT: 2.67  
Area: 56759  
Amount: 1.213969  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:49:49  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

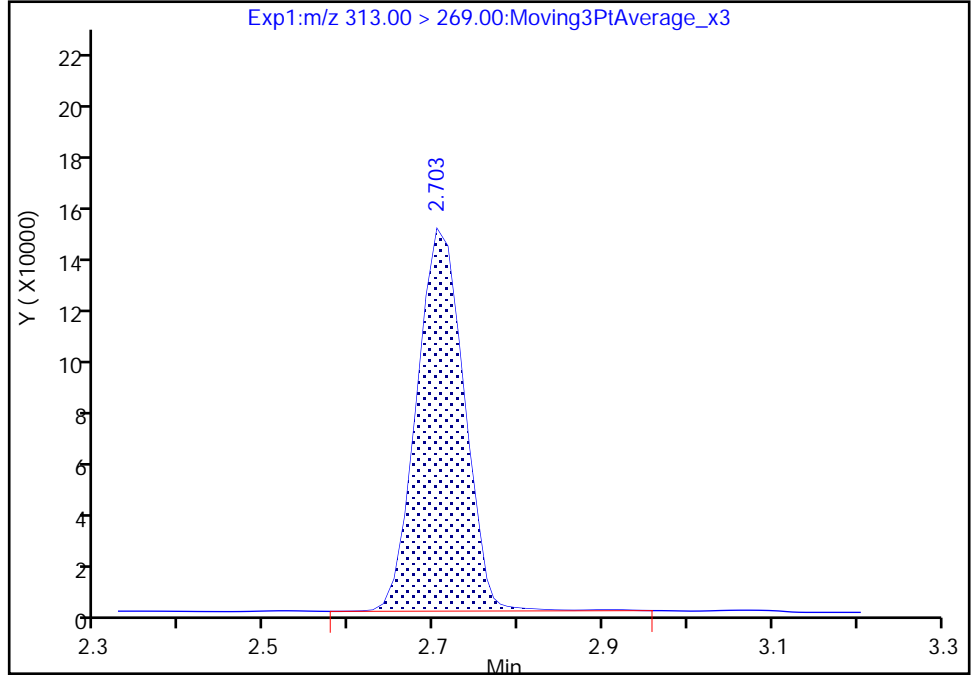
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

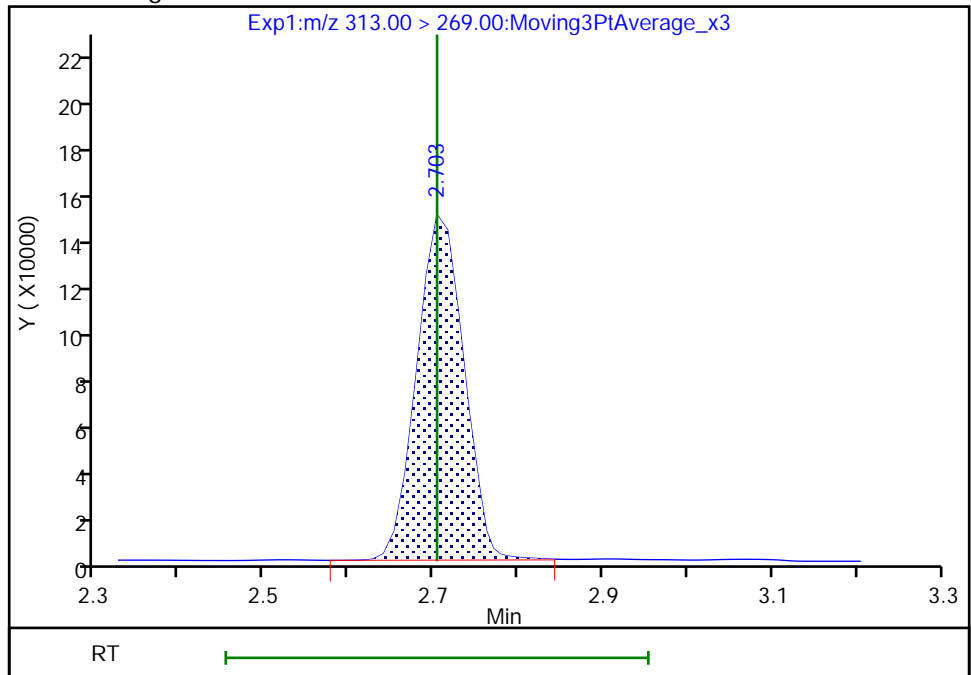
RT: 2.70  
Area: 562038  
Amount: 1.003823  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 560600  
Amount: 1.001254  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:50:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

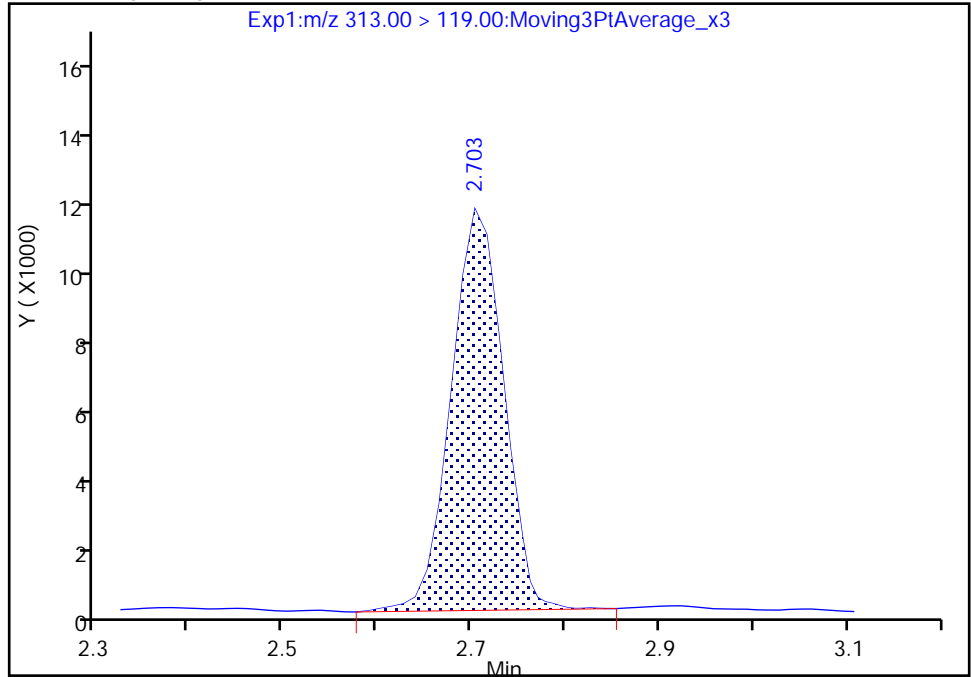
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

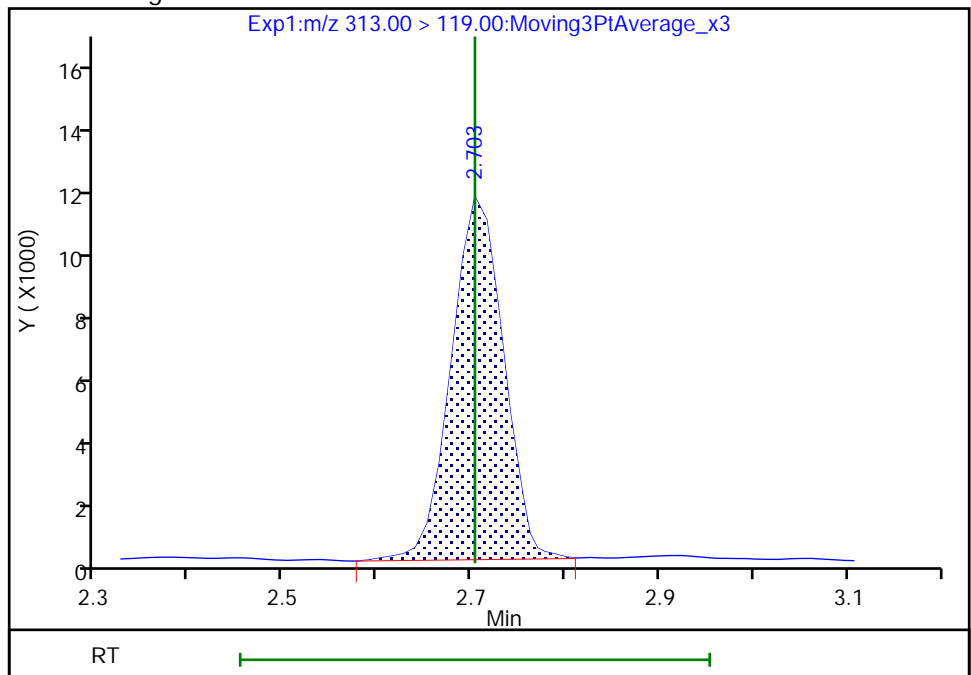
RT: 2.70  
Area: 44052  
Amount: 1.003823  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 44021  
Amount: 1.001254  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:50:38

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

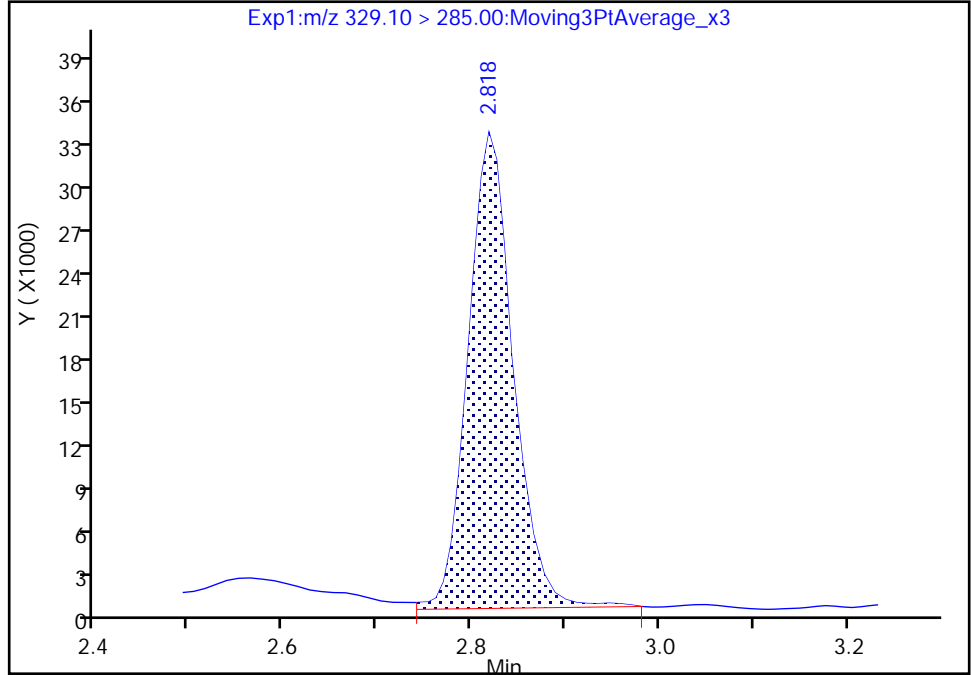
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

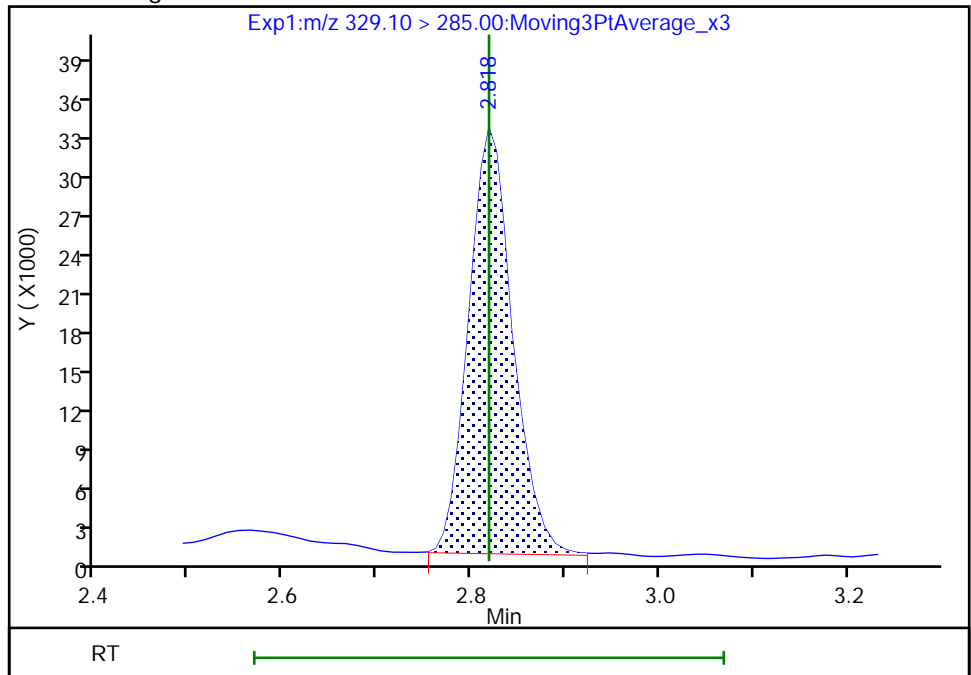
RT: 2.82  
Area: 110135  
Amount: 0.861938  
Amount Units: ng/ml

Processing Integration Results



RT: 2.82  
Area: 106424  
Amount: 0.832895  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:51:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

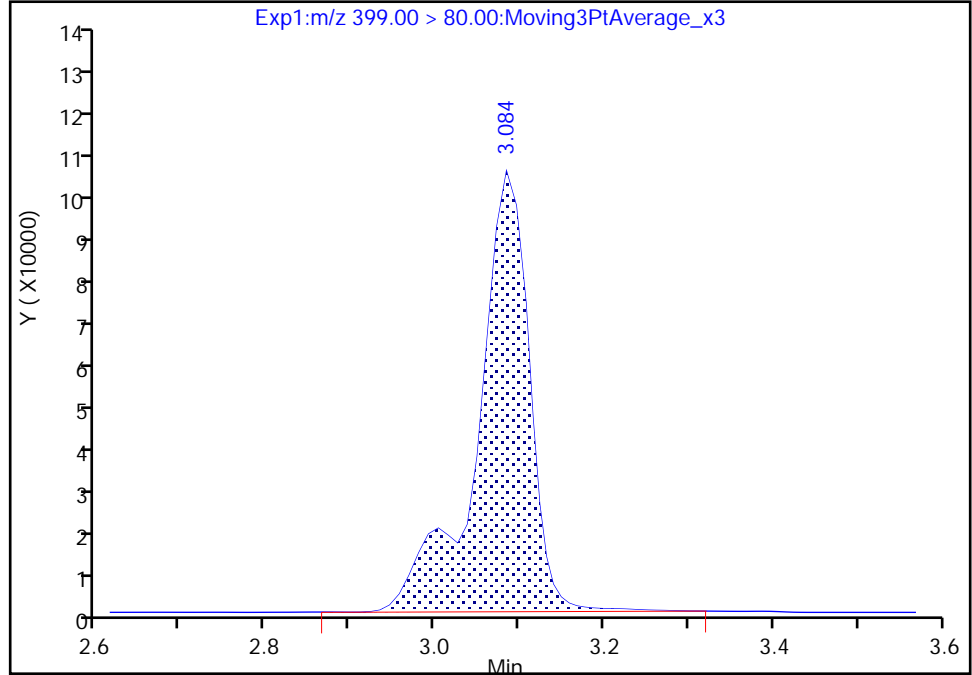
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

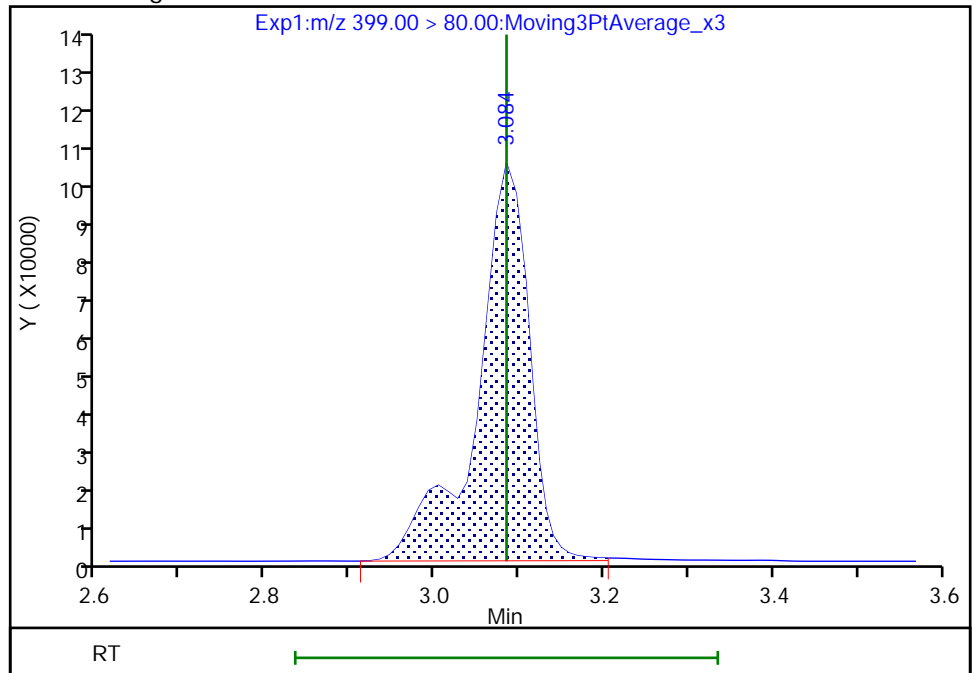
RT: 3.08  
Area: 448944  
Amount: 0.879041  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 447648  
Amount: 0.876503  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:51:19  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

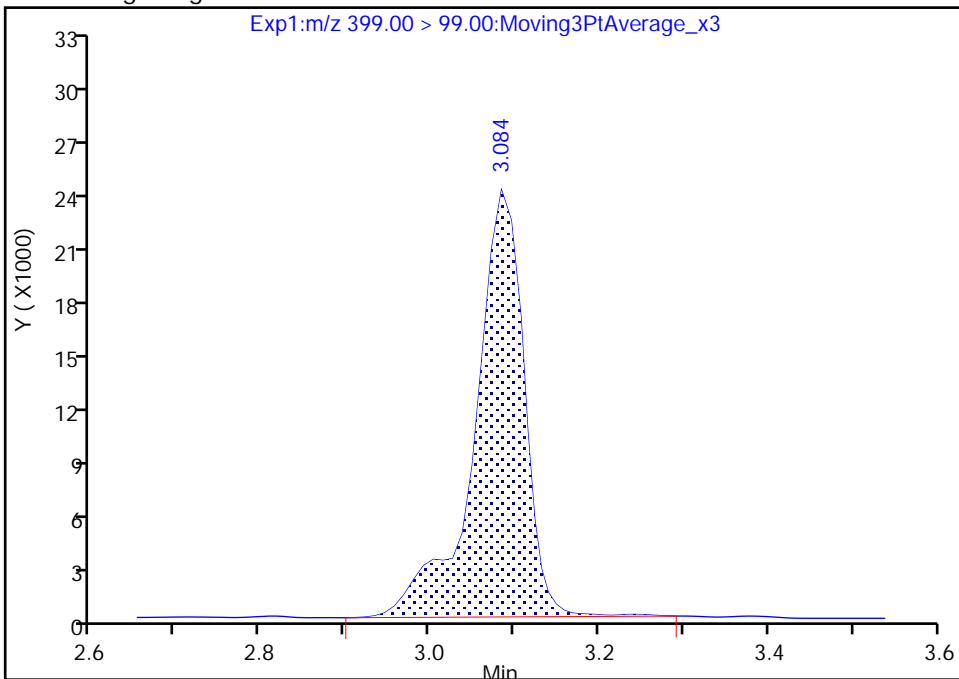
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

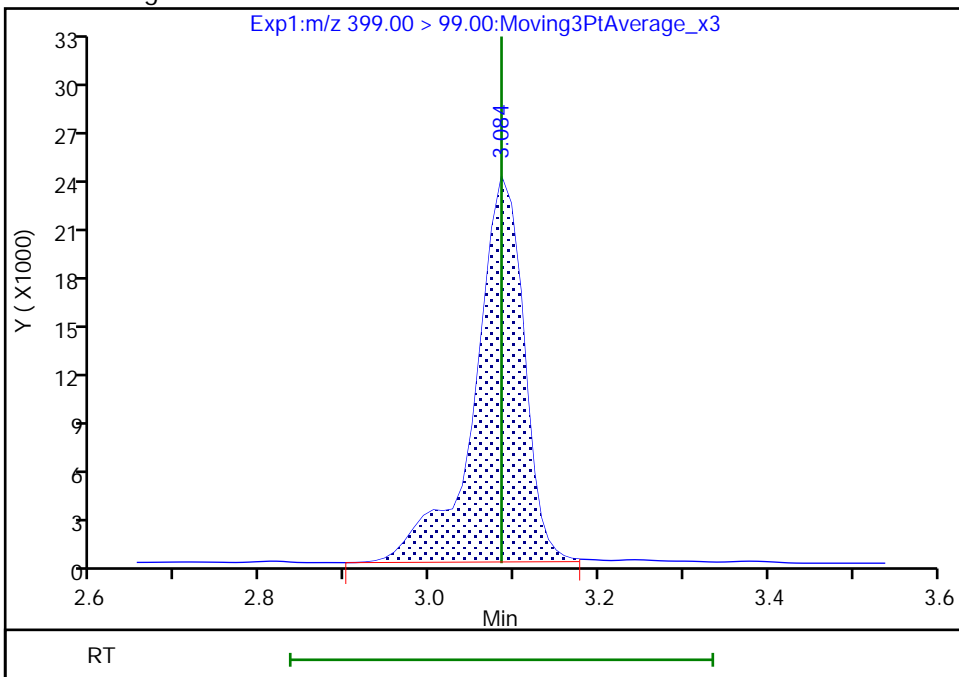
RT: 3.08  
Area: 98593  
Amount: 0.879041  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 98091  
Amount: 0.876503  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:51:20

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

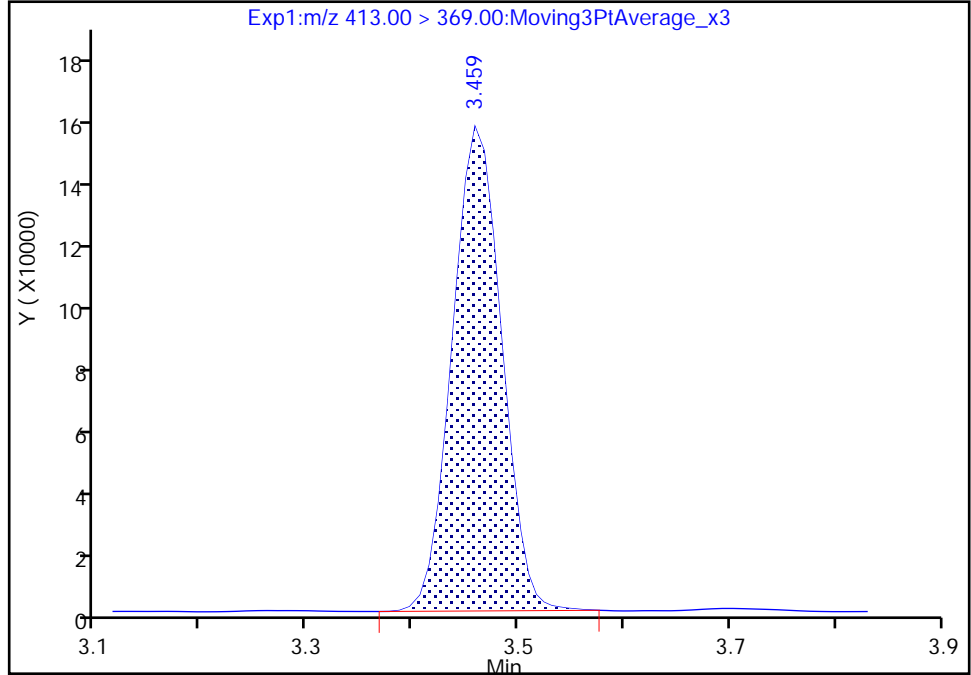
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

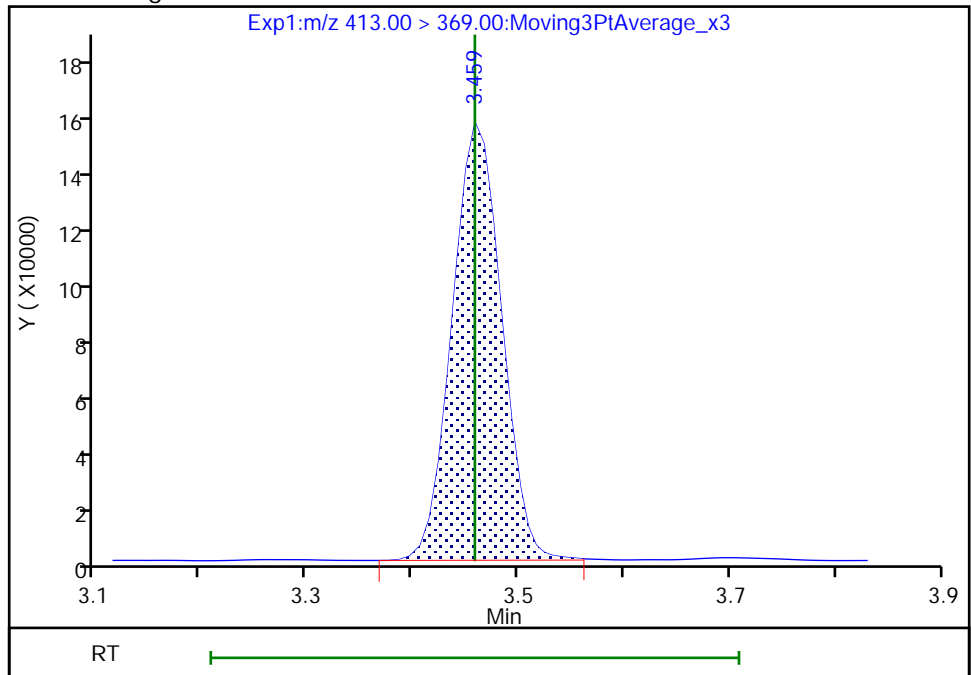
RT: 3.46  
Area: 486728  
Amount: 0.961278  
Amount Units: ng/ml

Processing Integration Results



RT: 3.46  
Area: 487844  
Amount: 0.963483  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:51:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

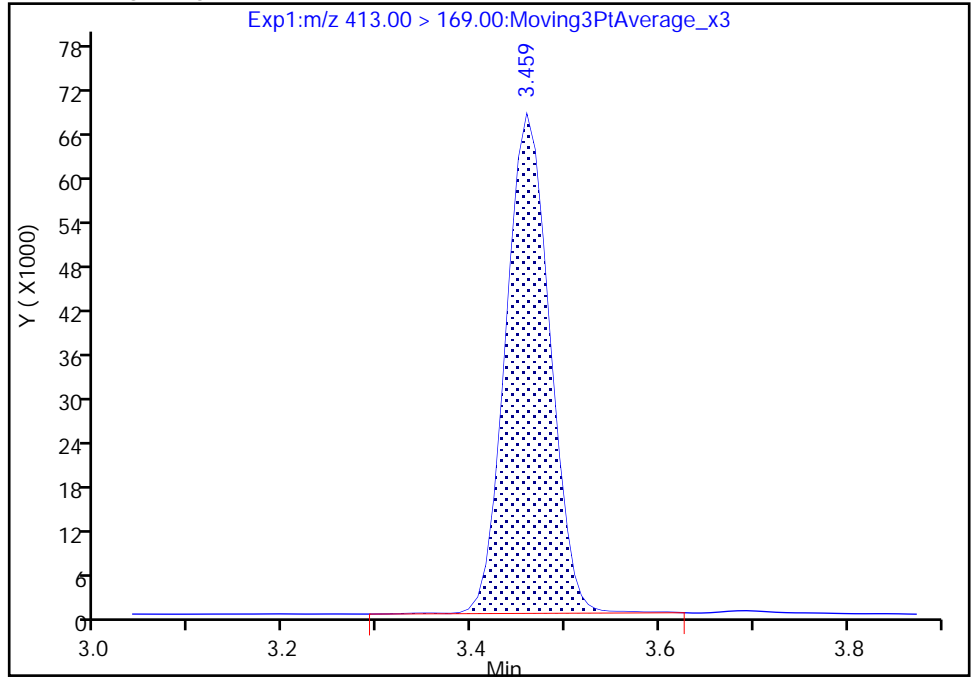
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

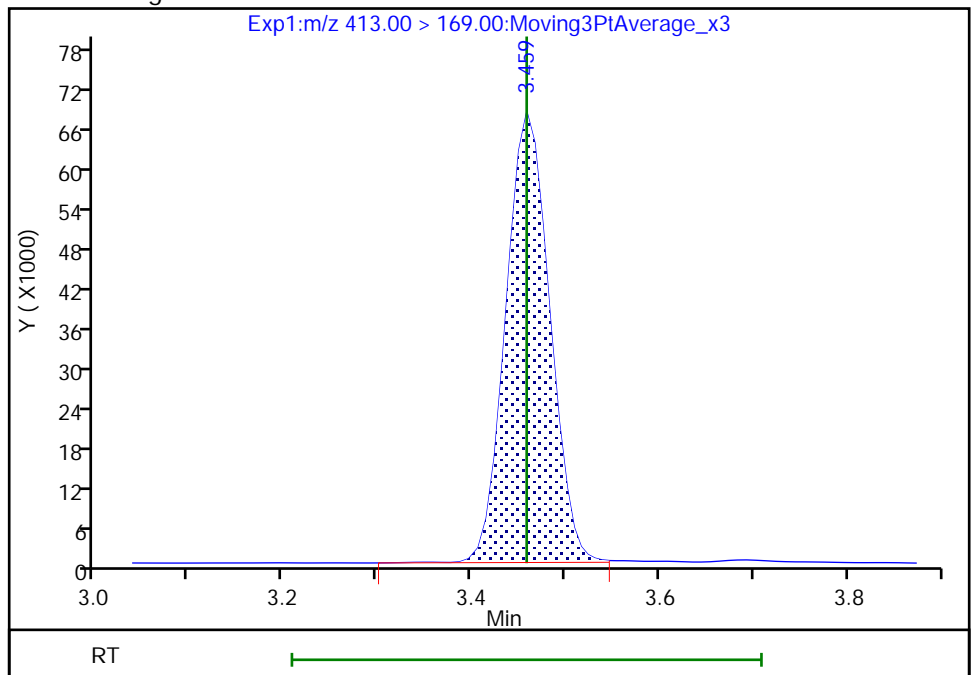
RT: 3.46  
Area: 221448  
Amount: 0.961278  
Amount Units: ng/ml

Processing Integration Results



RT: 3.46  
Area: 221124  
Amount: 0.963483  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:51:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

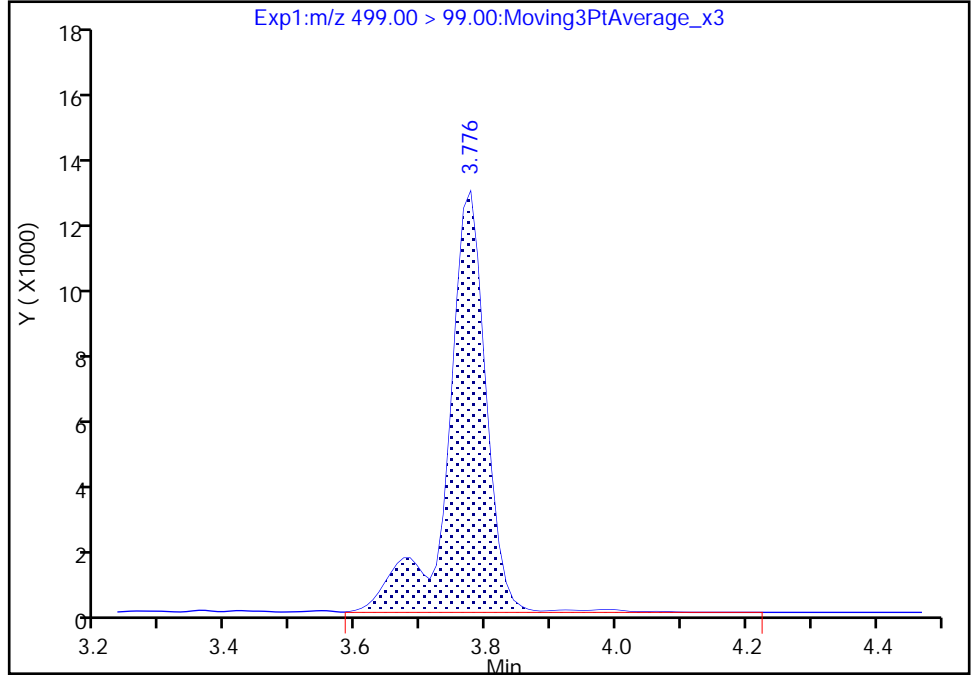
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

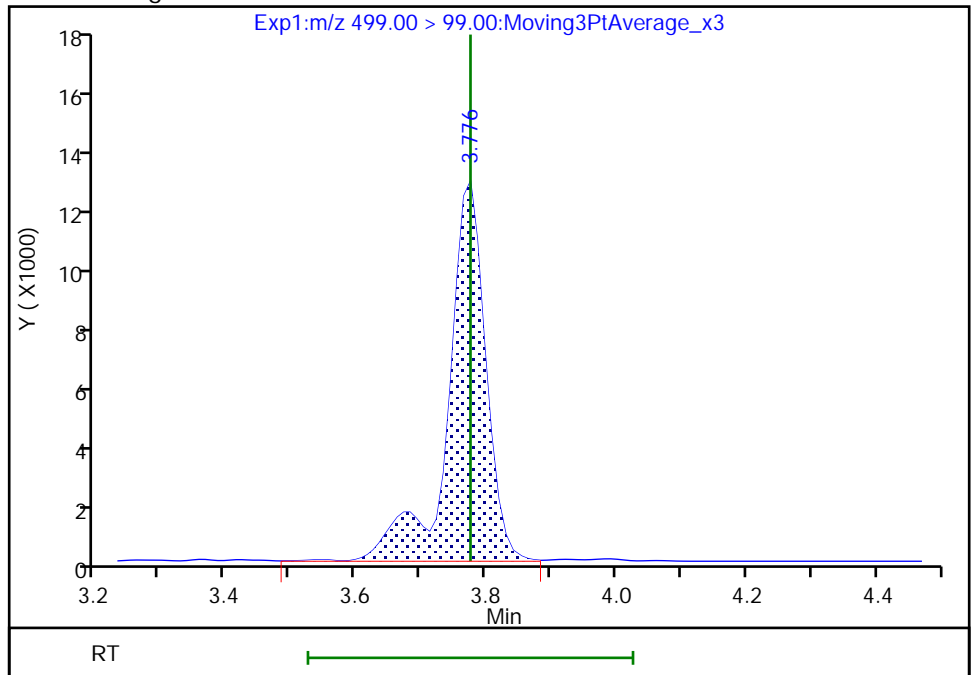
RT: 3.78  
Area: 51583  
Amount: 0.904230  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 51212  
Amount: 0.894332  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:52:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

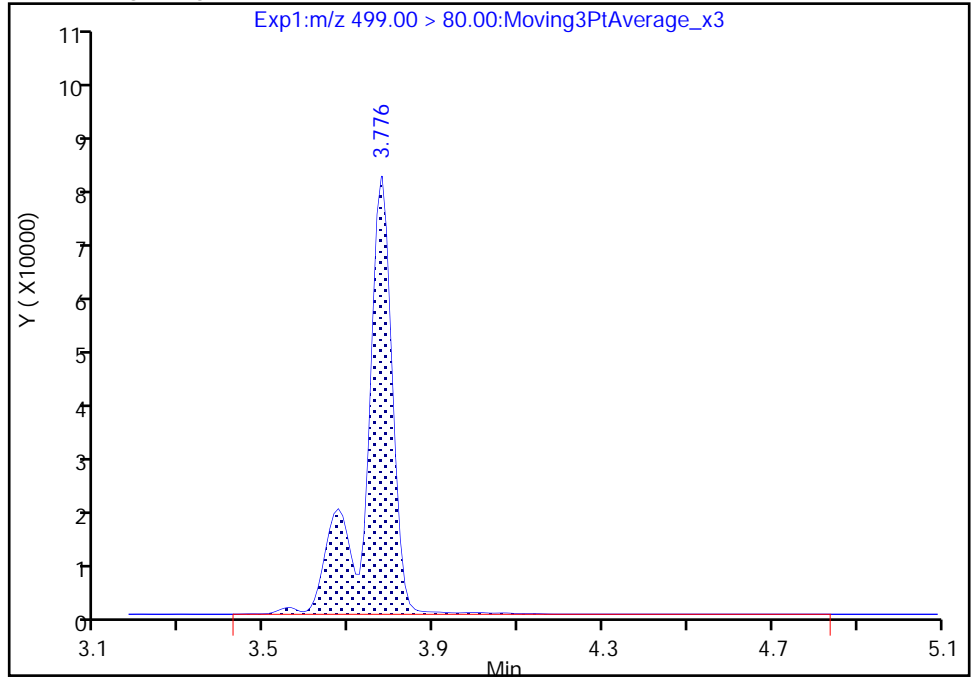
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

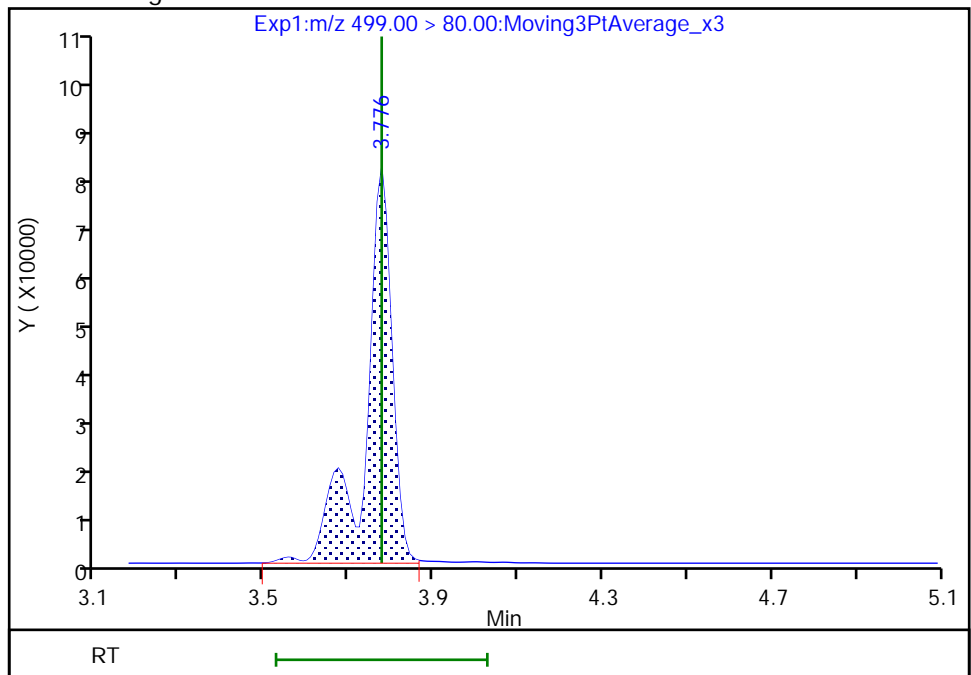
RT: 3.78  
Area: 360104  
Amount: 0.904230  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 356162  
Amount: 0.894332  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:52:33

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

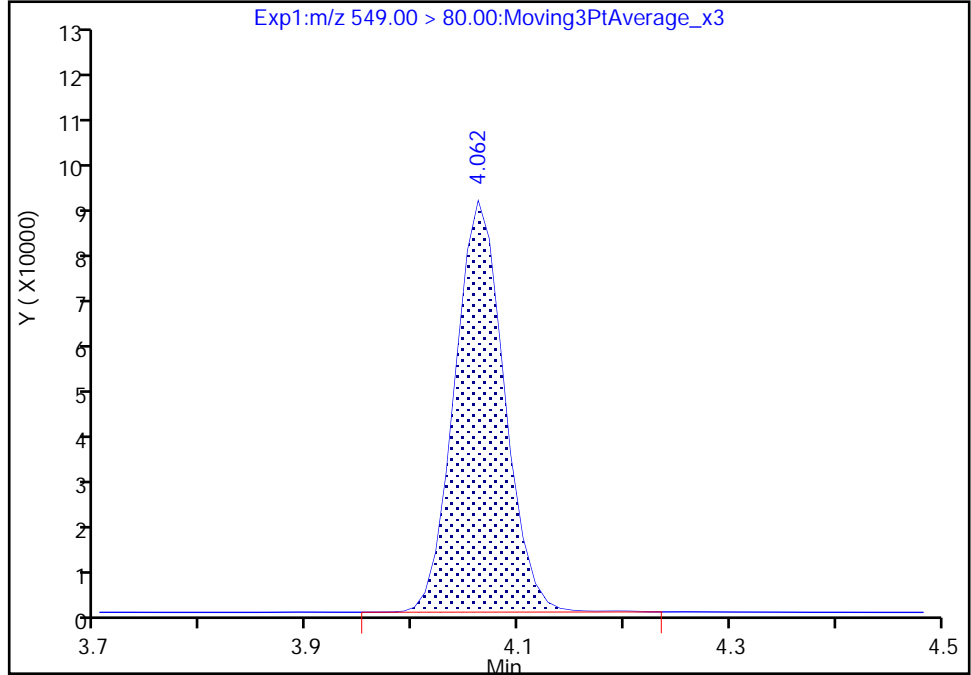
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 1

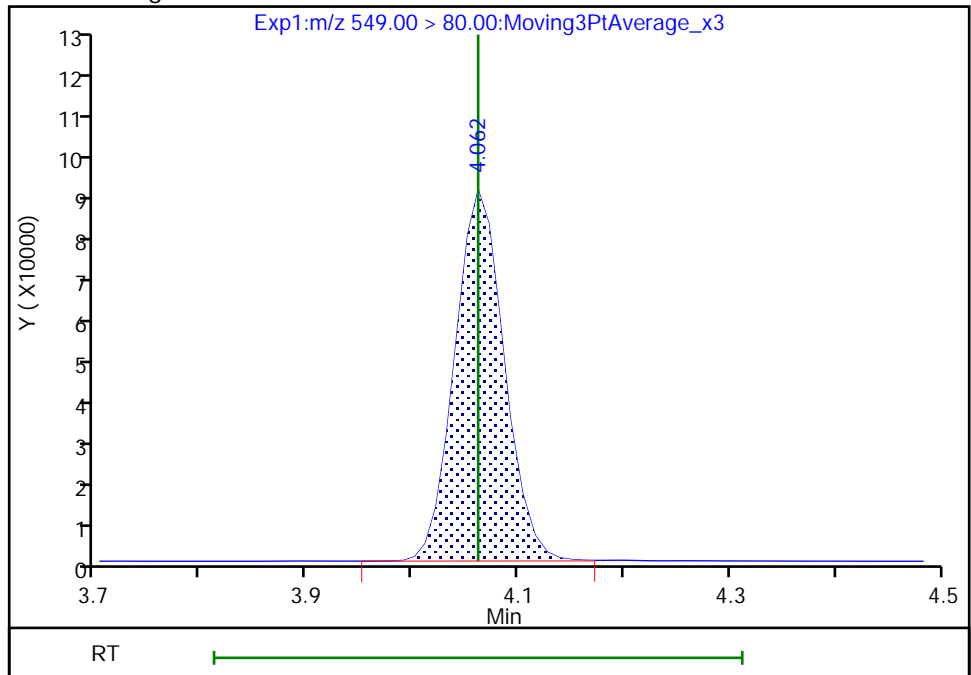
RT: 4.06  
Area: 297244  
Amount: 0.944449  
Amount Units: ng/ml

Processing Integration Results



RT: 4.06  
Area: 296852  
Amount: 0.943204  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:52:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

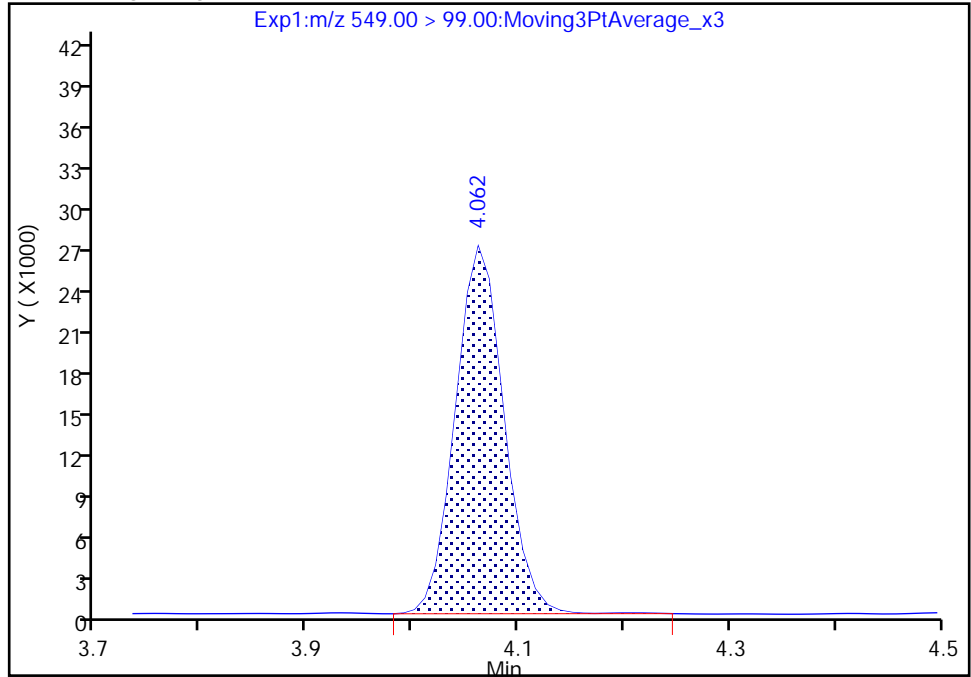
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

68 Perfluoronanesulfonic acid, CAS: 68259-12-1

Signal: 2

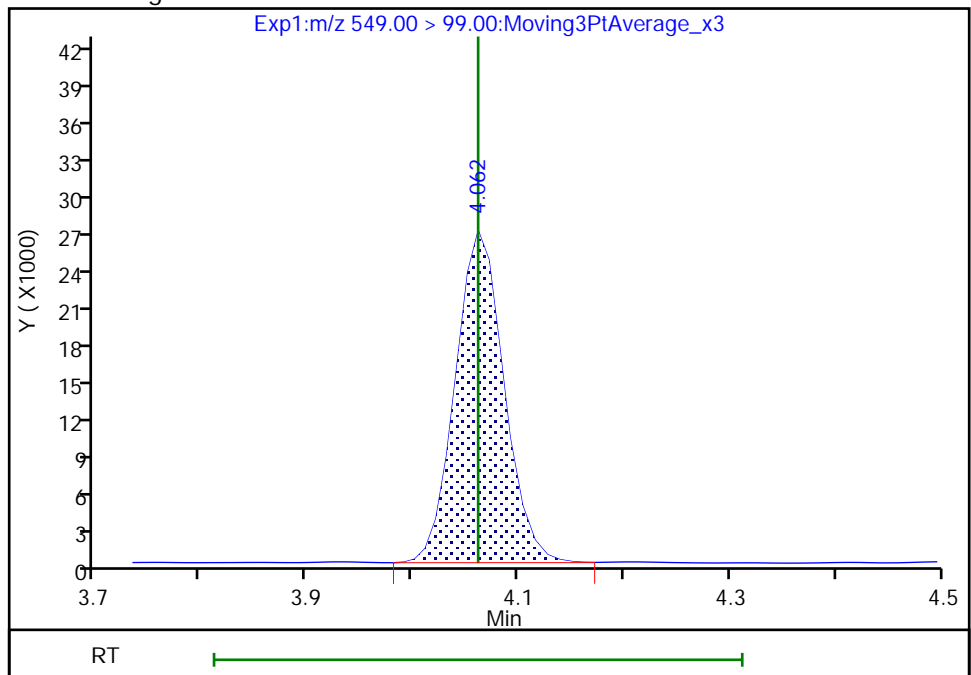
RT: 4.06  
Area: 85654  
Amount: 0.944449  
Amount Units: ng/ml

Processing Integration Results



RT: 4.06  
Area: 85502  
Amount: 0.943204  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:52:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

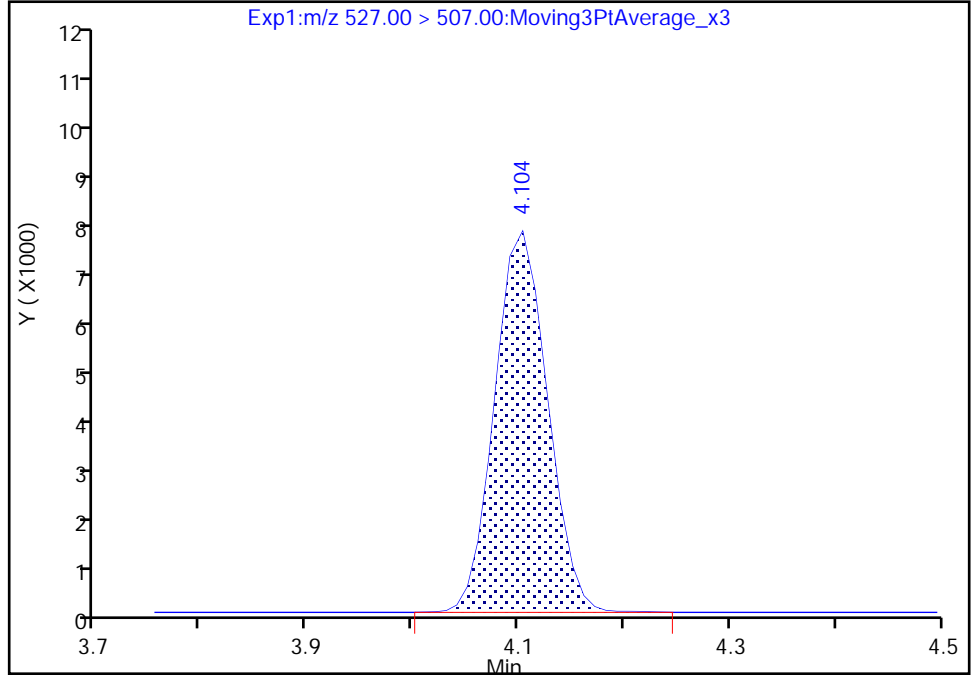
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

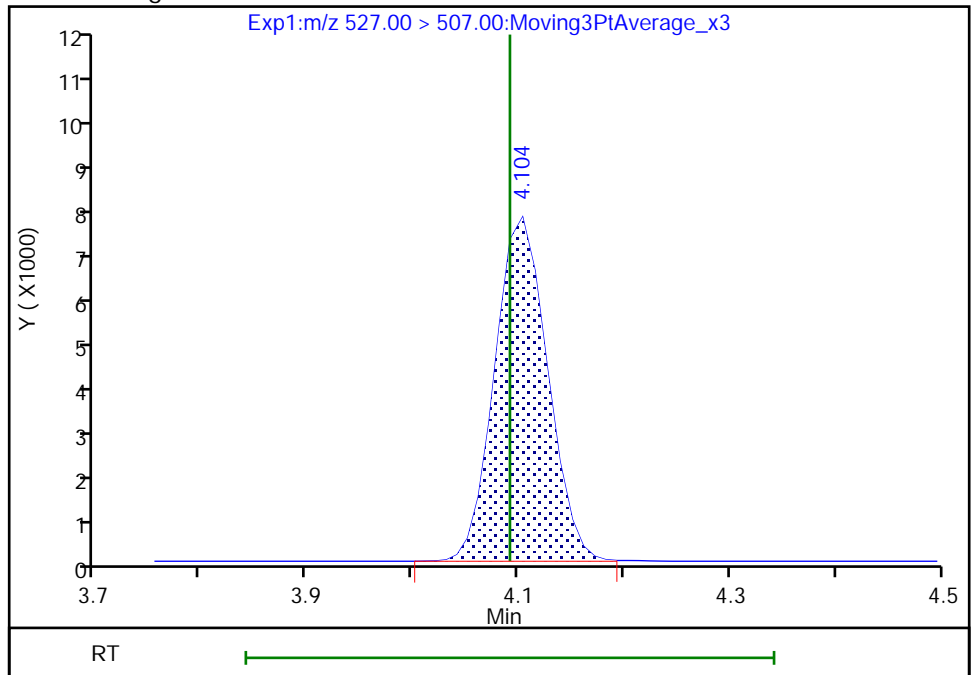
RT: 4.10  
Area: 25484  
Amount: 0.889634  
Amount Units: ng/ml

Processing Integration Results



RT: 4.10  
Area: 25454  
Amount: 0.888587  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:52:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

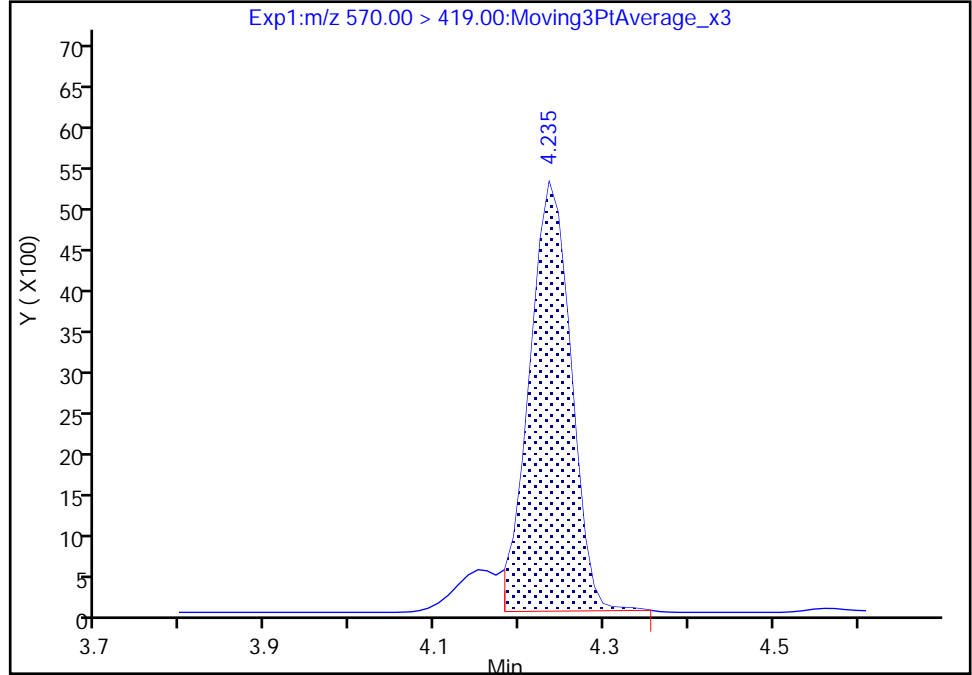
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

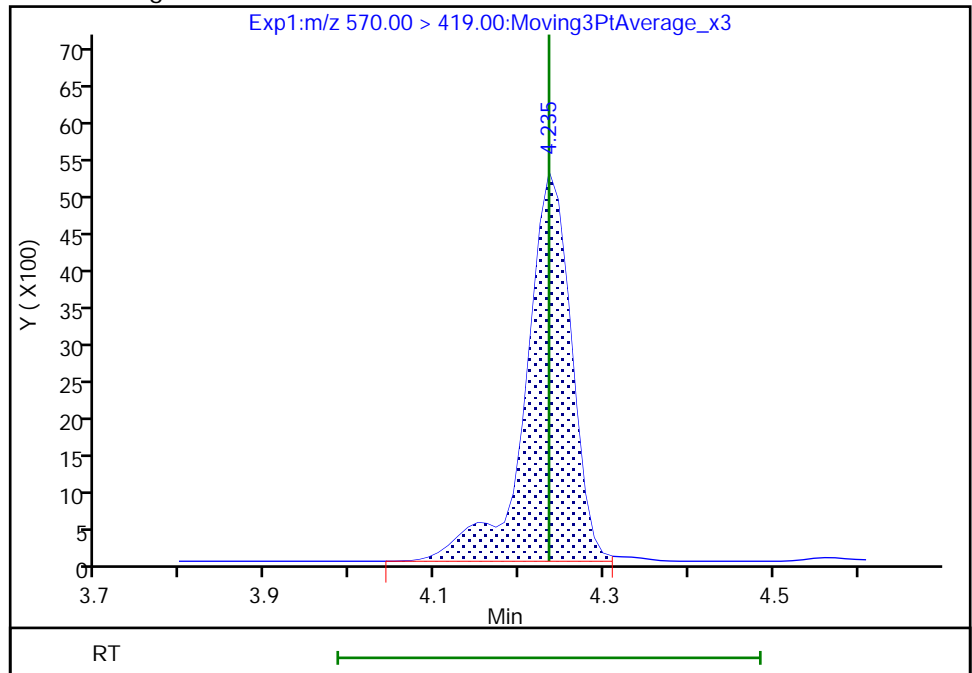
RT: 4.24  
Area: 17862  
Amount: 0.857151  
Amount Units: ng/ml

Processing Integration Results



RT: 4.24  
Area: 19874  
Amount: 0.953702  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:53:11  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

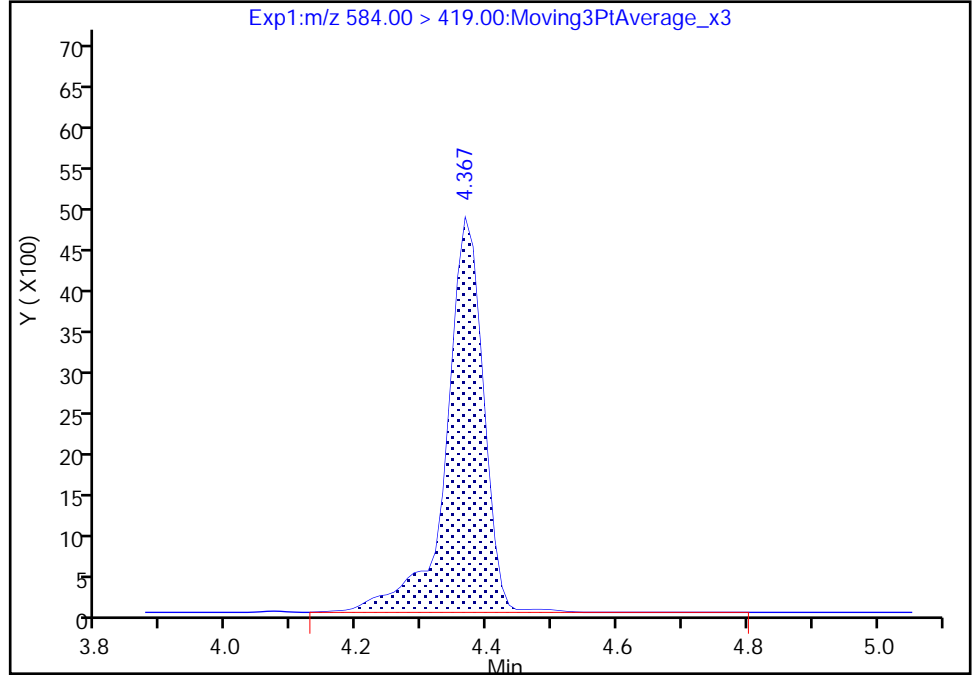
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

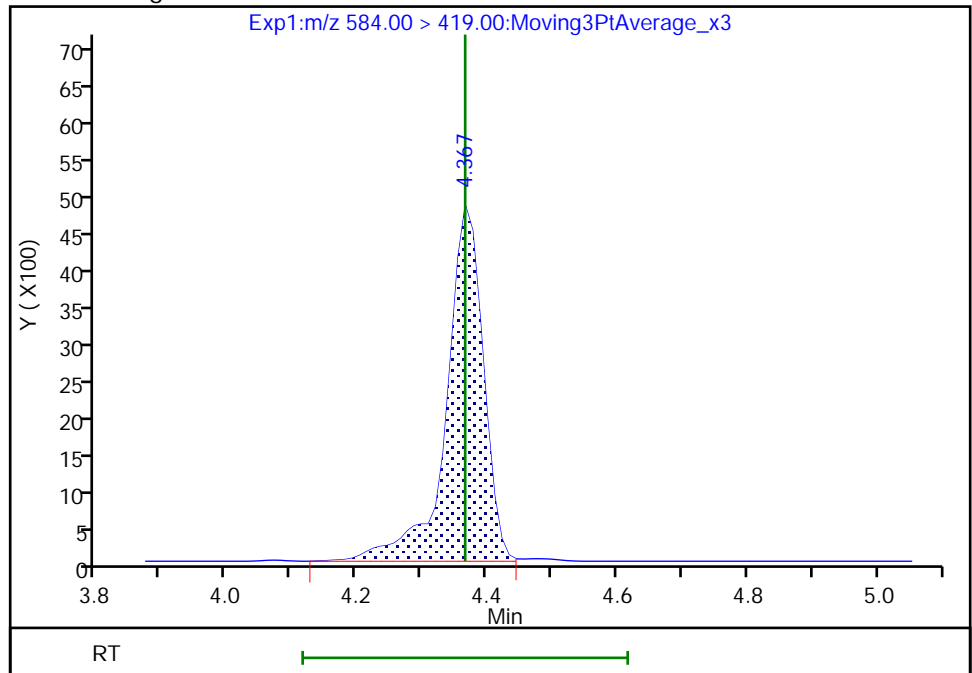
RT: 4.37  
Area: 19148  
Amount: 0.895825  
Amount Units: ng/ml

Processing Integration Results



RT: 4.37  
Area: 19013  
Amount: 0.889509  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:53:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

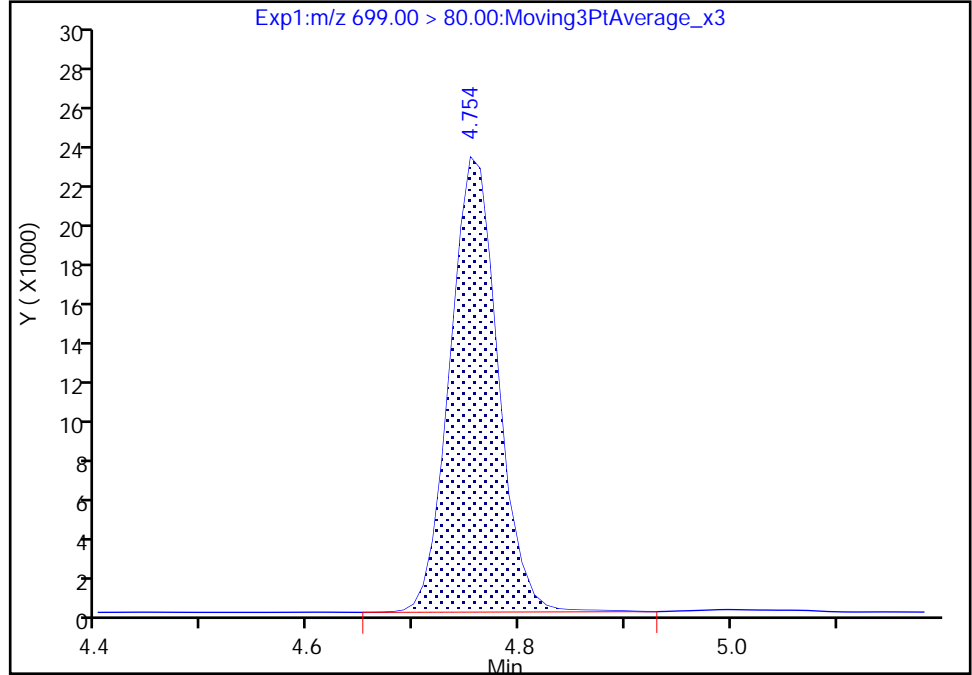
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 1

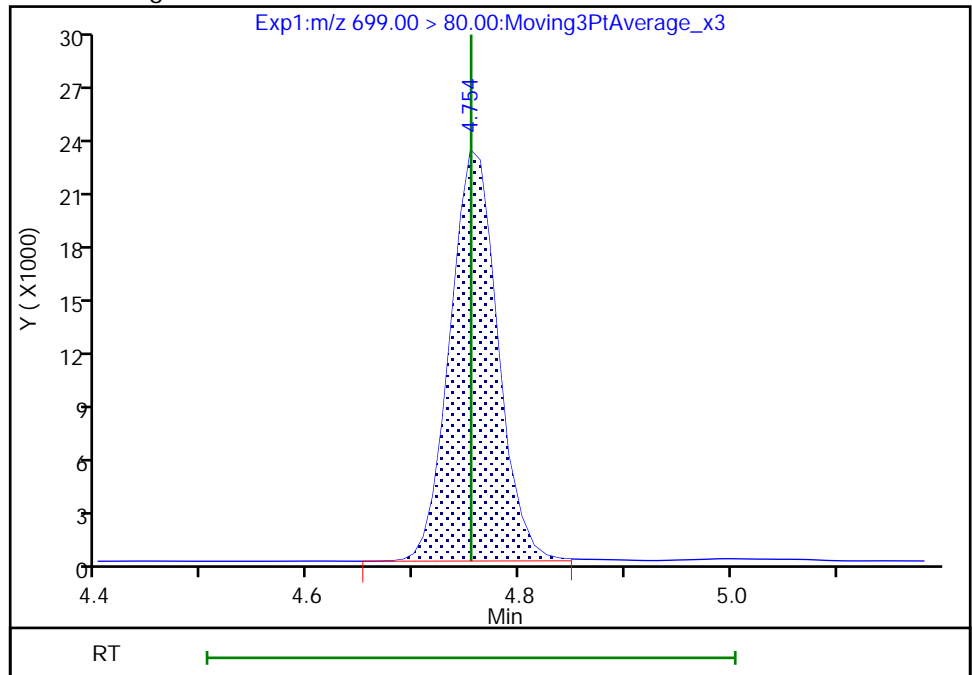
RT: 4.75  
Area: 72593  
Amount: 0.859082  
Amount Units: ng/ml

Processing Integration Results



RT: 4.75  
Area: 72369  
Amount: 0.856431  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:53:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

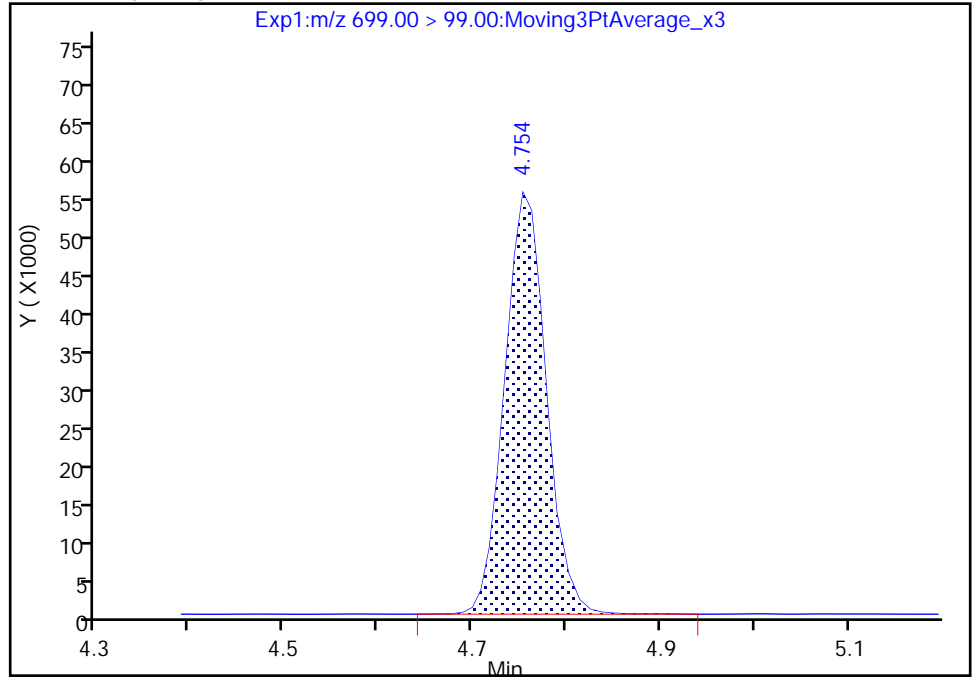
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A33.d  
Injection Date: 01-Oct-2020 22:28:51 Instrument ID: LC812  
Lims ID: CCV L4  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 30 Worklist Smp#: 33  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

75 Perfluorododecanesulfonic acid (, CAS: 79780-39-5

Signal: 2

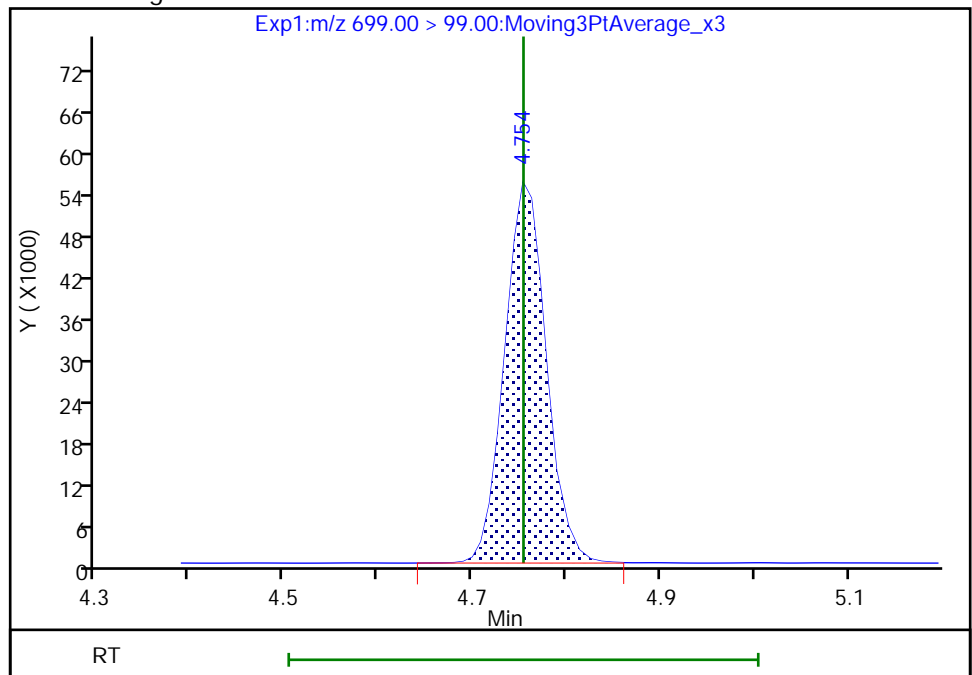
RT: 4.75  
Area: 170251  
Amount: 0.859082  
Amount Units: ng/ml

Processing Integration Results



RT: 4.75  
Area: 170077  
Amount: 0.856431  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 02-Oct-2020 13:53:51

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159470/40 Calibration Date: 10/01/2020 23:26  
 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: PA201001A40.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	0.8690		2.32	2.50	-7.0	40.0
Perfluoropentanoic acid (PFPeA)	AveID	1.056	0.9870		2.34	2.50	-6.5	40.0
Perfluorobutanesulfonic acid (PFBS)	AveID	0.996	1.031		2.29	2.21	3.4	40.0
1H,1H,2H,2H-perfluorohexanesulfonic acid (4:2)	AveID	1.616	1.864		2.69	2.34	15.3	50.0
Perfluorohexanoic acid (PFHxA)	AveID	1.007	0.9865		2.45	2.50	-2.0	40.0
Perfluoropentanesulfonic acid	AveID	1.184	1.218		2.41	2.35	2.8	50.0
HFPO-DA	AveID	2.128	1.726		2.03	2.50	-18.9	40.0
Perfluoroheptanoic acid (PFHpA)	AveID	1.002	0.9553		2.38	2.50	-4.7	40.0
Perfluorohexanesulfonic acid (PFHxS)	AveID	1.104	1.044		2.15	2.28	-5.5	40.0
DONA	AveID	3.081	2.833		2.17	2.36	-8.0	50.0
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	AveID	0.7981	0.7453		2.21	2.37	-6.6	40.0
Perfluoroheptanesulfonic Acid (PFHpS)	AveID	1.159	1.160		2.38	2.38	0.1	50.0
Perfluorooctanoic acid (PFOA)	AveID	1.032	1.017		2.46	2.50	-1.5	40.0
Perfluorooctanesulfonic acid (PFOS)	AveID	1.087	0.9738		2.08	2.32	-10.4	40.0
Perfluorononanoic acid (PFNA)	AveID	1.018	0.9867		2.42	2.50	-3.1	40.0
9-Chlorohexadecafluoro-3-oxanonane-1-sulfonic acid	AveID	0.9564	0.8889		2.17	2.33	-7.1	50.0
Perfluorononanesulfonic acid	AveID	0.8588	0.7881		2.20	2.40	-8.2	50.0
Perfluorodecanoic acid (PFDA)	AveID	0.9894	0.8734		2.21	2.50	-11.7	40.0
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	AveID	0.3958	0.3861		2.34	2.40	-2.5	40.0
Perfluorooctanesulfonamide (PFOSA)	AveID	0.9348	0.8855		2.37	2.50	-5.3	40.0
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	AveID	0.9437	0.8691		2.30	2.50	-7.9	40.0
Perfluorodecanesulfonic acid (PFDS)	AveID	0.7186	0.6813		2.29	2.41	-5.2	50.0
Perfluoroundecanoic acid (PFUnA)	AveID	0.9863	1.031		2.61	2.50	4.6	40.0
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	AveID	0.9155	0.8984		2.45	2.50	-1.9	40.0
11-Chloroeicosafluoro-3-oxaundecane-1-sulfonic acid	AveID	0.8250	0.7486		2.14	2.36	-9.3	50.0
Perfluorododecanoic acid (PFDoA)	AveID	0.9752	1.001		2.56	2.50	2.6	40.0
10:2 FTS	AveID	0.2199	0.1884		2.06	2.41	-14.3	50.0
Perfluorododecanesulfonic acid (PFDoS)	AveID	0.2306	0.1986		2.08	2.42	-13.9	50.0
Perfluorotridecanoic acid (PFTriA)	AveID	0.8282	0.8257		2.49	2.50	-0.3	50.0
Perfluorotetradecanoic acid (PFTeA)	AveID	0.2290	0.2329		2.54	2.50	1.7	40.0

FORM VII  
LCMS CONTINUING CALIBRATION DATA

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Lab Sample ID: CCV 200-159470/40 Calibration Date: 10/01/2020 23:26  
 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: PA201001A40.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		0.8334		2.37	2.50	-5.0	40.0
Perfluoro-n-octadecanoic acid (PFODA)	AveID	0.7473	0.6671		2.23	2.50	-10.7	50.0
13C4 PFBA	Ave	1.433	1.463		1.28	1.25	2.1	50.0
13C5 PFPeA	Ave	1.027	1.008		1.23	1.25	-1.9	50.0
13C3 PFBS	Ave	1.251	1.200		1.12	1.16	-4.0	50.0
M2-4:2 FTS	Ave	0.0939	0.0865		1.07	1.17	-8.0	50.0
13C2 PFHxA	Ave	1.058	1.049		1.24	1.25	-0.8	50.0
13C3 HFPO-DA	Ave	0.0985	0.1205		1.53	1.25	22.3	50.0
13C4 PFHpA	Ave	0.9620	0.9604		1.25	1.25	-0.2	50.0
18O2 PFHxS	Ave	0.8974	0.8979		1.18	1.18	0.0	50.0
M2-6:2 FTS	Ave	0.1199	0.1201		1.19	1.19	0.1	50.0
13C4 PFOA	Ave	0.9845	0.9359		1.19	1.25	-4.9	50.0
13C4 PFOS	Ave	0.7341	0.7685		1.25	1.20	4.7	50.0
13C5 PFNA	Ave	0.8296	0.8273		1.25	1.25	-0.3	50.0
13C2 PFDA	Ave	0.7956	0.8019		1.26	1.25	0.8	50.0
M2-8:2 FTS	Ave	0.1413	0.1342		1.14	1.20	-5.0	50.0
13C8 FOSA	Ave	1.282	1.246		1.21	1.25	-2.8	50.0
d3-NMeFOSAA	Ave	0.0453	0.0441		1.22	1.25	-2.5	50.0
13C2 PFUnA	Ave	0.6006	0.5322		1.11	1.25	-11.4	50.0
d5-NEtFOSAA	Ave	0.0487	0.0431		1.11	1.25	-11.5	50.0
13C2 PFDoA	Ave	0.6348	0.5256		1.04	1.25	-17.2	50.0
13C2 PFTeDA	Ave	0.4522	0.3793		1.05	1.25	-16.1	50.0
13C2 PFHxDA	Ave	0.5124	0.3853		0.940	1.25	-24.8	50.0

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A40.d  
 Lims ID: CCV L5  
 Client ID:  
 Sample Type: CCV  
 Inject. Date: 01-Oct-2020 23:26:46 ALS Bottle#: 37 Worklist Smp#: 40  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: CCV L5  
 Misc. Info.: 200-0043055-040 Plate: 1 Rack: 1  
 Operator ID: lc812tech Instrument ID: LC812  
 Sublist: chrom-PFC\_LC812\*sub3  
 Method: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 02-Oct-2020 15:16:48 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: CTX1005  
 First Level Reviewer: manopan Date: 02-Oct-2020 13:55:11  
 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	0.578	1033263	1.28	102	15276	
2 Perfluorobutanoic acid										M
212.90 > 169.00	2.000	2.000	0.0	1.000	1795798	2.32		93.0	580	M
D 3 13C5 PFPeA	267.90 > 223.00	2.339	2.326	0.013	0.676	711542	1.23	98.1	2933	
4 Perfluoropentanoic acid										
262.90 > 219.00	2.339	2.326	0.013	1.000	1404526	2.34		93.5	99.5	
D 47 13C3 PFBS	301.90 > 80.00	2.353	2.353	0.0	0.680	788200	1.12	96.0	289812	
5 Perfluorobutanesulfonic acid										
298.90 > 80.00	2.353	2.353	0.0	1.000	1544388	2.29	Target=2.07	103	4484	
298.90 > 99.00	2.353	2.353	0.0	1.000	766470		2.01(1.04-3.11)		1234	
D 60 M2-4:2 FTS	329.00 > 81.00	2.678	2.666	0.012	0.774	57018	1.07	92.0	127	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.678	2.666	0.012	1.000	212522	2.69		115	2669	
D 7 13C2 PFHxA	315.00 > 270.00	2.716	2.703	0.013	0.785	741006	1.24	99.2	3309	
6 Perfluorohexanoic acid										
313.00 > 269.00	2.716	2.703	0.013	1.000	1462061	2.45	Target=12.44	98.0	757	
313.00 > 119.00	2.716	2.703	0.013	1.000	123943		11.80(6.22-18.66)		196	
70 Perfluoropentanesulfonic acid										
349.00 > 80.00	2.716	2.716	0.0	0.877	1448347	2.41	Target=3.64	103	3218	
349.00 > 99.00	2.716	2.716	0.0	0.877	440190		3.29(1.82-5.46)		1906	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.826	2.818	0.008	0.817	85119	1.53	122	1417	

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	2.818	0.008	1.000	293890	2.03		81.1	80.9	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.096	3.085	0.012	0.895	599783	1.18		100	1285	
8 Perfluorohexanesulfonic acid										
399.00 > 80.00	3.096	3.085	0.012	1.000	1204676	2.15	Target=4.60	94.5	6202	
399.00 > 99.00	3.096	3.085	0.012	1.000	272278		4.42(2.30-6.91)		721	
D 9 13C4 PFHpA										
367.00 > 322.00	3.096	3.085	0.012	0.895	678175	1.25		99.8	2429	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.096	3.085	0.012	1.000	1295677	2.38	Target=3.34	95.3	970	
363.00 > 169.00	3.096	3.085	0.012	1.000	405578		3.19(1.67-5.01)		1258	
77 DONA										
377.00 > 251.00	3.132	3.124	0.008	0.829	2897037	2.17	Target=2.44	92.0	5884	
377.00 > 85.00	3.132	3.124	0.008	0.829	1227123		2.36(1.22-3.67)		3209	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.450	3.441	0.009	0.914	1198441	2.38	Target=7.08	100	4761	
449.00 > 99.00	3.450	3.441	0.009	0.914	170757		7.02(3.54-10.63)		1074	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.450	3.450	0.0	1.000	119797	2.21		93.4	826	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.450	3.450	0.0	0.997	80538	1.19		100	743	
D 14 13C4 PFOA										
417.00 > 372.00	3.458	3.459	-0.001	1.000	660846	1.19		95.1	2619	
* 62 13C2 PFOA										
415.00 > 370.00	3.458	3.459	-0.001		706140	1.25			3108	
15 Perfluorooctanoic acid										
413.00 > 369.00	3.467	3.459	0.008	1.003	1343722	2.46	Target=2.29	98.5	795	
413.00 > 169.00	3.467	3.459	0.008	1.003	599770		2.24(1.14-3.43)		1531	
D 18 13C4 PFOS										
503.00 > 80.00	3.776	3.766	0.010	1.092	518818	1.25		105	2110	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.776	3.776	0.0	1.000	980876	2.08	Target=7.10	89.6	1278	M
499.00 > 99.00	3.776	3.776	0.0	1.000	144313		6.80(3.55-10.64)		728	M
D 19 13C5 PFNA										
468.00 > 423.00	3.797	3.786	0.011	1.098	584171	1.25		99.7	4468	
20 Perfluorononanoic acid										
463.00 > 419.00	3.797	3.797	0.0	1.000	1152811	2.42	Target=5.83	96.9	584	
463.00 > 169.00	3.797	3.797	0.0	1.000	193448		5.96(2.91-8.74)		3440	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.941	3.932	0.009	1.044	899168	2.17		92.9	7329	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.062	4.062	0.0	1.076	821207	2.20	Target=3.38	91.8	6533	
549.00 > 99.00	4.062	4.062	0.0	1.076	236243		3.48(1.69-5.08)		1310	
D 23 13C2 PFDA										
515.00 > 470.00	4.092	4.092	0.0	1.183	566271	1.26		101	4543	



Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.092	4.092	0.0	1.000	989127	2.21	Target=6.81	88.3	1828	
513.00 > 169.00	4.092	4.092	0.0	1.000	151479		6.53(3.41-10.22)		1641	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.104	4.092	0.012	1.000	70126	2.34		97.5	1402	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.104	4.092	0.012	1.187	90802	1.14		95.0	991	
D 21 13C8 FOSA										
506.00 > 78.00	4.151	4.151	0.0	1.200	879604	1.21		97.2	2774	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.151	4.151	0.0	1.000	1557765	2.37		94.7	1869	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.235	4.235	0.0	1.224	31173	1.22		97.5	64.4	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.235	4.235	0.0	1.000	54186	2.30		92.1	384	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.332	4.321	0.011	1.147	712852	2.29	Target=3.31	94.8	1986	
599.00 > 99.00	4.332	4.321	0.011	1.147	224879		3.17(1.66-4.97)		1802	
D 30 13C2 PFUnA										
565.00 > 520.00	4.355	4.355	0.0	1.259	375775	1.11		88.6	2279	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.355	4.355	0.0	1.000	775024	2.61	Target=6.57	105	1205	
563.00 > 169.00	4.355	4.355	0.0	1.000	111223		6.97(3.28-9.85)		2160	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.366	4.366	0.0	1.262	30442	1.11		88.5	632	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.378	4.366	0.012	1.003	54699	2.45		98.1	1048	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.444	4.444	0.0	1.177	765399	2.14		90.7	5002	
D 36 13C2 PFDaA										
615.00 > 570.00	4.585	4.585	0.0	1.326	371138	1.04		82.8	3112	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.585	4.585	0.0	1.000	742665	2.56	Target=5.16	103	970	
613.00 > 169.00	4.585	4.585	0.0	1.000	164966		4.50(2.58-7.75)		2767	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.610	4.597	0.013	1.123	34437	2.06		85.7	1660	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.763	4.754	0.009	1.261	208618	2.08	Target=0.45	86.1	1554	
699.00 > 99.00	4.763	4.754	0.009	1.261	450914		0.46(0.22-0.67)		3339	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.802	4.790	0.012	1.047	612924	2.49	Target=3.30	99.7	522	
663.00 > 169.00	4.802	4.790	0.012	1.047	199545		3.07(1.65-4.95)		2712	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.988	4.988	0.0	1.442	267824	1.05		83.9	3172	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.988	4.988	0.0	1.000	124737	2.54	Target=1.06	102	2220	
713.00 > 219.00	4.988	4.988	0.0	1.000	124176		1.00(0.53-1.59)		4341	

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	1.550	272103	0.9399		75.2	3071	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.361	5.350	0.011	1.000	453562	2.37	Target=3.06	95.0	368	
813.00 > 169.00	5.361	5.350	0.011	1.000	169577		2.67(1.53-4.58)		3913	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.729	5.711	0.018	1.069	363045	2.23	Target=2.82	89.3	440	
913.00 > 169.00	5.720	5.711	0.009	1.067	131085		2.77(1.41-4.24)		877	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

**Reagents:**

PFAS32NCIC5\_00011

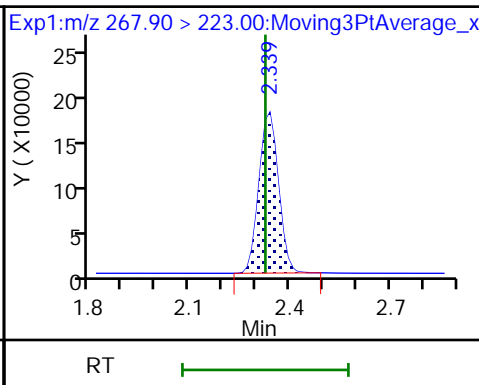
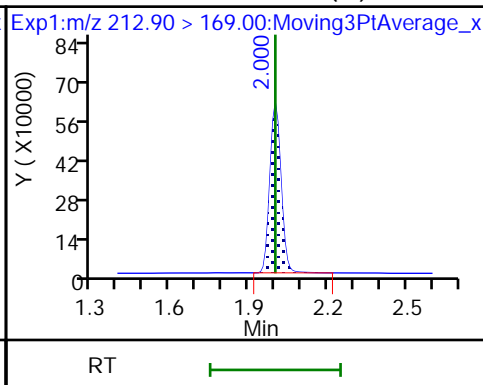
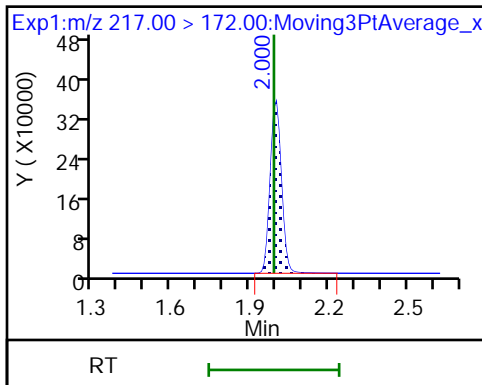
Amount Added: 100.00

Units: uL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

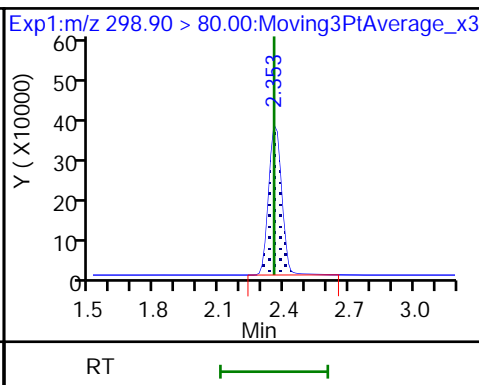
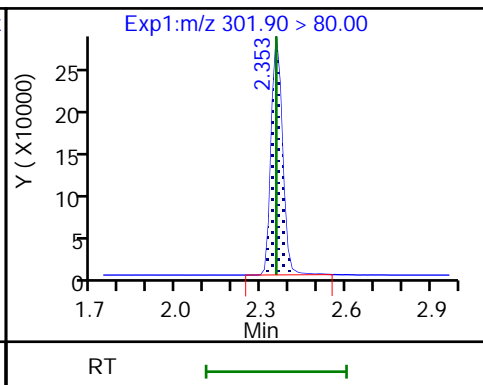
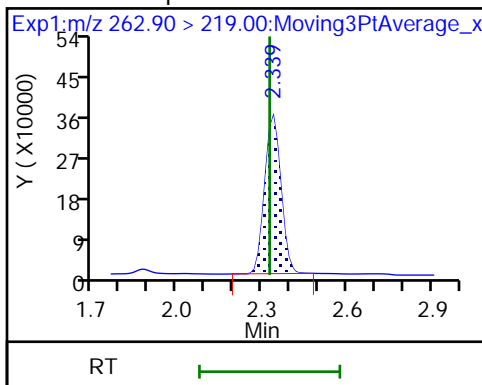
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

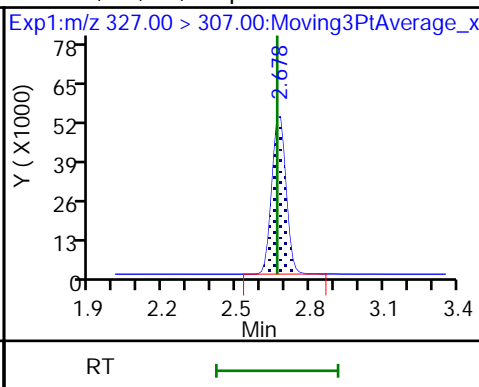
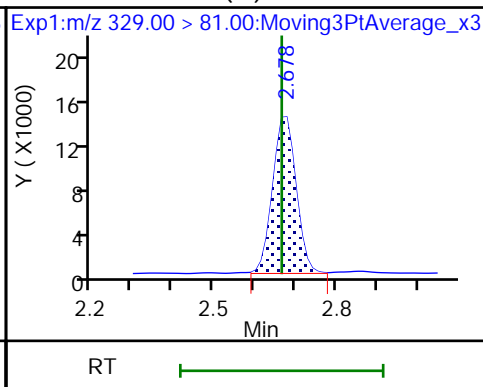
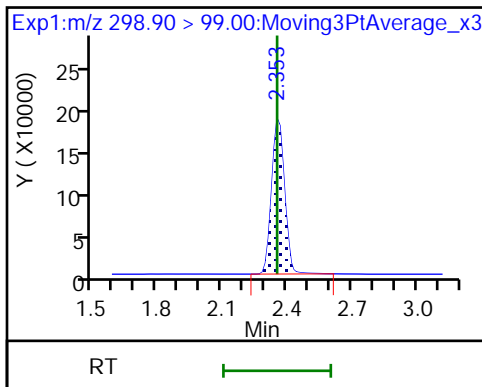
5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS (M)

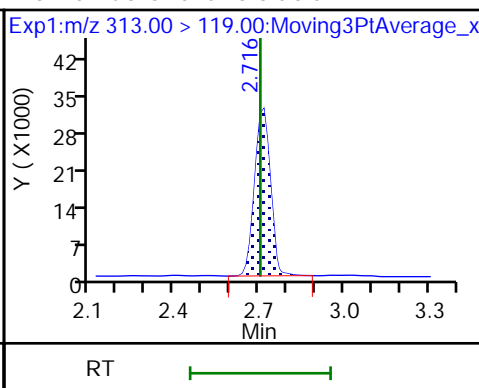
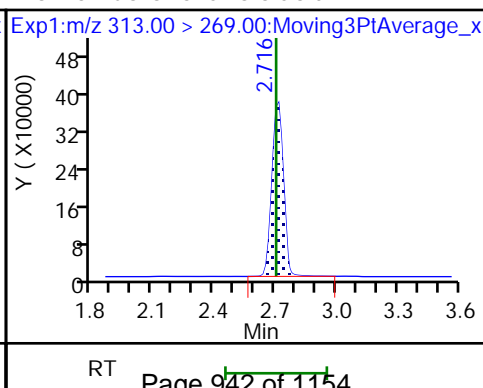
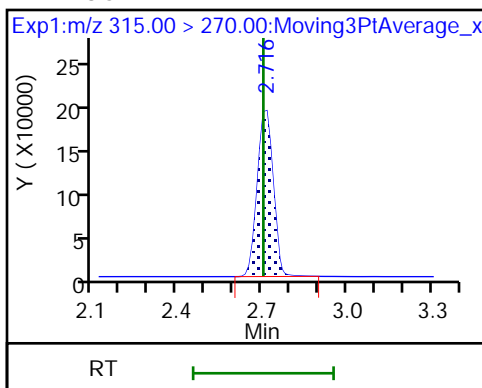
61 1H,1H,2H,2H-perfluorohexanesulfo

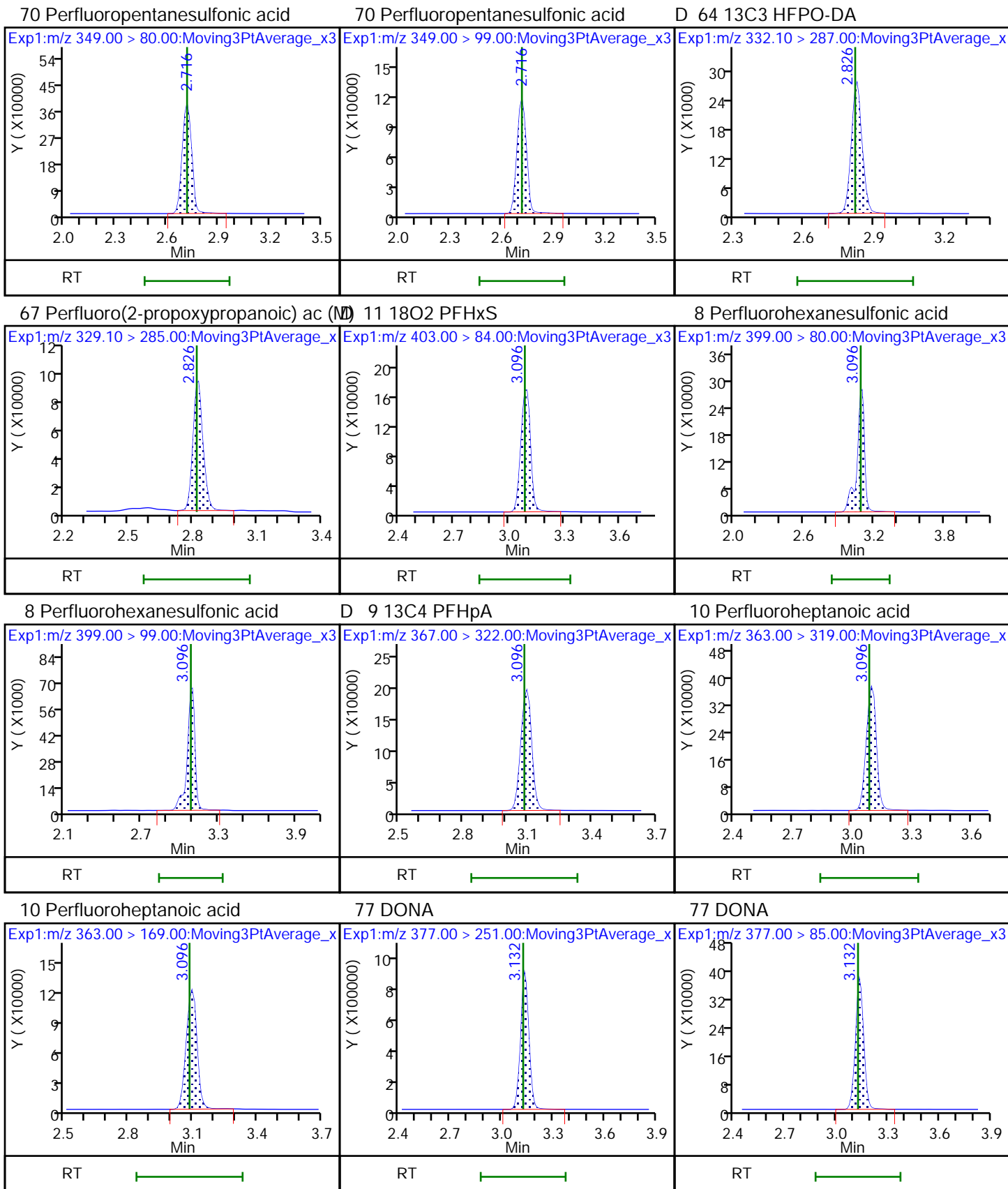


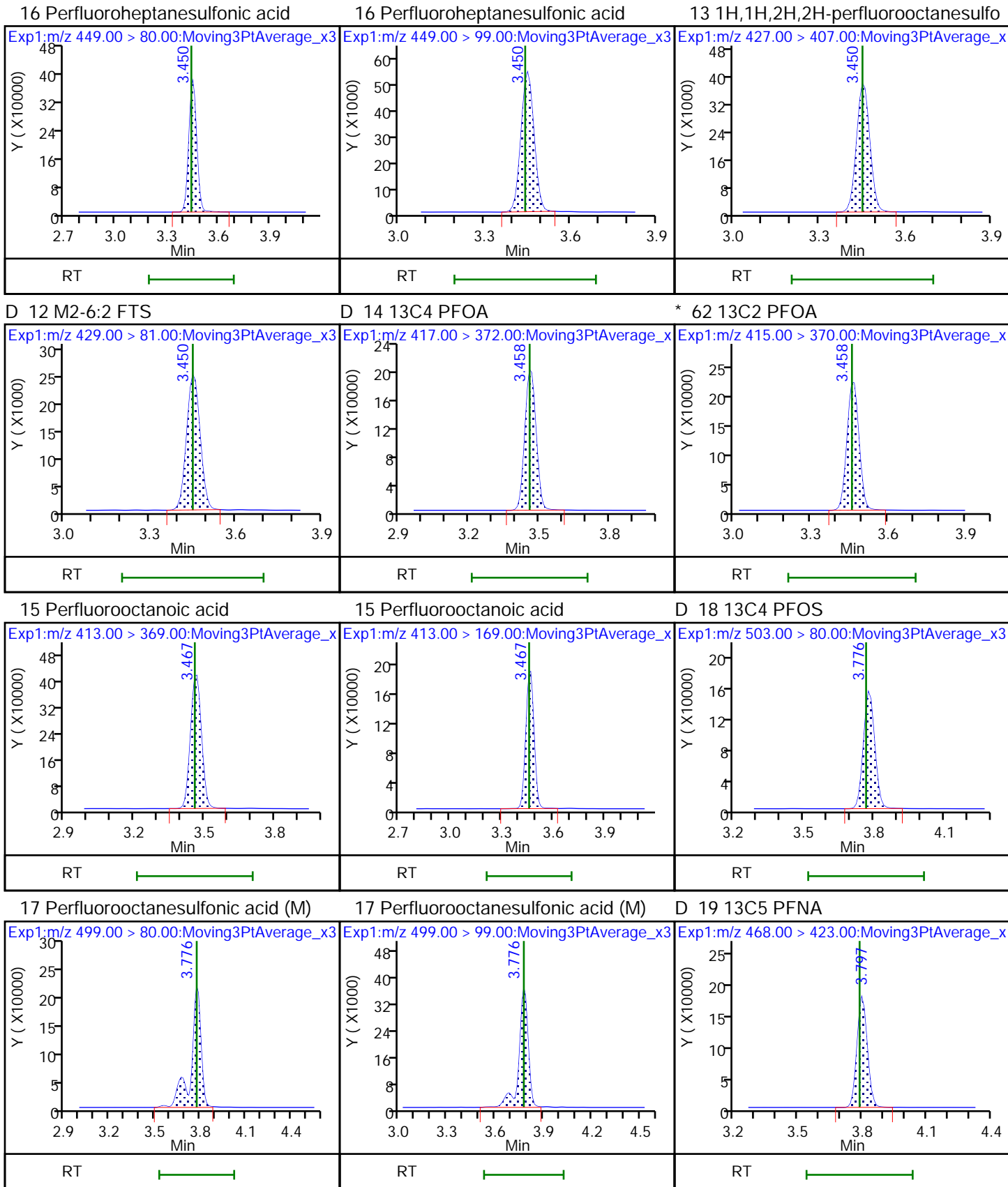
D 7 13C2 PFHxA

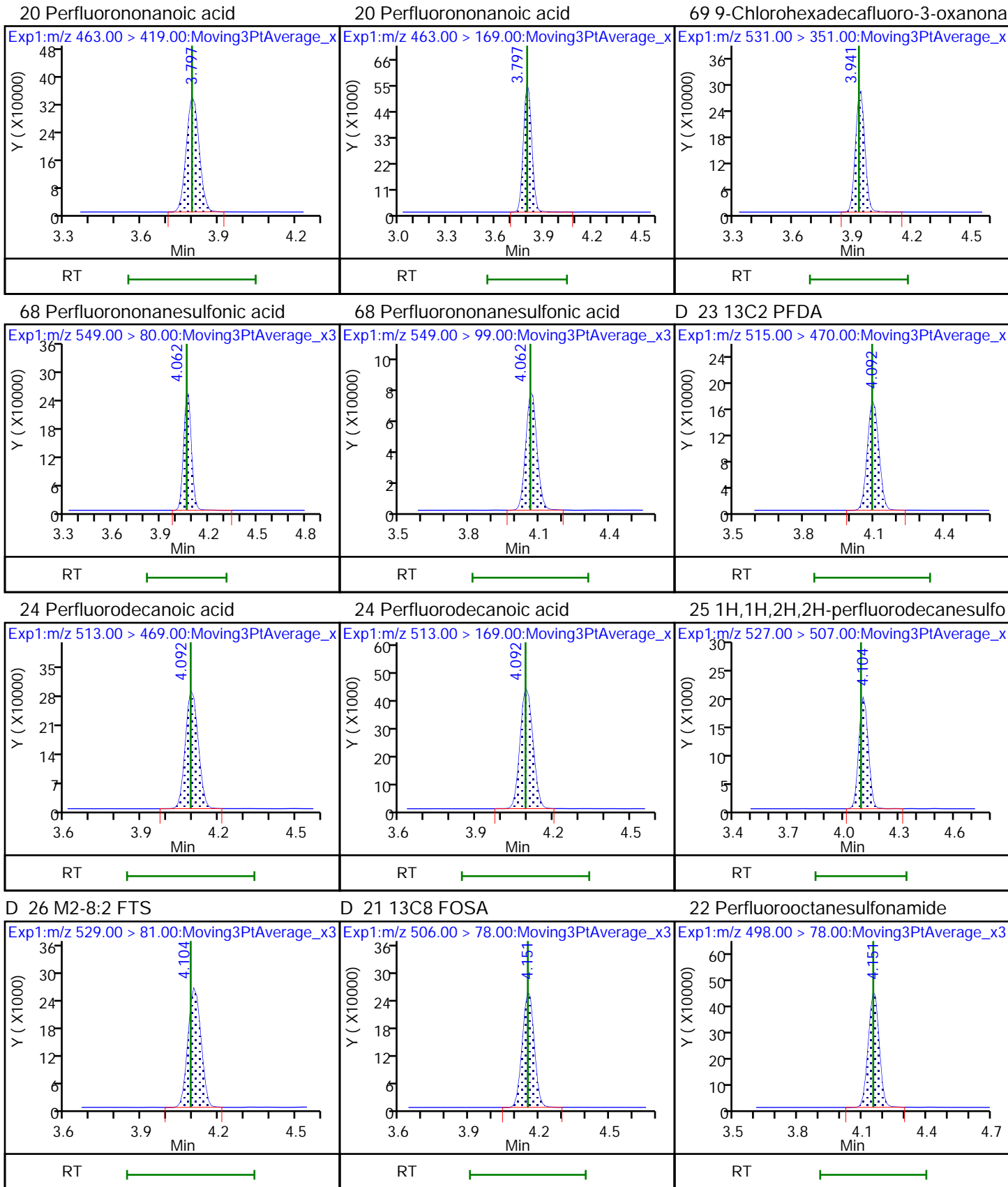
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid



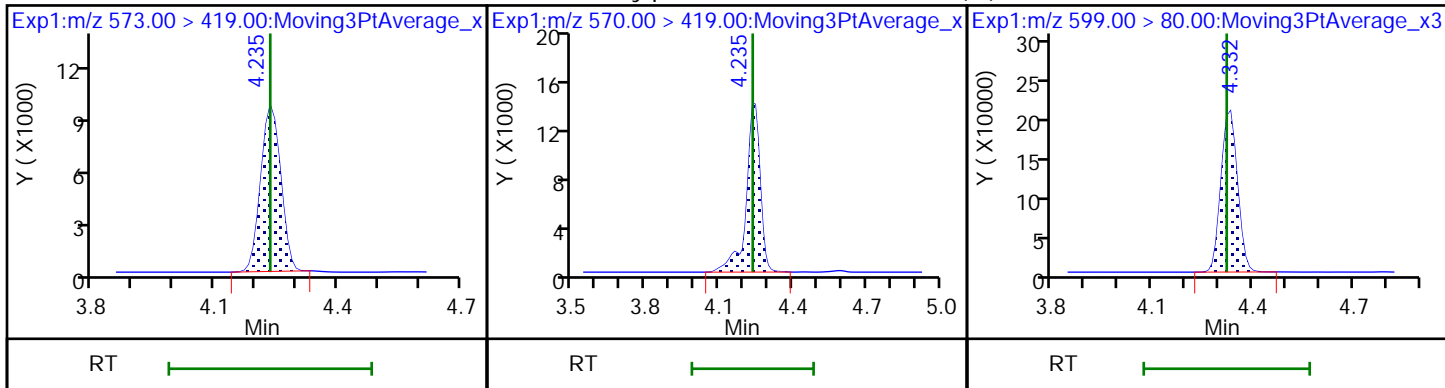






D 27 d3-NMeFOSAA

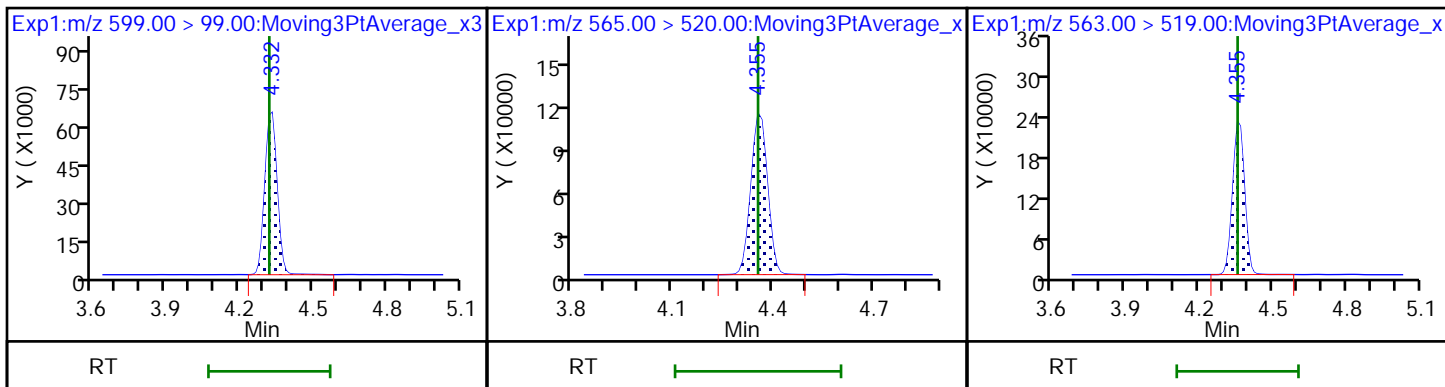
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

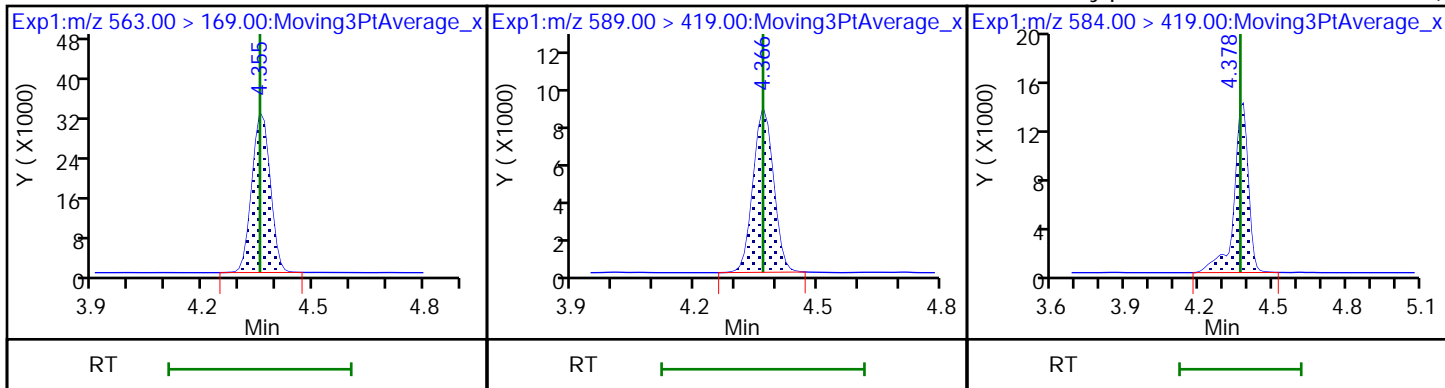
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

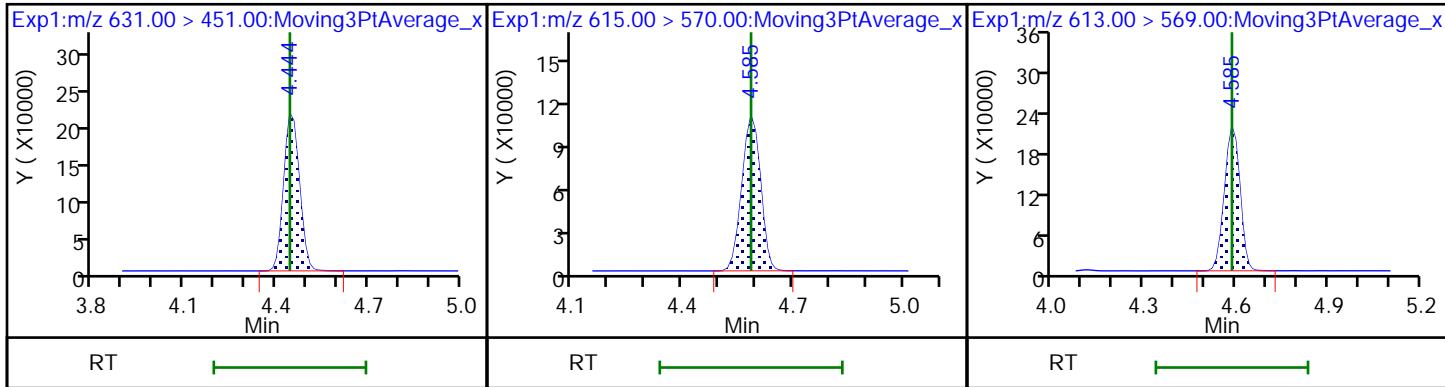
33 N-ethylperfluorooctanesulfonamid (M)

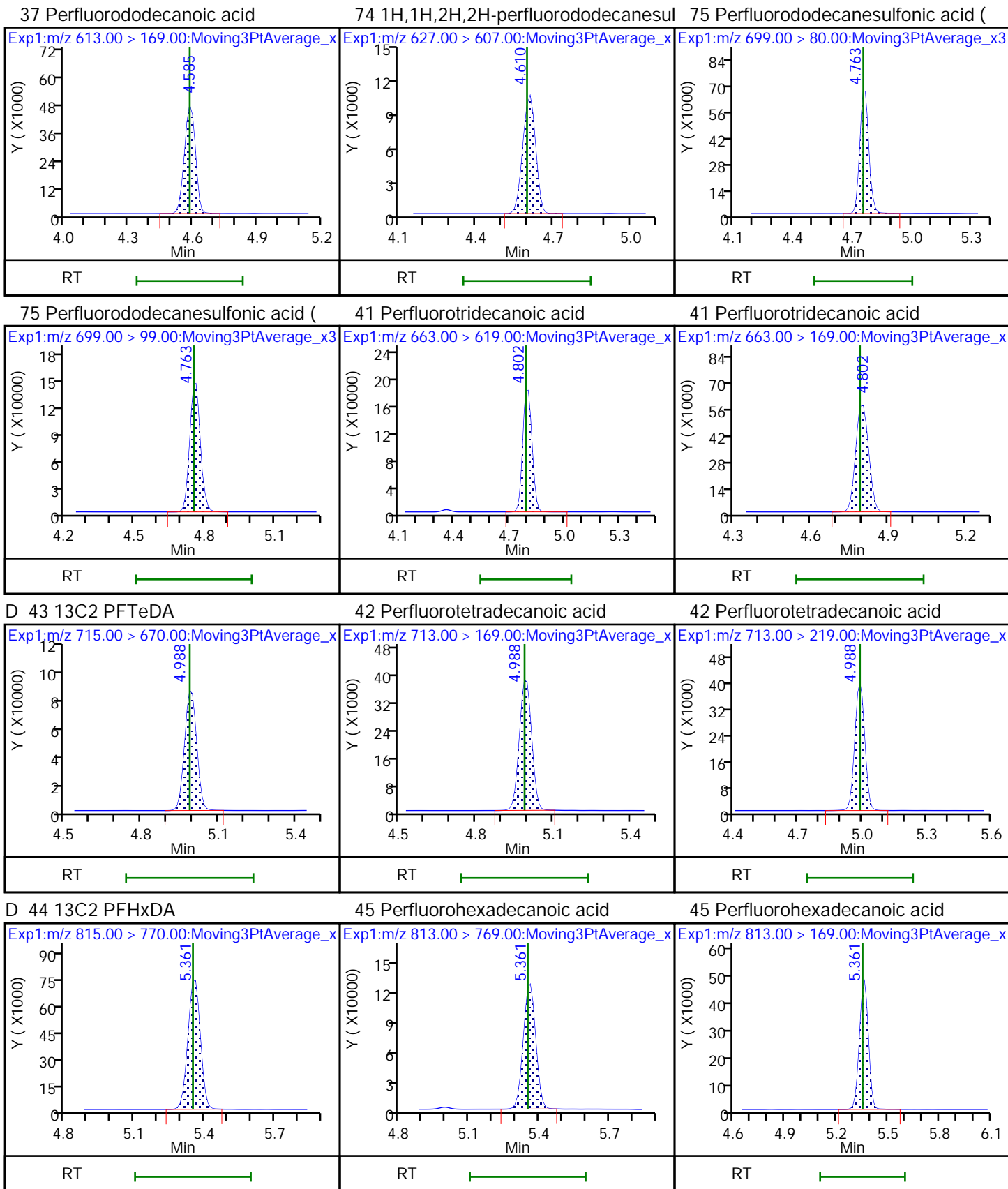


66 11-Chloroeicosafuoro-3-oxaundec

D 36 13C2 PFDoA

37 Perfluorododecanoic acid

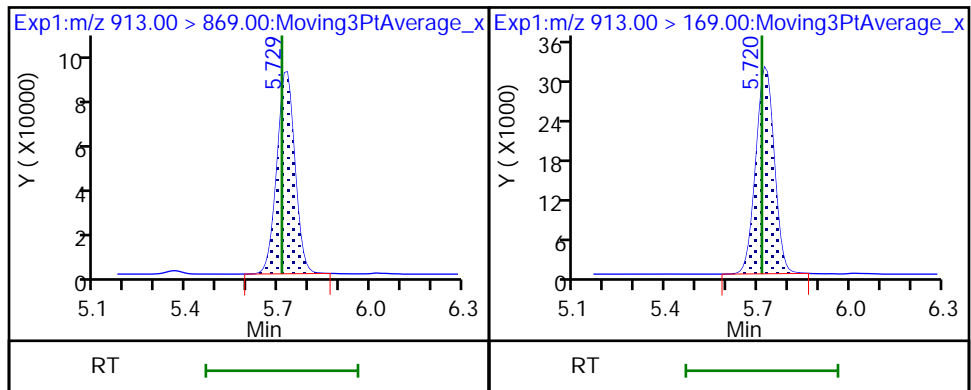






46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Euofins TestAmerica, Burlington

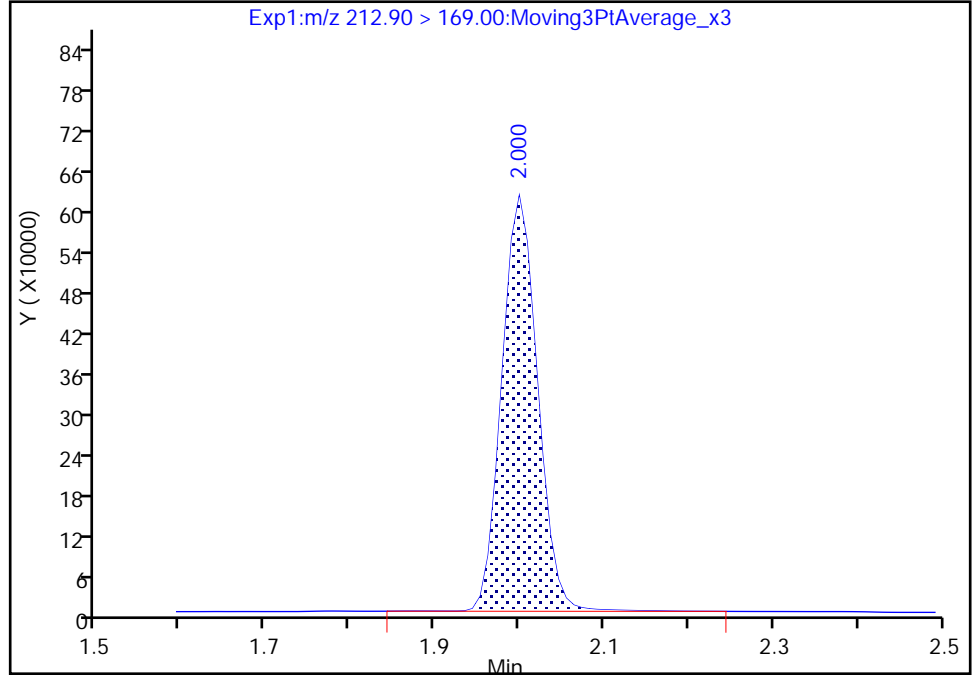
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A40.d  
Injection Date: 01-Oct-2020 23:26:46 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 37 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

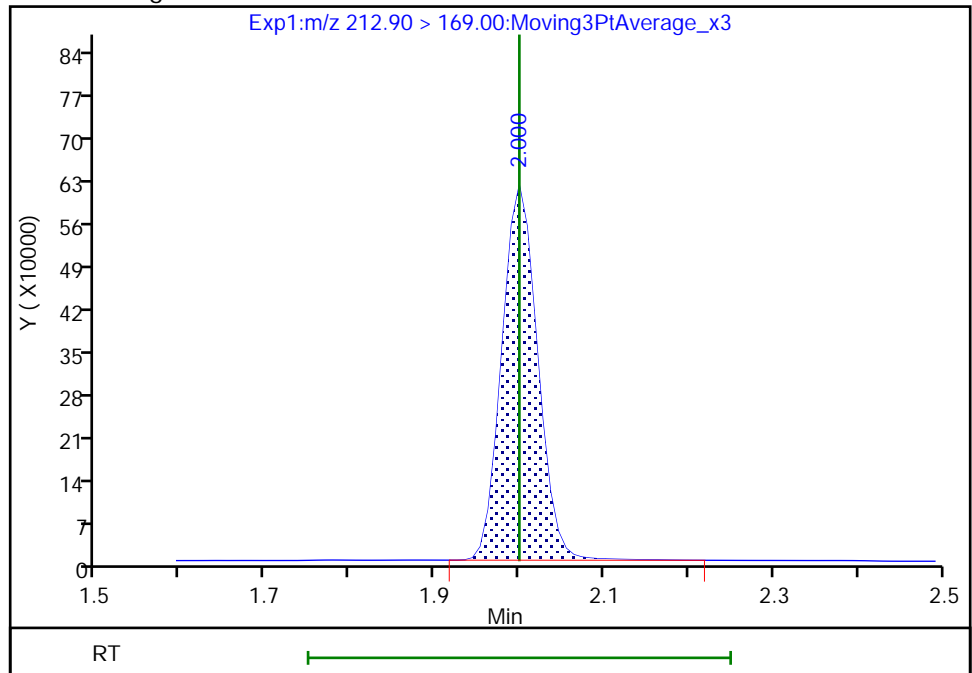
RT: 2.00  
Area: 1798073  
Amount: 2.327100  
Amount Units: ng/ml

Processing Integration Results



RT: 2.00  
Area: 1795798  
Amount: 2.324156  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

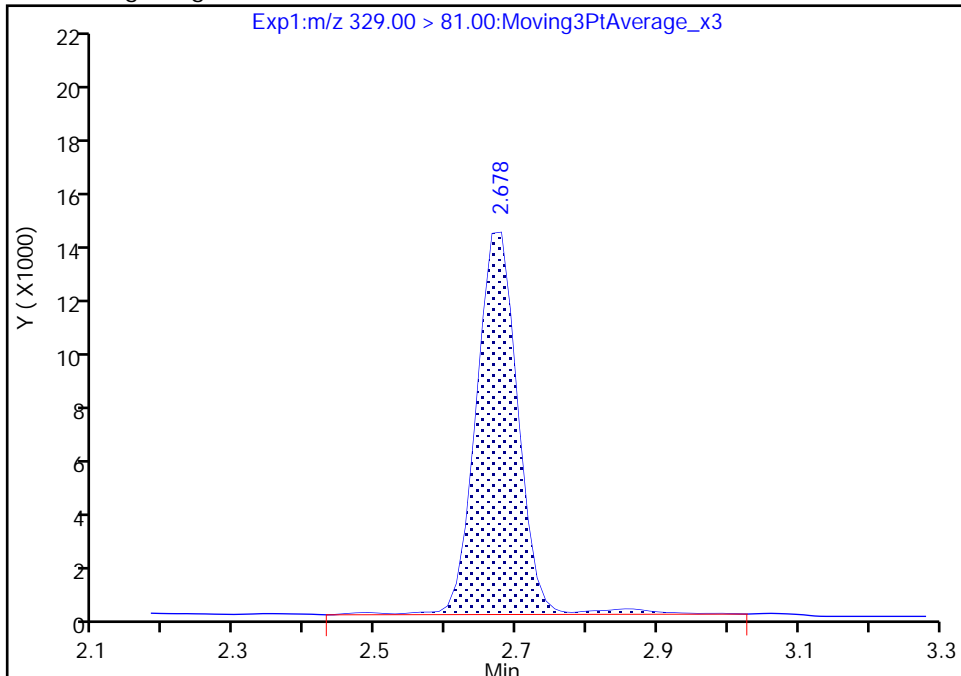
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A40.d  
Injection Date: 01-Oct-2020 23:26:46 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 37 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 60 M2-4:2 FTS, CAS: STL02395

Signal: 1

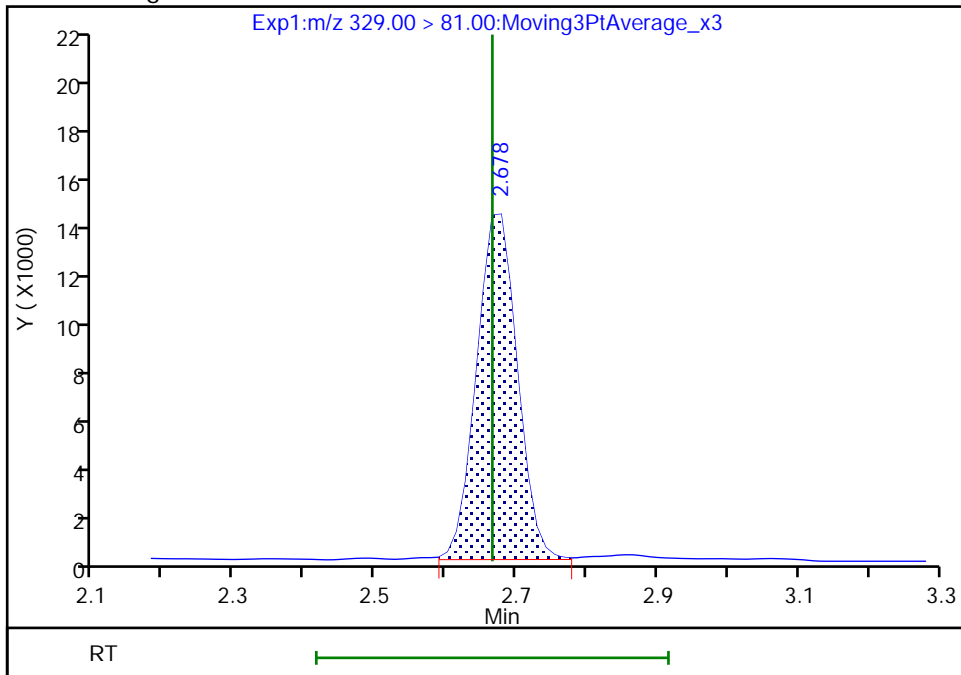
RT: 2.68  
Area: 58651  
Amount: 1.105139  
Amount Units: ng/ml

Processing Integration Results



RT: 2.68  
Area: 57018  
Amount: 1.074369  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 02-Oct-2020 09:15:06  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

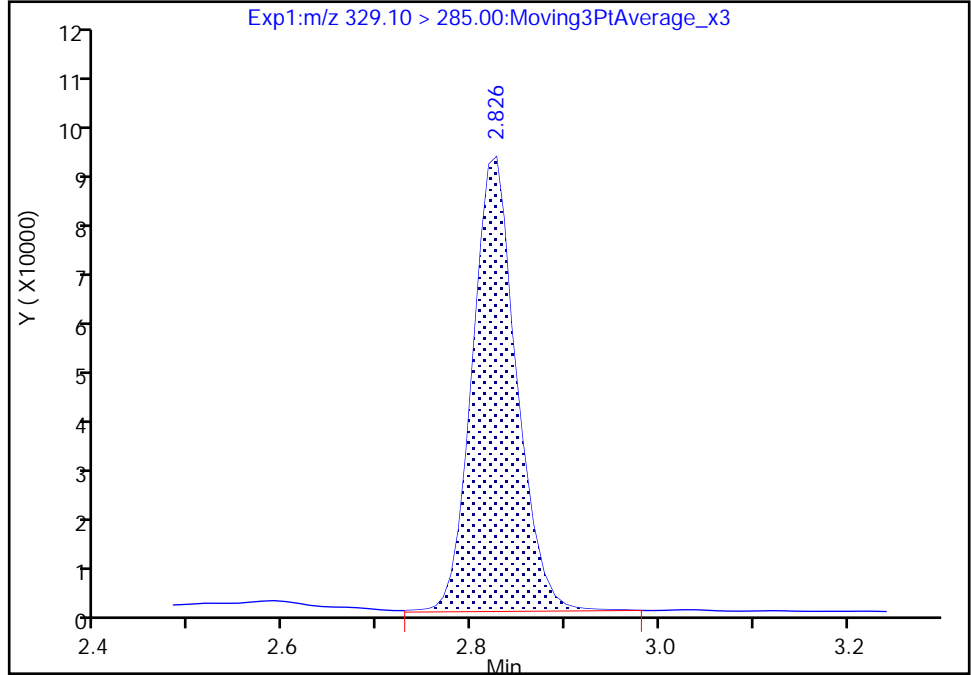
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A40.d  
Injection Date: 01-Oct-2020 23:26:46 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 37 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

67 Perfluoro(2-propoxypropanoic) ac, CAS: 13252-13-6

Signal: 1

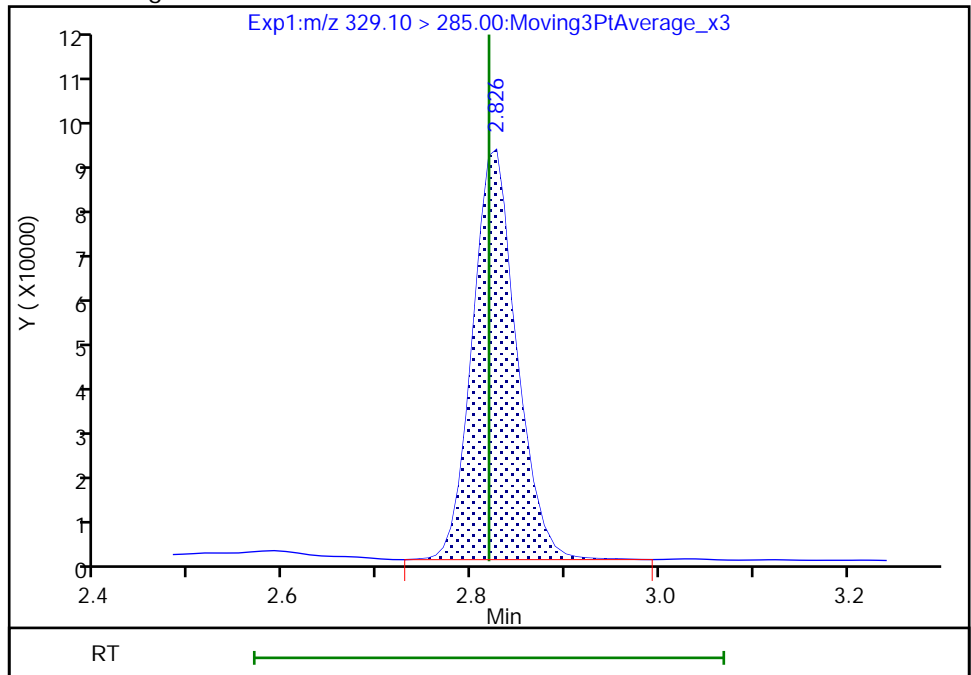
RT: 2.83  
Area: 295986  
Amount: 2.042779  
Amount Units: ng/ml

Processing Integration Results



RT: 2.83  
Area: 293890  
Amount: 2.028313  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 02-Oct-2020 09:15:29  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

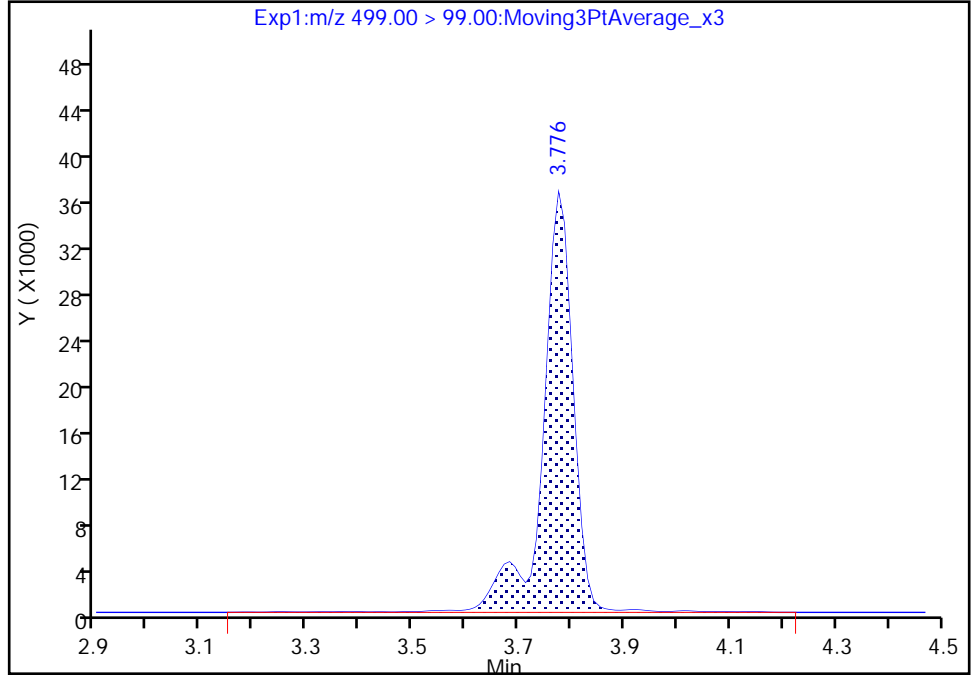
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A40.d  
Injection Date: 01-Oct-2020 23:26:46 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 37 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

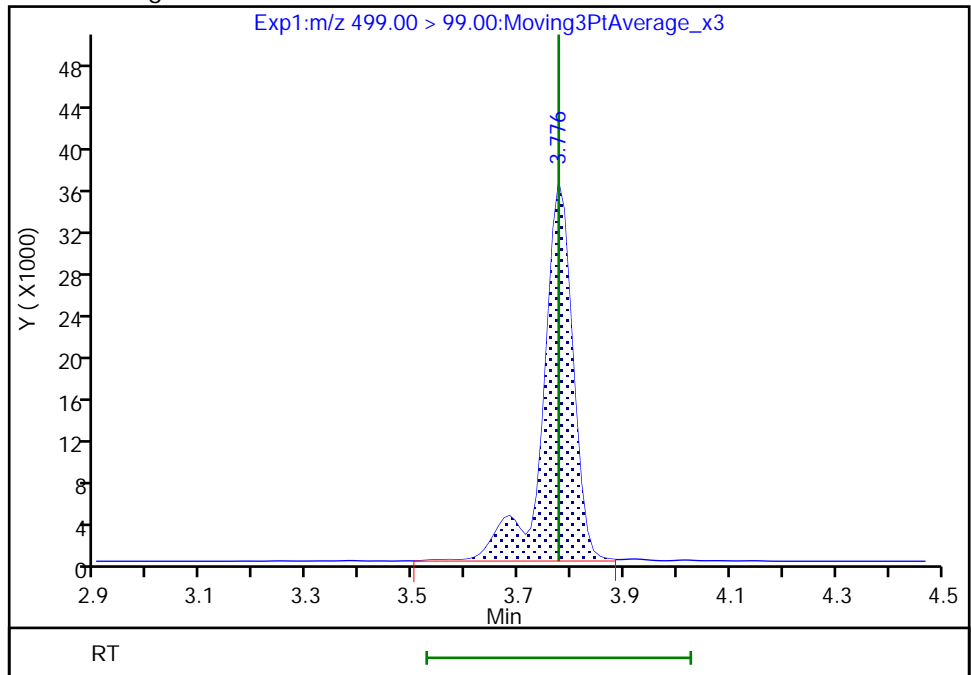
RT: 3.78  
Area: 146767  
Amount: 2.094781  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 144313  
Amount: 2.079031  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

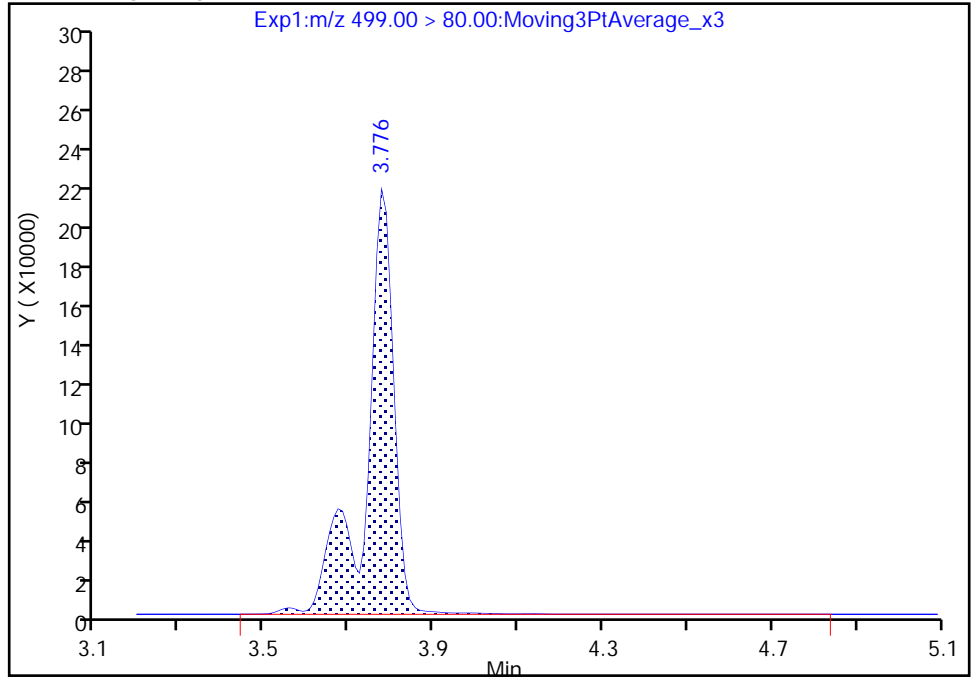
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A40.d  
Injection Date: 01-Oct-2020 23:26:46 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 37 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

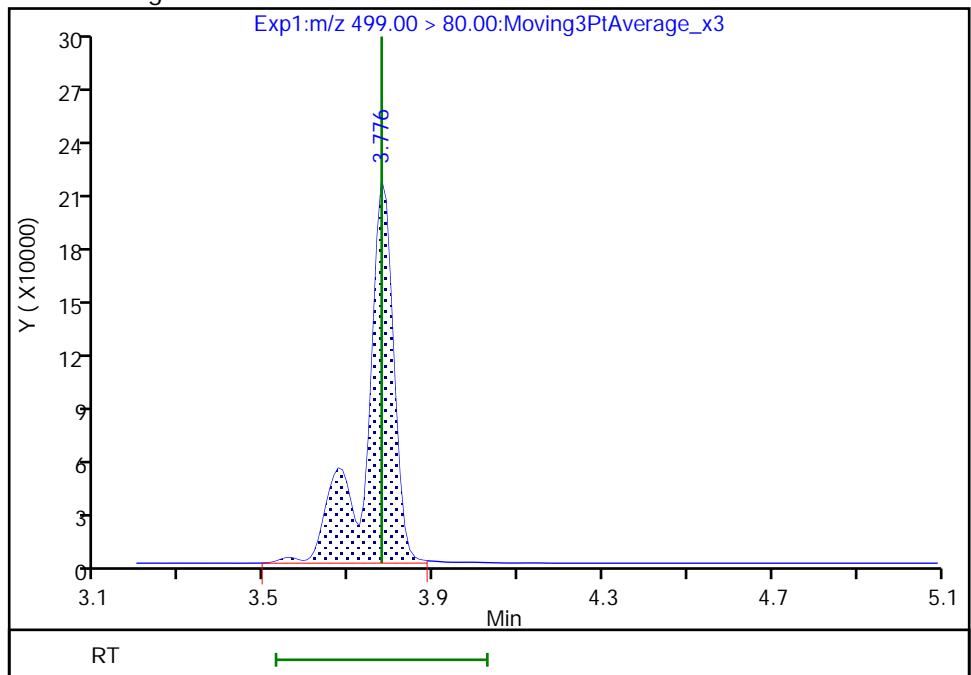
RT: 3.78  
Area: 988307  
Amount: 2.094781  
Amount Units: ng/ml

Processing Integration Results



RT: 3.78  
Area: 980876  
Amount: 2.079031  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 02-Oct-2020 09:16:14

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

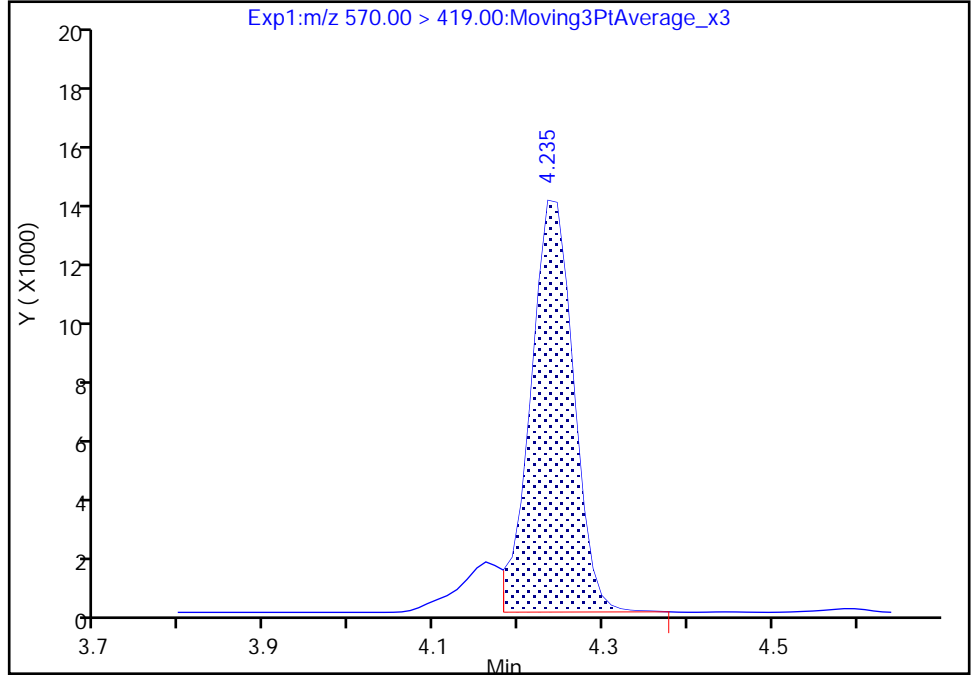
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A40.d  
Injection Date: 01-Oct-2020 23:26:46 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 37 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

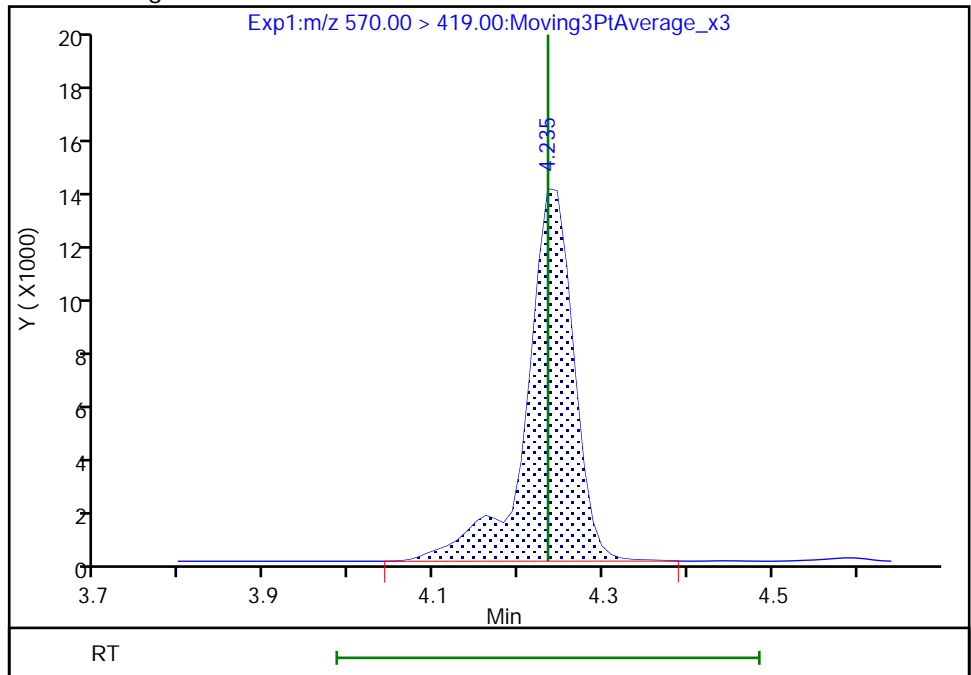
RT: 4.23  
Area: 48239  
Amount: 2.049688  
Amount Units: ng/ml

Processing Integration Results



RT: 4.23  
Area: 54186  
Amount: 2.302377  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 02-Oct-2020 09:16:31  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

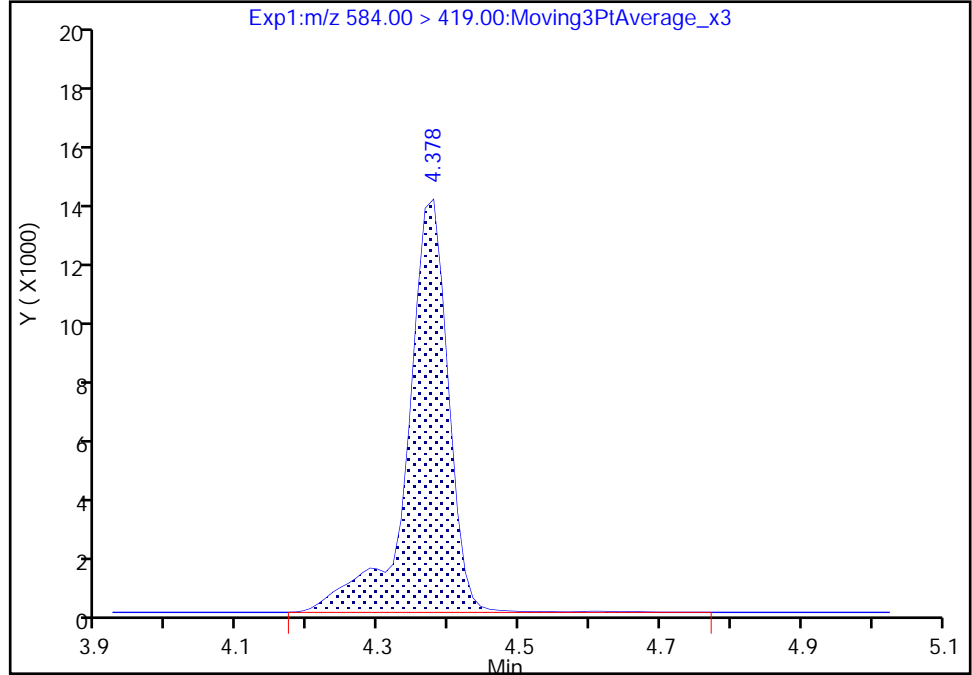
Data File: \\chromfs\Burlington\ChromData\LC812\20201001-43055.b\PA201001A40.d  
Injection Date: 01-Oct-2020 23:26:46 Instrument ID: LC812  
Lims ID: CCV L5  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 37 Worklist Smp#: 40  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

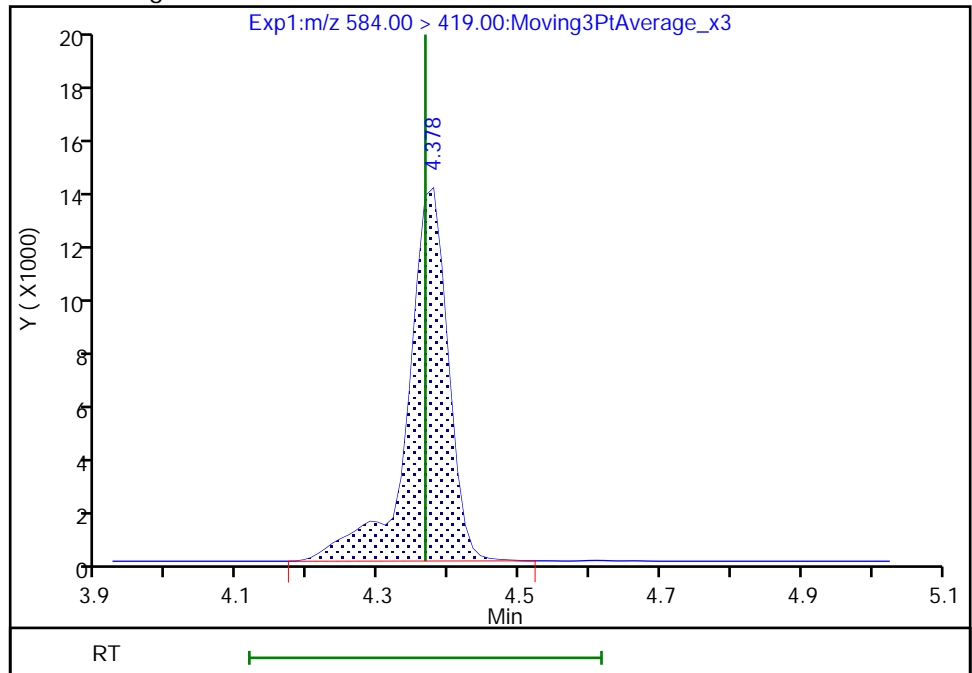
RT: 4.38  
Area: 55007  
Amount: 2.467114  
Amount Units: ng/ml

Processing Integration Results



RT: 4.38  
Area: 54699  
Amount: 2.453300  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 02-Oct-2020 09:16:40  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-159386/1-A  
 Matrix: Water Lab File ID: PA200930B02.d  
 Analysis Method: 537 (modified) Date Collected: \_\_\_\_\_  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/30/2020 18:22  
 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.: 159409 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
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		2.0	0.87
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		2.0	0.48
754-91-6	Perfluorooctanesulfonamide (PFOSA)	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	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		5.0	0.72
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		2.0	0.66

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: MB 200-159386/1-A  
 Matrix: Water Lab File ID: PA200930B02.d  
 Analysis Method: 537 (modified) Date Collected: \_\_\_\_\_  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/30/2020 18:22  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	107		50-150
STL01892	13C4 PFHpA	105		50-150
STL00990	13C4 PFOA	104		50-150
STL00991	13C4 PFOS	105		50-150
STL00995	13C5 PFNA	108		50-150
STL00992	13C4 PFBA	119		25-150
STL00993	13C2 PFHxA	110		50-150
STL00996	13C2 PFDA	102		50-150
STL00997	13C2 PFUnA	80		50-150
STL00998	13C2 PFDoA	54		50-150
STL01056	13C8 FOSA	51		25-150
STL01893	13C5 PFPeA	110		25-150
STL02116	13C2 PFTeDA	48	*5	50-150
STL02118	d3-NMeFOSAA	90		50-150
STL02117	d5-NEtFOSAA	76		50-150
STL02279	M2-6:2 FTS	111		25-150
STL02280	M2-8:2 FTS	103		25-150
STL02337	13C3 PFBS	106		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
 Lims ID: MB 200-159386/1-A  
 Client ID:  
 Sample Type: MB  
 Inject. Date: 30-Sep-2020 18:22:41 ALS Bottle#: 2 Worklist Smp#: 2  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: MB 200-159386/1-A  
 Misc. Info.: 200-0043035-002 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:23 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 12:30:16

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	1.990	0.0	0.577	1054995	1.49	119	16344	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.990	1.990	0.0	1.000	5144	0.006520		1.5		M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	696947	1.37	110	3173	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	5991	0.0102		0.3		M
D 47 13C3 PFBS	301.90 > 80.00	2.340	2.339	0.001	0.678	762042	1.23	106	290133	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.353	2.353	0.0	1.006	3311	0.005069	Target=2.07	14.6		M
298.90 > 99.00	2.353	2.353	0.0	1.006	1366		2.42(1.04-3.11)	2.8		M
D 60 M2-4:2 FTS	329.00 > 81.00	2.666	2.665	0.001	0.773	68085	1.46	125	170	
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.666	2.665	0.001	1.000	250	0.002653		10.1		M
D 7 13C2 PFHxA	315.00 > 270.00	2.703	2.703	0.0	0.784	718518	1.37	110	2922	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.000	3213	0.005551	Target=12.44	1.7		M
313.00 > 119.00	2.703	2.703	0.0	1.000	424		7.58(6.22-18.66)	0.6		M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.703	2.703	0.0	0.880	1620	0.002864	Target=3.64	14.0		M
349.00 > 99.00	2.703	2.703	0.0	0.880	419		3.87(1.82-5.46)	2.2		M
D 64 13C3 HFPO-DA	332.10 > 287.00	2.810	2.810	0.0	0.815	69463	1.42	114	1279	

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	2.810	0.016	1.006	962	0.008136		0.4		M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	564867	1.27		107	2464	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.084	3.073	0.011	1.004	3330	0.006312	Target=4.60	14.1		M
399.00 > 99.00	3.084	3.073	0.011	1.004	688		4.84(2.30-6.91)	2.2		M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.084	0.0	0.894	626663	1.31		105	3186	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	1474	0.002934	Target=3.34	1.0		M
363.00 > 169.00	3.096	3.084	0.012	1.004	339		4.35(1.67-5.01)	0.6		M
77 DONA										M
377.00 > 251.00	3.124	3.115	0.009	0.830	3172	0.002690	Target=2.44	17.1		
377.00 > 85.00	3.116	3.115	0.001	0.827	1672		1.90(1.22-3.67)	6.1		M
16 Perfluoroheptanesulfonic acid										RM
449.00 > 80.00	3.433	3.433	0.001	0.912	899	0.002027	Target=7.08	14.3		RM
449.00 > 99.00	3.433	3.433	0.001	0.912	275		3.27(3.54-10.63)	6.3		M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.424	3.433	-0.008	0.995	180	0.003412		7.0		M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.441	3.433	0.009	0.997	78497	1.32		111	1203	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	636251	1.30		104	3770	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		619328	1.25		6754		
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	3830	0.007288	Target=2.29	2.4		M
413.00 > 169.00	3.450	3.450	0.0	1.000	1191		3.22(1.14-3.43)	4.1		M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	457422	1.26		105	1970	
17 Perfluorooctanesulfonic acid										RM
499.00 > 80.00	3.765	3.765	0.0	1.000	1657	0.003984	Target=7.10	8.8		RM
499.00 > 99.00	3.765	3.765	0.0	1.000	561		2.95(3.55-10.64)	3.9		M
D 19 13C5 PFNA										
468.00 > 423.00	3.786	3.776	0.010	1.098	555180	1.35		108	4972	
20 Perfluorononanoic acid										RM
463.00 > 419.00	3.786	3.786	0.0	1.000	1989	0.004398	Target=5.83	0.7		RM
463.00 > 169.00	3.786	3.786	0.0	1.000	133		14.95(2.91-8.74)	3.8		M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.932	3.922	0.010	1.044	1108	0.003027		27.5		M
68 Perfluorononanesulfonic acid										RM
549.00 > 80.00	4.052	4.052	0.0	1.076	703	0.002139	Target=3.38	14.3		RM
549.00 > 99.00	4.062	4.052	0.010	1.079	82		8.57(1.69-5.08)	1.1		M
D 23 13C2 PFDA										
515.00 > 470.00	4.082	4.072	0.010	1.183	501093	1.27		102	3317	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										M
513.00 > 469.00	4.082	4.082	0.0	1.000	2134	0.005380	Target=6.81	3.9		M
513.00 > 169.00	4.072	4.082	-0.010	0.998	430		4.96(3.41-10.22)	5.8		M
25 1H,1H,2H,2H-perfluorodecanesulfo										M
527.00 > 507.00	4.082	4.082	0.0	0.998	119	0.004173		4.0		M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.092	4.092	0.0	1.186	86262	1.23		103	1003	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.200	403026	0.6345		50.8	2606	
22 Perfluorooctanesulfonamide										M
498.00 > 78.00	4.139	4.139	0.0	1.000	3144	0.0104		8.7		M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.224	4.214	0.010	1.224	25277	1.13		90.1	766	
28 N-methylperfluorooctanesulfonami										M
570.00 > 419.00	4.224	4.224	0.0	1.000	40	0.002096		1.8		M
29 Perfluorodecanesulfonic acid										M
599.00 > 80.00	4.309	4.309	0.0	1.144	781	0.002839	Target=3.31	10.2		M
599.00 > 99.00	4.309	4.309	0.0	1.144	228		3.43(1.66-4.97)	1.4		M
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.259	295931	0.99		79.6	5044	
31 Perfluoroundecanoic acid										M
563.00 > 519.00	4.355	4.343	0.012	1.003	1937	0.008295	Target=6.57	4.0		M
563.00 > 169.00	4.355	4.343	0.012	1.003	415		4.67(3.28-9.85)	12.6		M
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	22844	0.9469		75.8	517	
33 N-ethylperfluorooctanesulfonamid										M
584.00 > 419.00	4.366	4.355	0.011	1.003	387	0.0231		6.2		M
66 11-Chloroeicosafuoro-3-oxaundec										M
631.00 > 451.00	4.433	4.433	0.0	1.177	919	0.002910		29.3		M
D 36 13C2 PFDa										
615.00 > 570.00	4.573	4.573	0.0	1.326	212014	0.6741		53.9	2308	
37 Perfluorododecanoic acid										M
613.00 > 569.00	4.573	4.573	0.0	1.000	1000	0.006046	Target=5.16	1.6		M
613.00 > 169.00	4.597	4.573	0.024	1.005	213		4.69(2.58-7.75)	3.8		M
74 1H,1H,2H,2H-perfluorododecanesul										M
627.00 > 607.00	4.585	4.585	0.0	1.121	37	0.002335		1.9		M
75 Perfluorododecanesulfonic acid (										RM
699.00 > 80.00	4.754	4.736	0.018	1.263	792	0.008973	Target=0.45	4.8		RM
699.00 > 99.00	4.736	4.736	0.0	1.258	571		1.39(0.22-0.67)	11.7		M
41 Perfluorotridecanoic acid										RM
663.00 > 619.00	4.790	4.772	0.018	1.047	894	0.006364	Target=3.30	1.1		RM
663.00 > 169.00	4.790	4.772	0.018	1.047	142		6.30(1.65-4.95)	6.4		M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.979	4.969	0.010	1.443	134763	0.6016		48.1	2865	
42 Perfluorotetradecanoic acid										M
713.00 > 169.00	4.969	4.969	0.0	0.998	158	0.006398	Target=1.06	6.1		M
713.00 > 219.00	4.969	4.969	0.0	0.998	258		0.61(0.53-1.59)	10.5		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	5.340	5.329	0.011	1.548	154417	0.6082		48.7	2178	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.340	5.329	0.011	1.000	2627	0.001050	Target=3.06		2.7	M
813.00 > 169.00	5.340	5.329	0.011	1.000	699		3.76(1.53-4.58)		37.8	M
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.686	5.694	-0.008	1.065	684	0.007409	Target=2.82		2.2	M
913.00 > 169.00	5.694	5.694	0.0	1.066	244		2.80(1.41-4.24)		16.8	M

**QC Flag Legend**

Processing Flags

R - Failed Signal Ratio Test

Review Flags

M - Manually Integrated

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d

Injection Date: 30-Sep-2020 18:22:41

Instrument ID: LC812

Lims ID: MB 200-159386/1-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 2

Worklist Smp#: 2

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

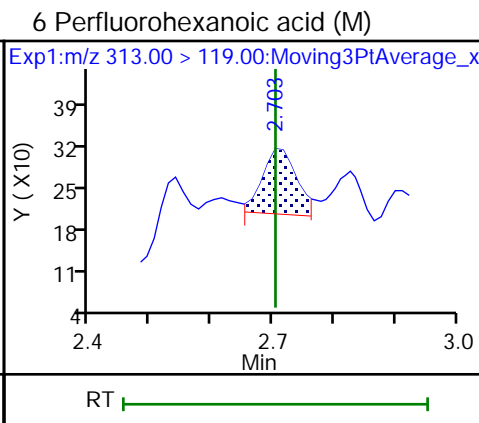
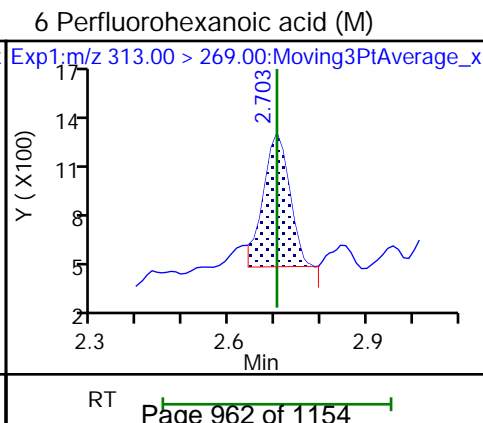
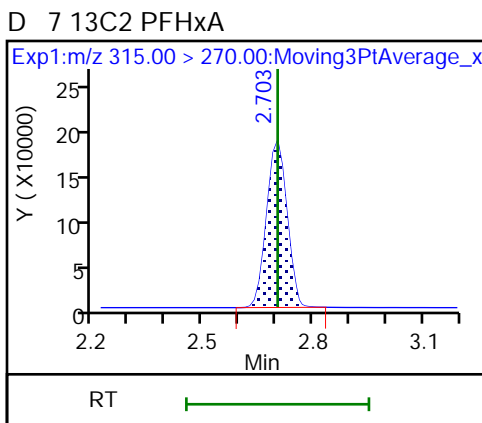
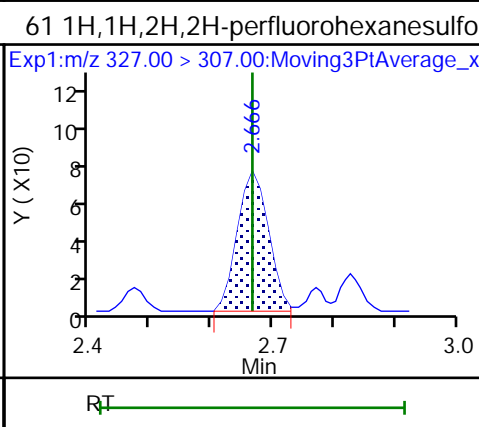
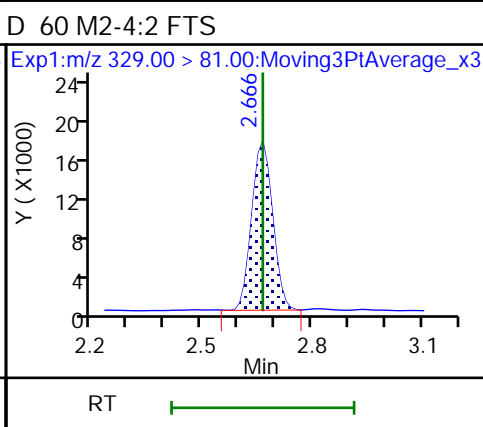
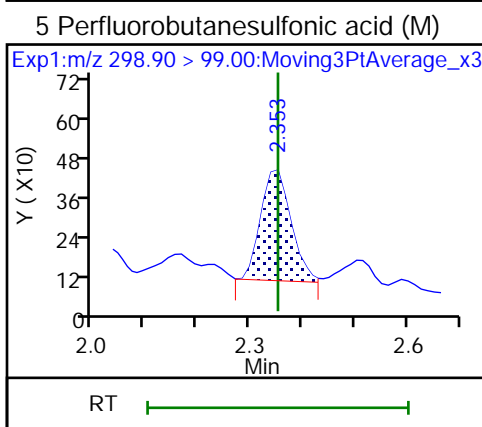
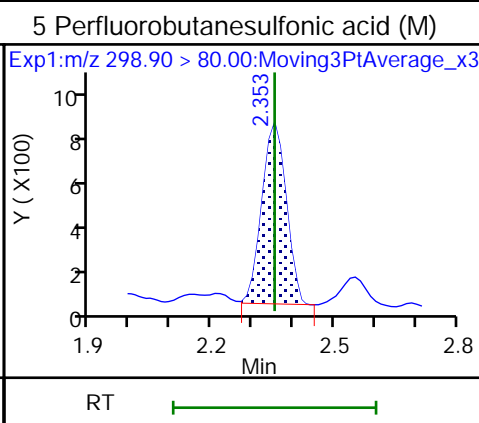
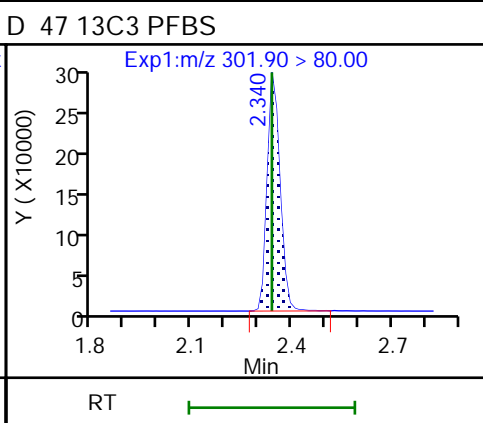
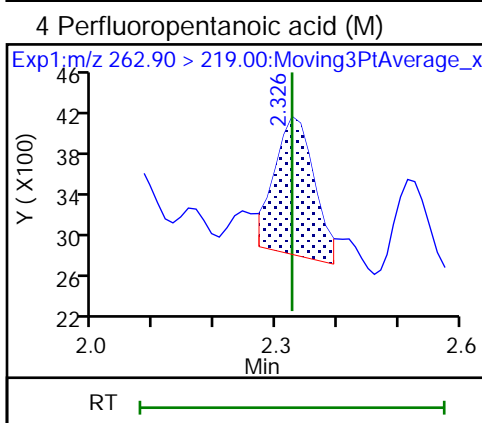
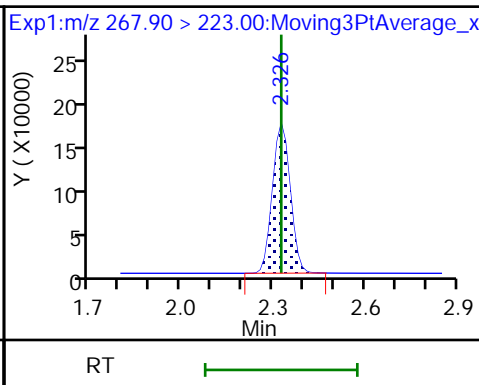
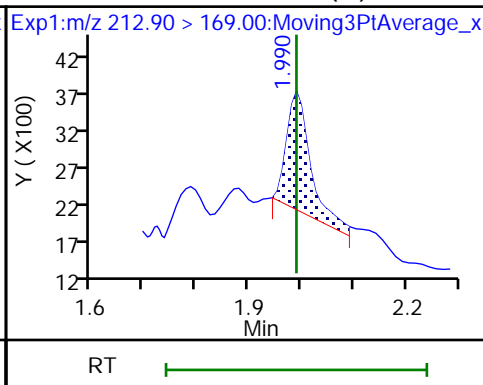
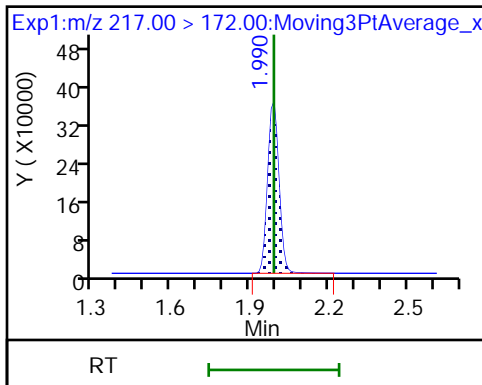
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

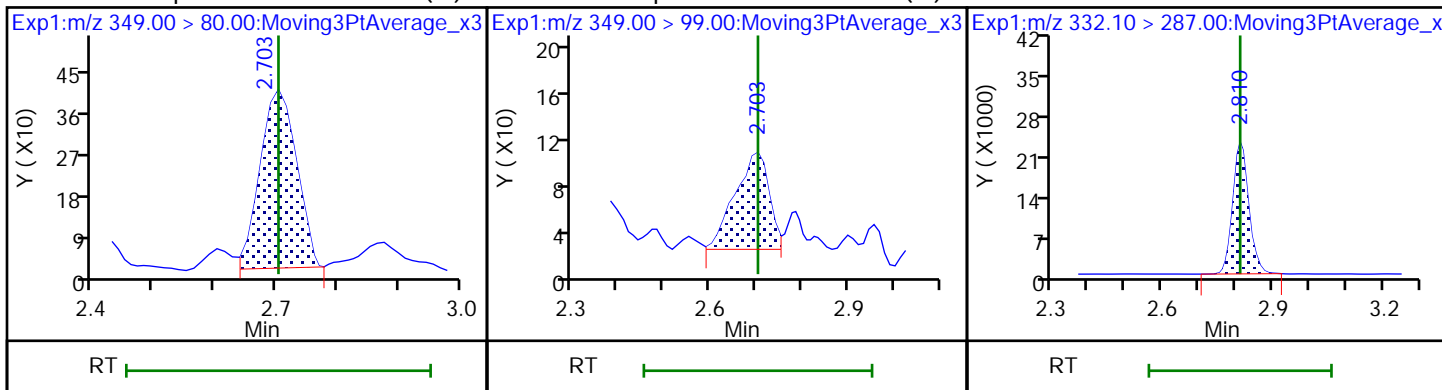
D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

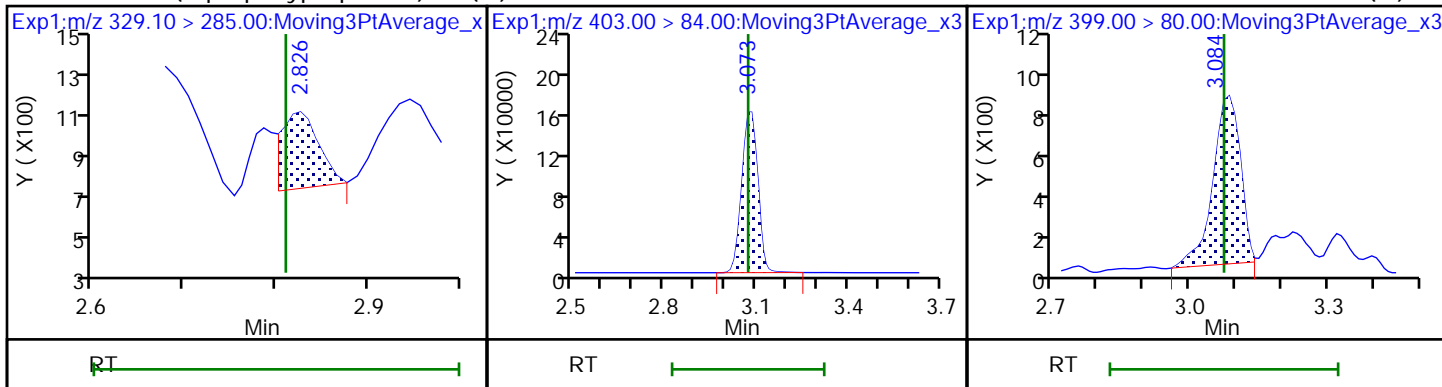
D 3 13C5 PFPeA



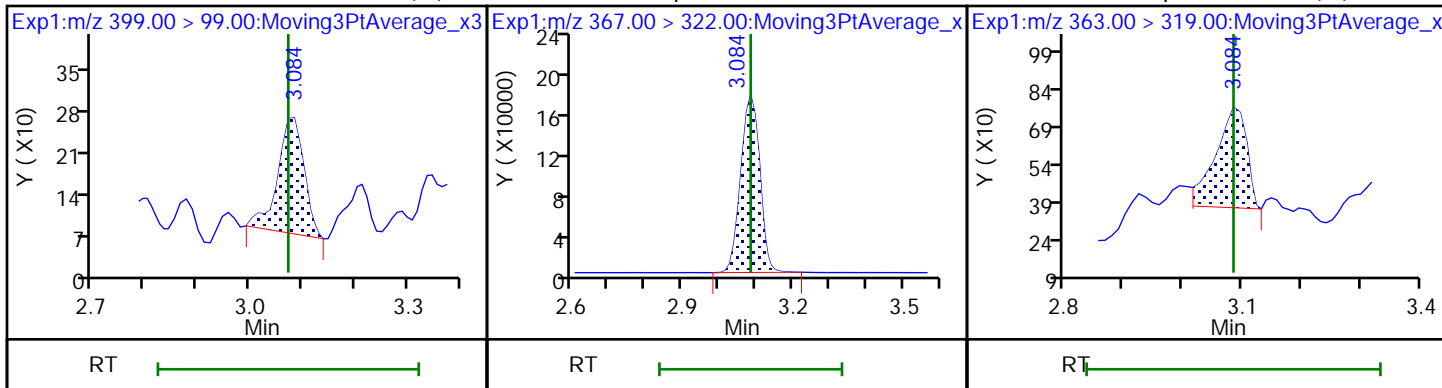
70 Perfluoropentanesulfonic acid (M) 70 Perfluoropentanesulfonic acid (M) D 64 13C3 HFPO-DA



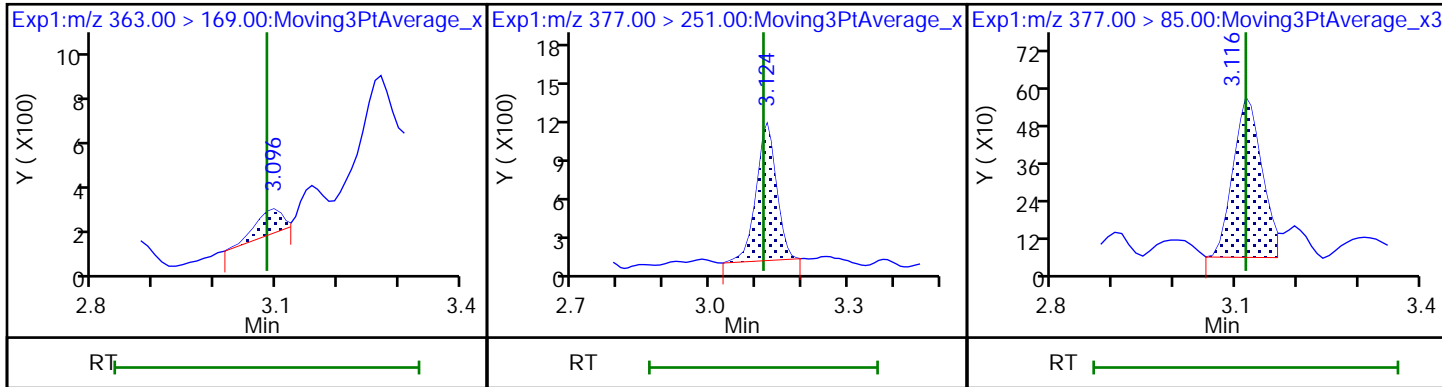
67 Perfluoro(2-propoxypropanoic) ac (M) 11 18O2 PFHxS 8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M) D 9 13C4 PFHpA 10 Perfluoroheptanoic acid (M)



10 Perfluoroheptanoic acid (M) 77 DONA 77 DONA (M)

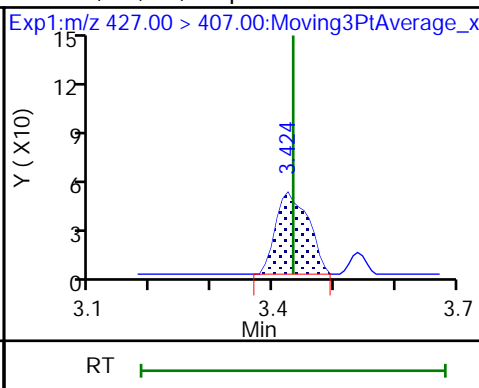
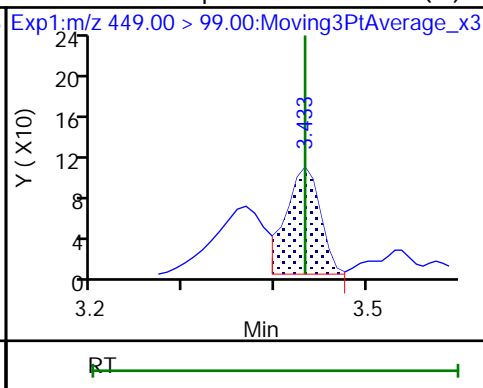
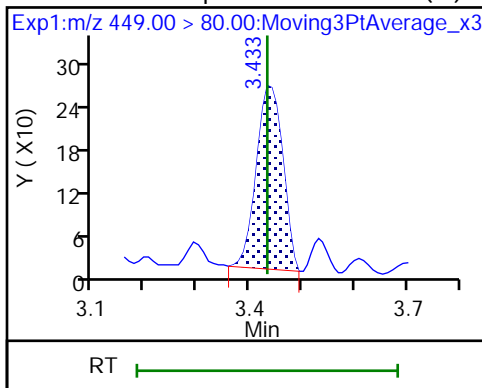




16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

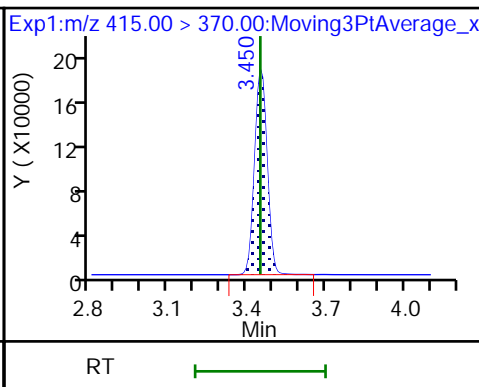
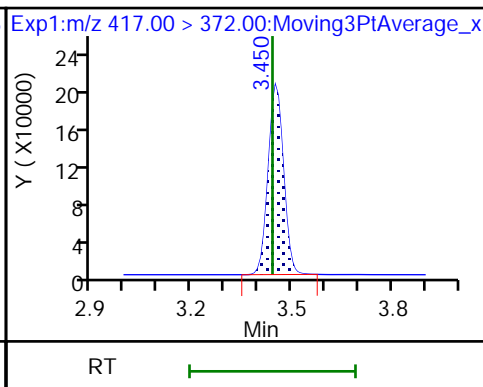
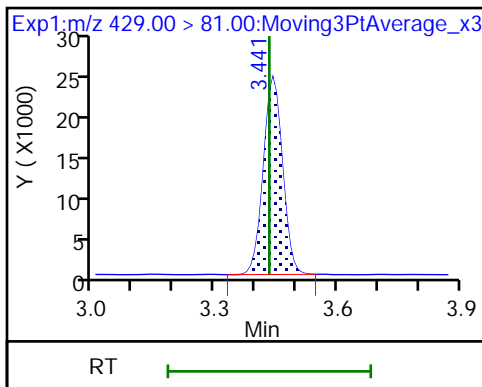
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



D 12 M2-6:2 FTS

D 14 13C4 PFOA

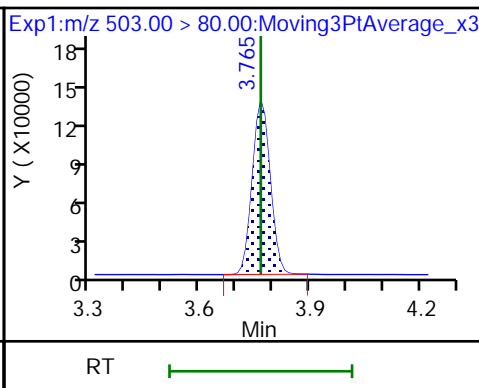
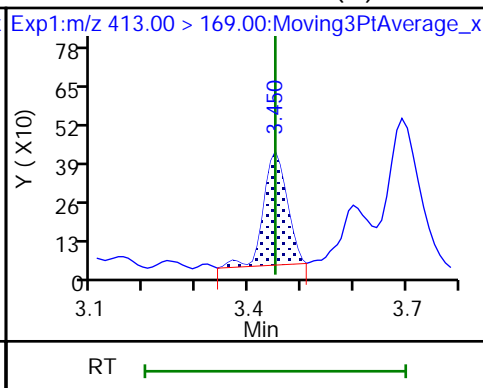
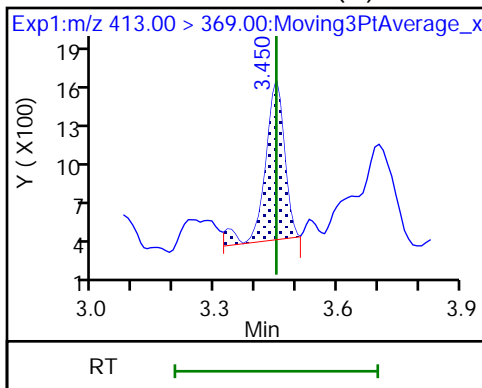
\* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

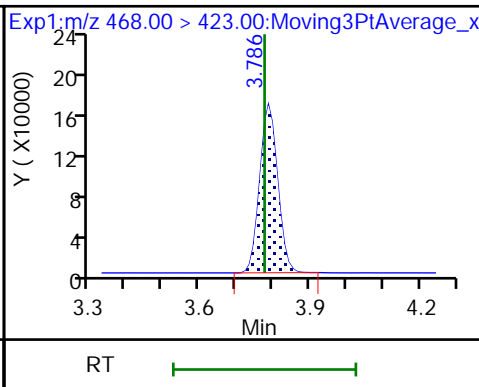
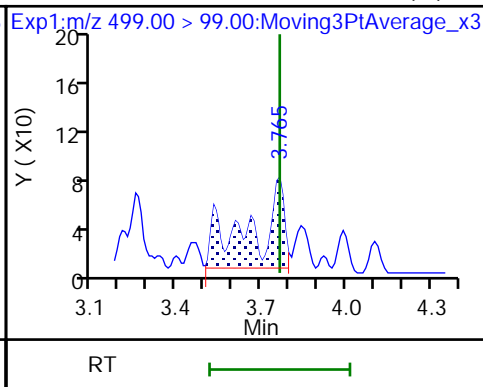
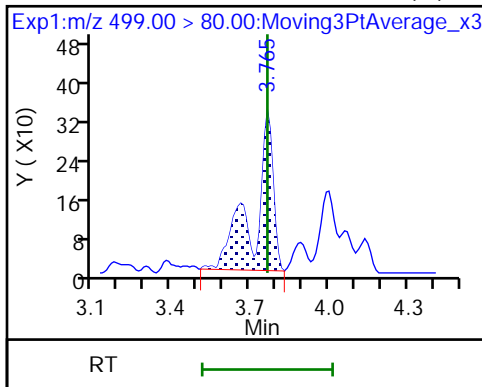
D 18 13C4 PFOS

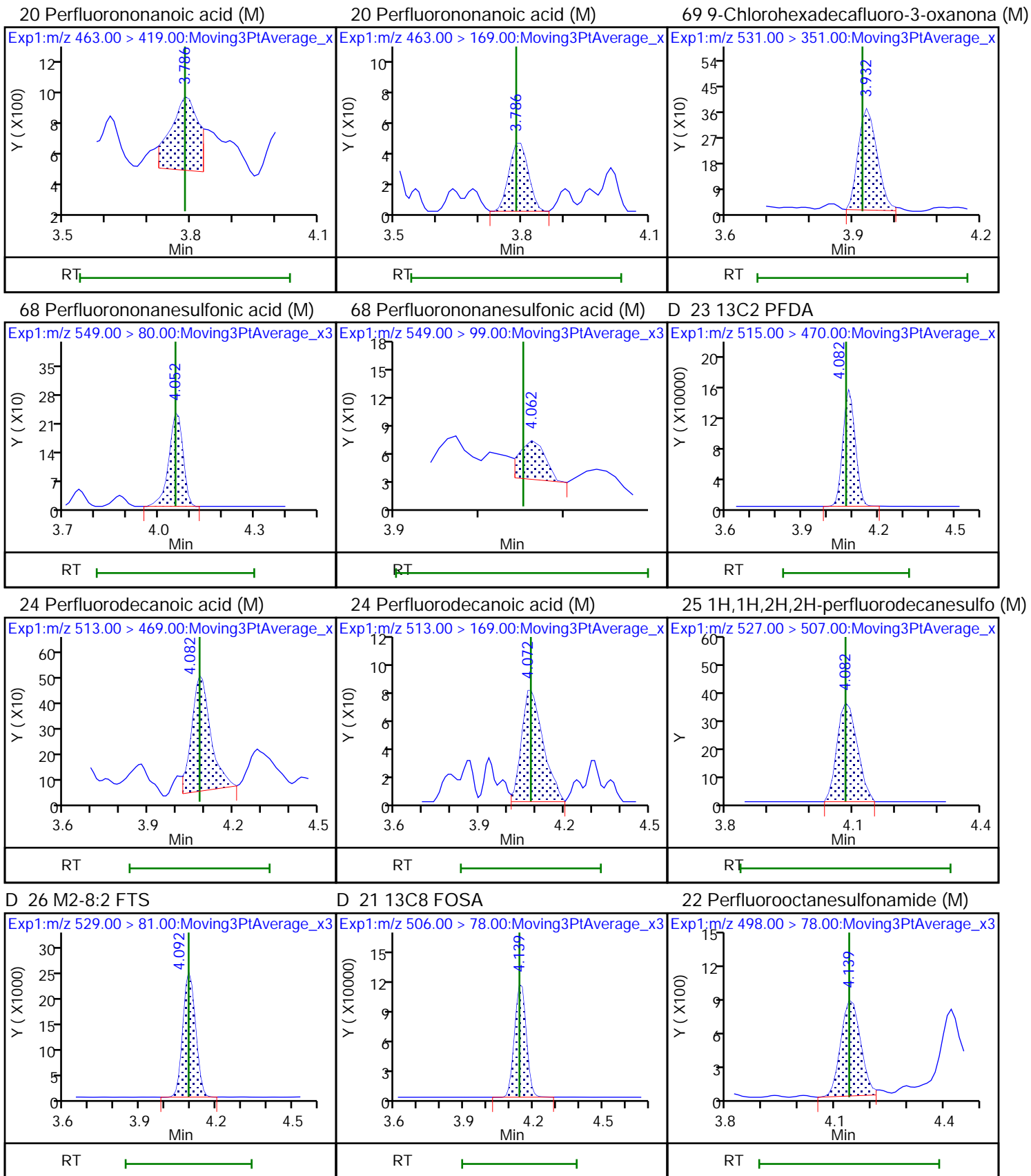


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

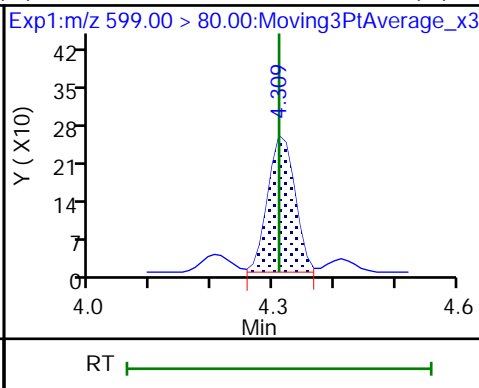
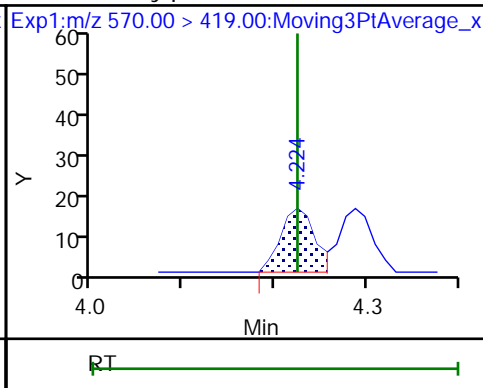
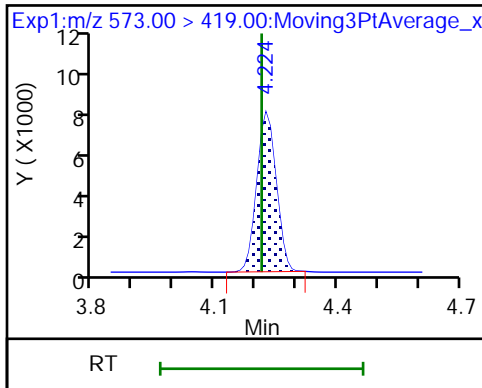
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

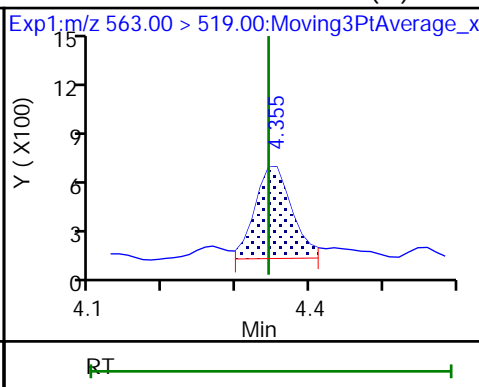
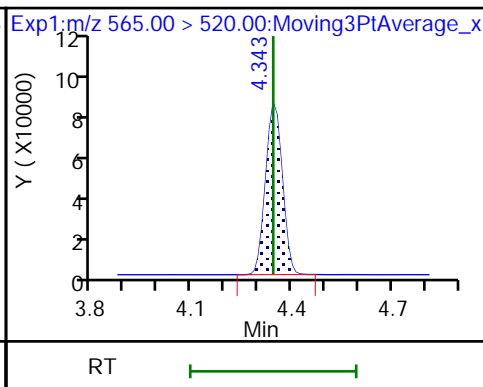
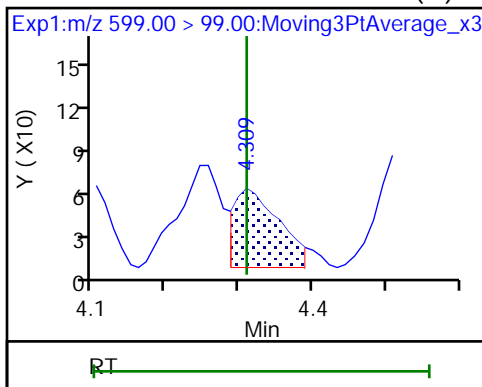
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

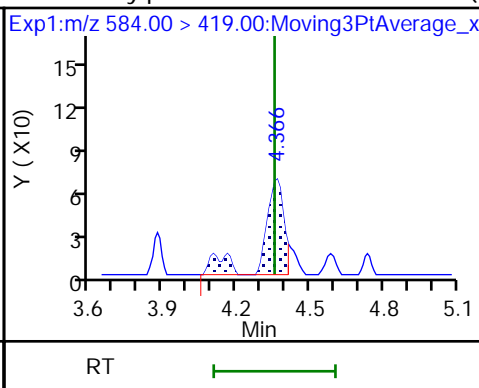
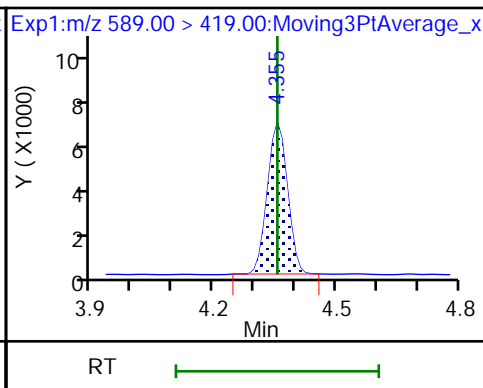
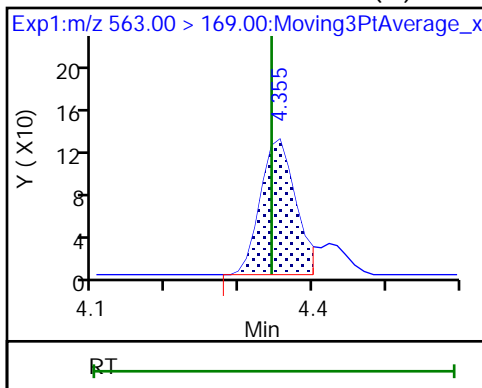
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

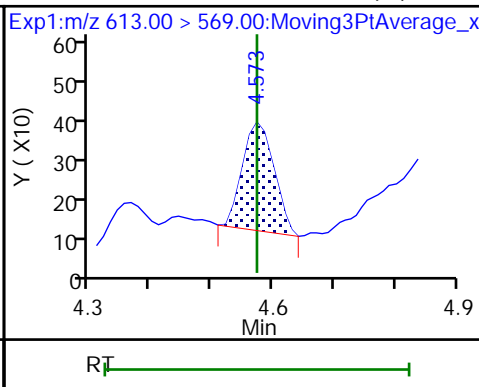
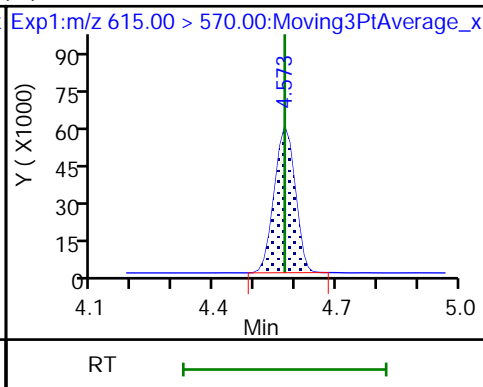
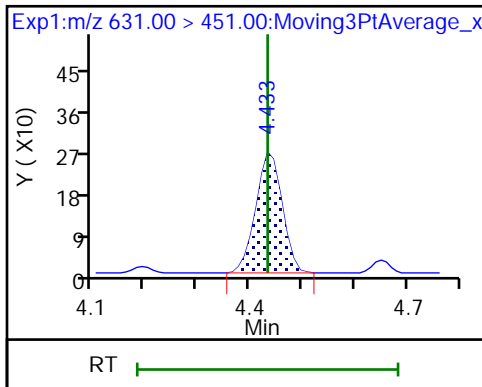
33 N-ethylperfluorooctanesulfonamid (M)



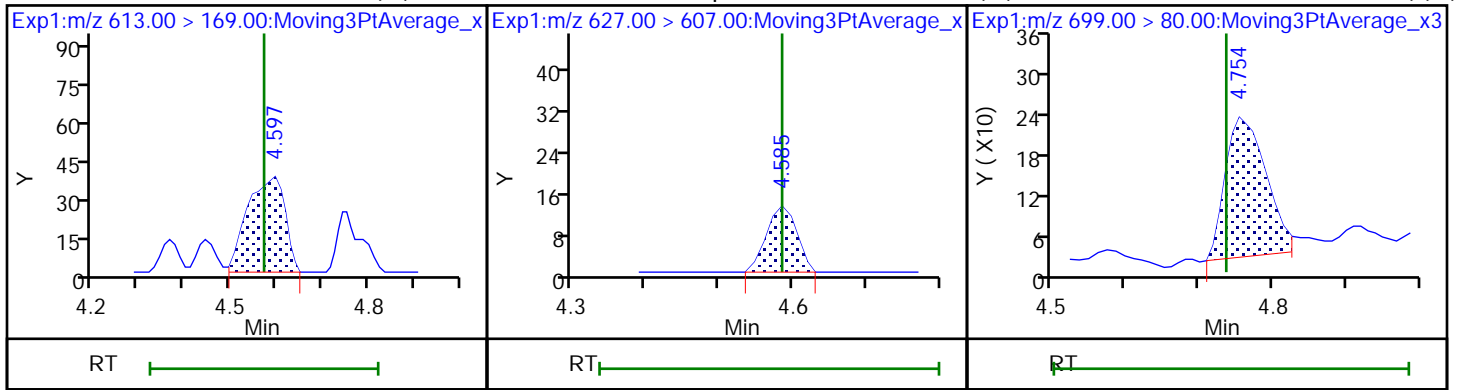
66 11-Chloroeicosafluoro-3-oxaundec (M)

D 36 13C2 PFDoA

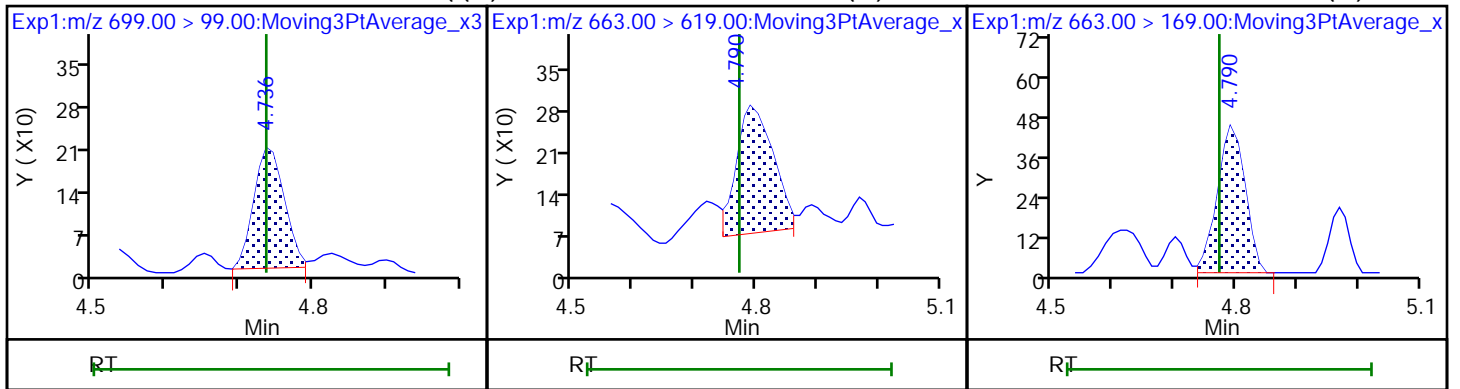
37 Perfluorododecanoic acid (M)



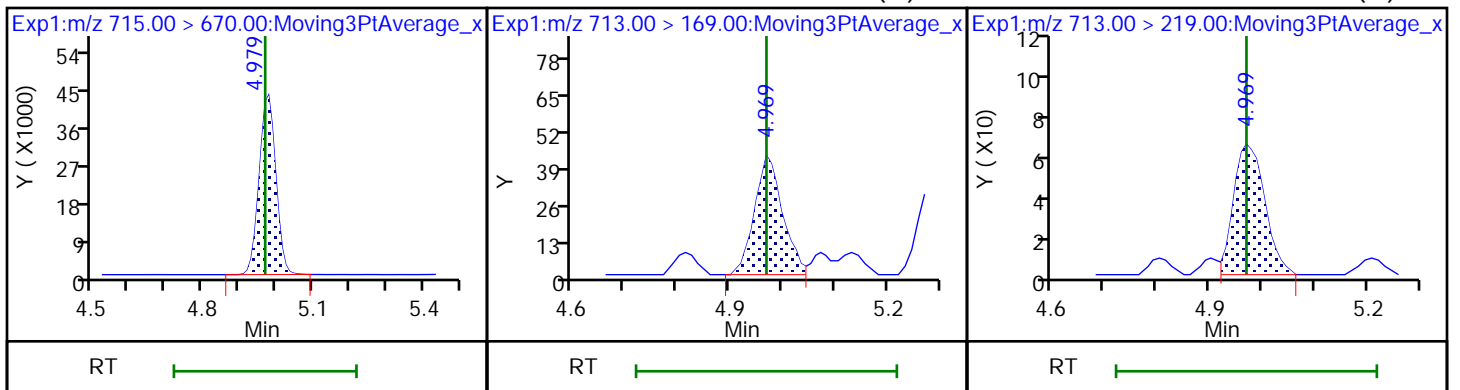
37 Perfluorododecanoic acid (M) 74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



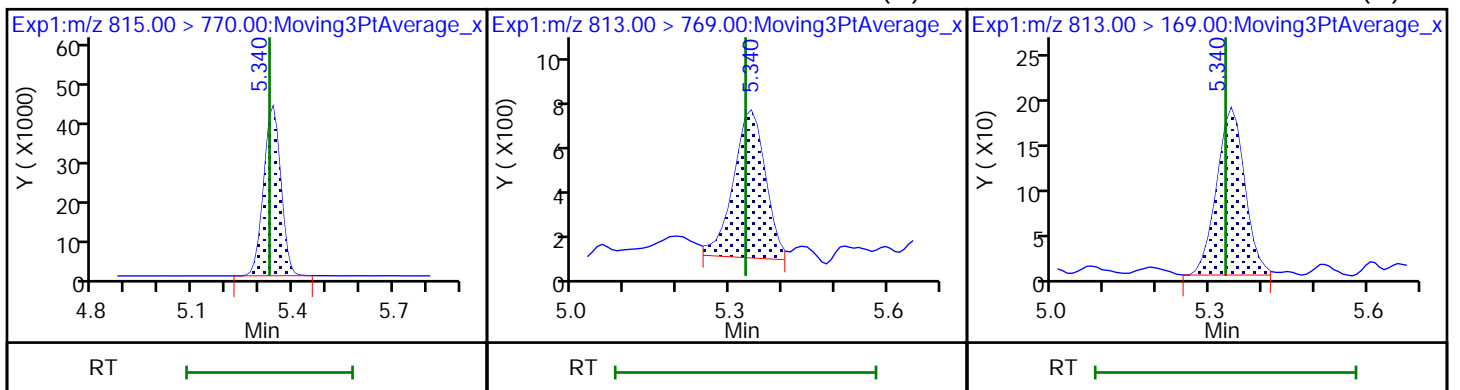
75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid (M) 41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA 42 Perfluorotetradecanoic acid (M) 42 Perfluorotetradecanoic acid (M)

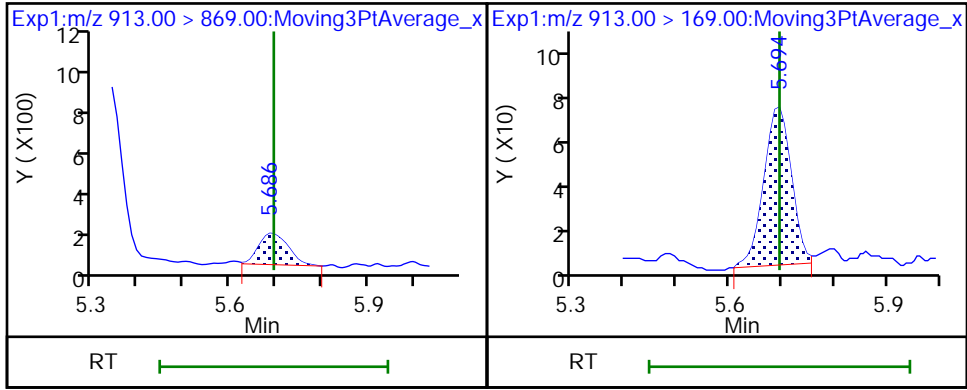


D 44 13C2 PFHxDA 45 Perfluorohexadecanoic acid (M) 45 Perfluorohexadecanoic acid (M)



46 Perfluorooctadecanoic acid (M)

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

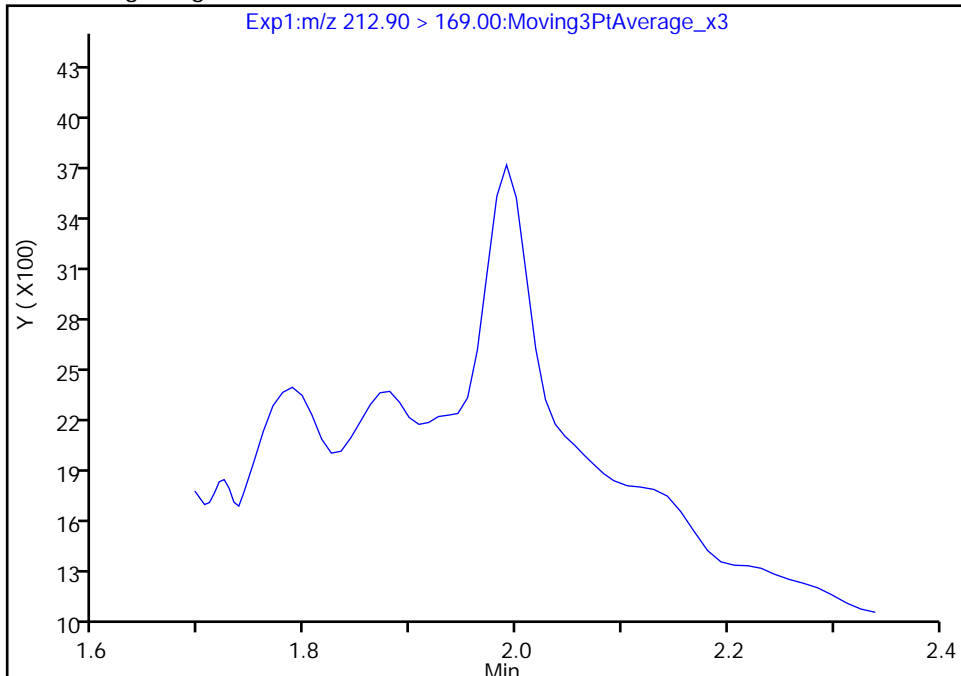
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

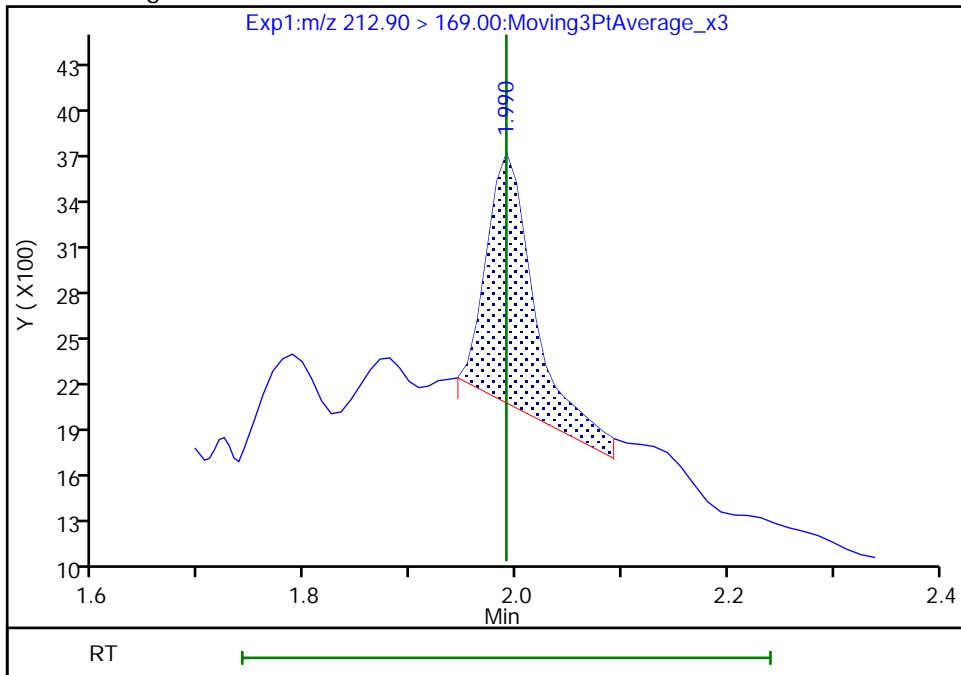
Not Detected  
Expected RT: 1.99

Processing Integration Results



Manual Integration Results

RT: 1.99  
Area: 5144  
Amount: 0.006520  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 11:41:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

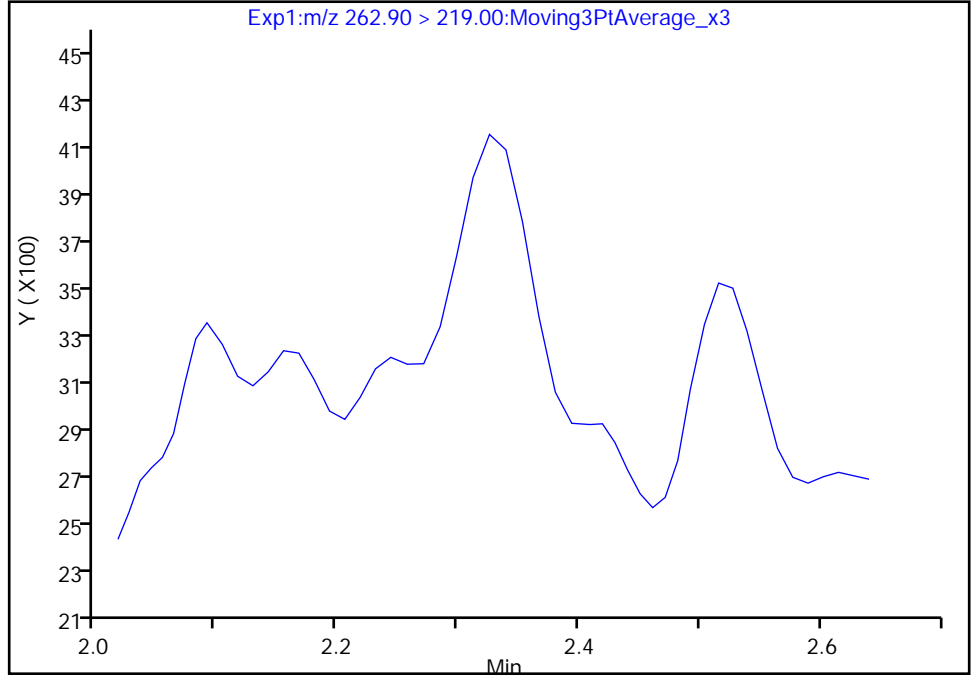
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

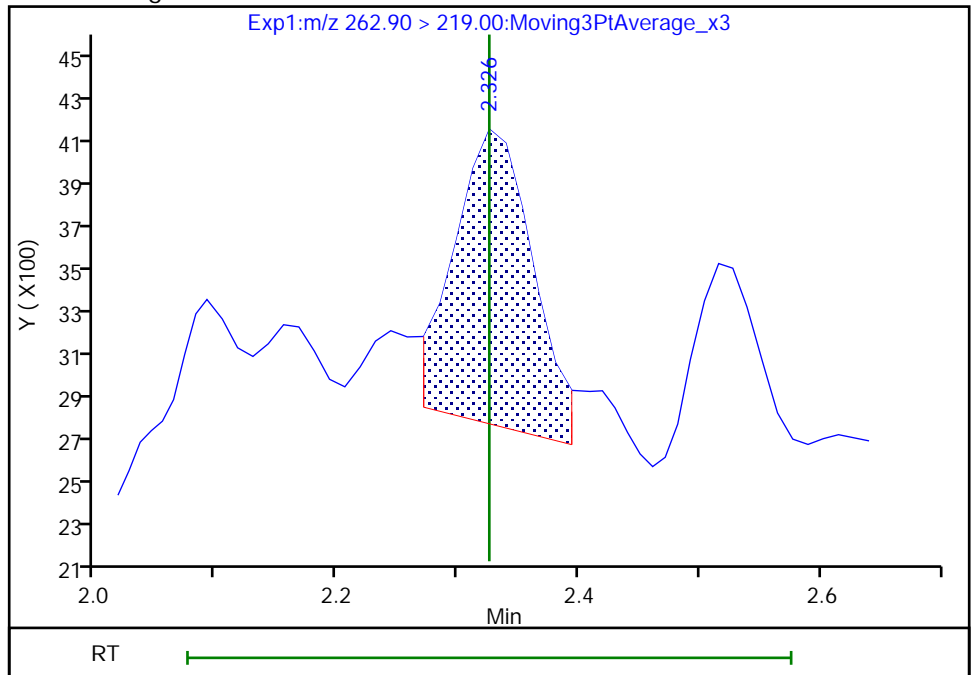
Not Detected  
Expected RT: 2.33

Processing Integration Results



RT: 2.33  
Area: 5991  
Amount: 0.010174  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:41:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

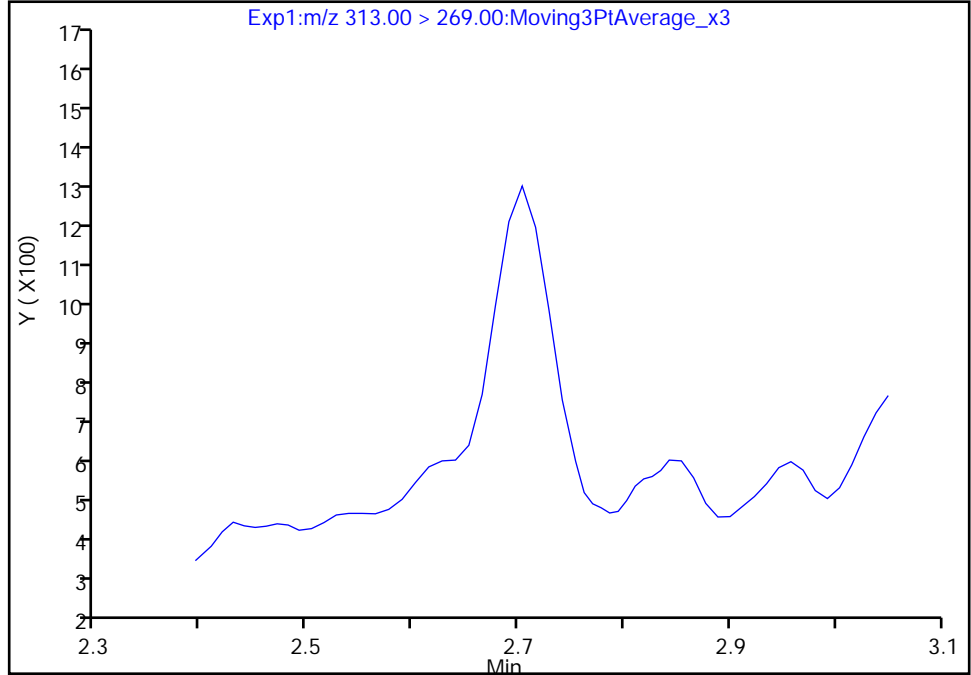
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

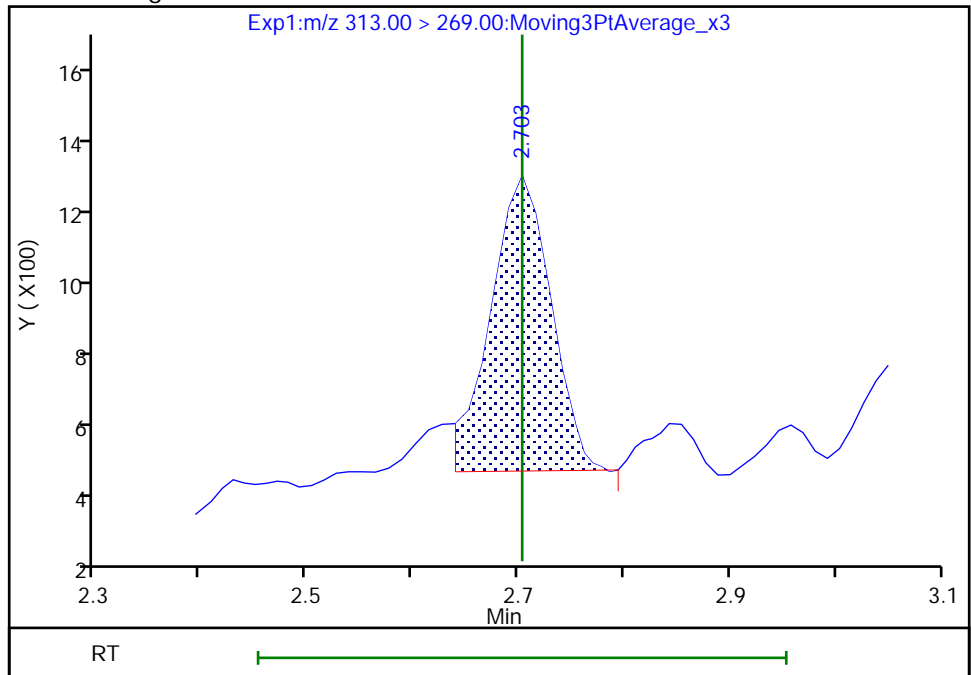
Not Detected  
Expected RT: 2.70

Processing Integration Results



Manual Integration Results

RT: 2.70  
Area: 3213  
Amount: 0.005551  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 11:44:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

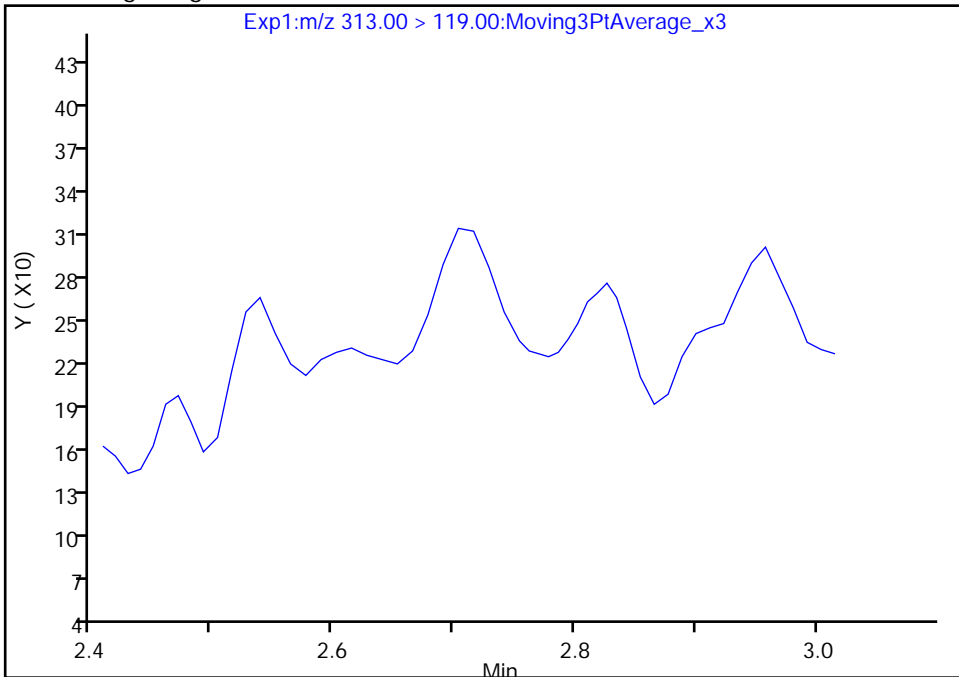
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

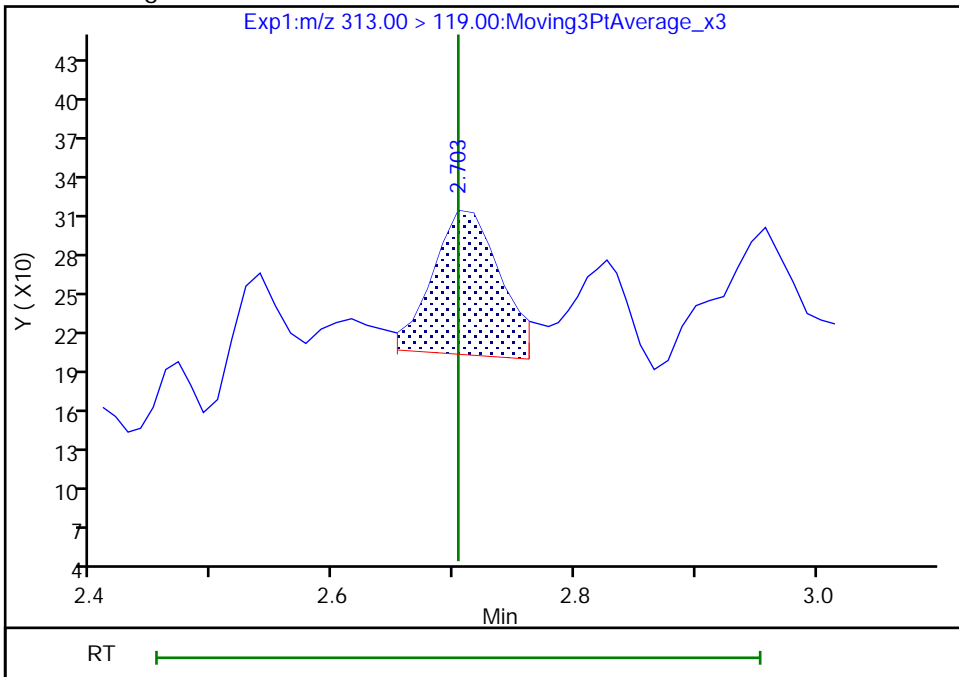
Not Detected  
Expected RT: 2.70

Processing Integration Results



Manual Integration Results

RT: 2.70  
Area: 424  
Amount: 0.005551  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

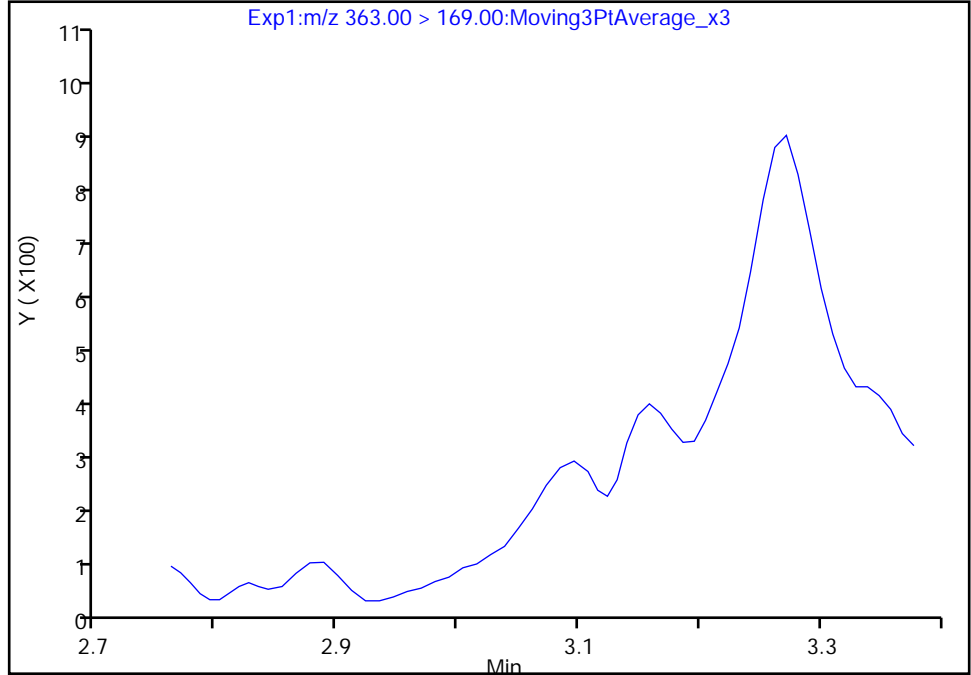
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

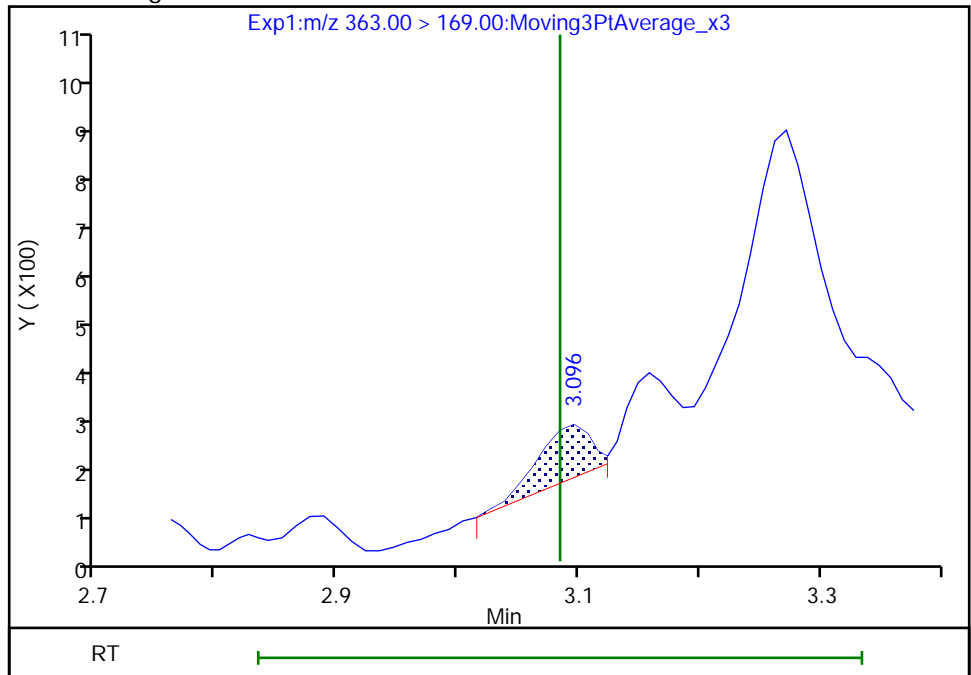
Not Detected  
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.10  
Area: 339  
Amount: 0.002934  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 11:46:00  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

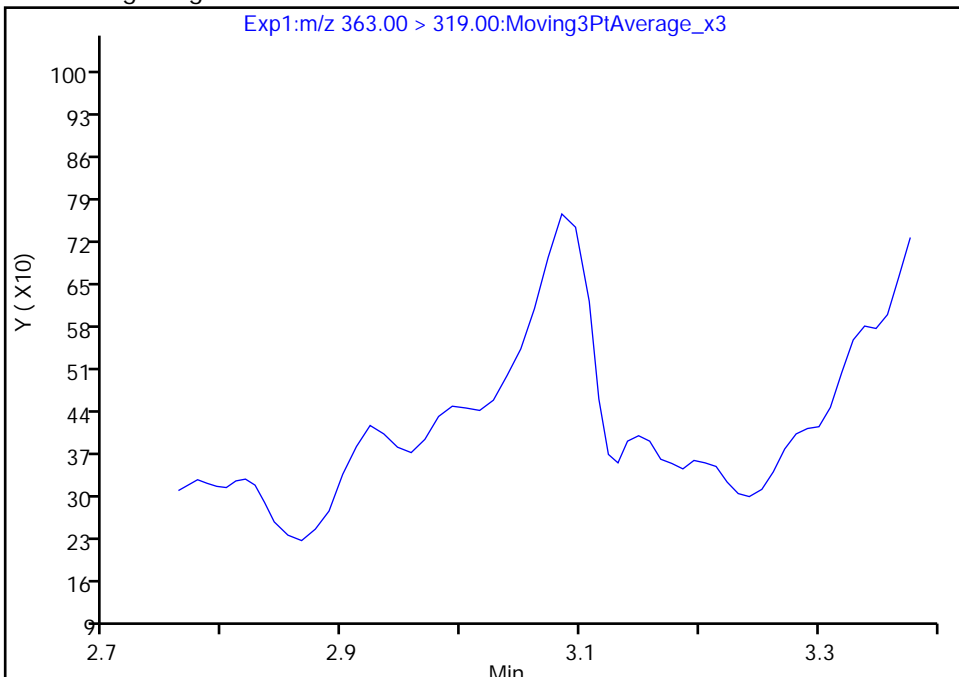
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

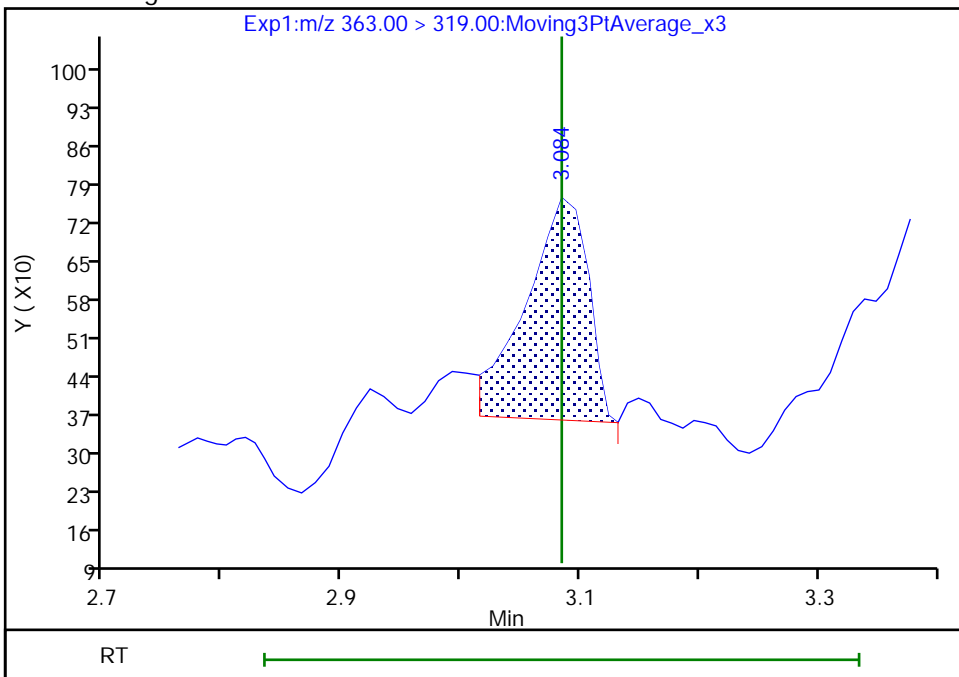
Not Detected  
Expected RT: 3.08

Processing Integration Results



Manual Integration Results

RT: 3.08  
Area: 1474  
Amount: 0.002934  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 16:51:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

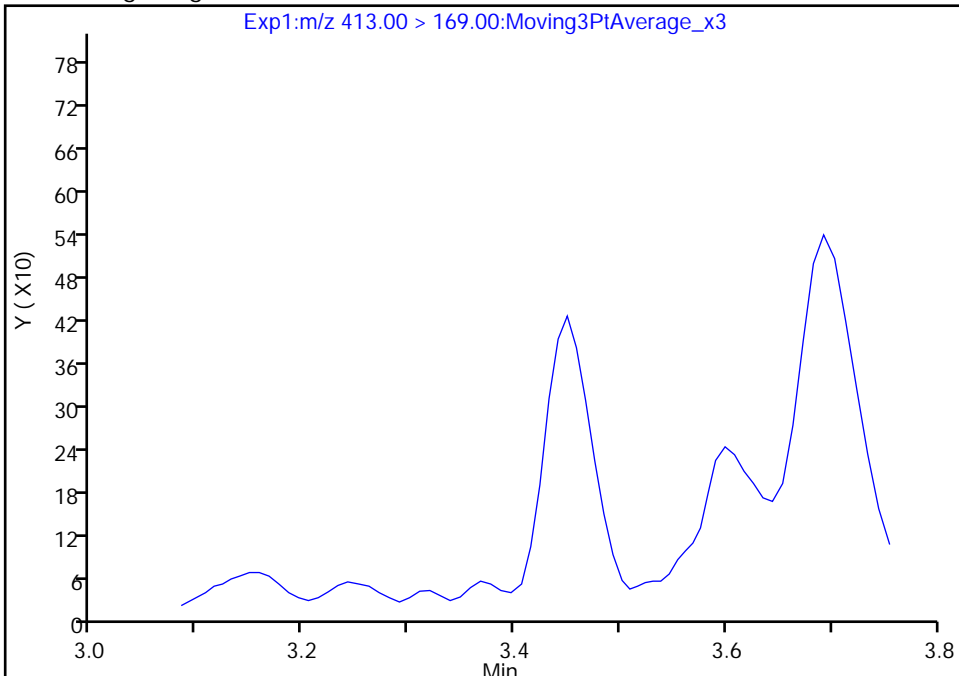
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

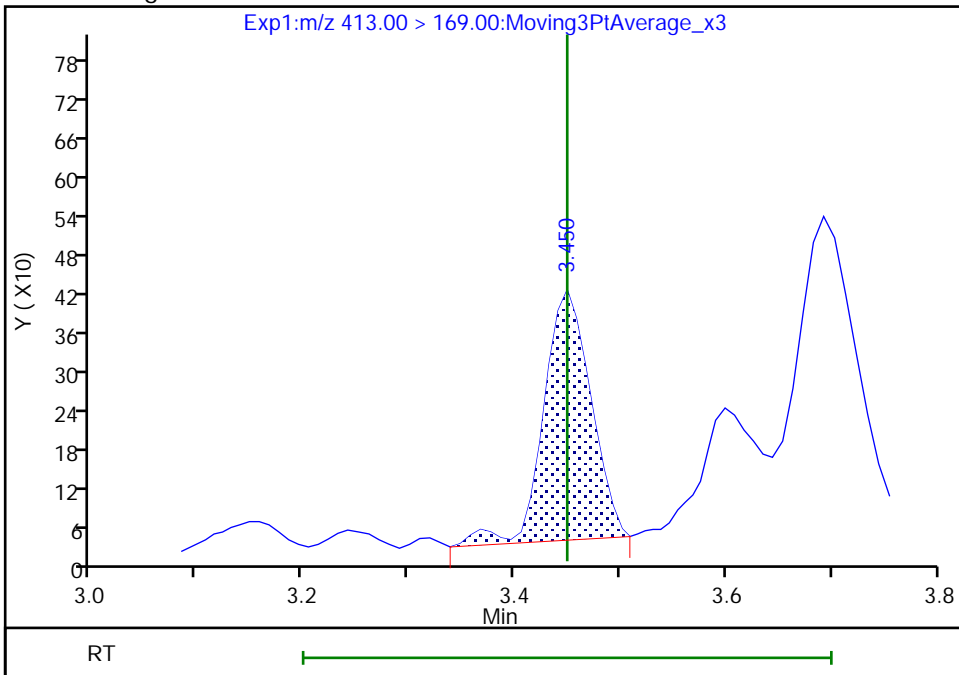
Not Detected  
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45  
Area: 1191  
Amount: 0.007288  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:16:13  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

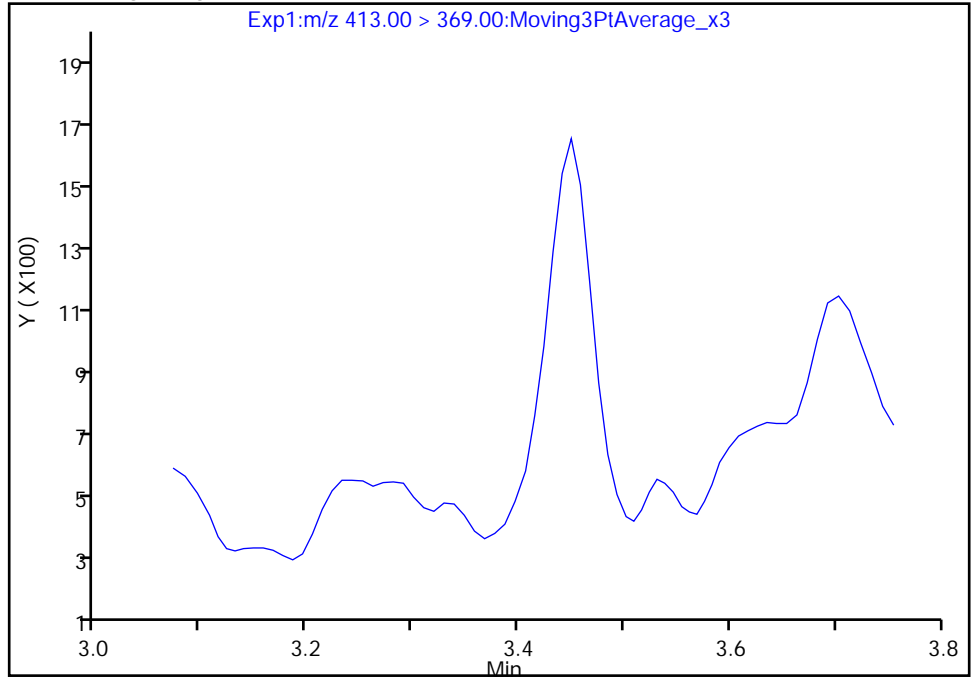
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

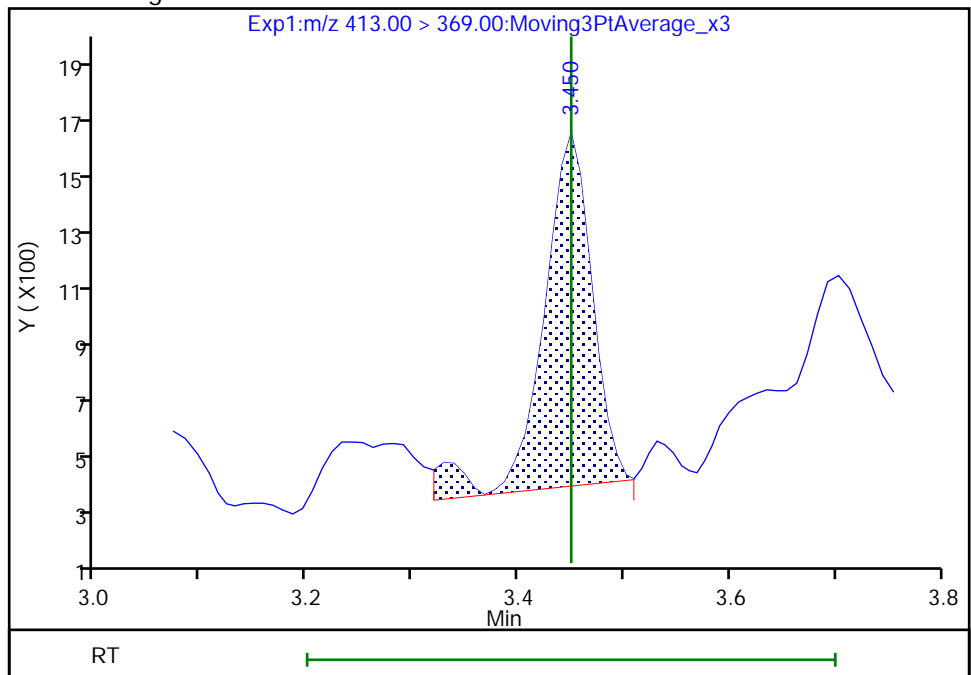
Not Detected  
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45  
Area: 3830  
Amount: 0.007288  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:16:15

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

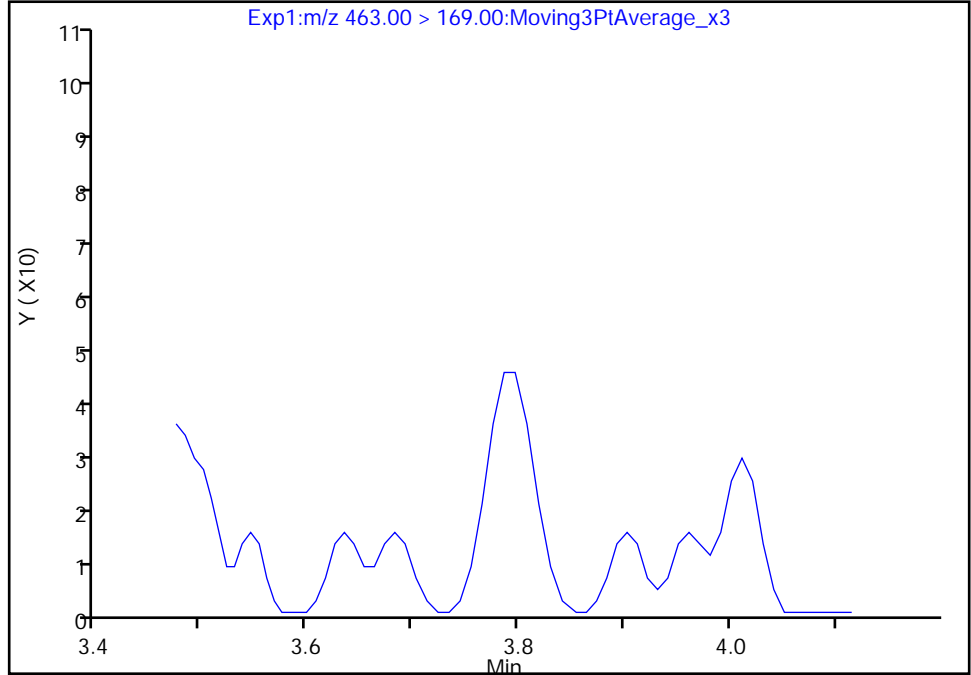
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

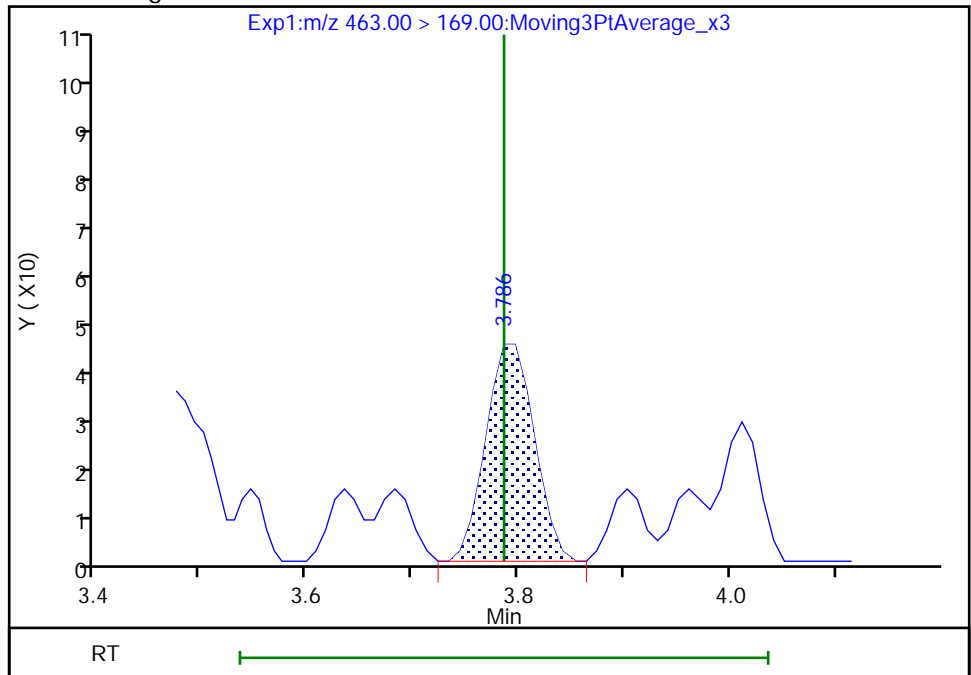
Not Detected  
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.79  
Area: 133  
Amount: 0.004398  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:18:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

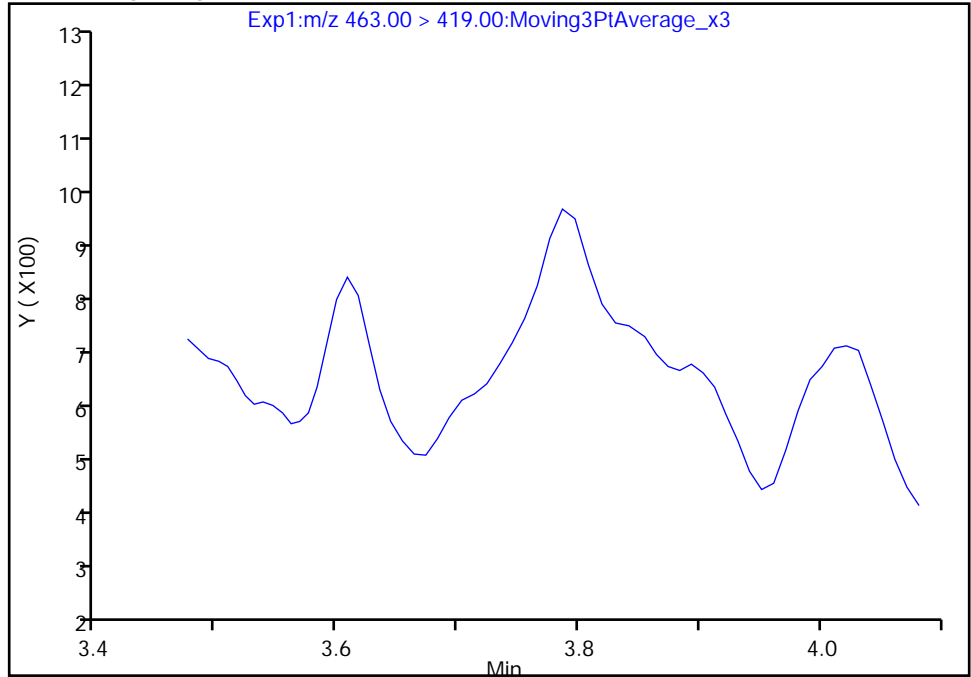
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

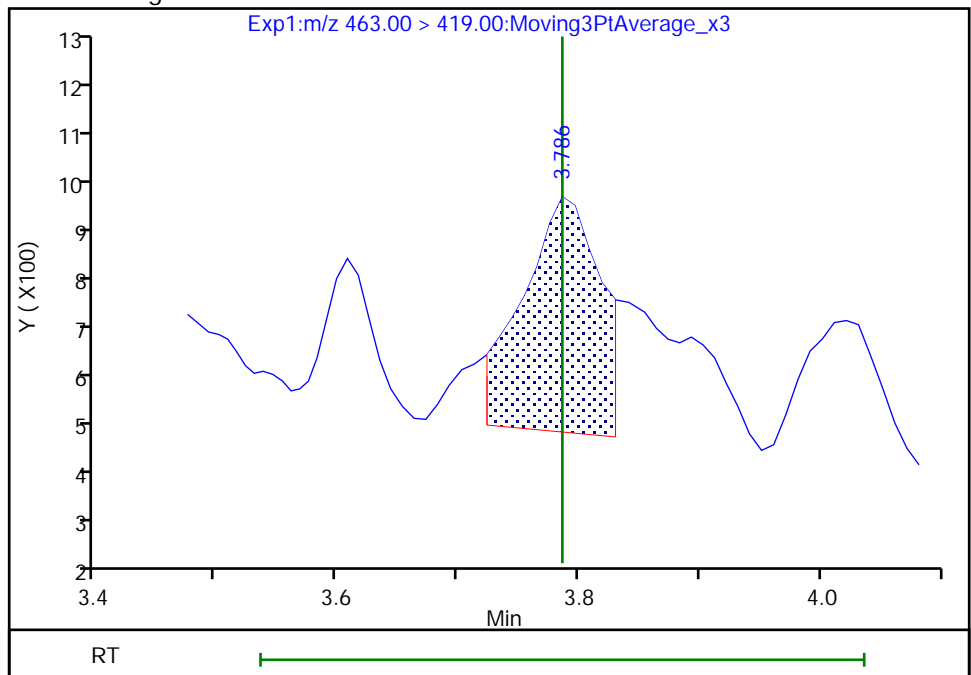
Not Detected  
Expected RT: 3.79

Processing Integration Results



Manual Integration Results

RT: 3.79  
Area: 1989  
Amount: 0.004398  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:18:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

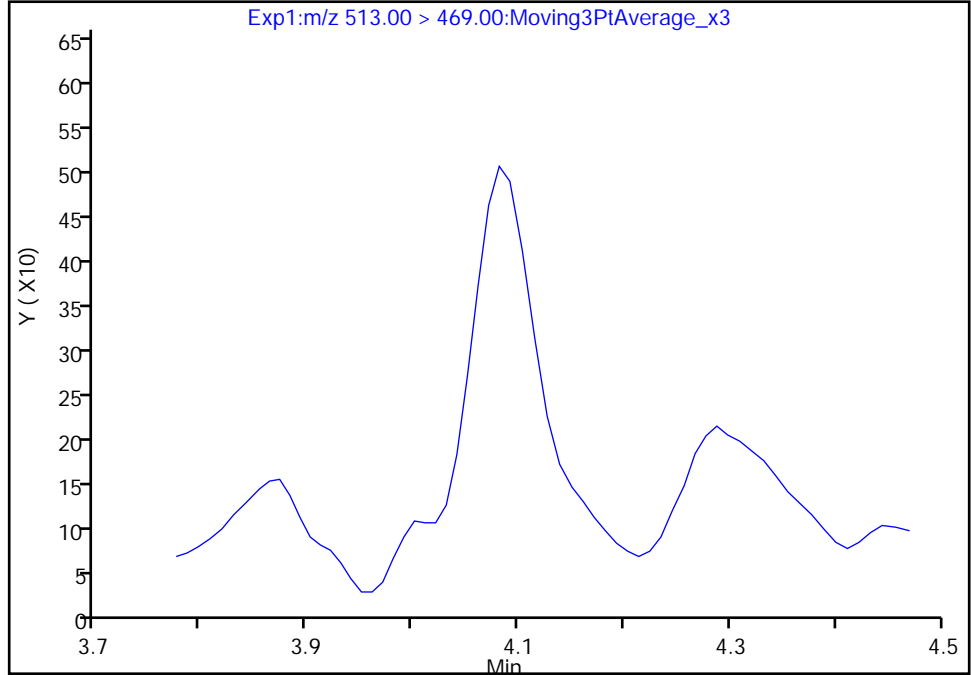
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

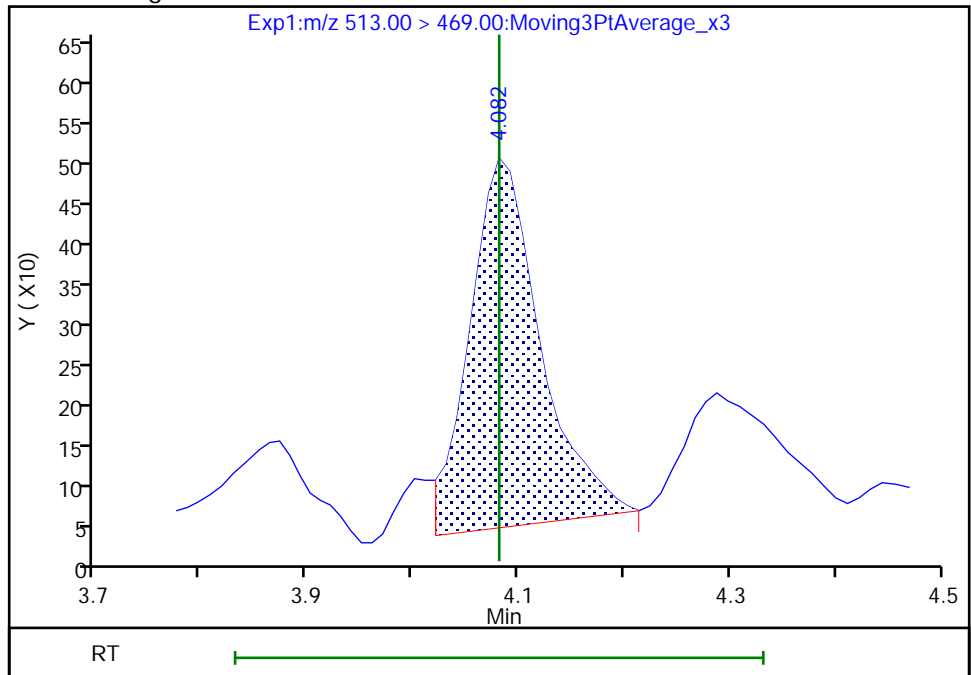
Signal: 1

Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results



RT: 4.08  
Area: 2134  
Amount: 0.005380  
Amount Units: ng/ml

Reviewer: manopan, 01-Oct-2020 12:19:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

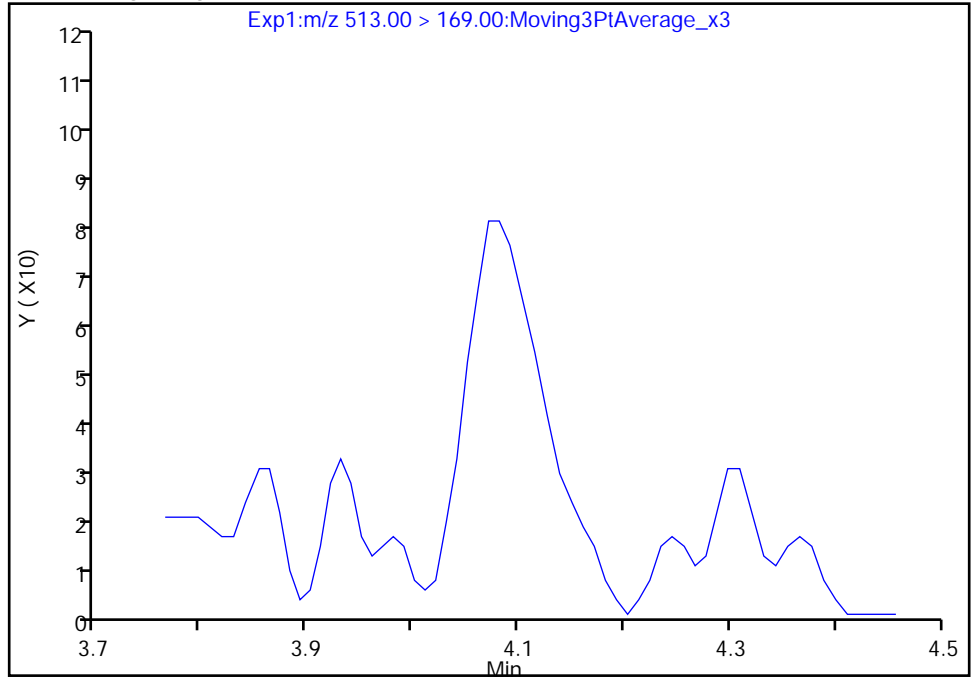
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

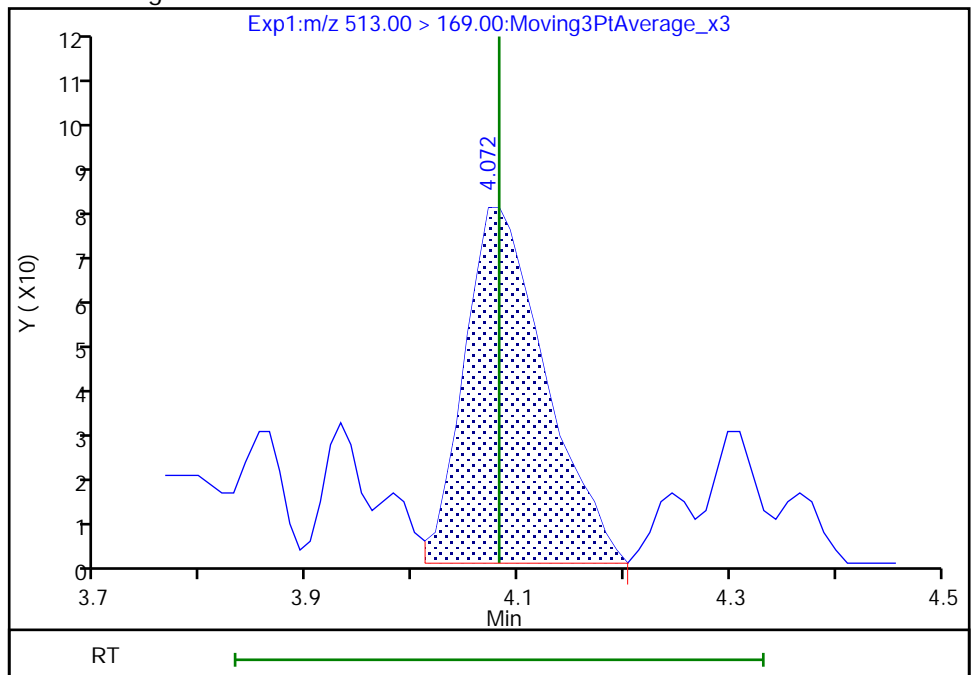
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.07  
Area: 430  
Amount: 0.005380  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:19:10

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

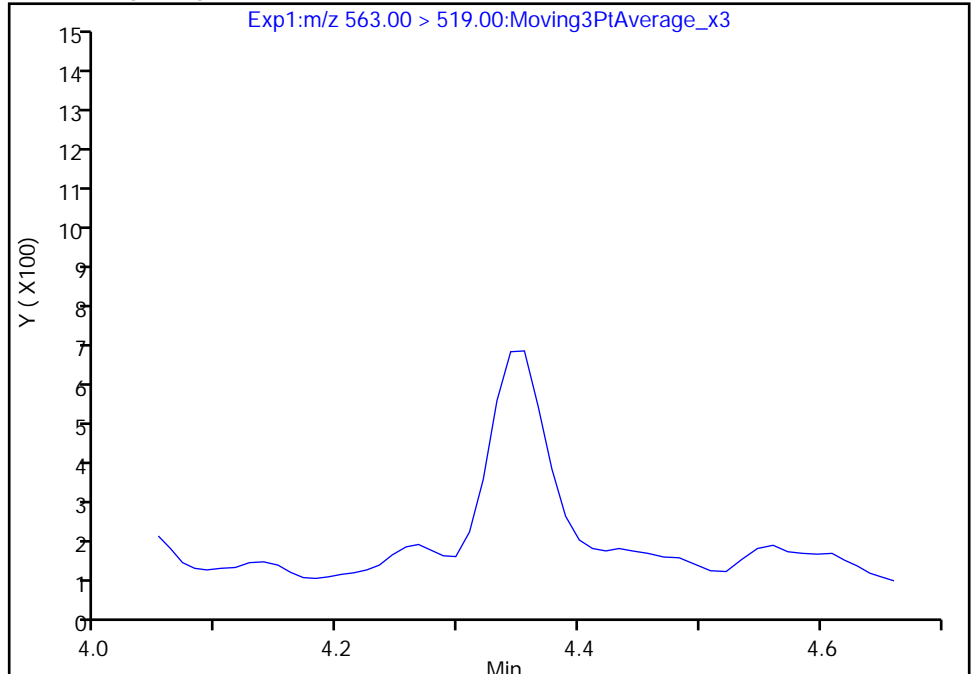
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

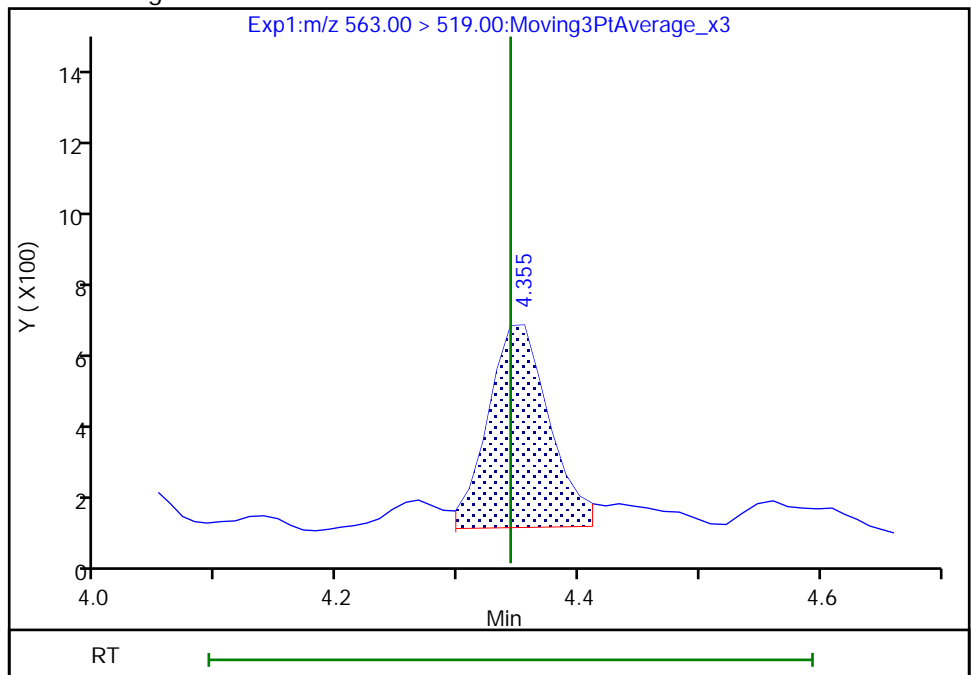
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.35  
Area: 1937  
Amount: 0.008295  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:26:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

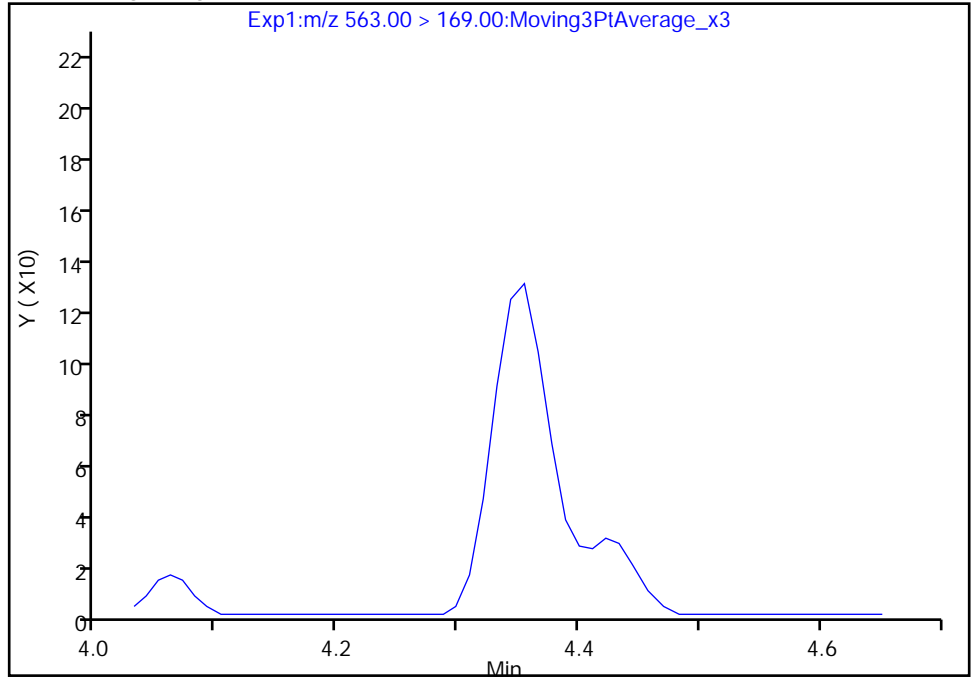
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

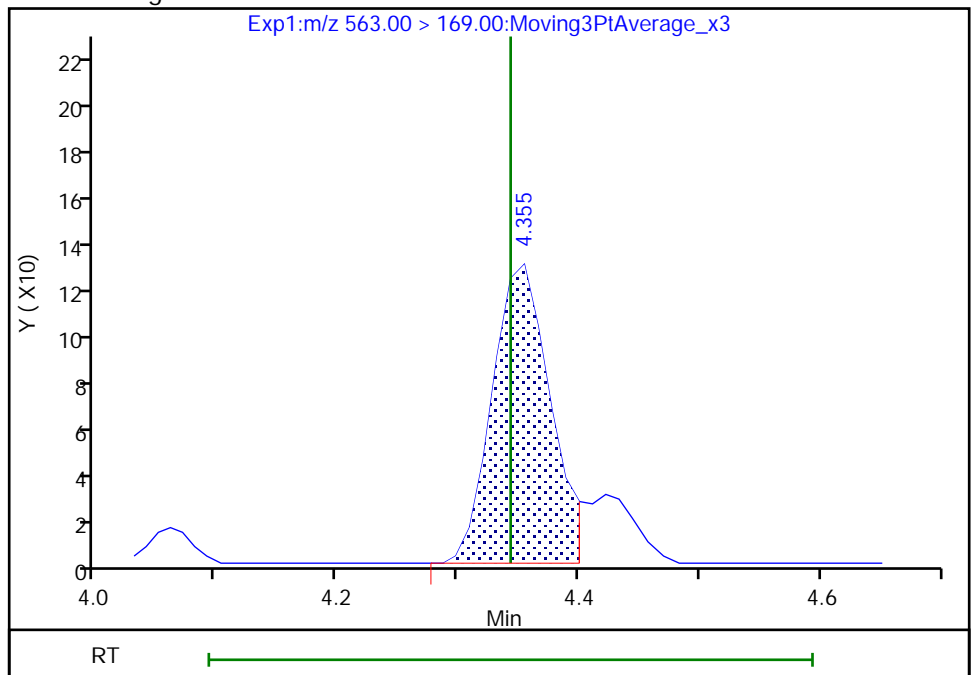
Not Detected  
Expected RT: 4.34

Processing Integration Results



Manual Integration Results

RT: 4.35  
Area: 415  
Amount: 0.008295  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:26:46

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

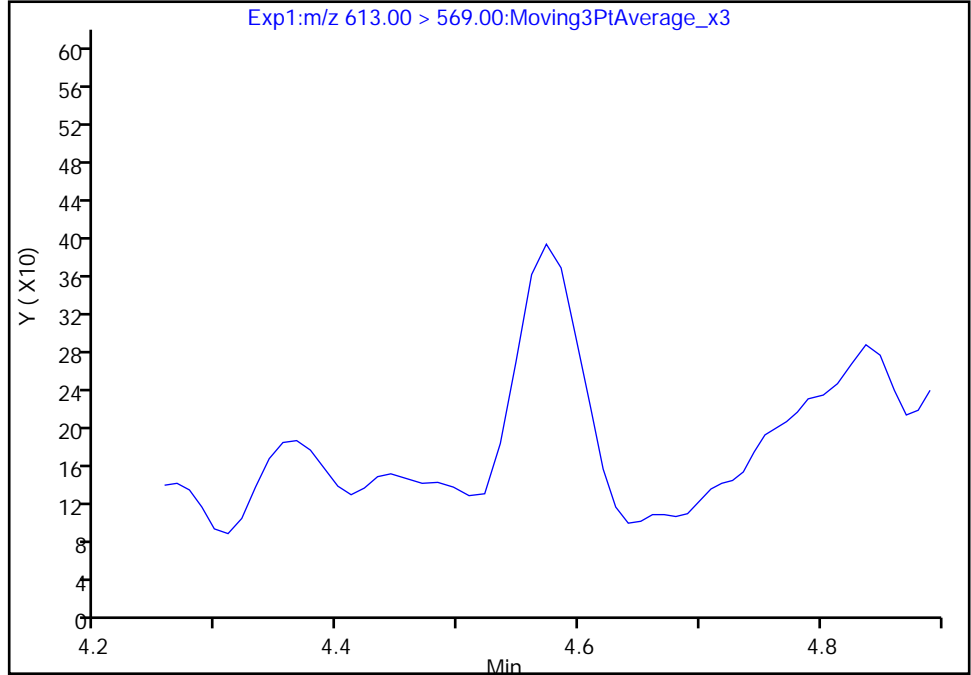
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 1

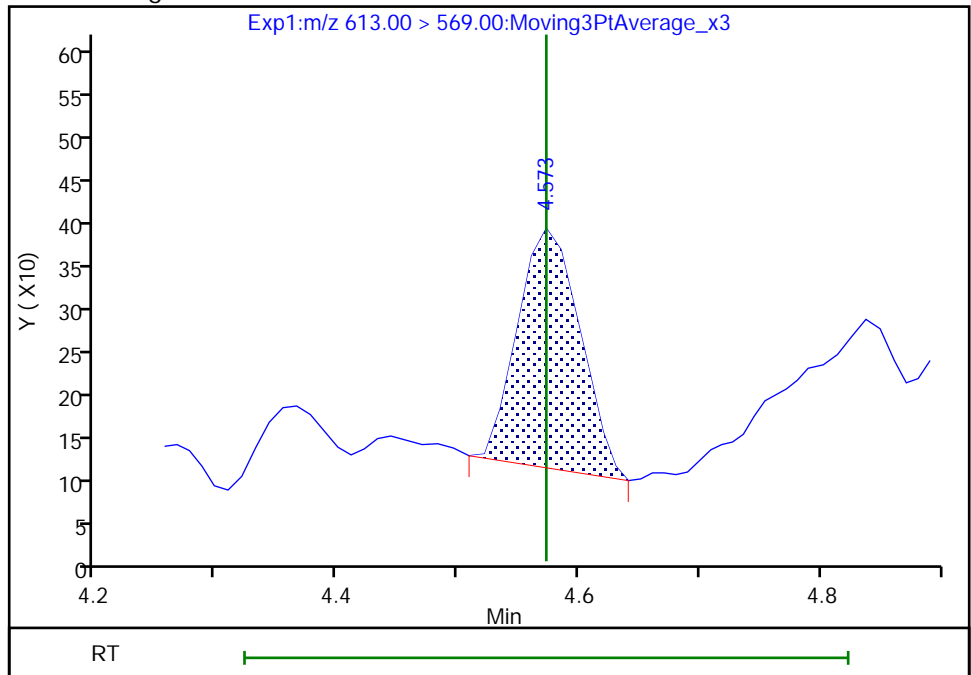
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.57  
Area: 1000  
Amount: 0.006046  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:27:05  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

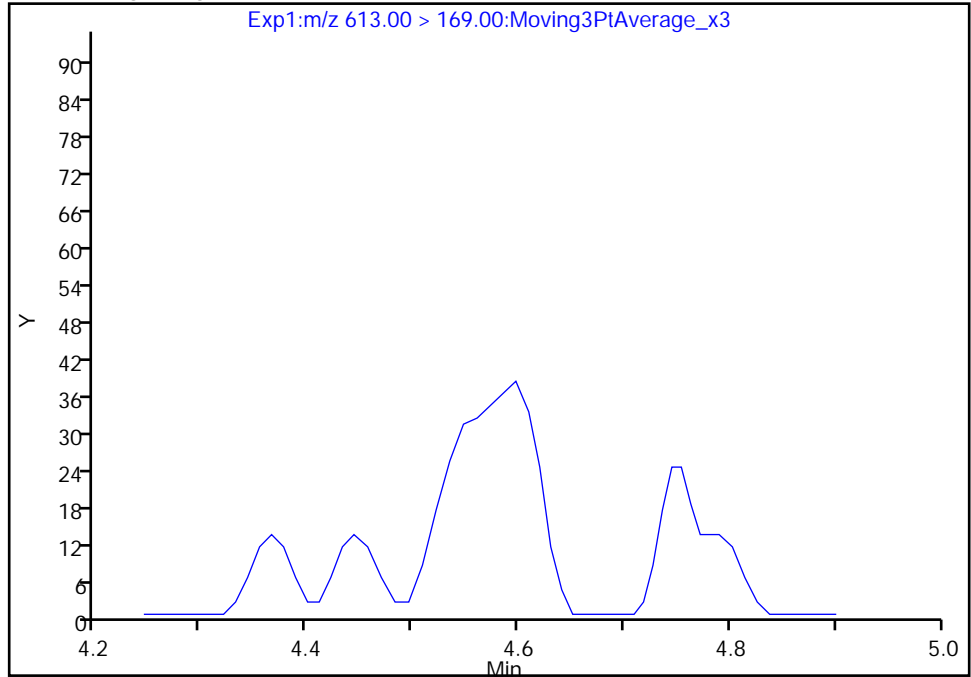
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

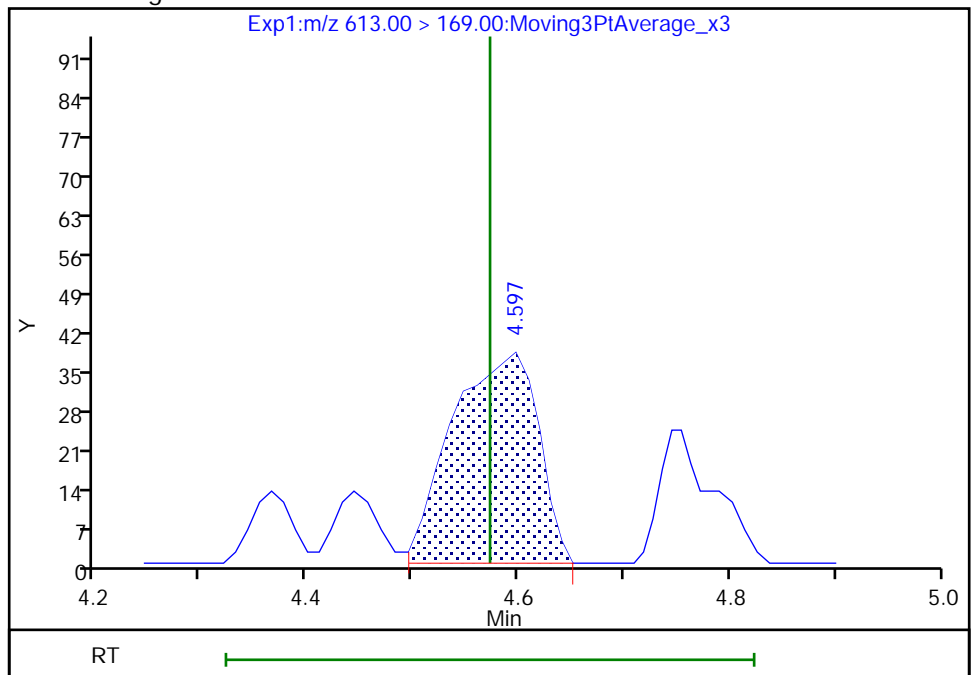
Not Detected  
Expected RT: 4.57

Processing Integration Results



Manual Integration Results

RT: 4.60  
Area: 213  
Amount: 0.006046  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:27:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

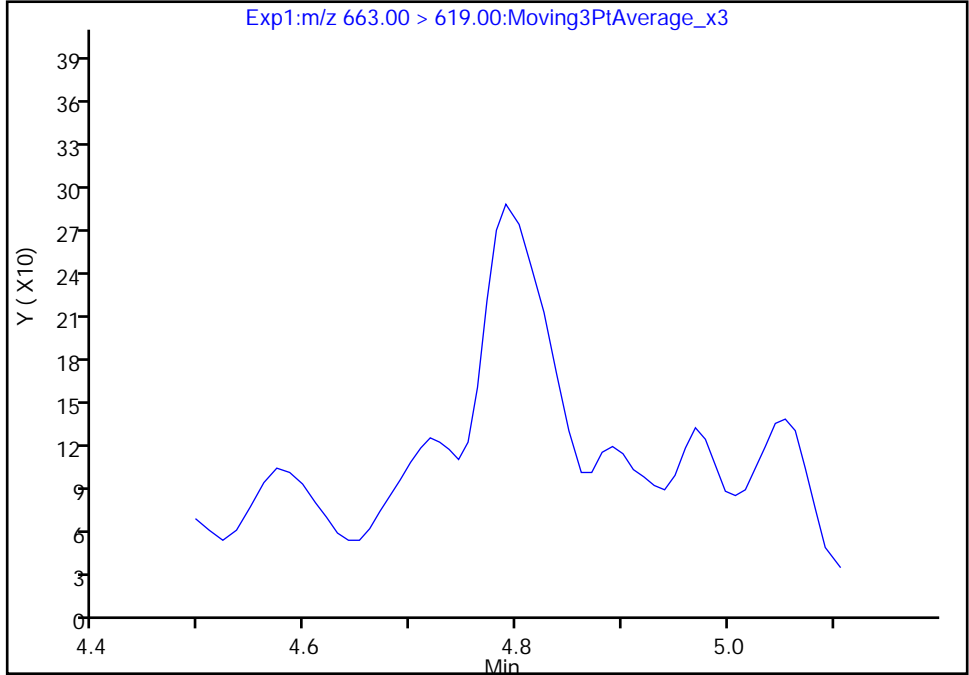
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

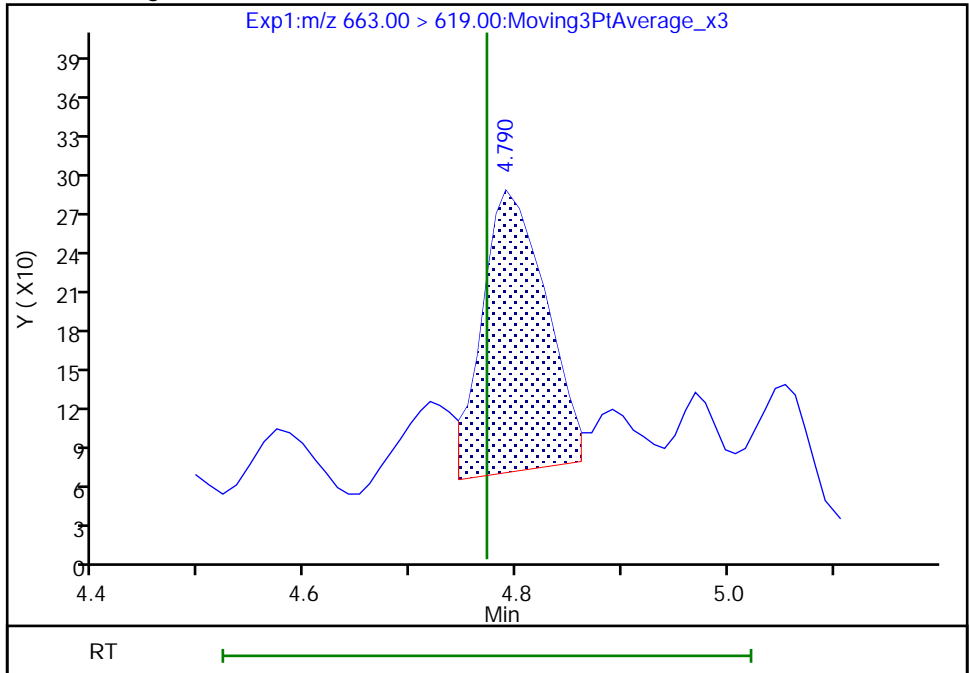
Processing Integration Results

Not Detected  
Expected RT: 4.77



Manual Integration Results

RT: 4.79  
Area: 894  
Amount: 0.006364  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

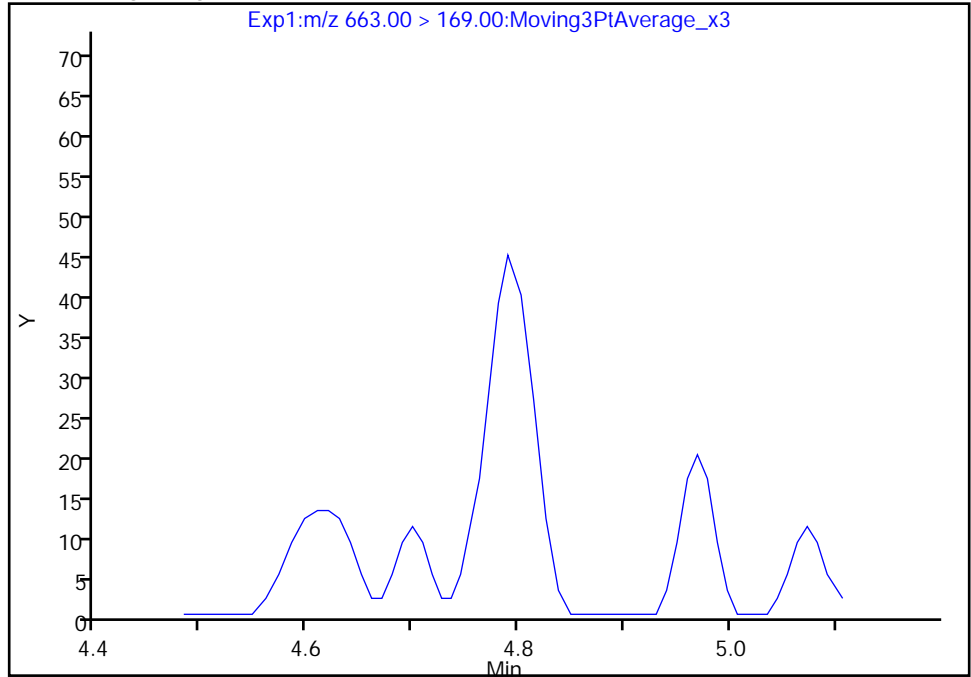
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

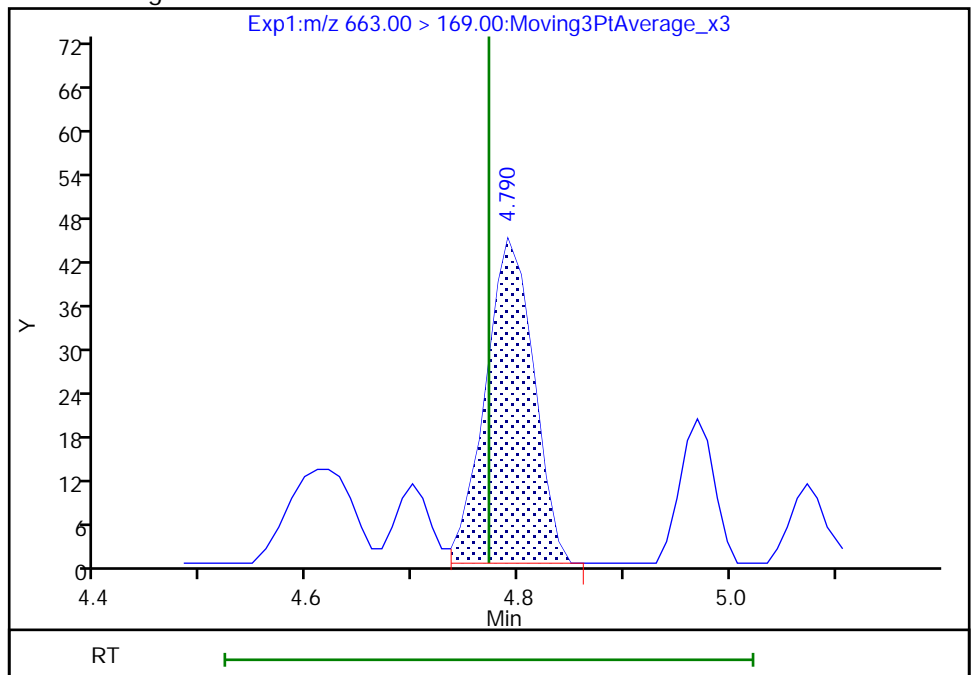
Not Detected  
Expected RT: 4.77

Processing Integration Results



RT: 4.79  
Area: 142  
Amount: 0.006364  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

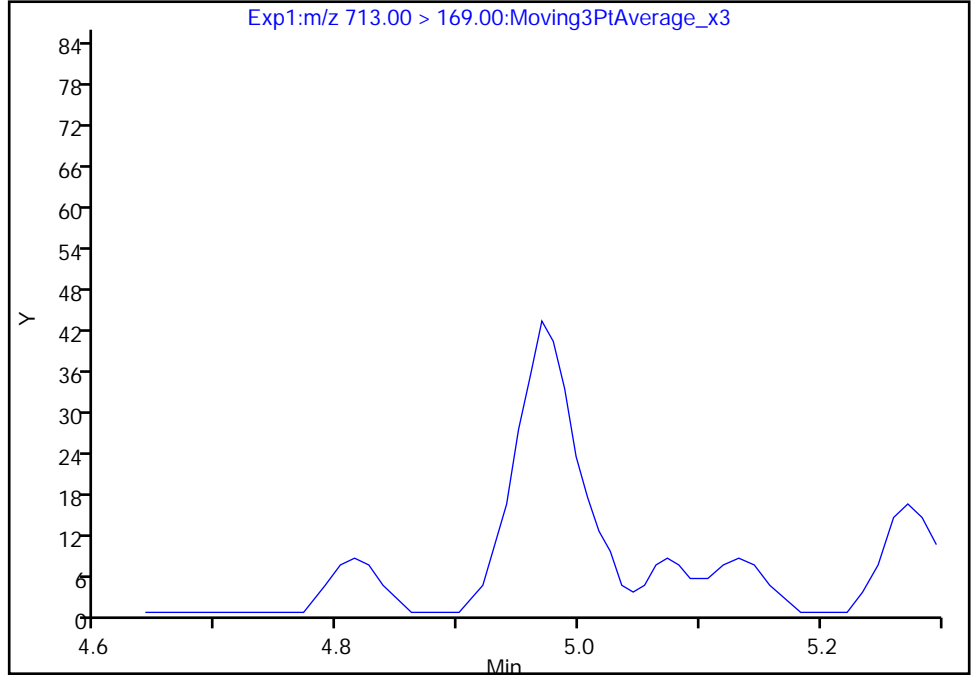
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

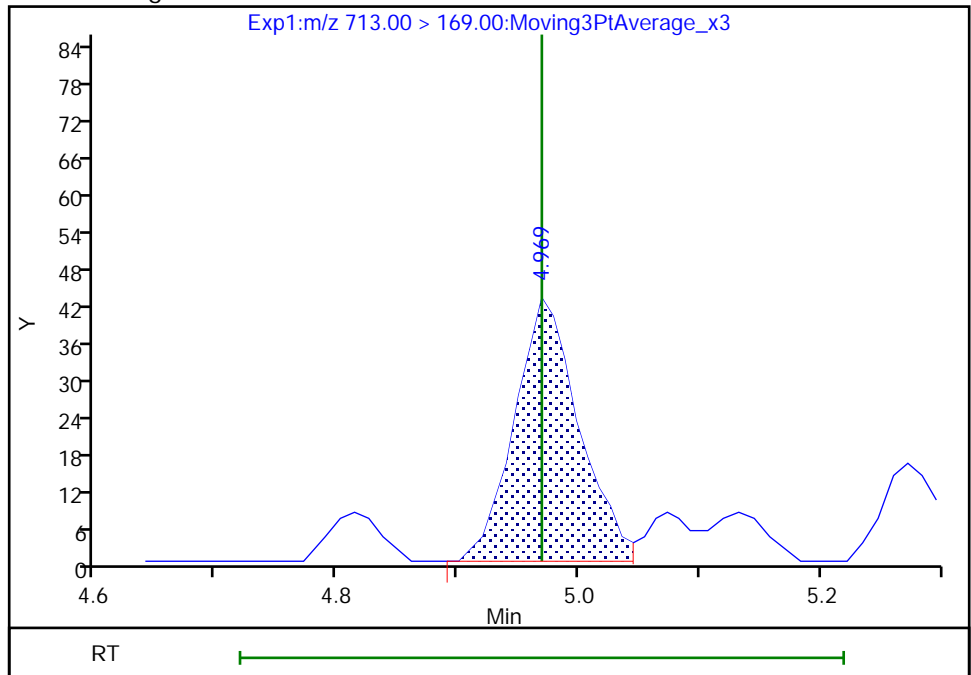
Not Detected  
Expected RT: 4.97

Processing Integration Results



RT: 4.97  
Area: 158  
Amount: 0.006398  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:28:57  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

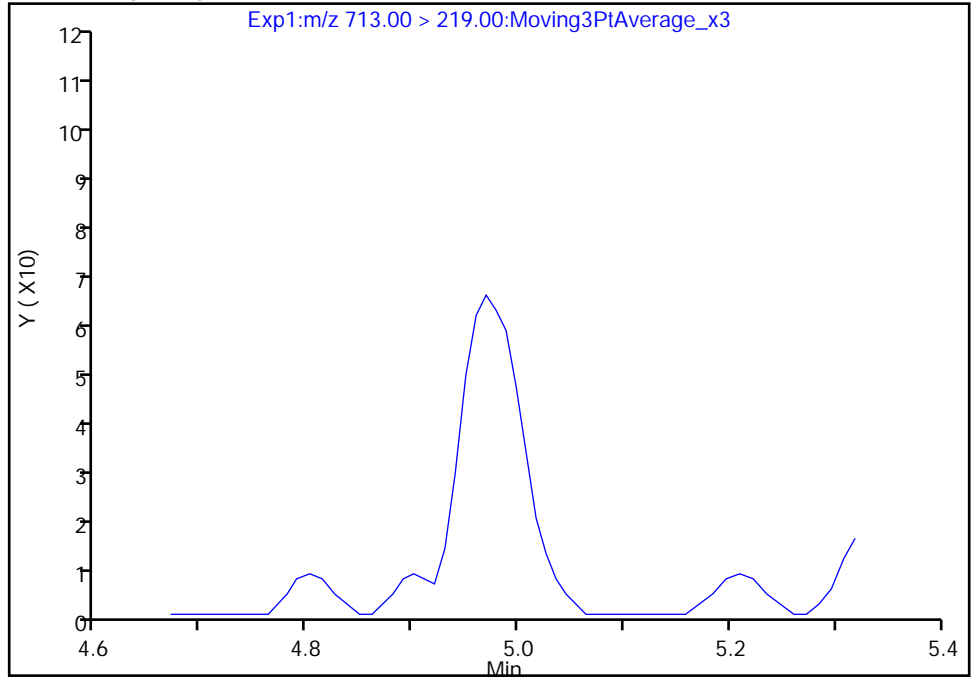
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

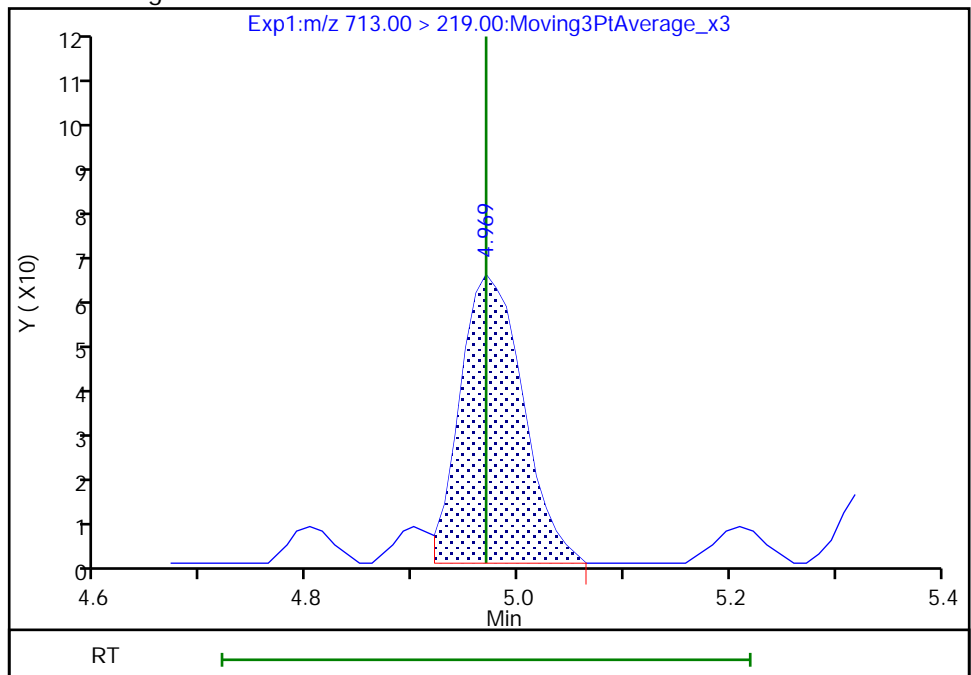
Not Detected  
Expected RT: 4.97

Processing Integration Results



Manual Integration Results

RT: 4.97  
Area: 258  
Amount: 0.006398  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

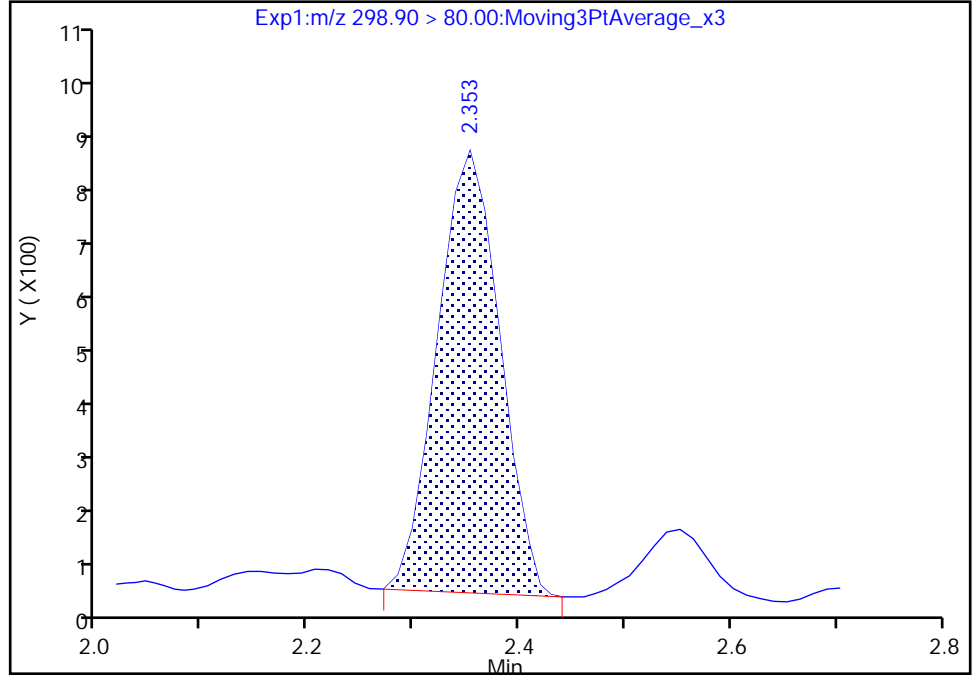
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

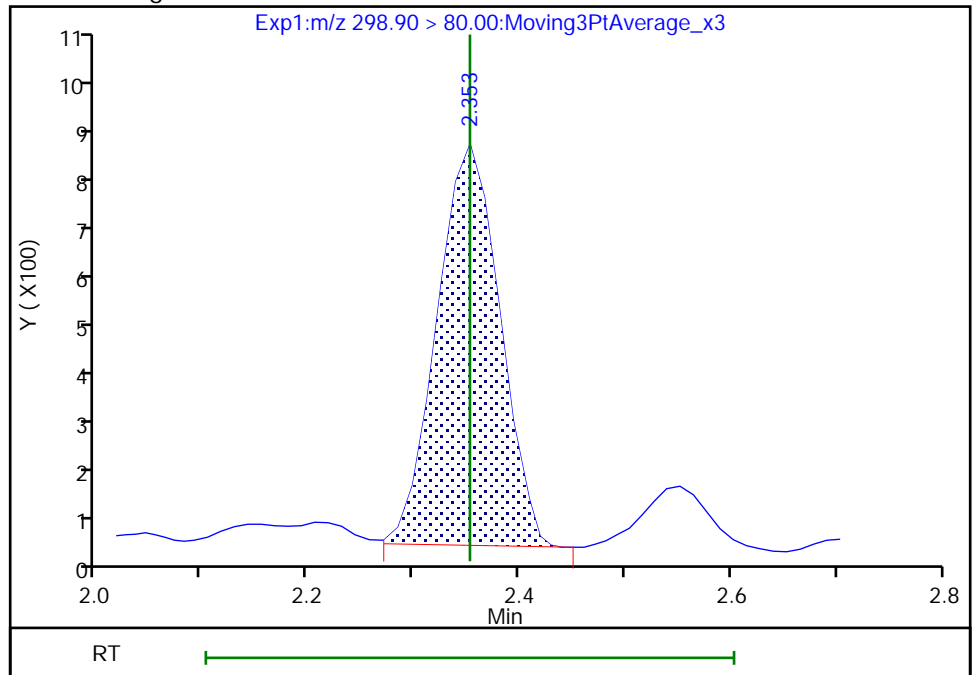
RT: 2.35  
Area: 3277  
Amount: 0.005017  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 3311  
Amount: 0.005069  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:42:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

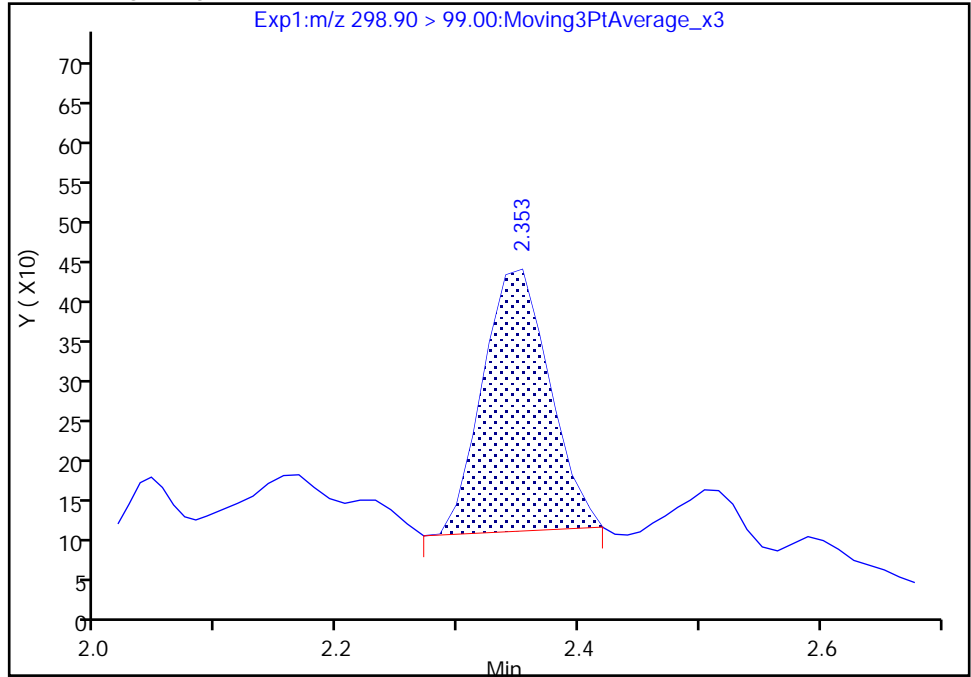
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

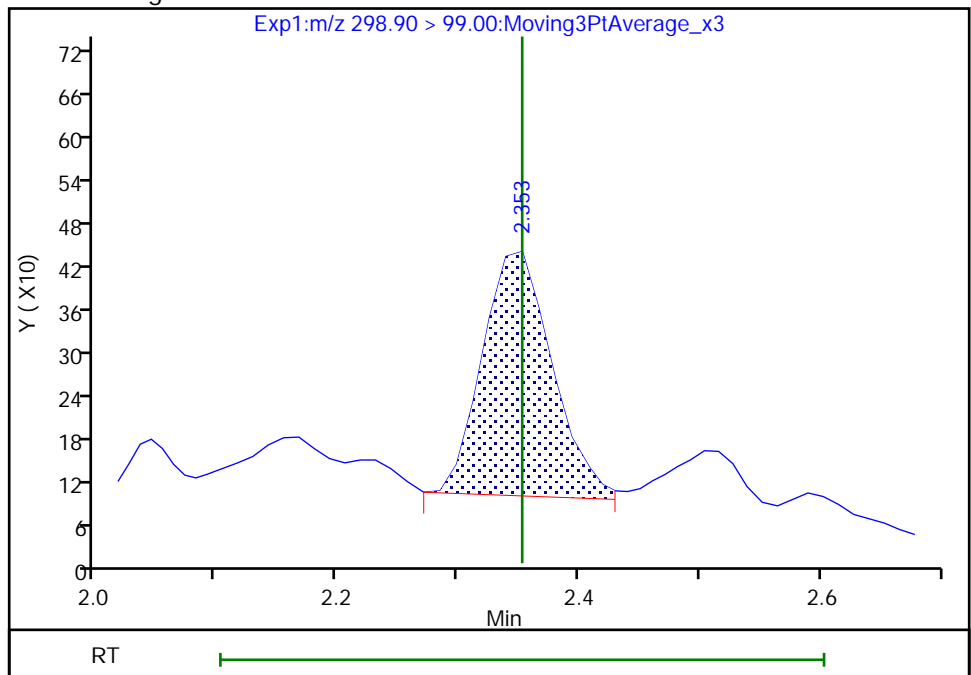
RT: 2.35  
Area: 1266  
Amount: 0.005017  
Amount Units: ng/ml

Processing Integration Results



RT: 2.35  
Area: 1366  
Amount: 0.005069  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:42:25

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

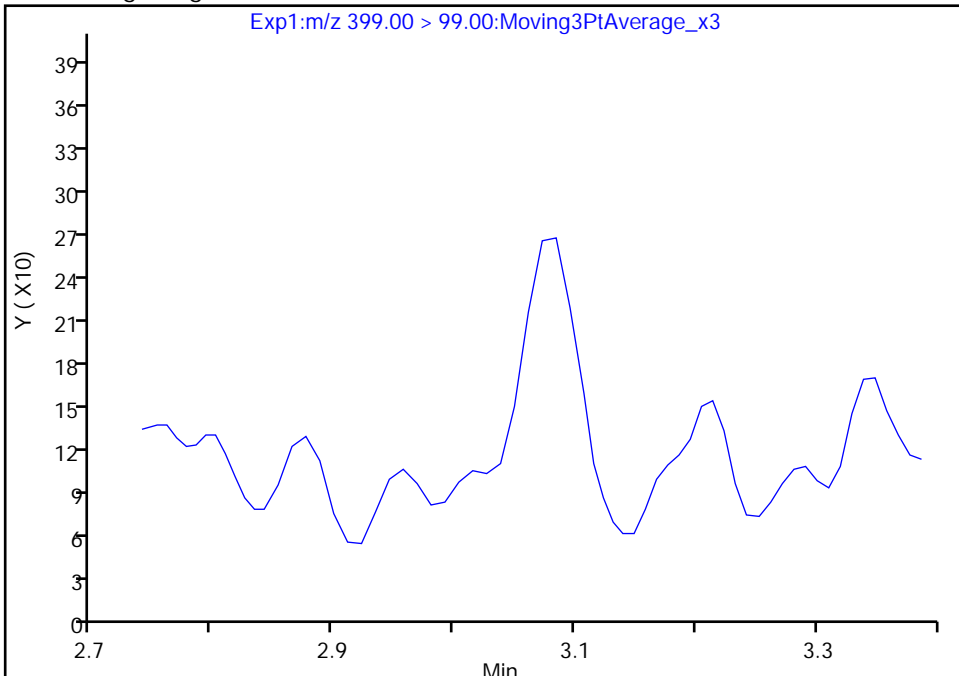
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

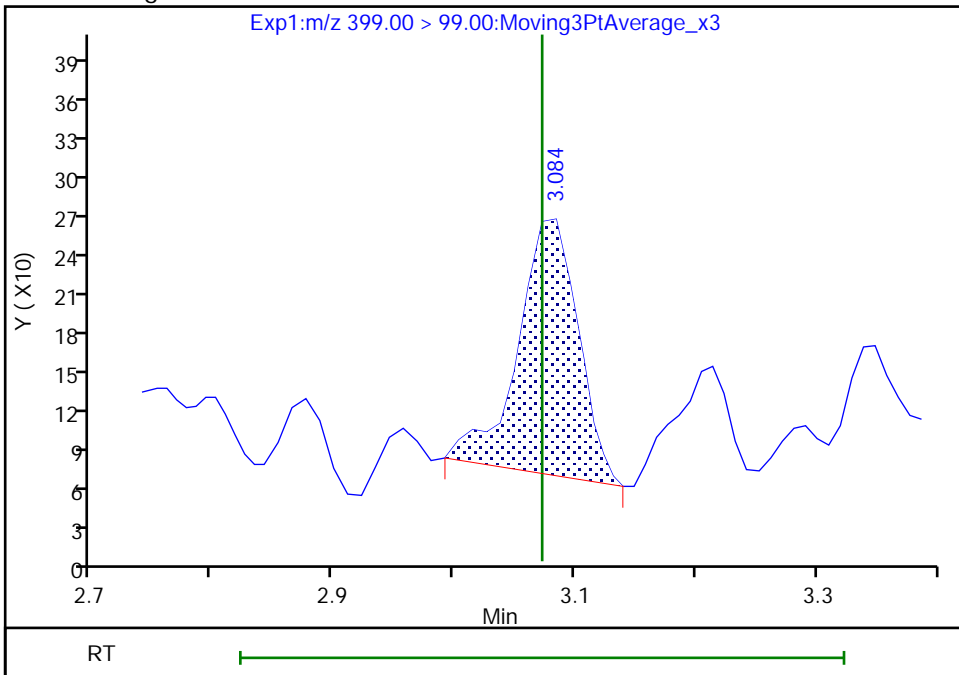
Not Detected  
Expected RT: 3.07

Processing Integration Results



Manual Integration Results

RT: 3.08  
Area: 688  
Amount: 0.006312  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 11:45:34  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

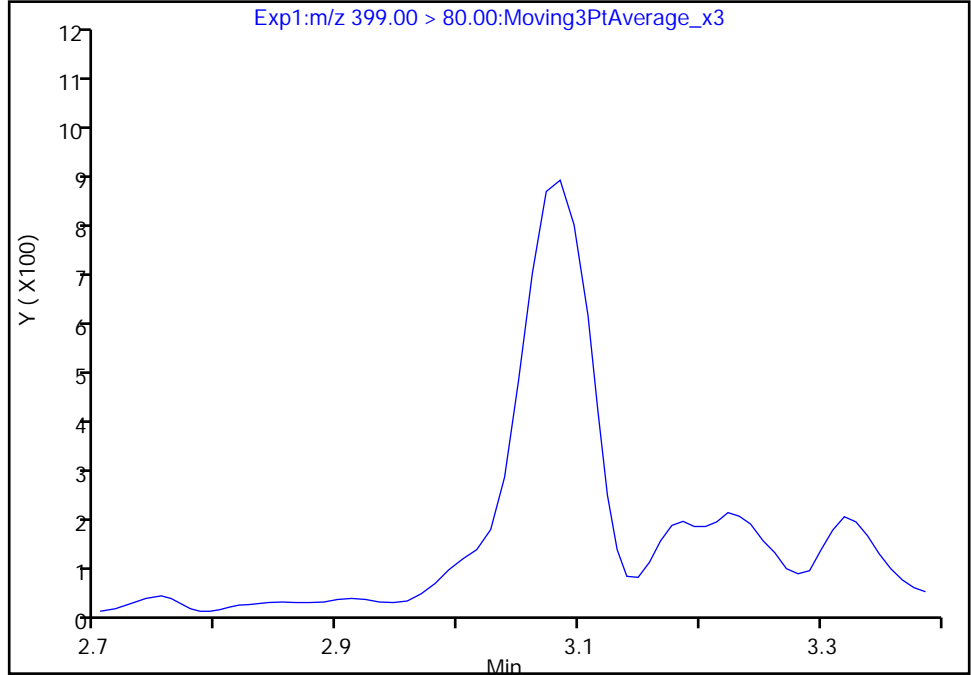
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

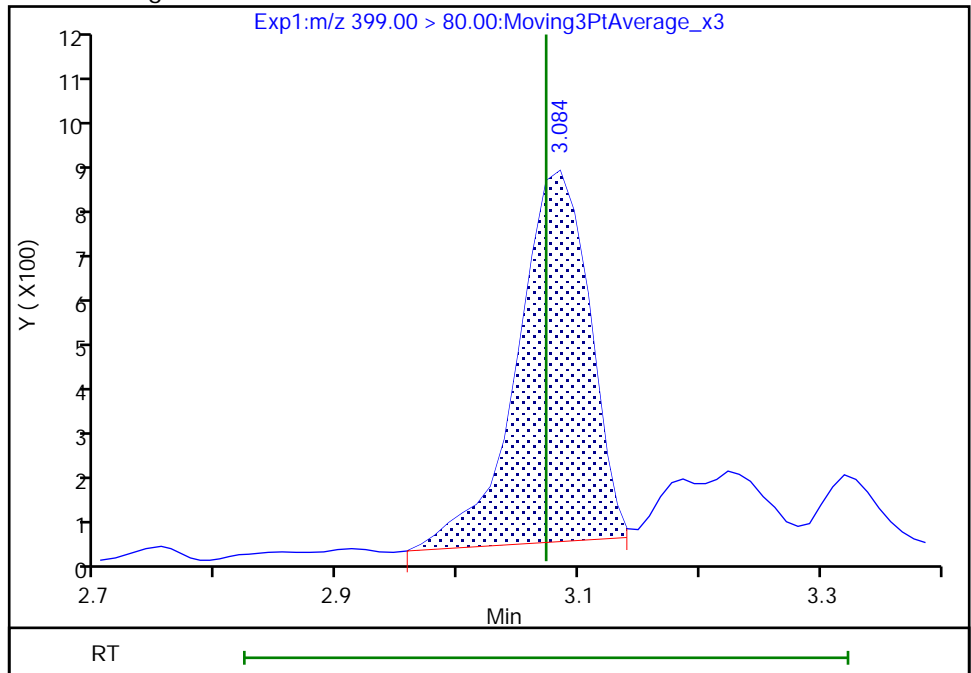
Not Detected  
Expected RT: 3.07

Processing Integration Results



RT: 3.08  
Area: 3330  
Amount: 0.006312  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 11:45:37

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

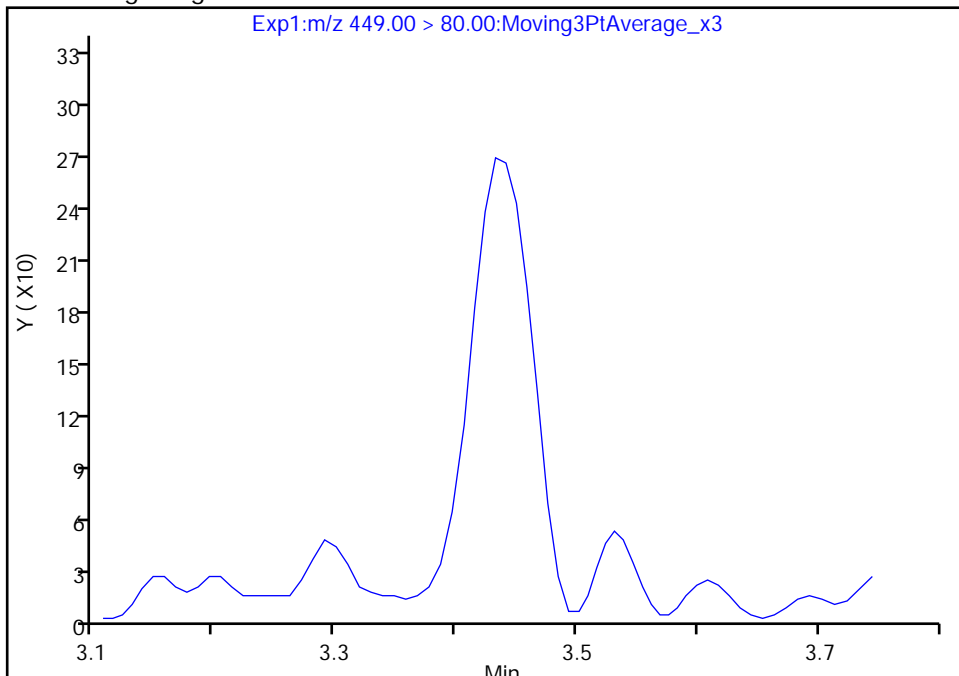
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

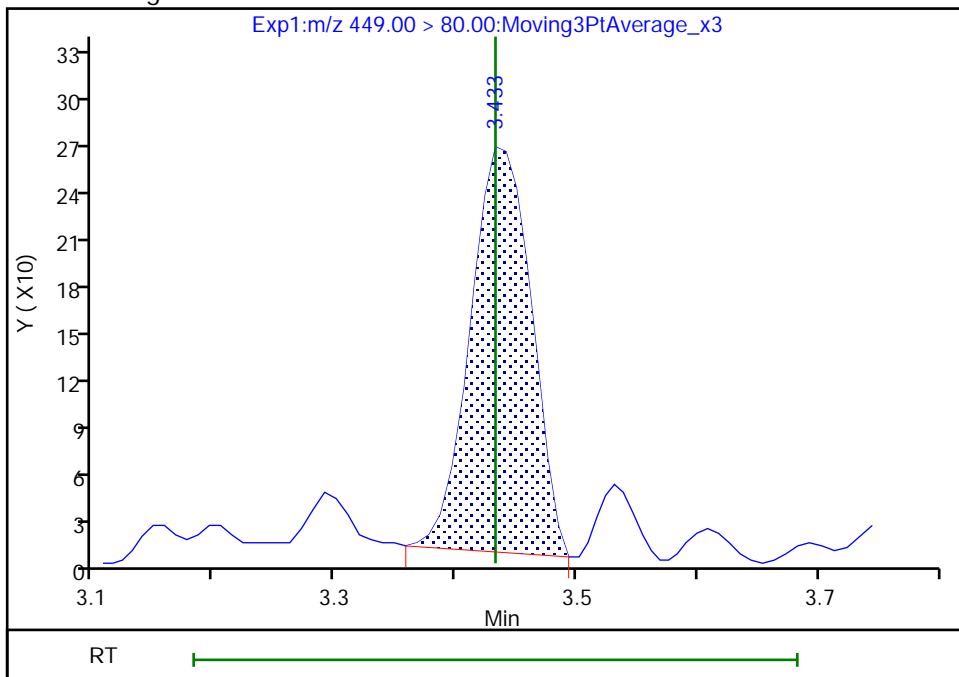
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43  
Area: 899  
Amount: 0.002027  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 11:46:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

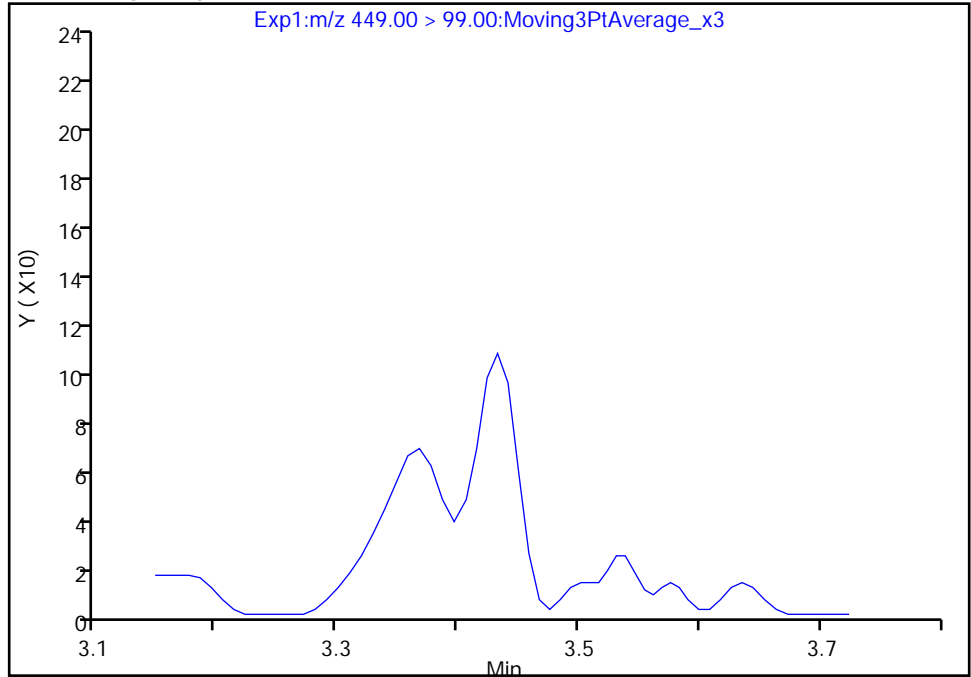
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

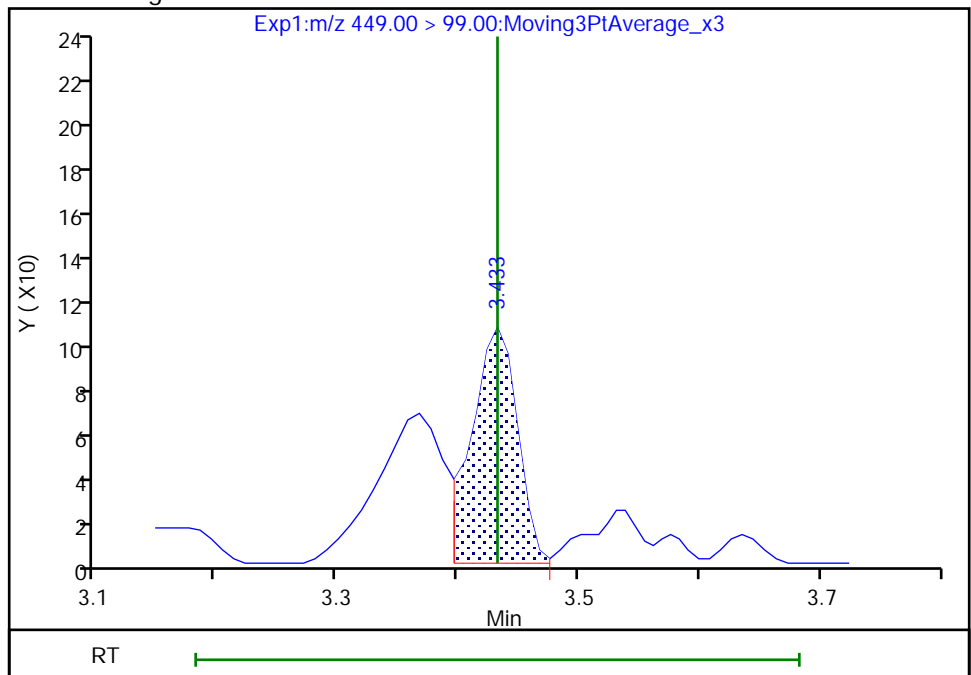
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.43  
Area: 275  
Amount: 0.002027  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 11:47:05

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

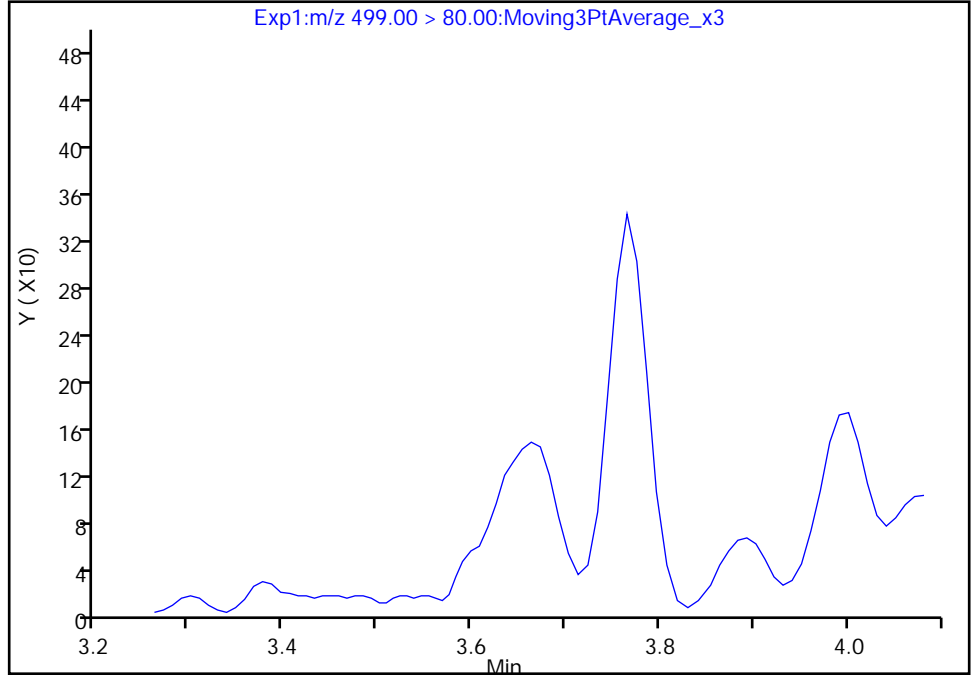
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

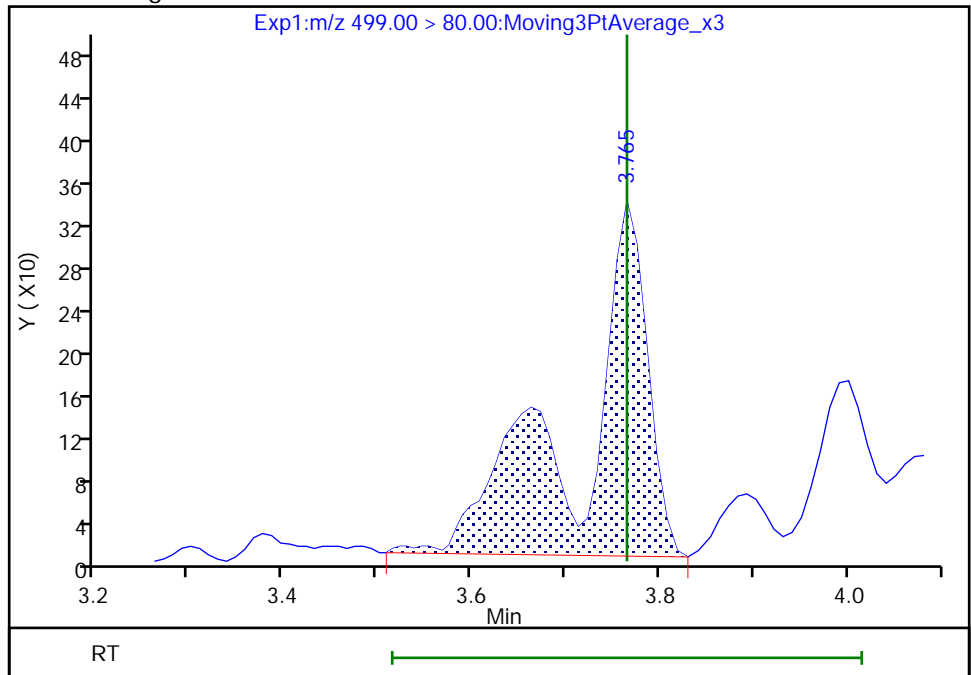
Not Detected  
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.77  
Area: 1657  
Amount: 0.003984  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:17:55  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

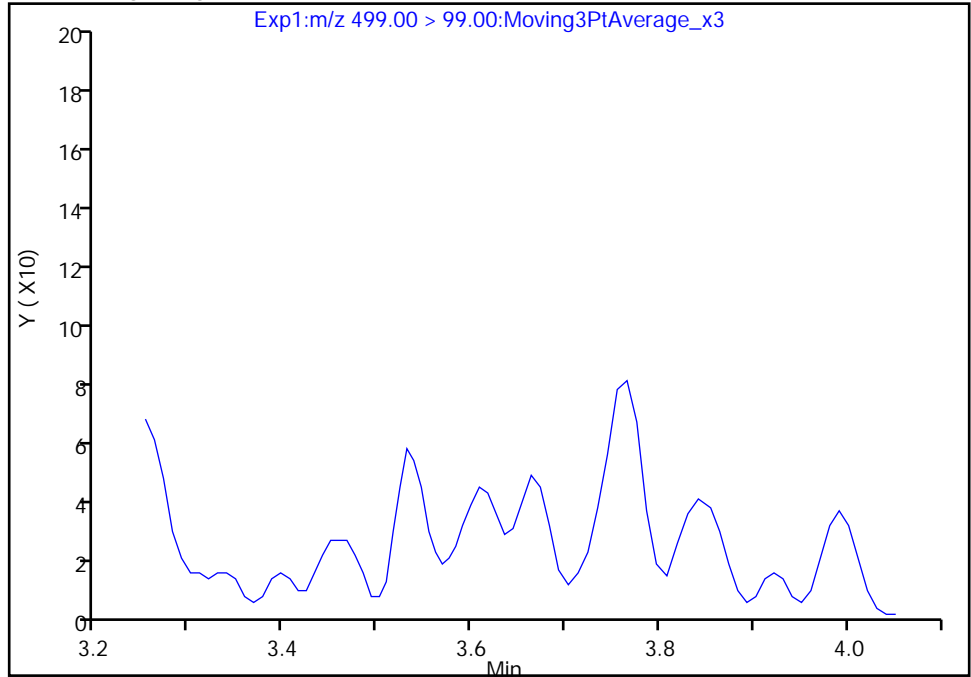
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

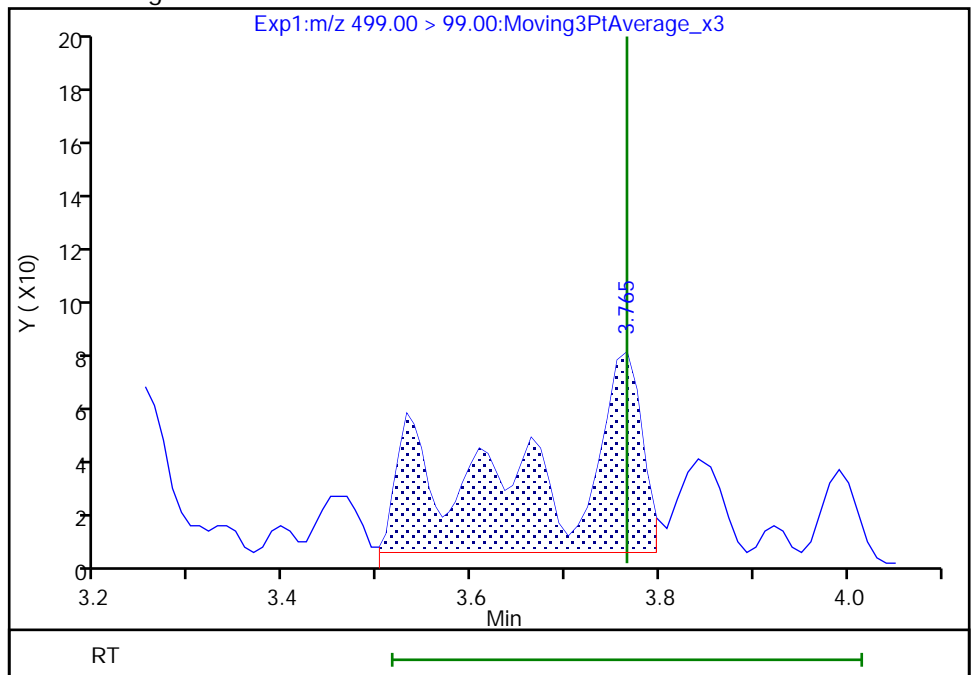
Not Detected  
Expected RT: 3.77

Processing Integration Results



Manual Integration Results

RT: 3.77  
Area: 561  
Amount: 0.003984  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

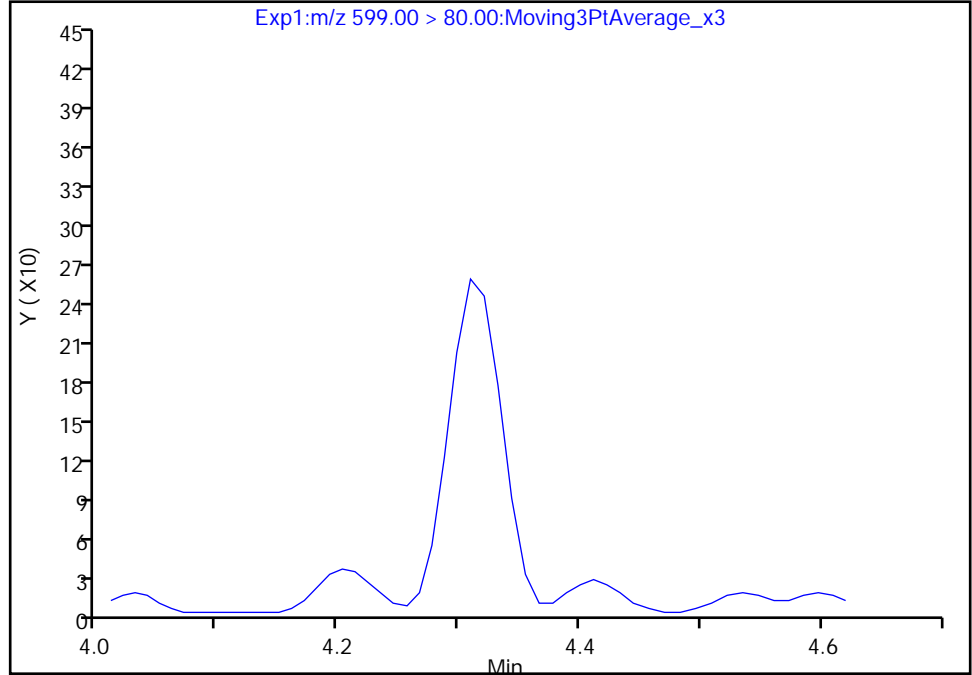
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

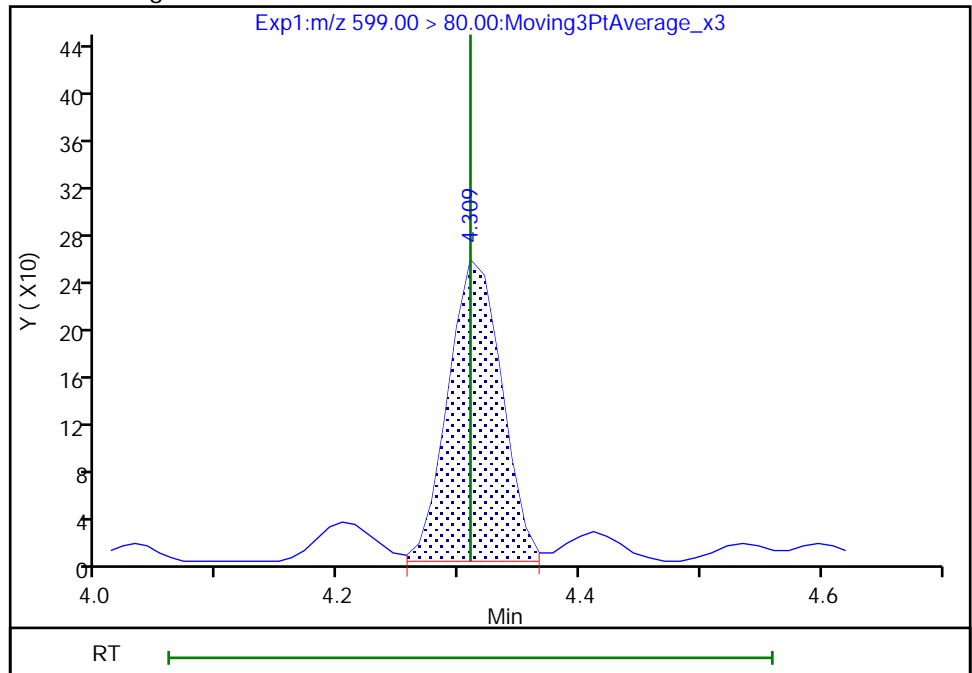
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 781  
Amount: 0.002839  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:26:25  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

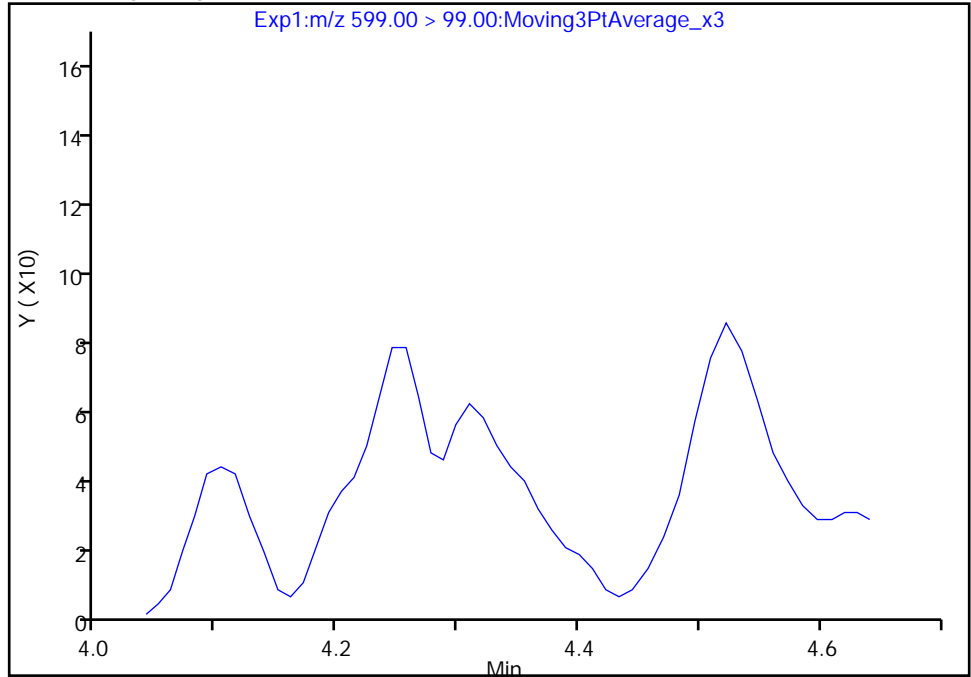
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

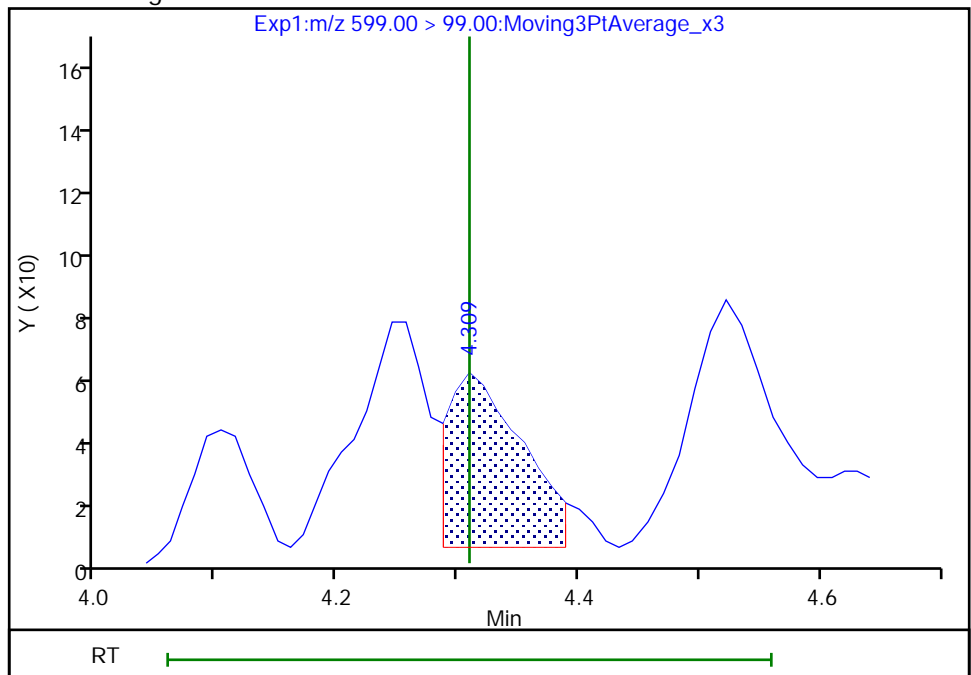
Not Detected  
Expected RT: 4.31

Processing Integration Results



Manual Integration Results

RT: 4.31  
Area: 228  
Amount: 0.002839  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:26:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

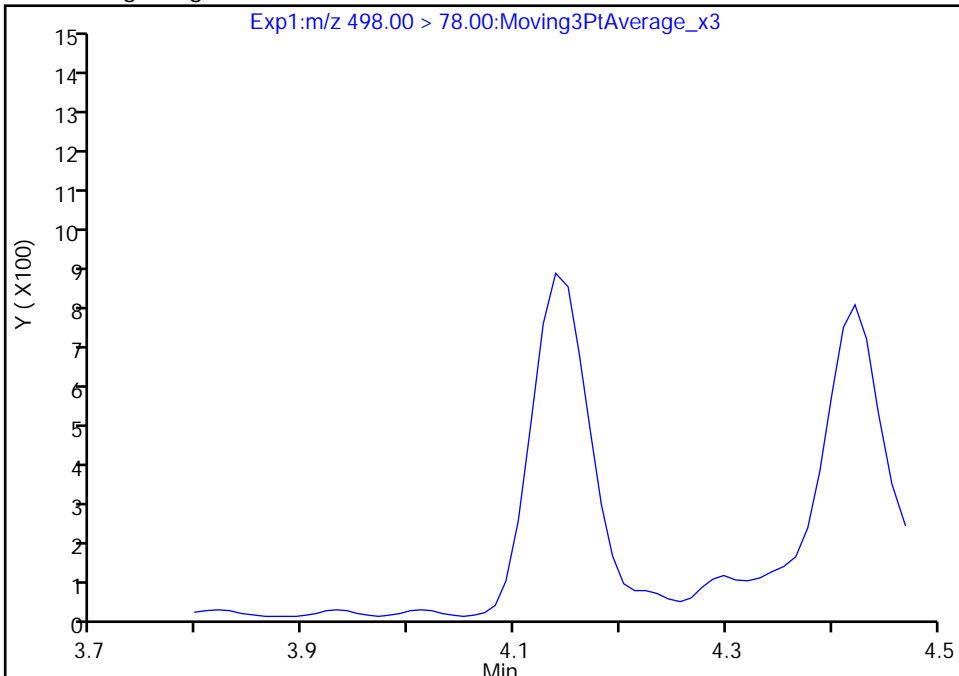
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

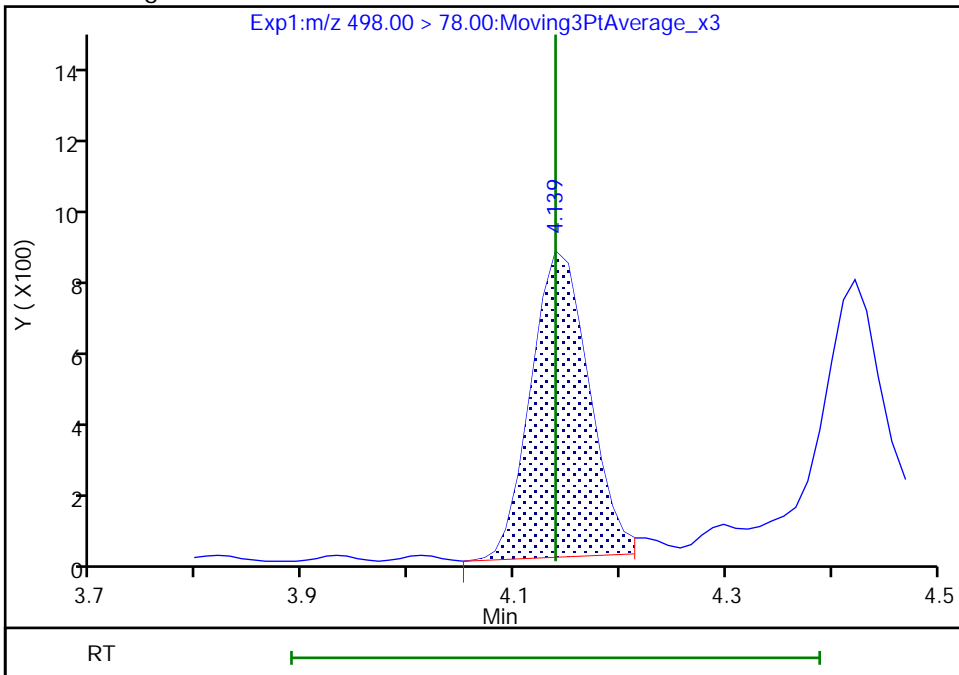
Not Detected  
Expected RT: 4.14

Processing Integration Results



Manual Integration Results

RT: 4.14  
Area: 3144  
Amount: 0.010431  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:26:03  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

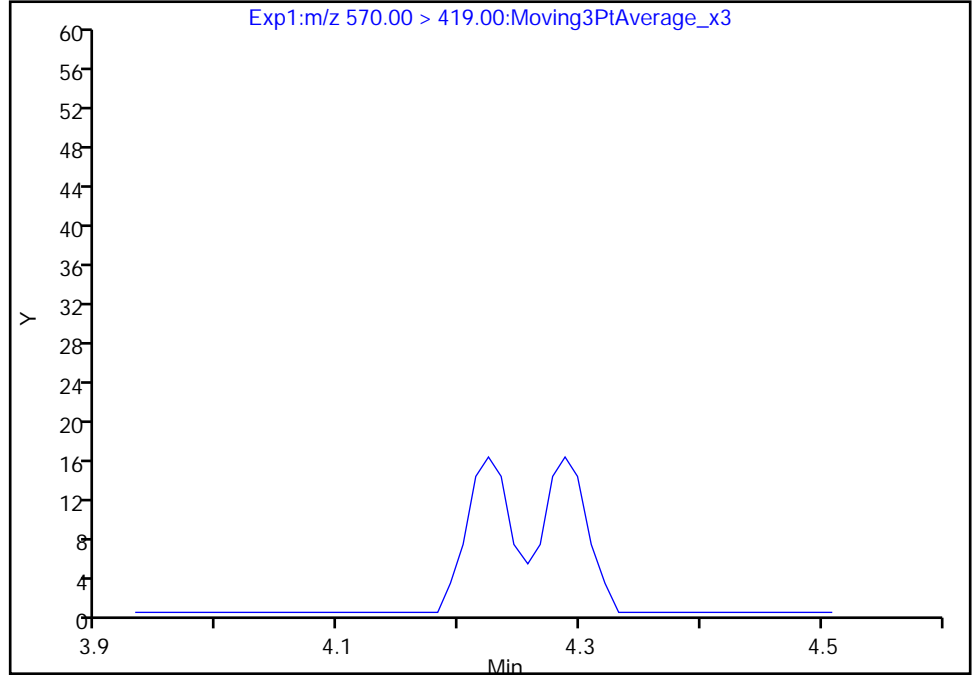
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

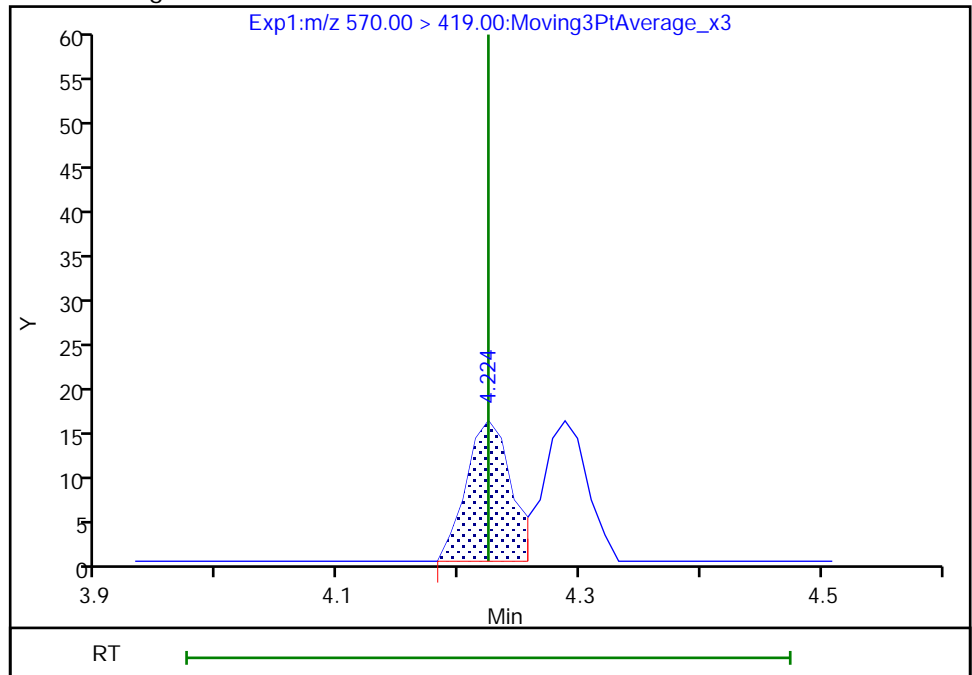
Not Detected  
Expected RT: 4.22

Processing Integration Results



Manual Integration Results

RT: 4.22  
Area: 40  
Amount: 0.002096  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:26:11  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

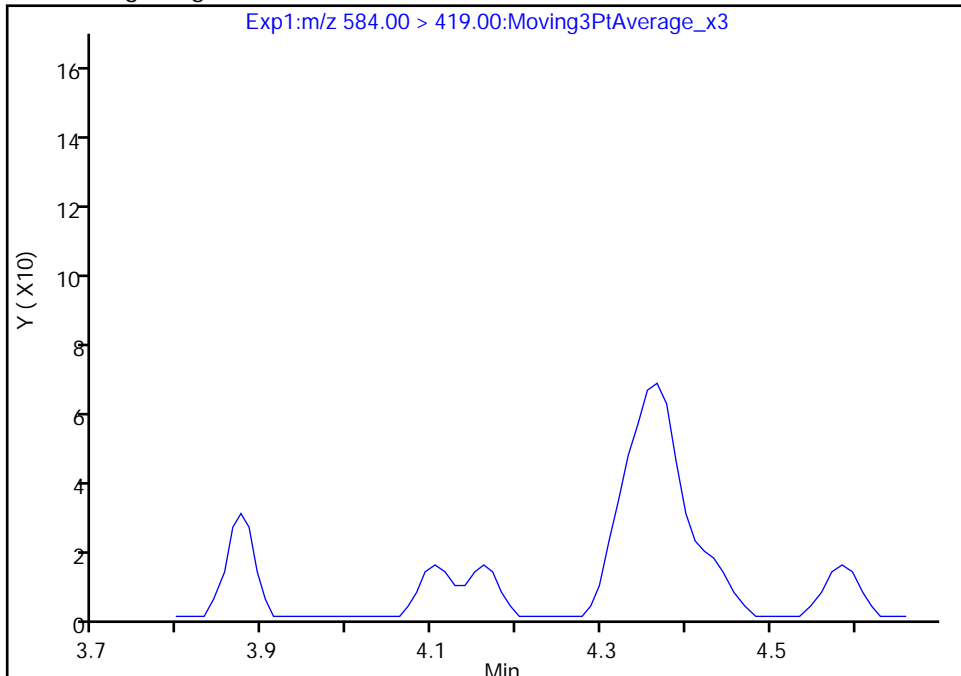
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

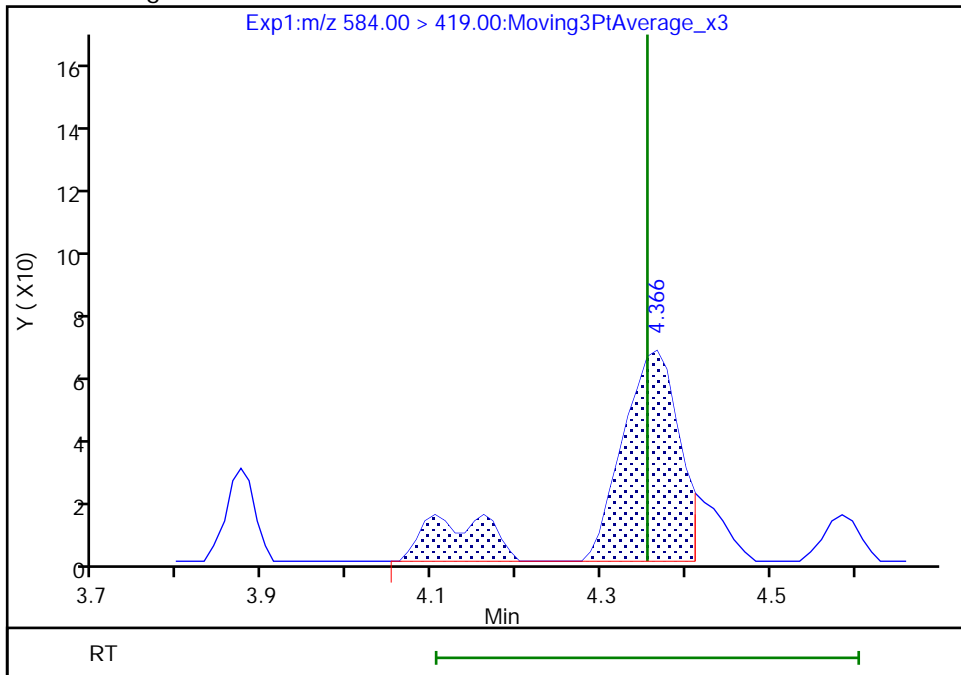
Not Detected  
Expected RT: 4.35

Processing Integration Results



Manual Integration Results

RT: 4.37  
Area: 387  
Amount: 0.023130  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:27:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

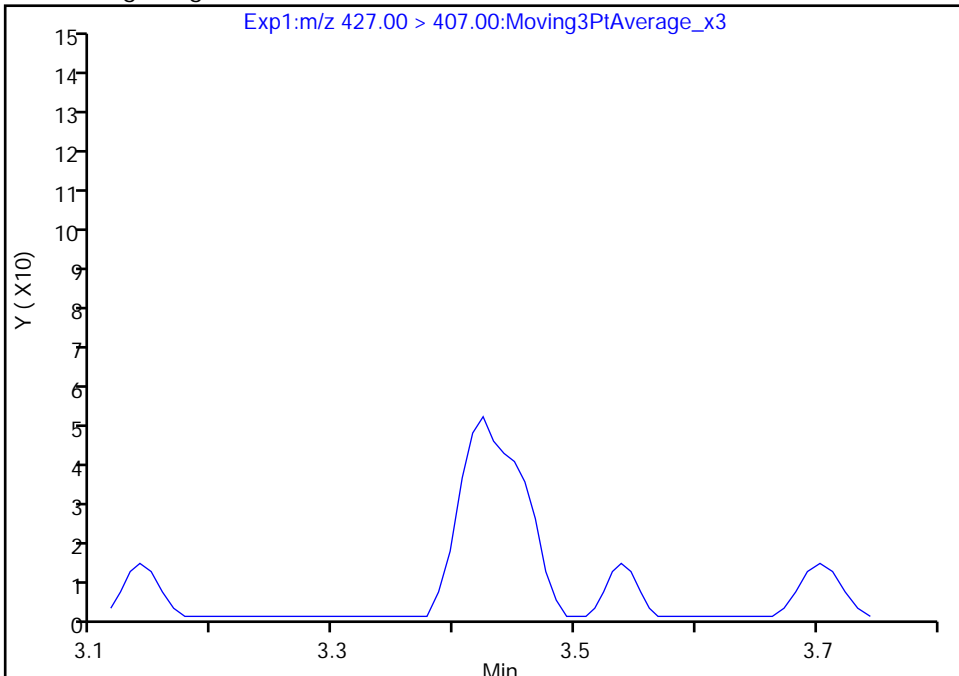
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 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

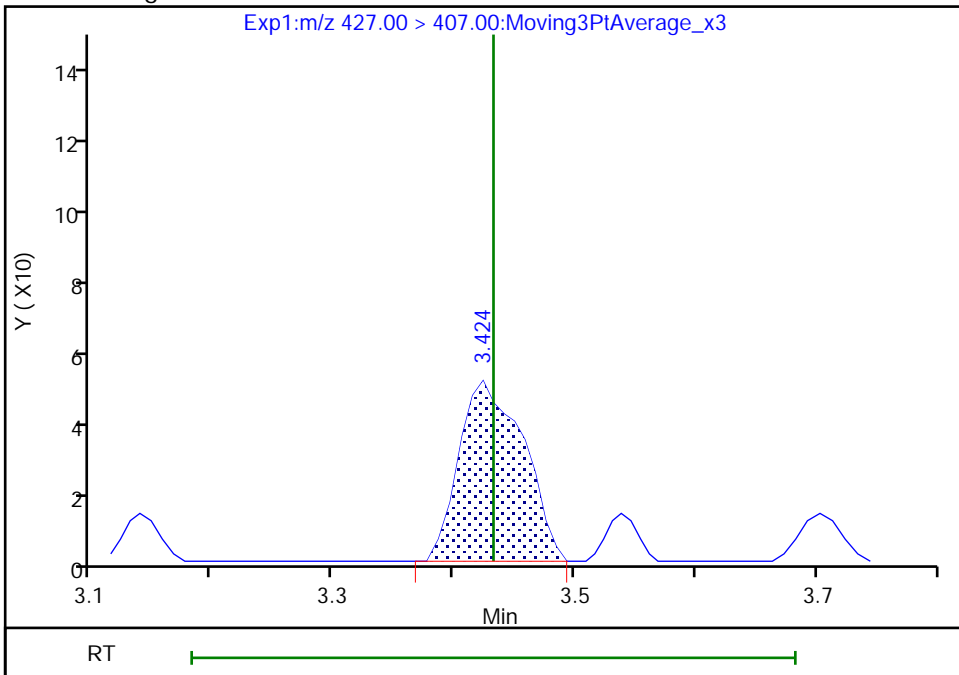
Not Detected  
Expected RT: 3.43

Processing Integration Results



Manual Integration Results

RT: 3.42  
Area: 180  
Amount: 0.003412  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:15:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

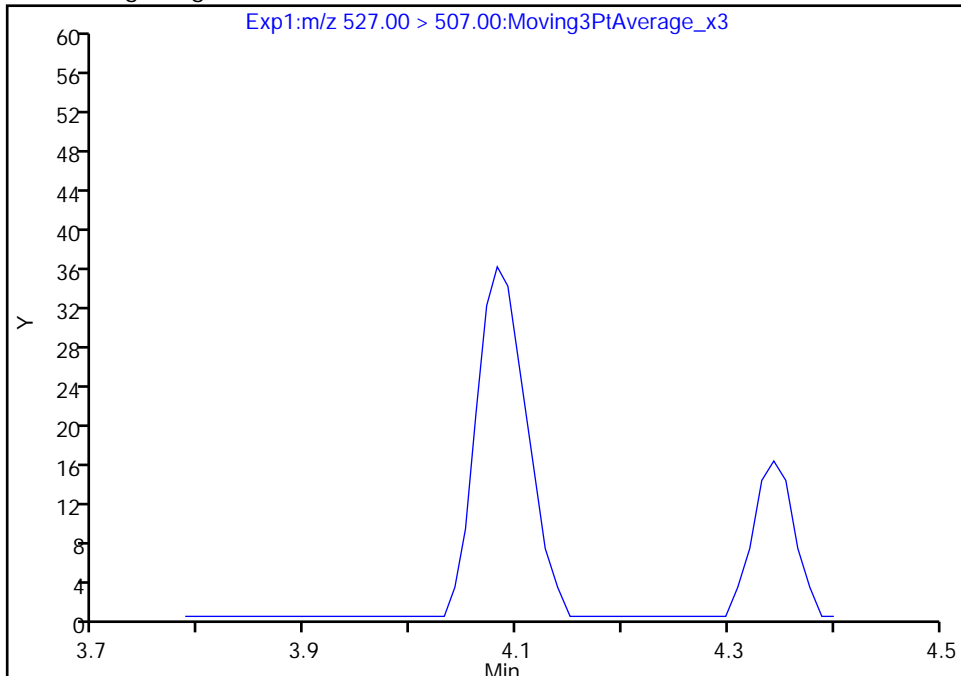
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B02.d  
Injection Date: 30-Sep-2020 18:22:41 Instrument ID: LC812  
Lims ID: MB 200-159386/1-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 2 Worklist Smp#: 2  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

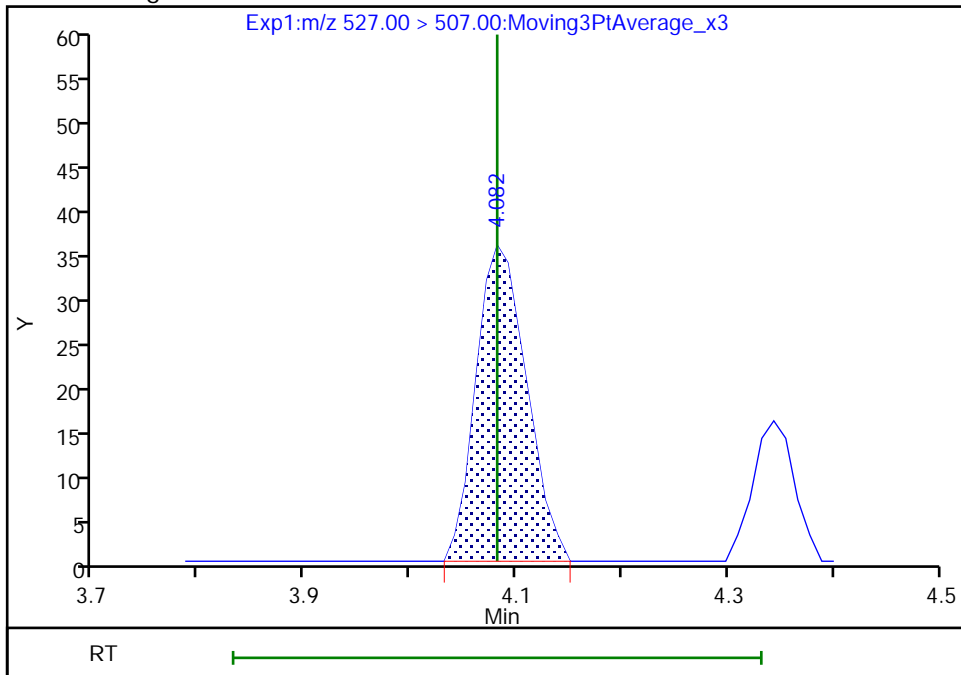
Not Detected  
Expected RT: 4.08

Processing Integration Results



Manual Integration Results

RT: 4.08  
Area: 119  
Amount: 0.004173  
Amount Units: ng/ml



Reviewer: manopan, 01-Oct-2020 12:25:53  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 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
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	ND		0.050	0.022
335-77-3	Perfluorodecanesulfonic acid (PFDS)	ND		0.050	0.012
754-91-6	Perfluorooctanesulfonamide (PFOSA)	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	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		0.13	0.018
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		0.050	0.017

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 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
STL00994	18O2 PFHxS	71		50-150
STL01892	13C4 PFHpA	75		50-150
STL00990	13C4 PFOA	76		50-150
STL00991	13C4 PFOS	73		50-150
STL00995	13C5 PFNA	73		50-150
STL00992	13C4 PFBA	75		25-150
STL00993	13C2 PFHxA	74		50-150
STL00996	13C2 PFDA	71		50-150
STL00997	13C2 PFUnA	69		50-150
STL00998	13C2 PFDoA	73		50-150
STL01056	13C8 FOSA	74		25-150
STL01893	13C5 PFPeA	77		25-150
STL02116	13C2 PFTeDA	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
STL02337	13C3 PFBS	73		50-150

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

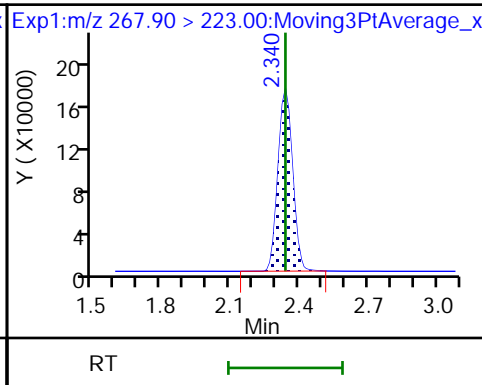
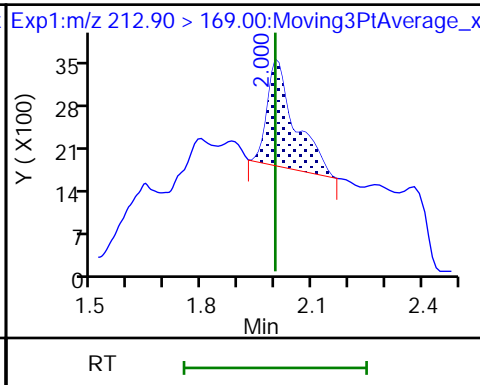
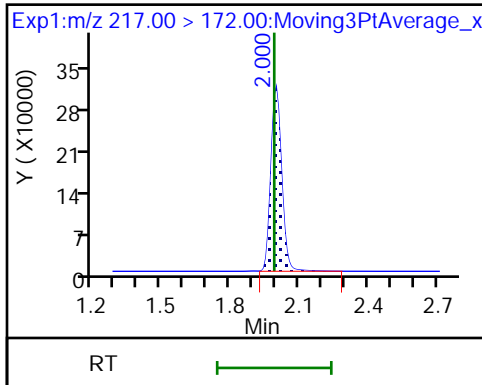
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

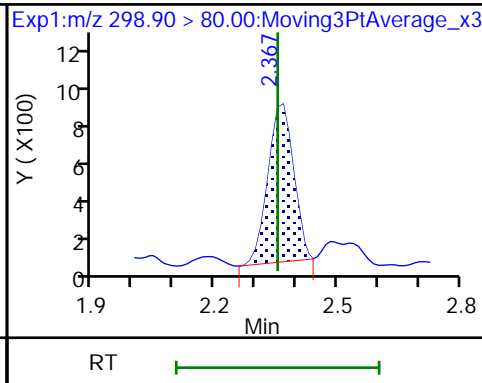
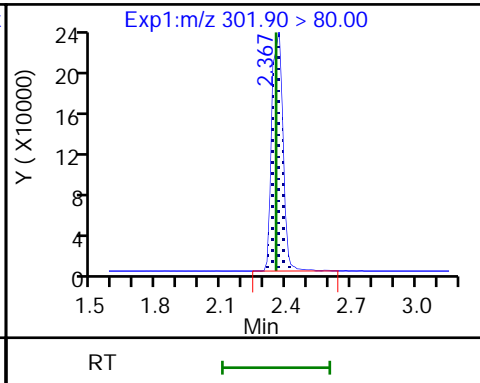
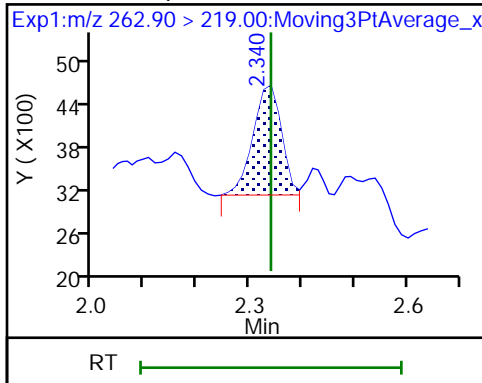
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

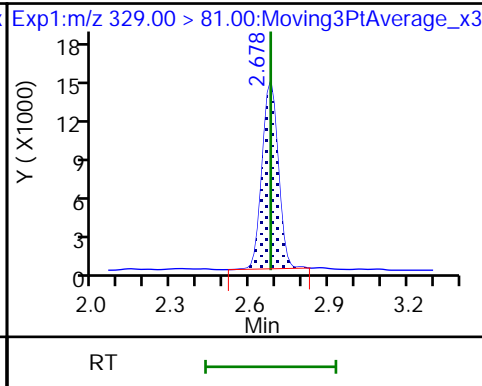
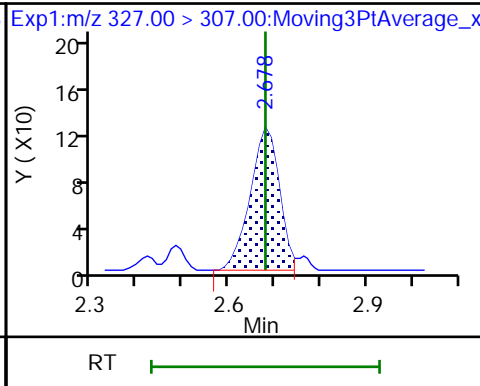
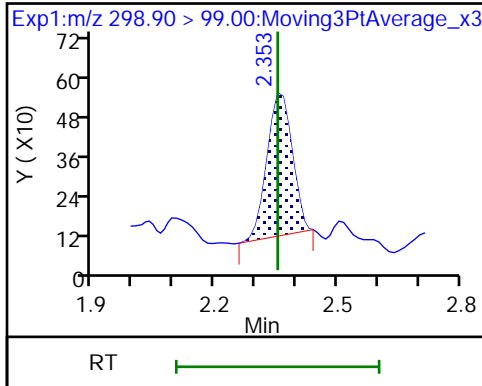
D 47 13C3 PFBS

5 Perfluorobutanesulfonic acid



5 Perfluorobutanesulfonic acid

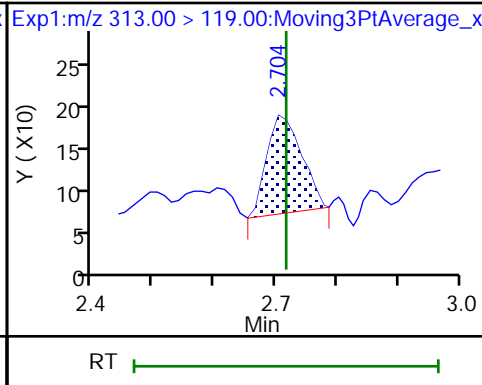
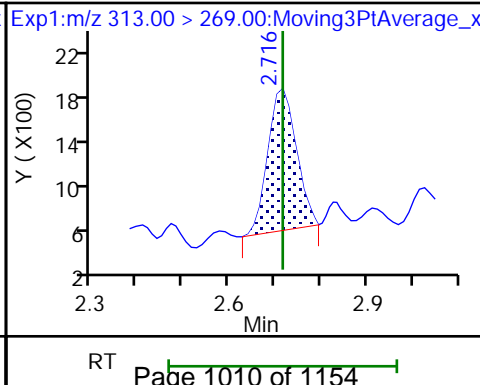
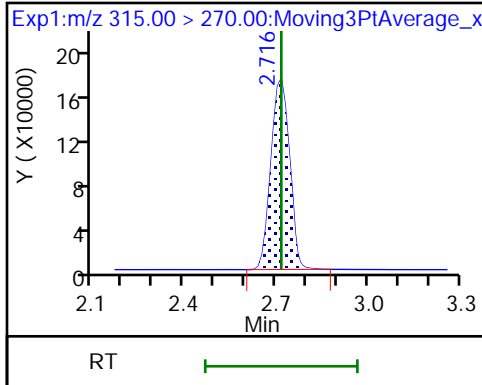
61 1H,1H,2H,2H-perfluorohexanesulfo (M) 60 M2-4:2 FTS



D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

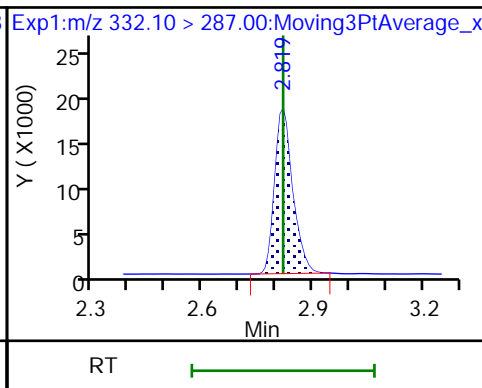
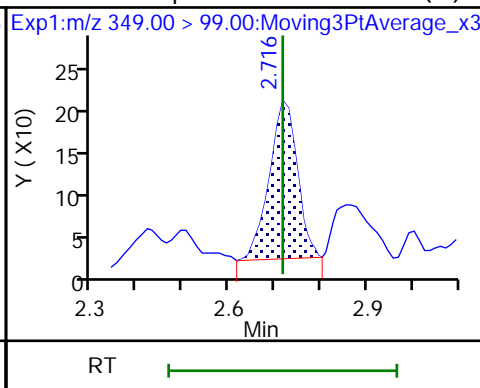
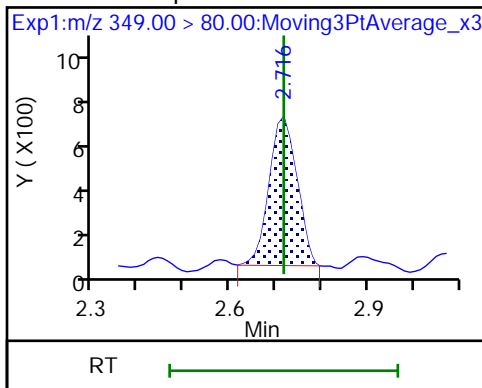
6 Perfluorohexanoic acid (M)



70 Perfluoropentanesulfonic acid

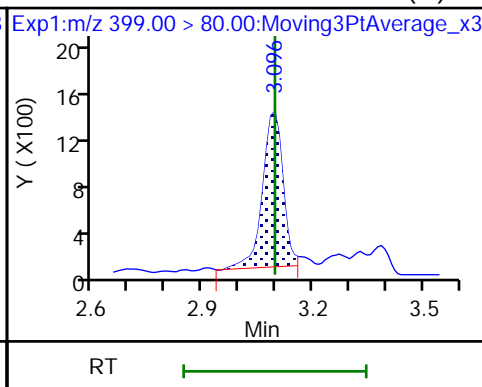
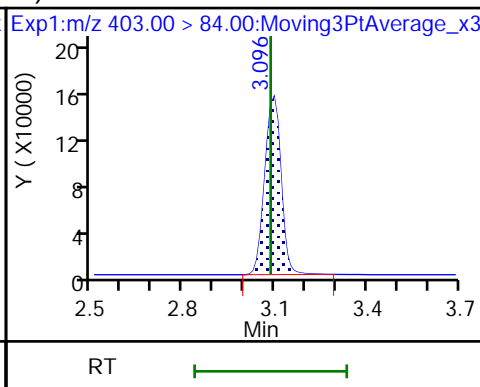
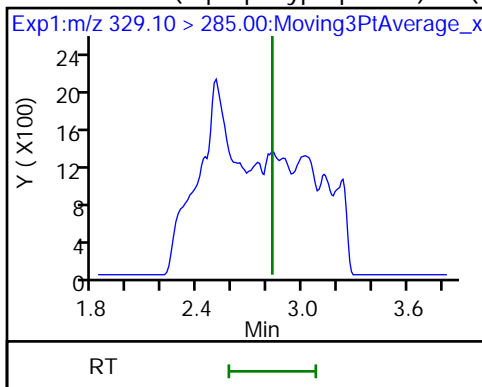
70 Perfluoropentanesulfonic acid (M)

D 64 13C3 HFPO-DA



67 Perfluoro(2-propoxypropanoic) ac (ND)11 18O2 PFHxS

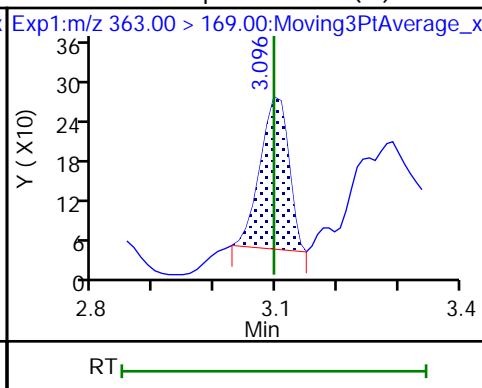
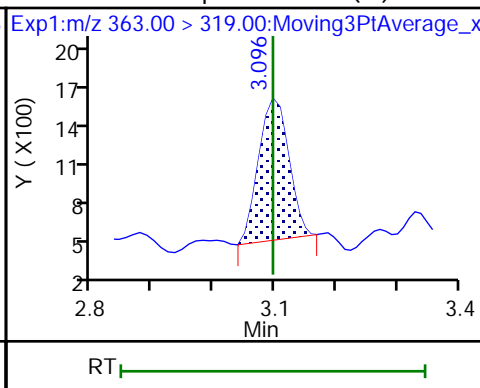
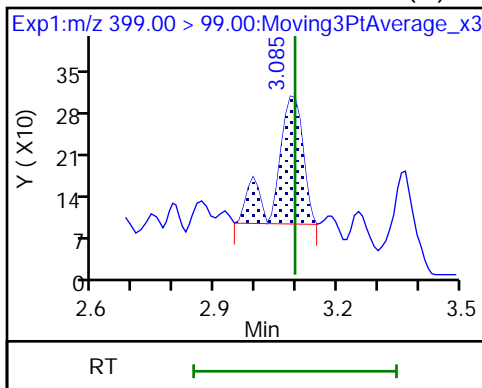
8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M)

10 Perfluoroheptanoic acid (M)

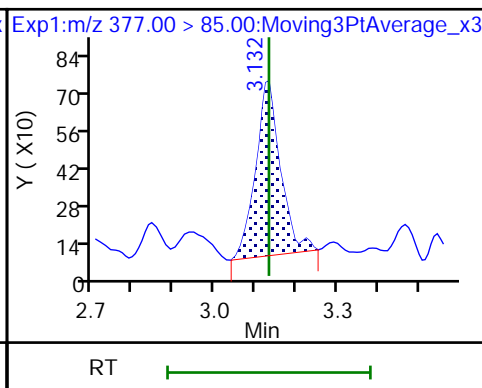
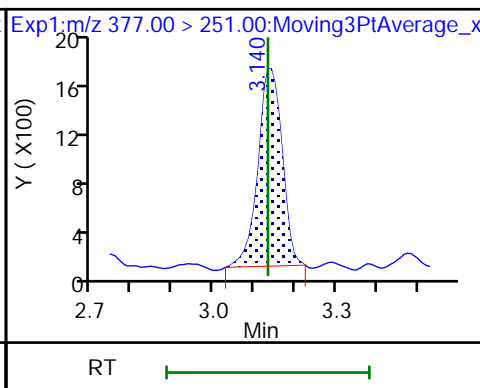
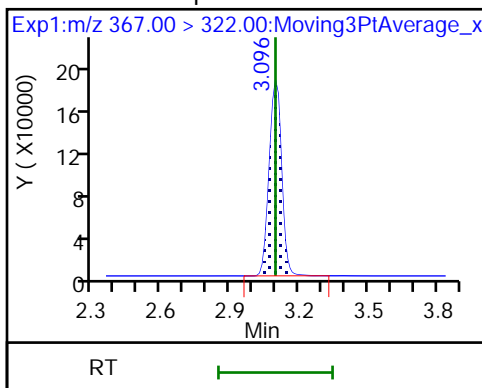
10 Perfluoroheptanoic acid (M)



D 9 13C4 PFHpA

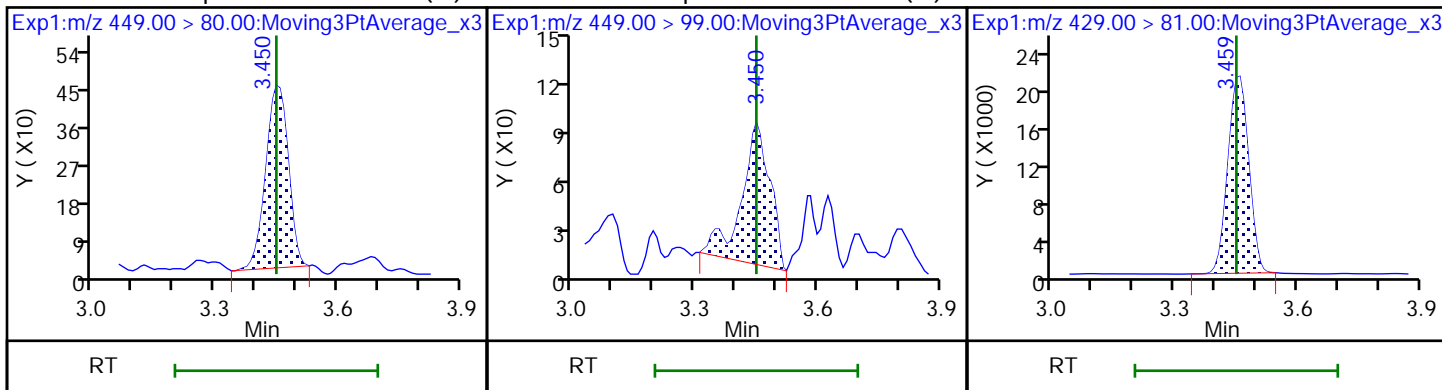
77 DONA

77 DONA

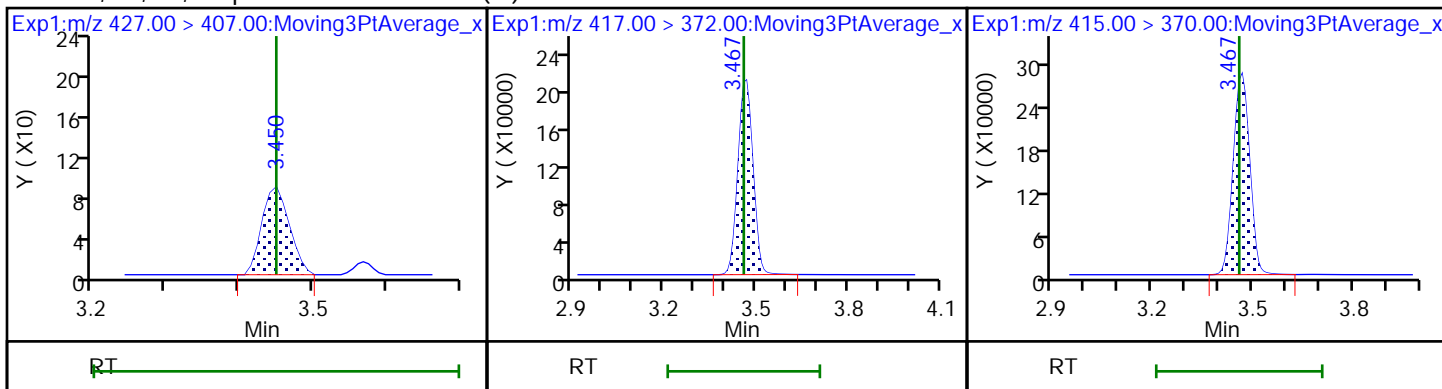




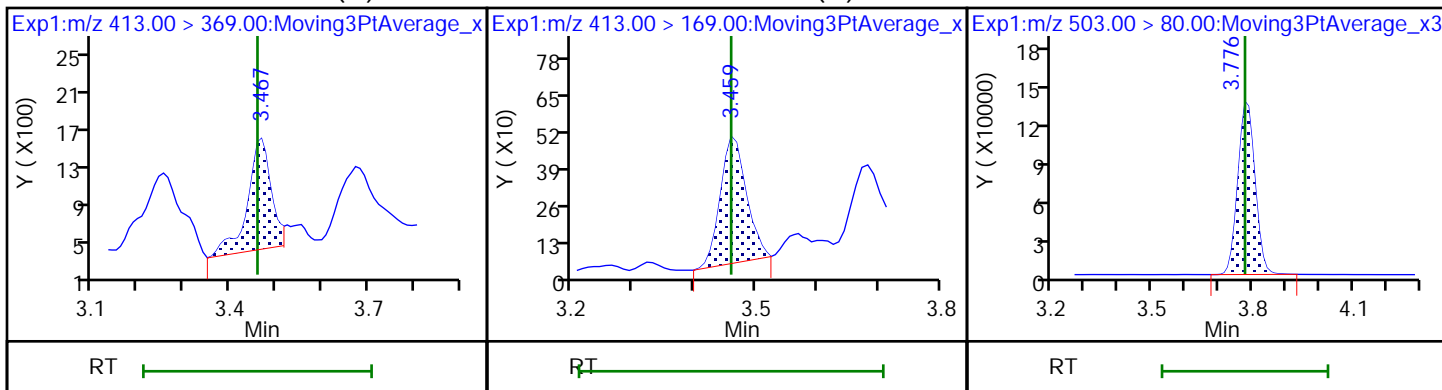
16 Perfluoroheptanesulfonic acid (M) 16 Perfluoroheptanesulfonic acid (M) D 12 M2-6:2 FTS



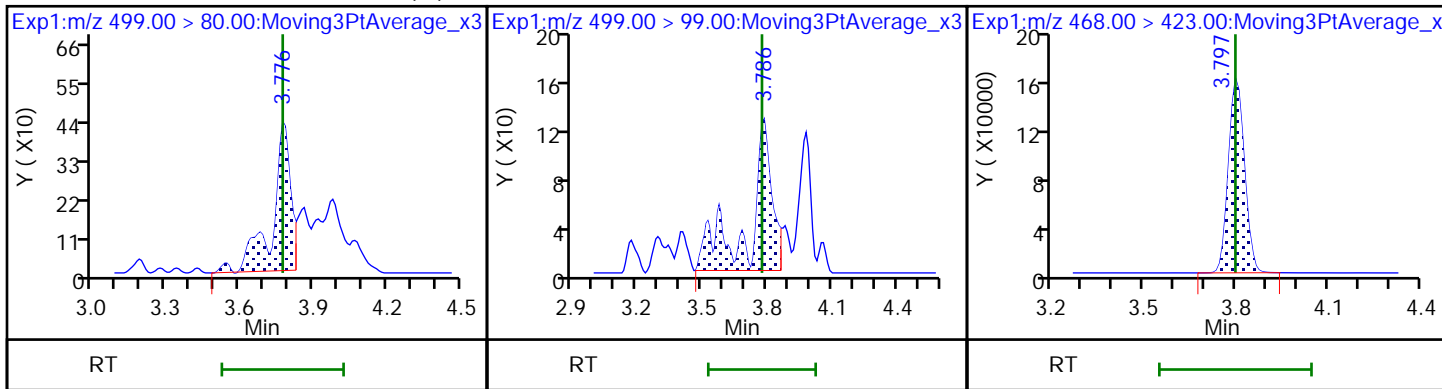
13 1H,1H,2H,2H-perfluorooctanesulfo (M) 14 13C4 PFOA \* 62 13C2 PFOA

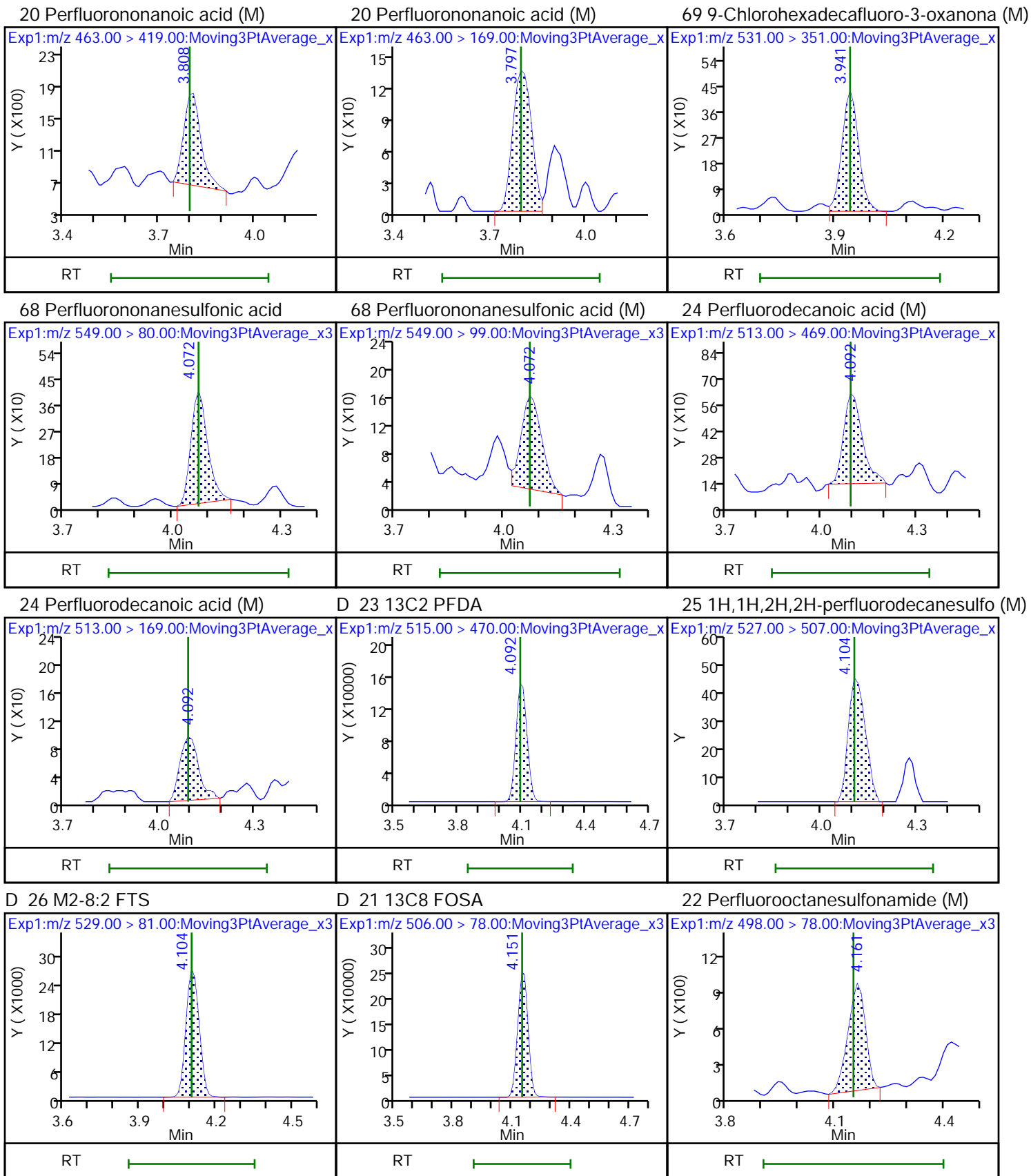


15 Perfluorooctanoic acid (M) 15 Perfluorooctanoic acid (M) D 18 13C4 PFOS



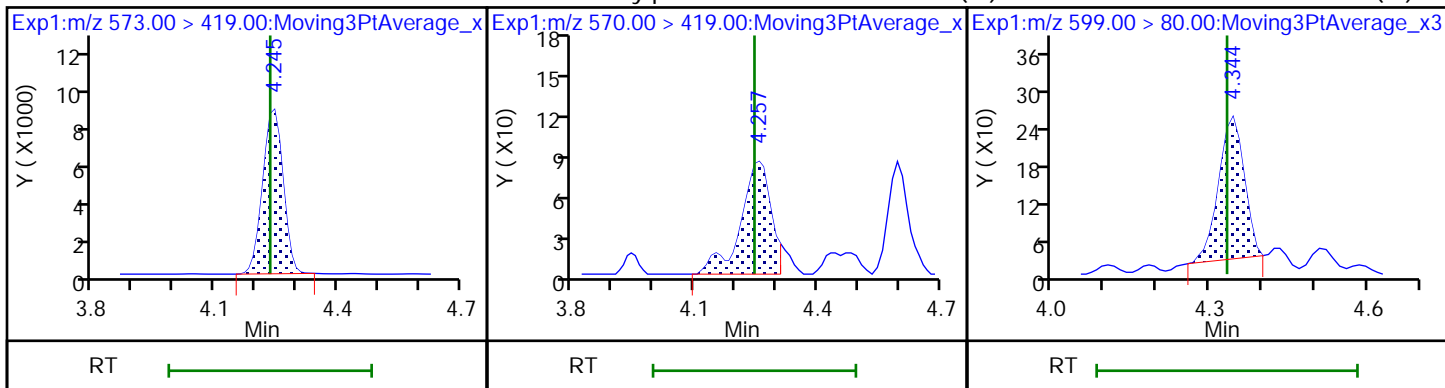
17 Perfluorooctanesulfonic acid (M) 17 Perfluorooctanesulfonic acid D 19 13C5 PFNA





D 27 d3-NMeFOSAA

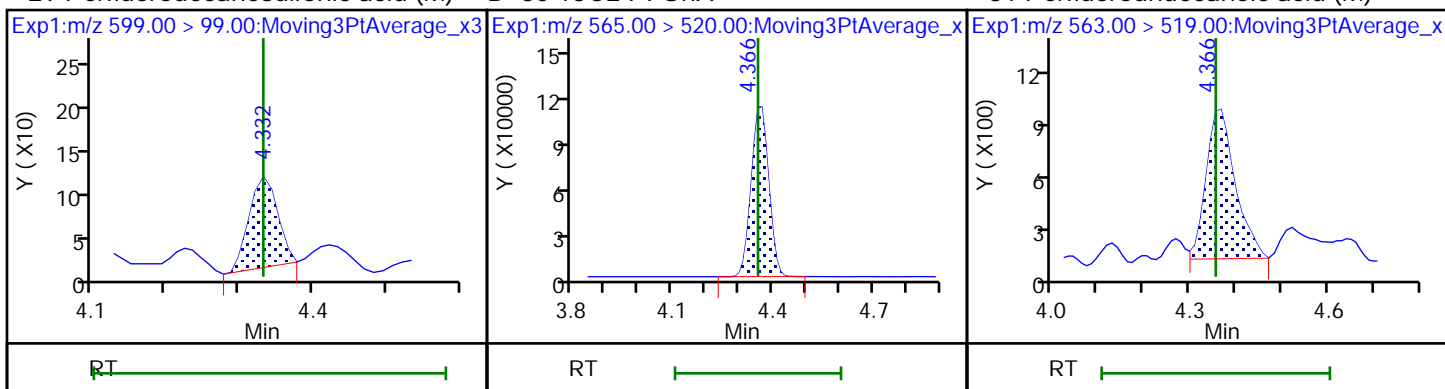
28 N-methylperfluorooctanesulfonami (M)  
29 Perfluorodecanesulfonic acid (M)



29 Perfluorodecanesulfonic acid (M)

D 30 13C2 PFUnA

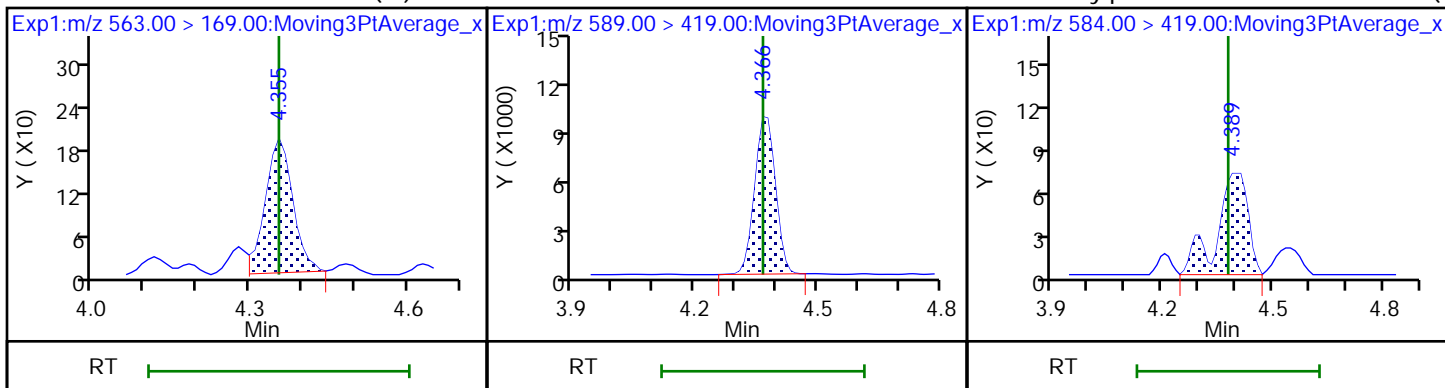
31 Perfluoroundecanoic acid (M)



31 Perfluoroundecanoic acid (M)

D 32 d5-NEtFOSAA

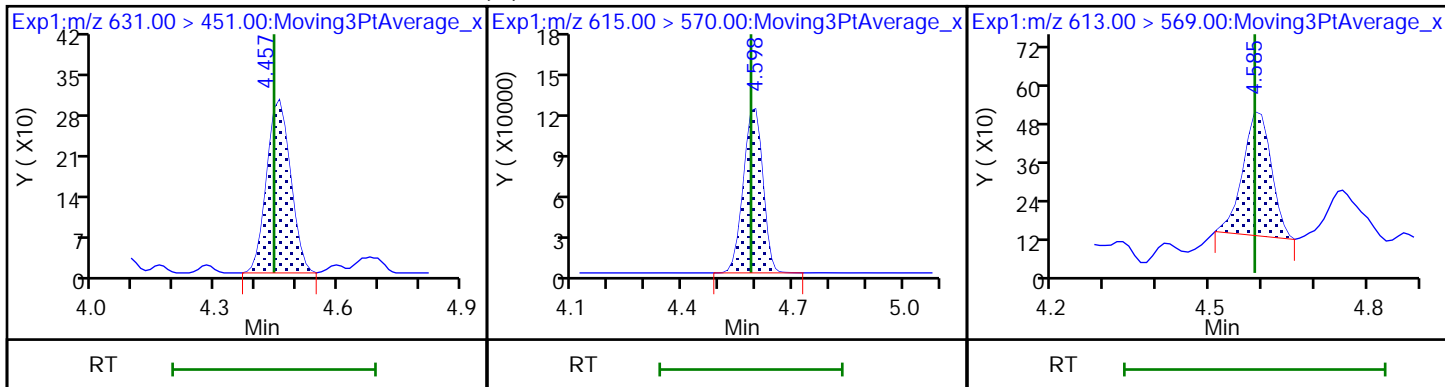
33 N-ethylperfluorooctanesulfonamid (M)



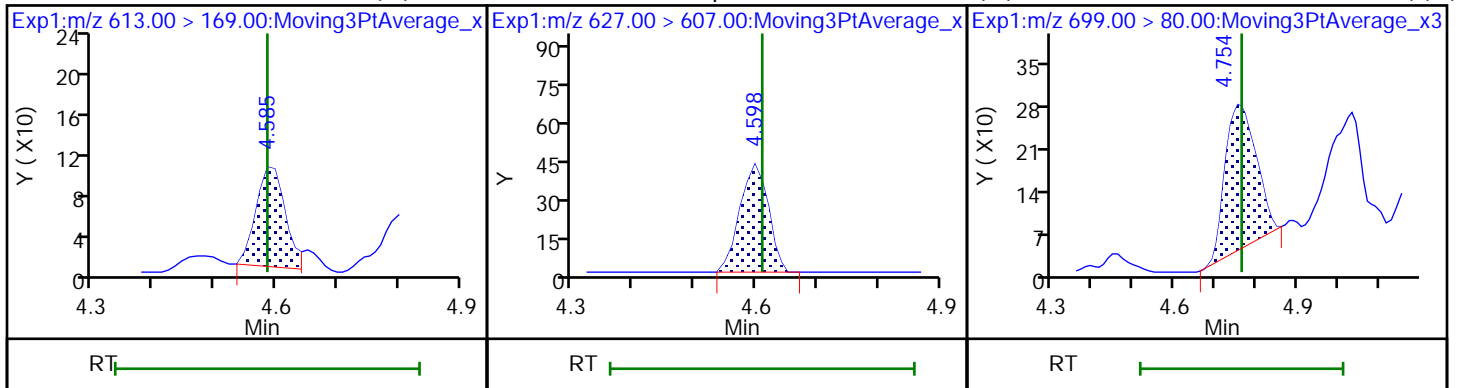
66 11-Chloroeicosafuoro-3-oxaundec (M)

36 13C2 PFDoA

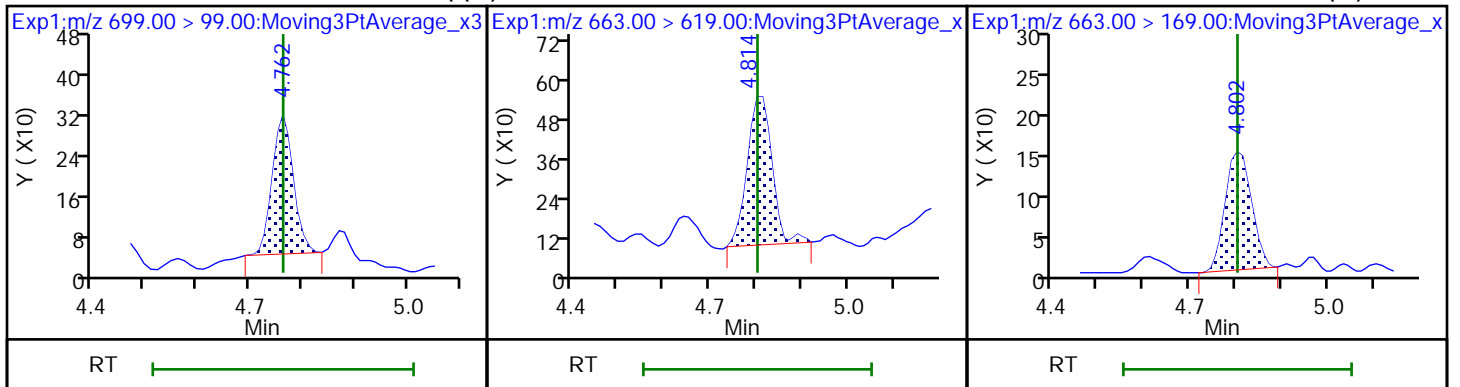
37 Perfluorododecanoic acid



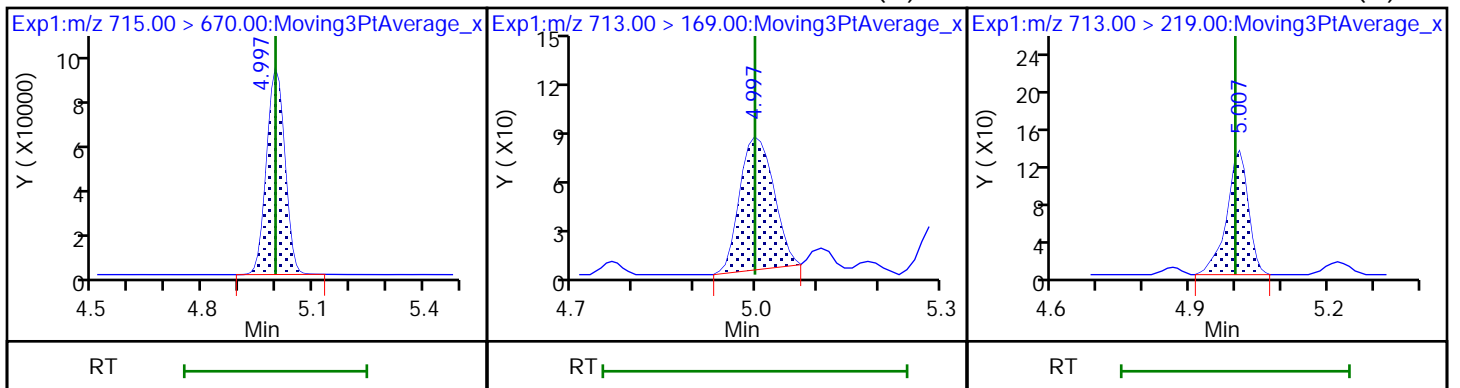
37 Perfluorododecanoic acid (M) 74 1H,1H,2H,2H-perfluorododecanesul (M) 75 Perfluorododecanesulfonic acid (M)



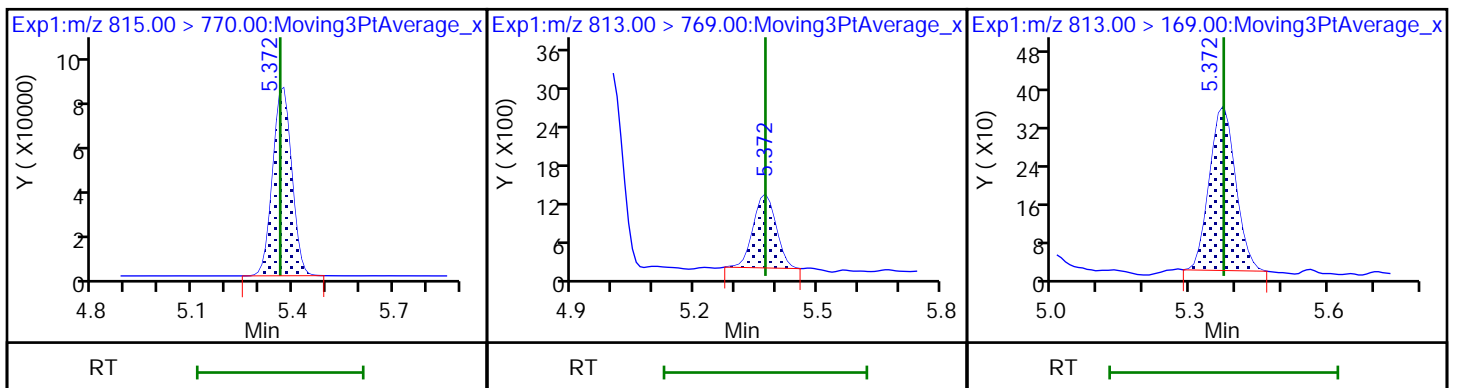
75 Perfluorododecanesulfonic acid (M) 41 Perfluorotridecanoic acid 41 Perfluorotridecanoic acid (M)



D 43 13C2 PFTeDA 42 Perfluorotetradecanoic acid (M) 42 Perfluorotetradecanoic acid (M)

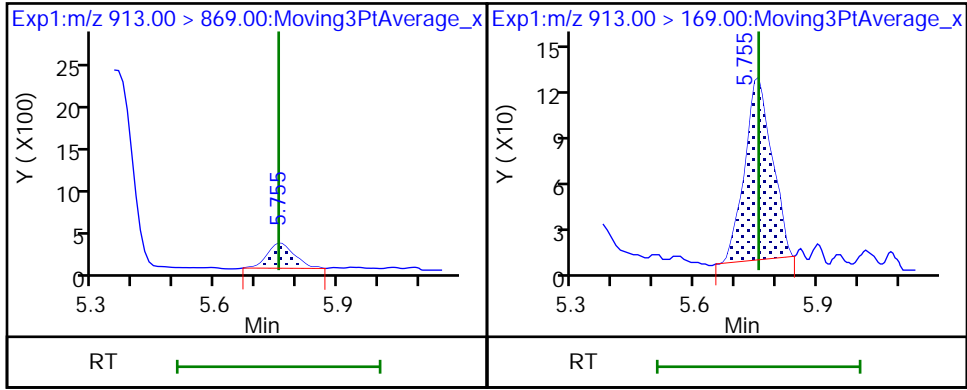


D 44 13C2 PFHxDA 45 Perfluorohexadecanoic acid 45 Perfluorohexadecanoic acid



46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid (M)



Eurofins TestAmerica, Burlington

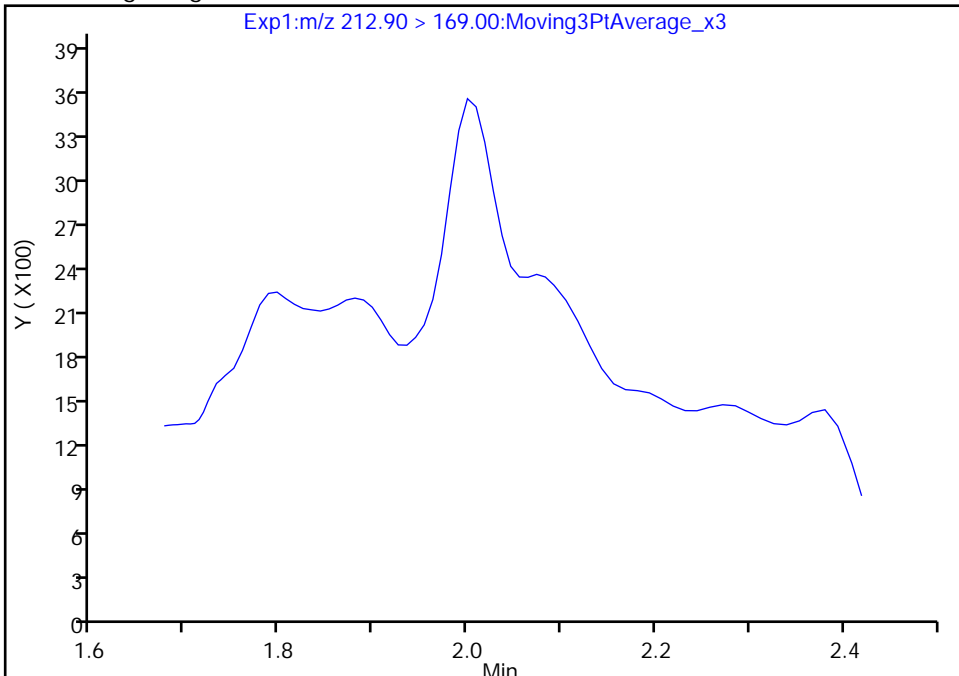
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

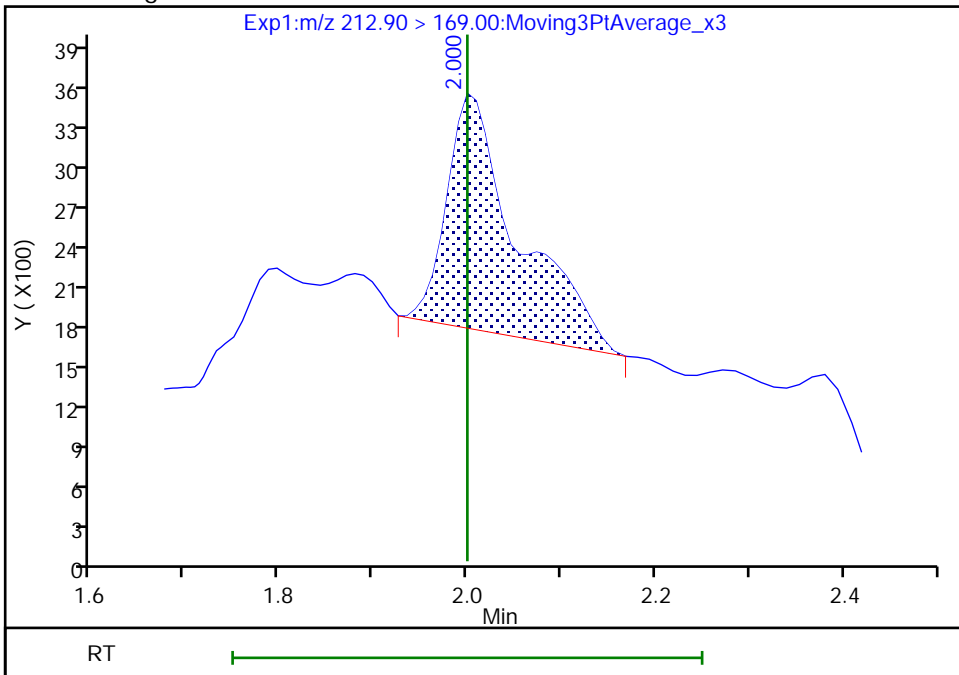
Not Detected  
Expected RT: 2.00

Processing Integration Results



Manual Integration Results

RT: 2.00  
Area: 9311  
Amount: 0.012219  
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:08:26  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Euofins TestAmerica, Burlington

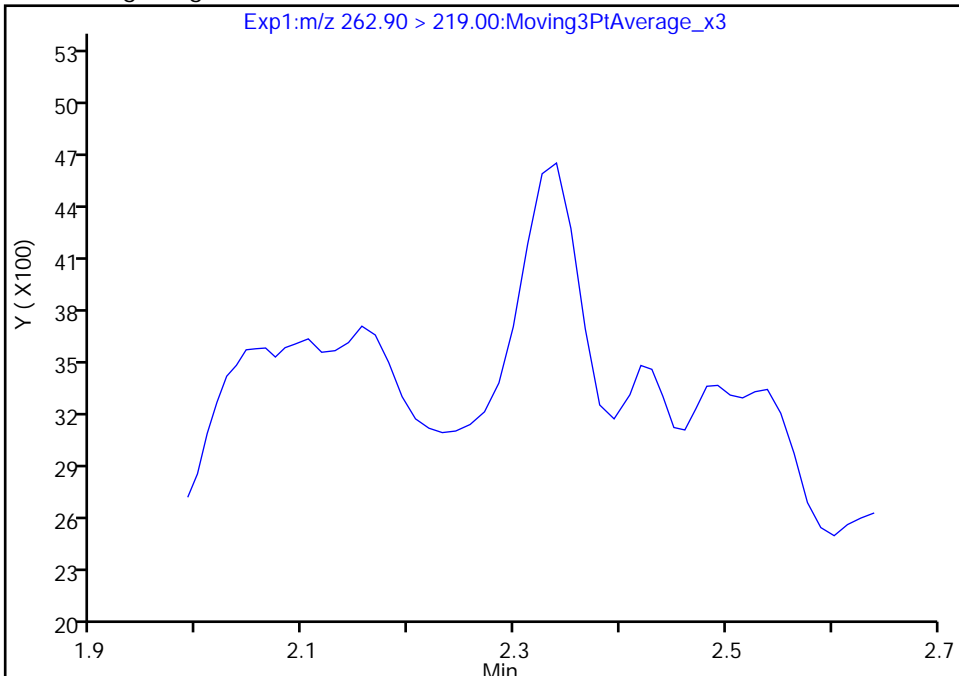
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

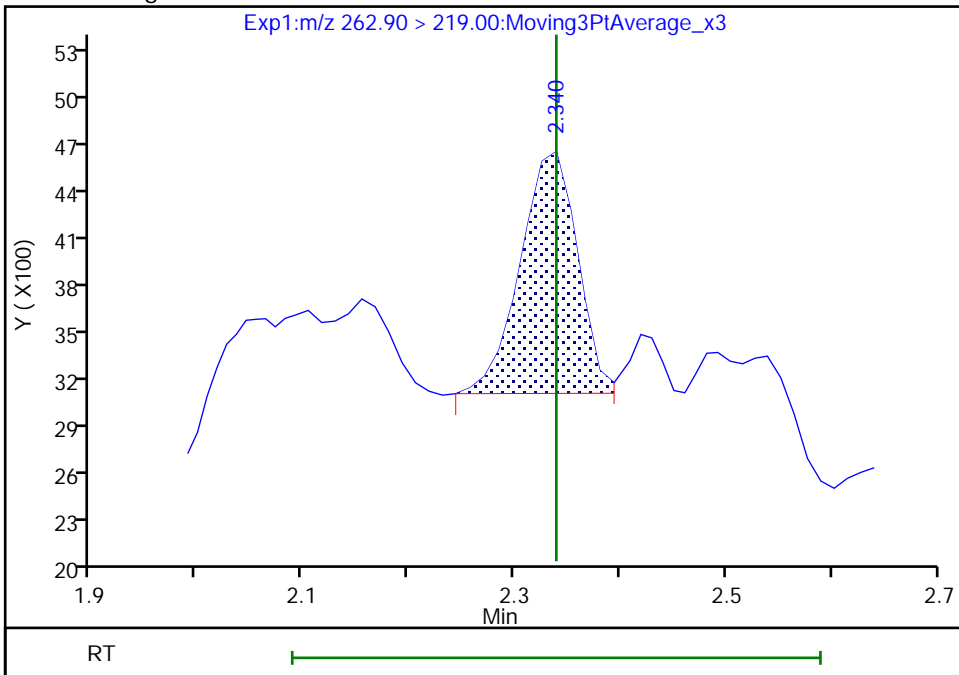
Not Detected  
Expected RT: 2.34

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

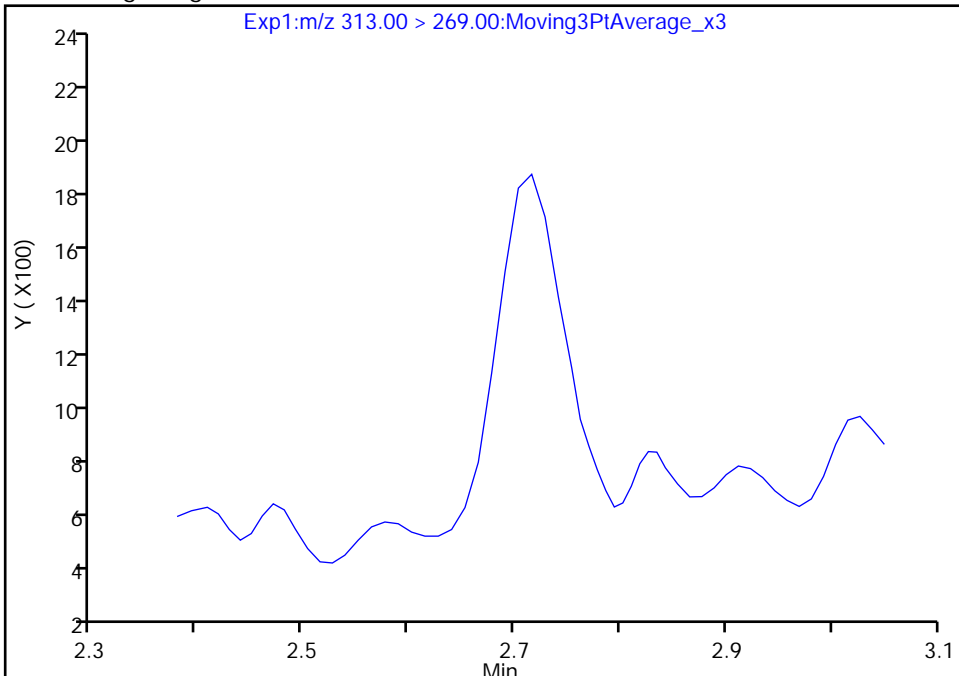
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

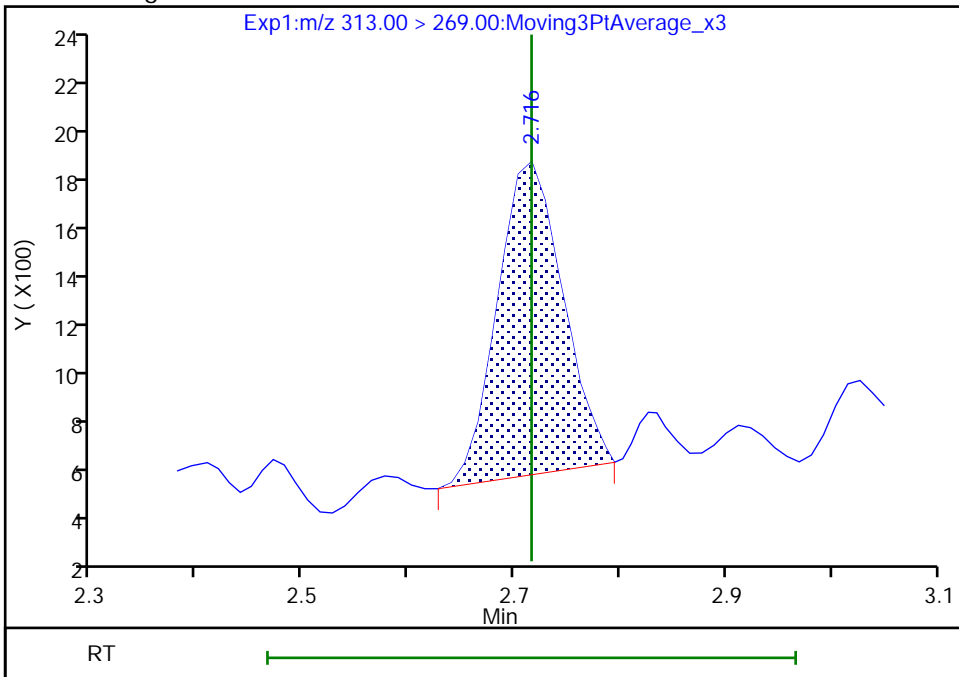
Not Detected  
Expected RT: 2.72

Processing Integration Results



Manual Integration Results

RT: 2.72  
Area: 5156  
Amount: 0.008644  
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:09:00  
Audit Action: Manually Integrated

Audit Reason: Missed Peak



Eurofins TestAmerica, Burlington

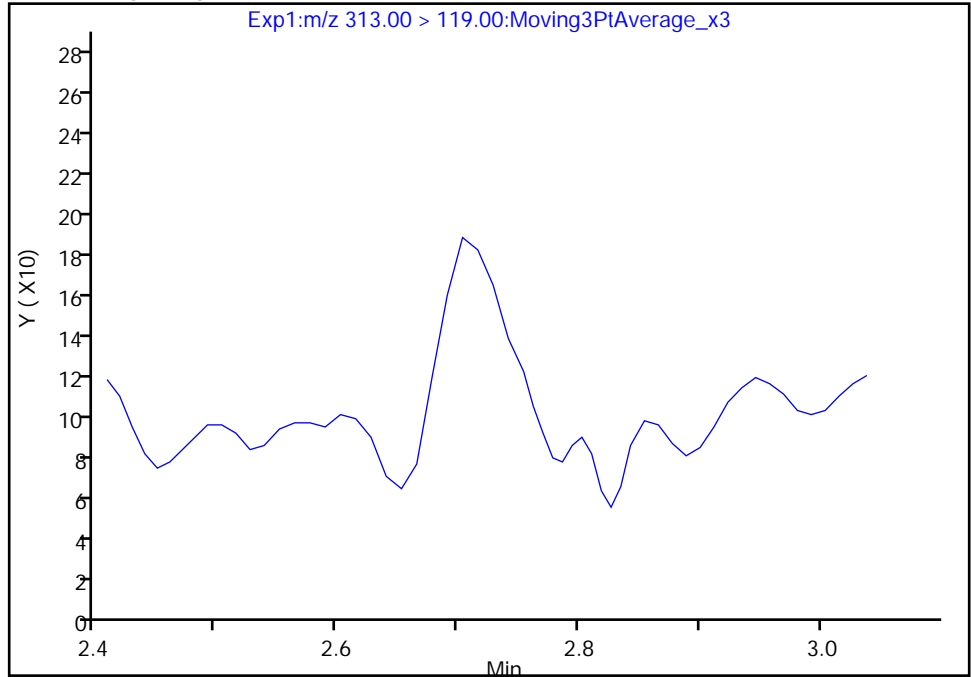
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

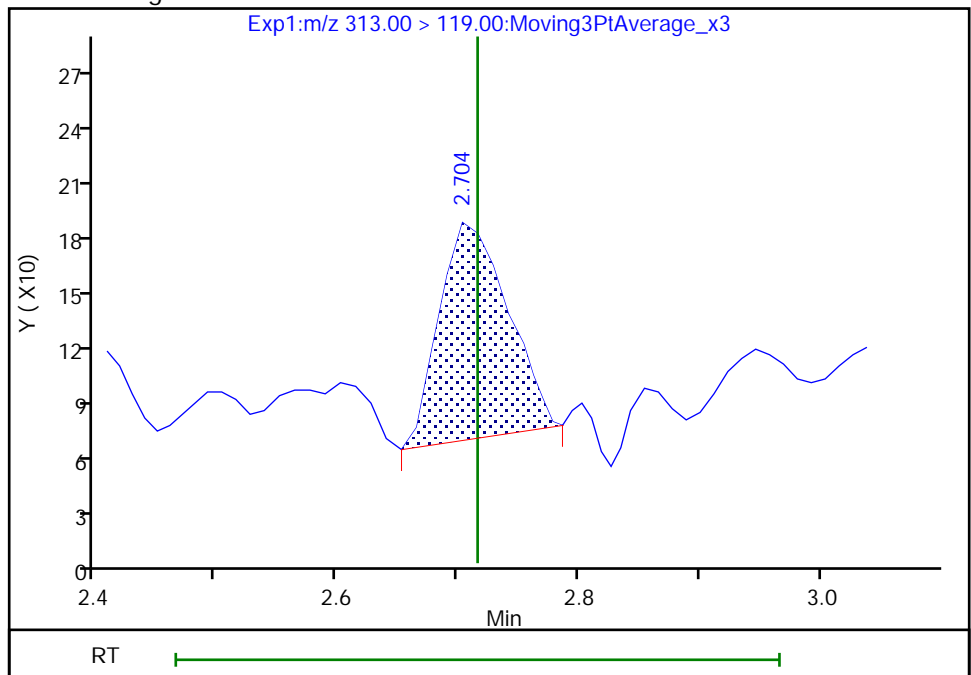
Not Detected  
Expected RT: 2.72

Processing Integration Results



RT: 2.70  
Area: 458  
Amount: 0.008644  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

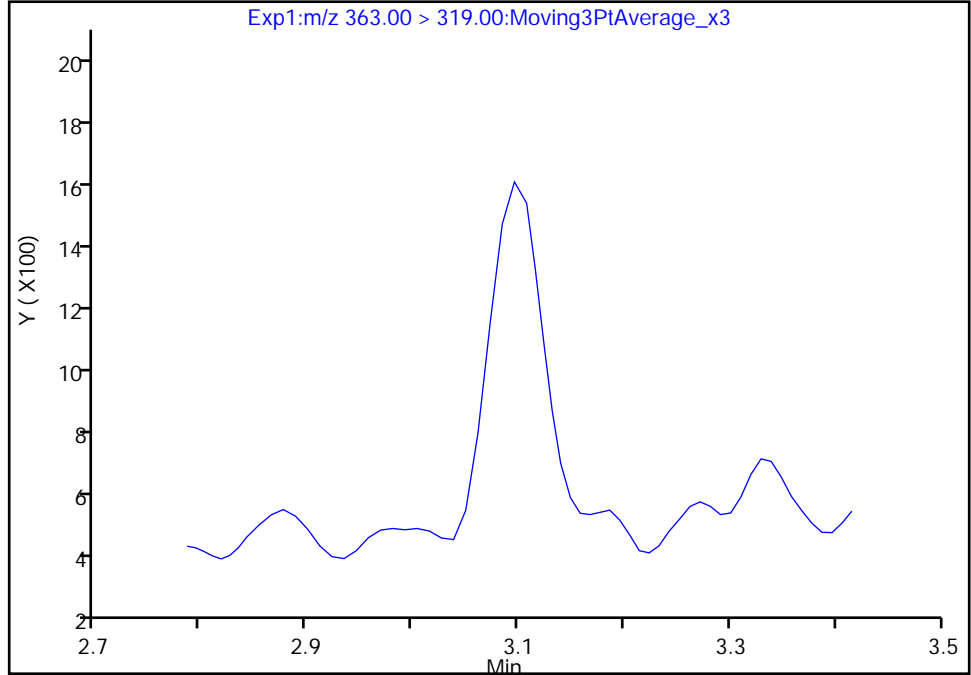
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

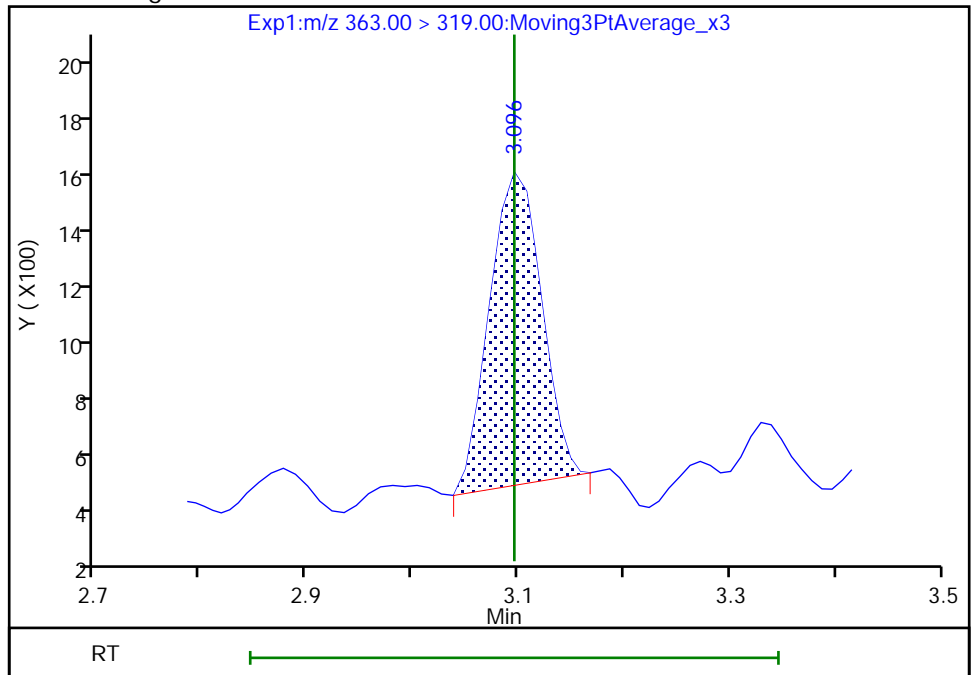
Not Detected  
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.10  
Area: 3739  
Amount: 0.006821  
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:09:42  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

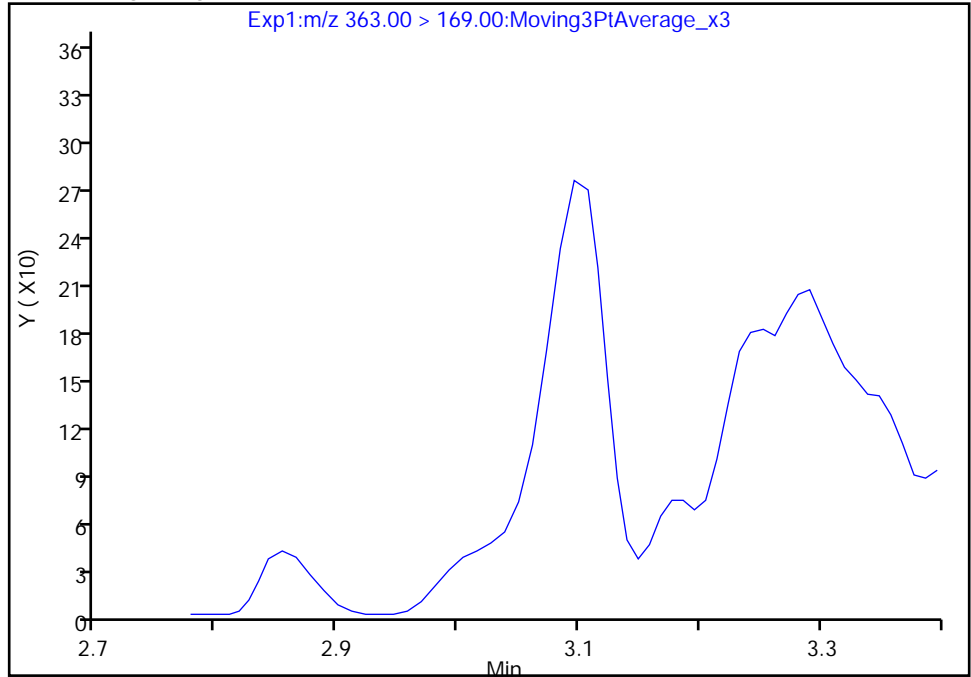
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

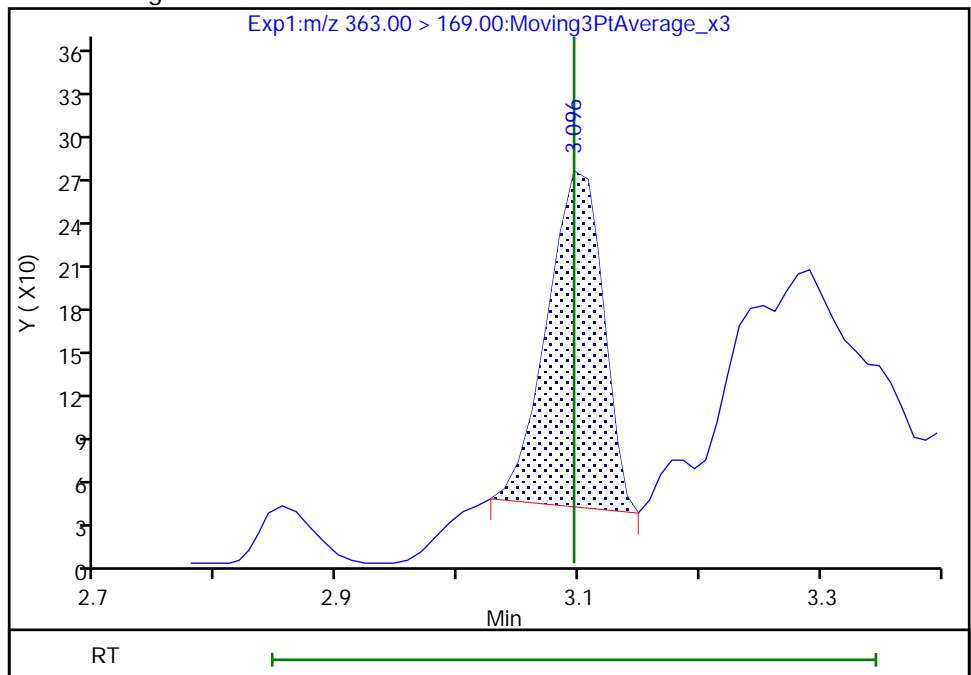
Not Detected  
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.10  
Area: 755  
Amount: 0.006821  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

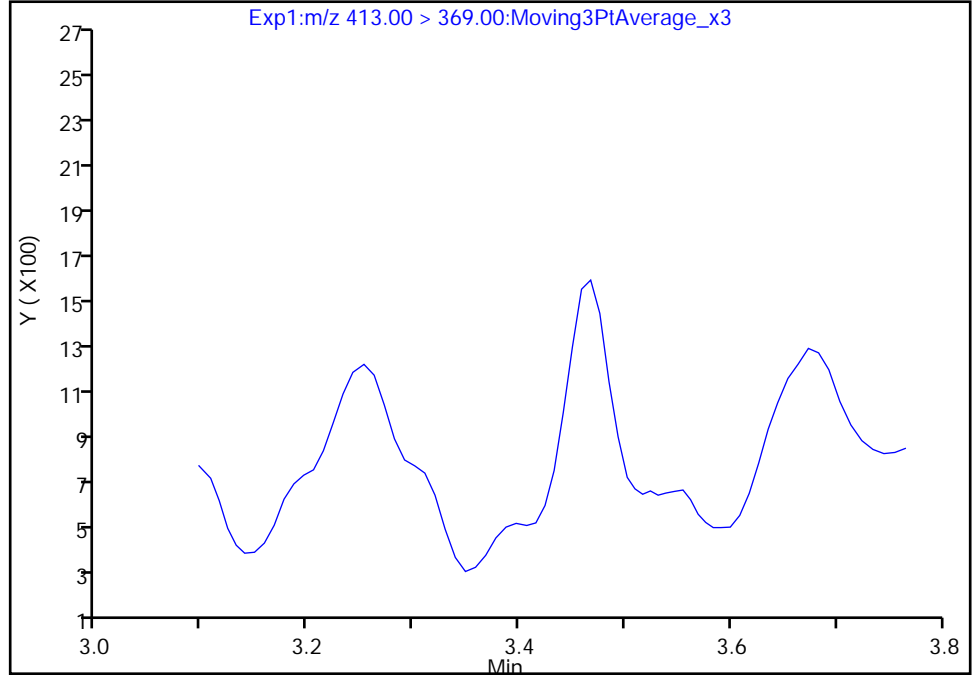
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

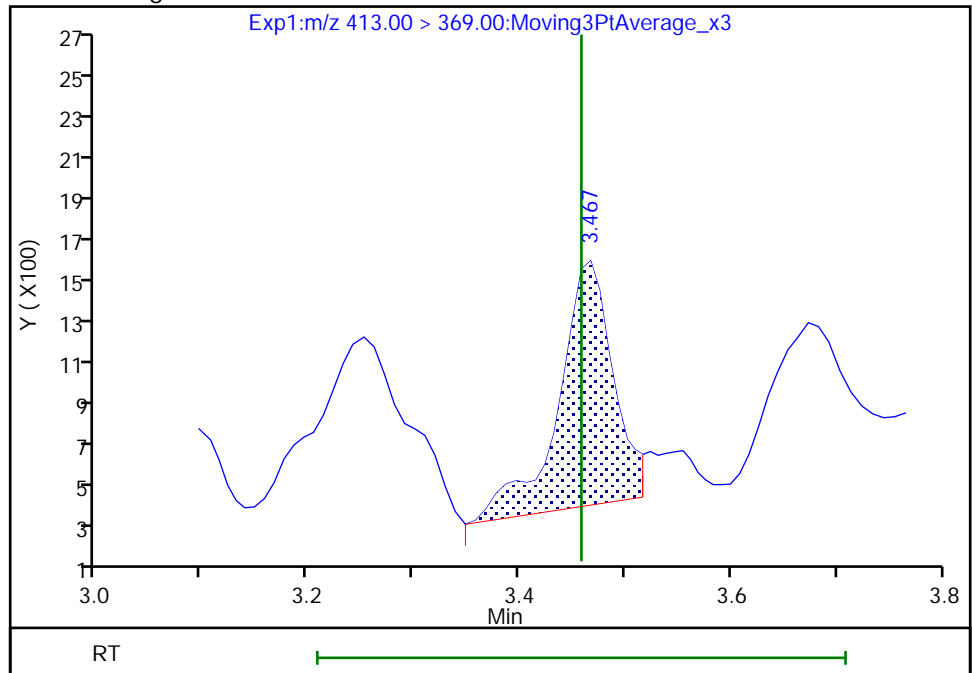
Not Detected  
Expected RT: 3.46

Processing Integration Results



Manual Integration Results

RT: 3.47  
Area: 4125  
Amount: 0.007089  
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:10:17

Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

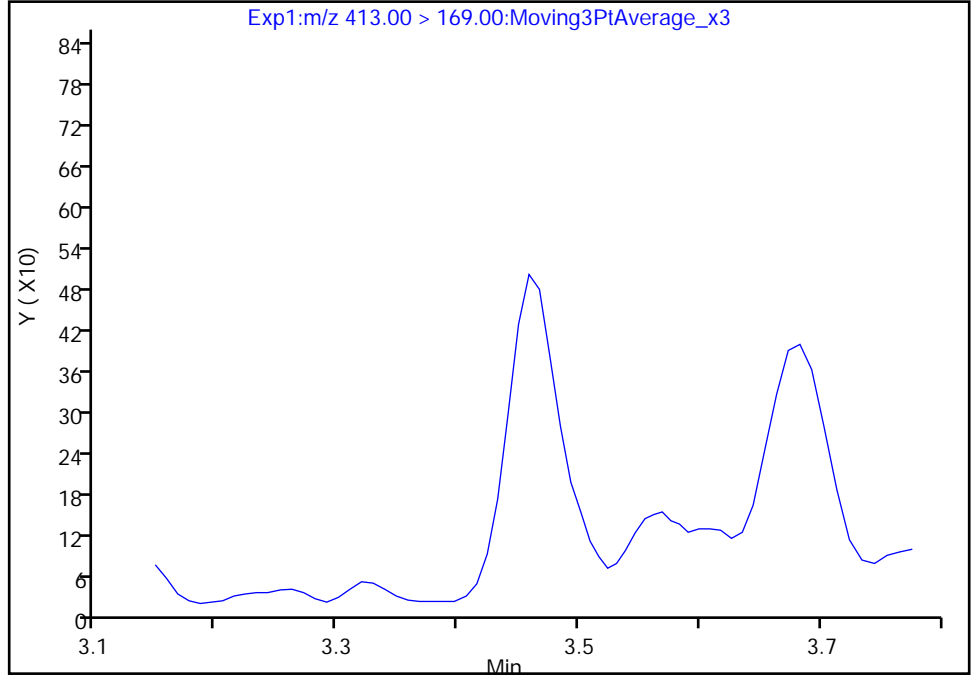
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

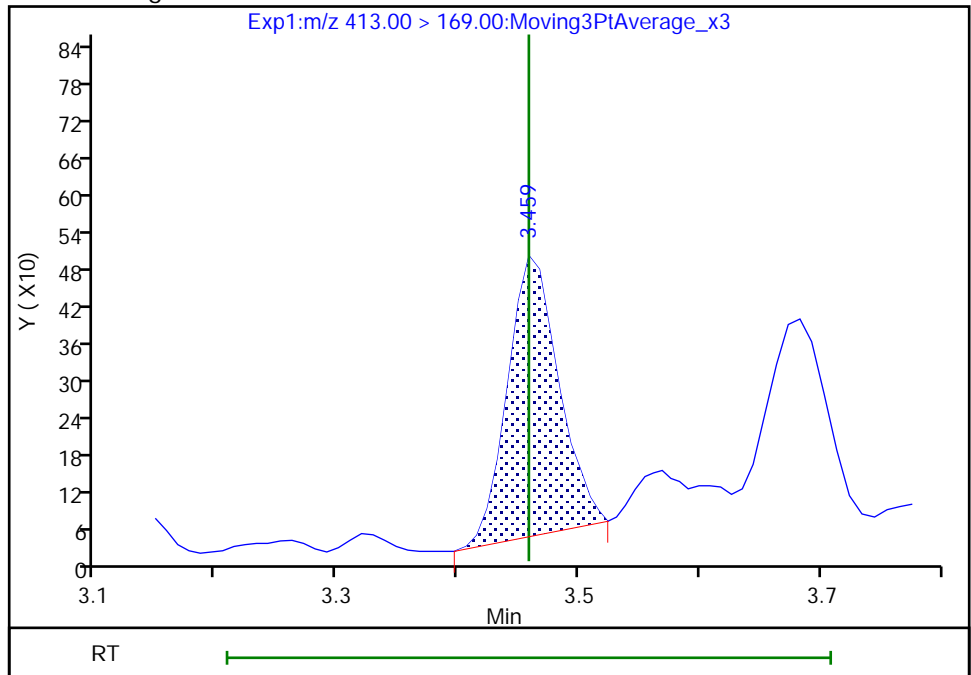
Not Detected  
Expected RT: 3.46

Processing Integration Results



RT: 3.46  
Area: 1344  
Amount: 0.007089  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

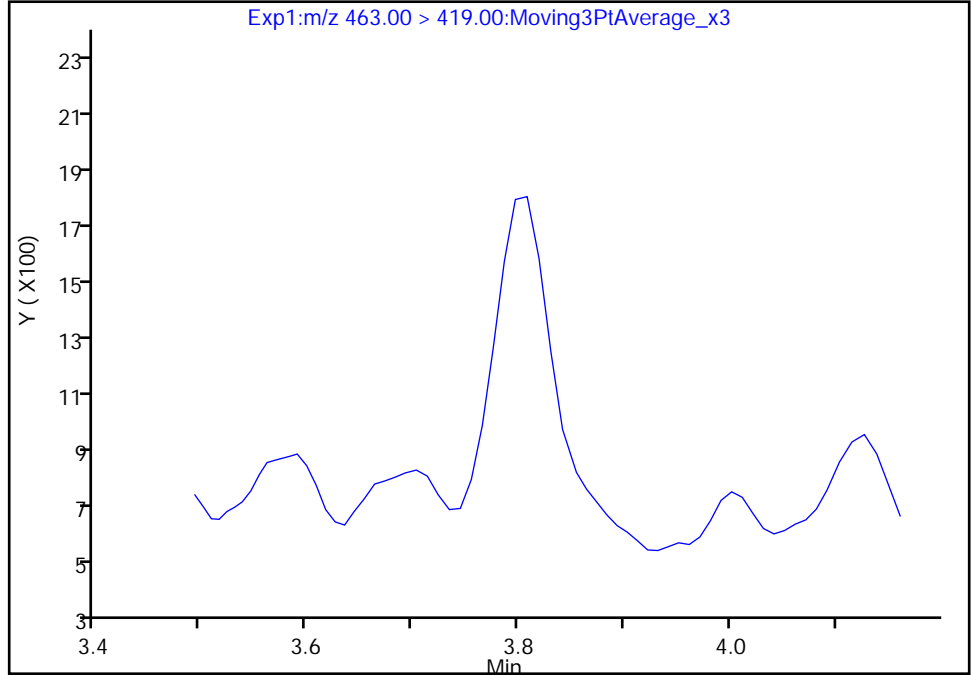
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

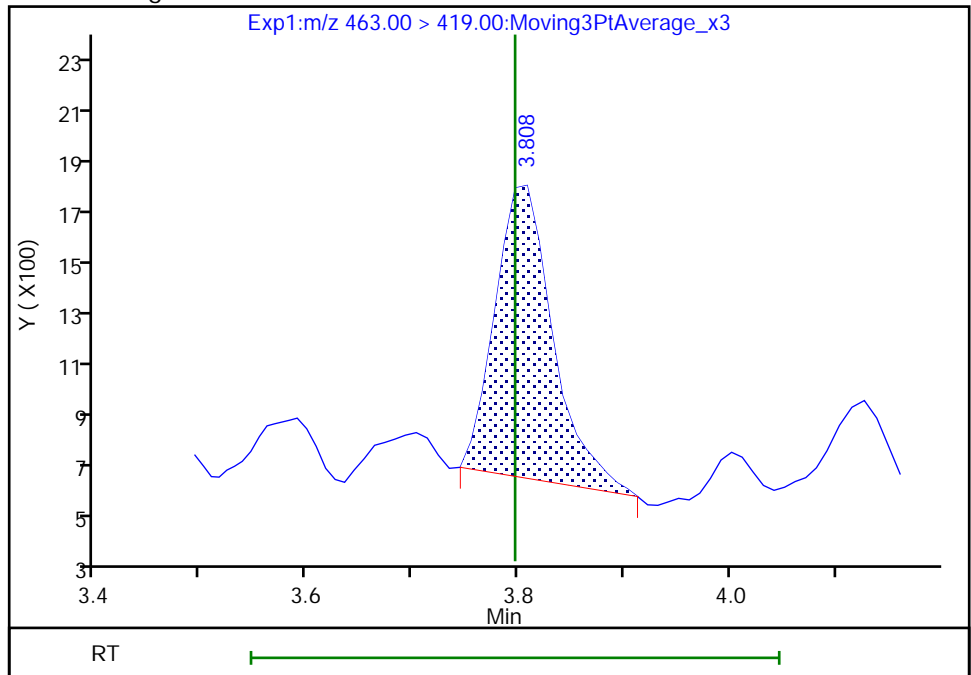
Not Detected  
Expected RT: 3.80

Processing Integration Results



Manual Integration Results

RT: 3.81  
Area: 4298  
Amount: 0.009174  
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:11:12  
Audit Action: Manually Integrated

Audit Reason: Missed Peak

Eurofins TestAmerica, Burlington

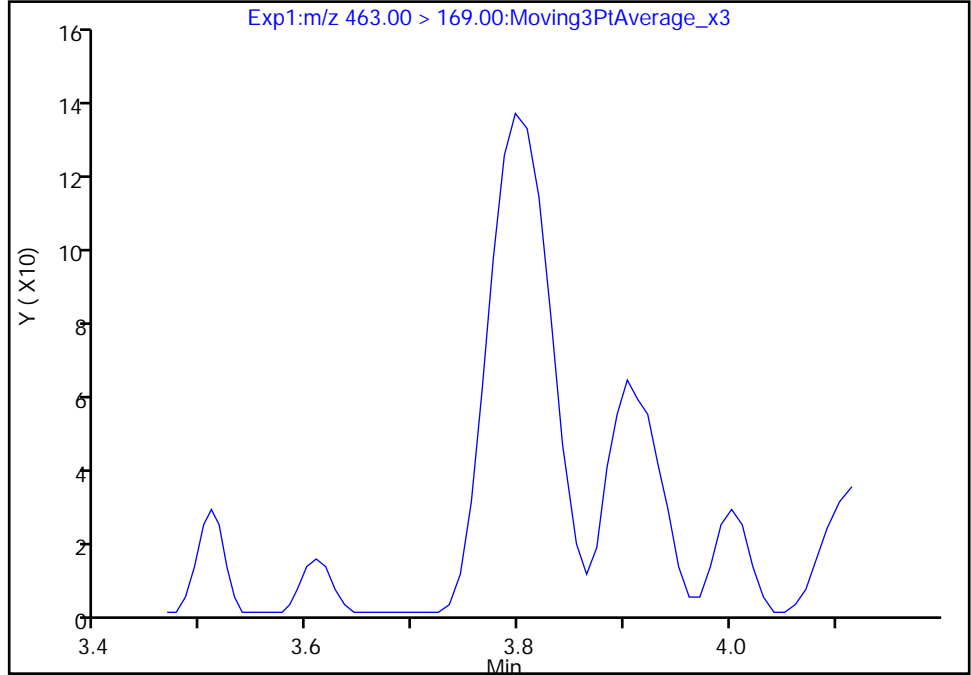
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

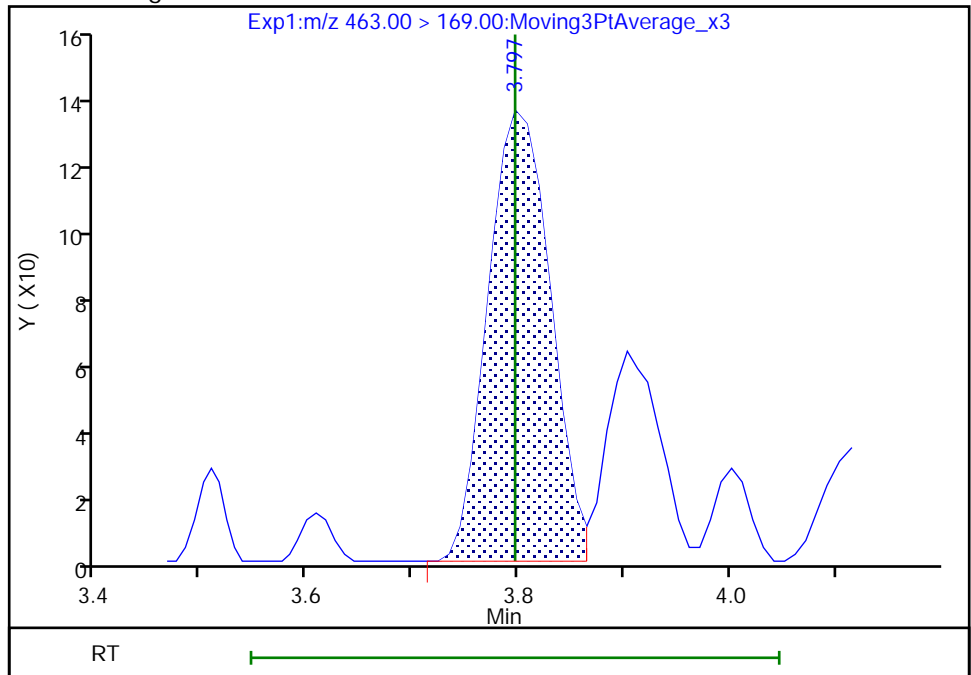
Not Detected  
Expected RT: 3.80

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

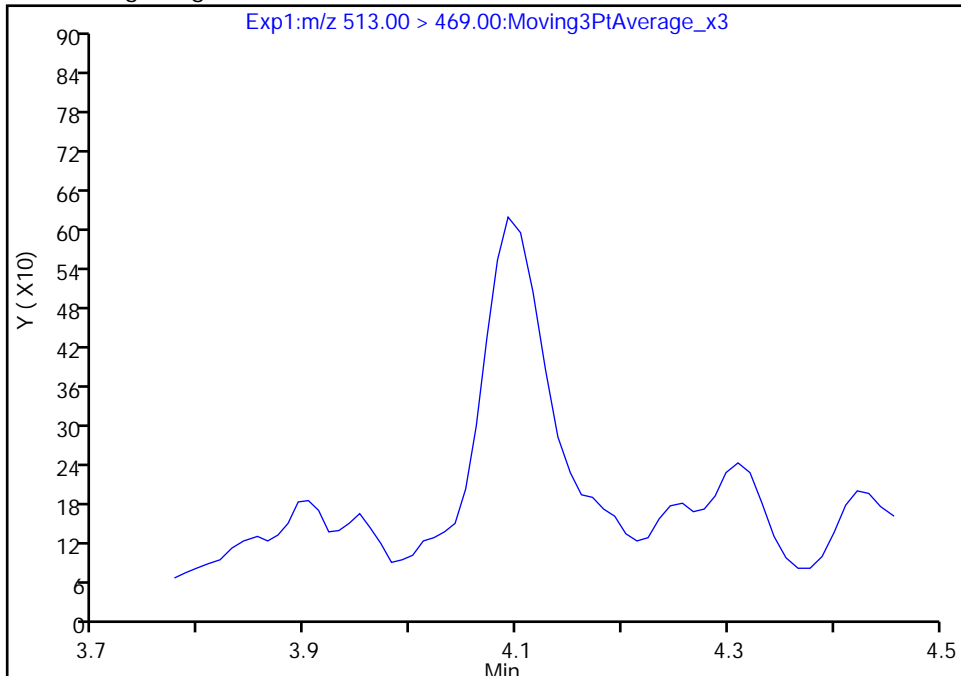
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

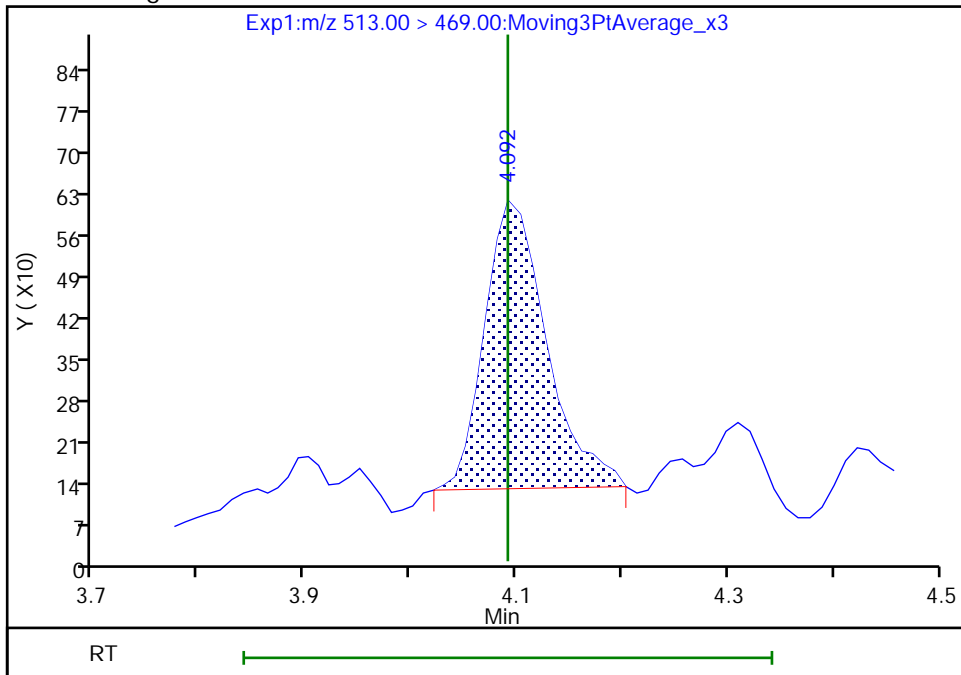
Signal: 1

Not Detected  
Expected RT: 4.09

Processing Integration Results



Manual Integration Results



RT: 4.09  
Area: 1988  
Amount: 0.004688  
Amount Units: ng/ml

Reviewer: chirgwinb, 23-Sep-2020 10:12:02  
Audit Action: Manually Integrated

Audit Reason: Missed Peak



Eurofins TestAmerica, Burlington

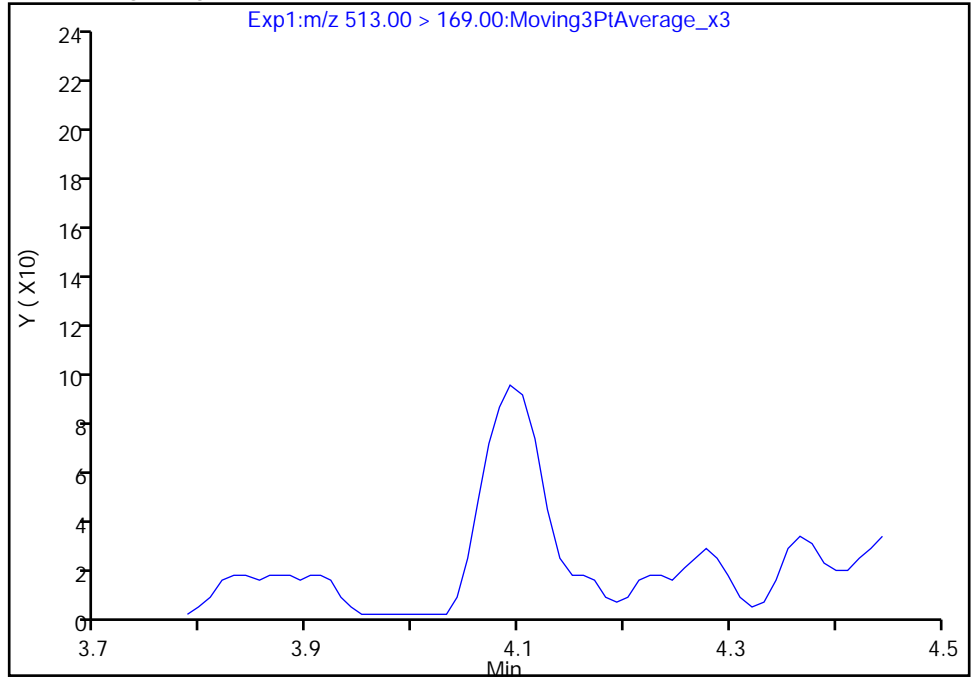
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

24 Perfluorodecanoic acid, CAS: 335-76-2

Signal: 2

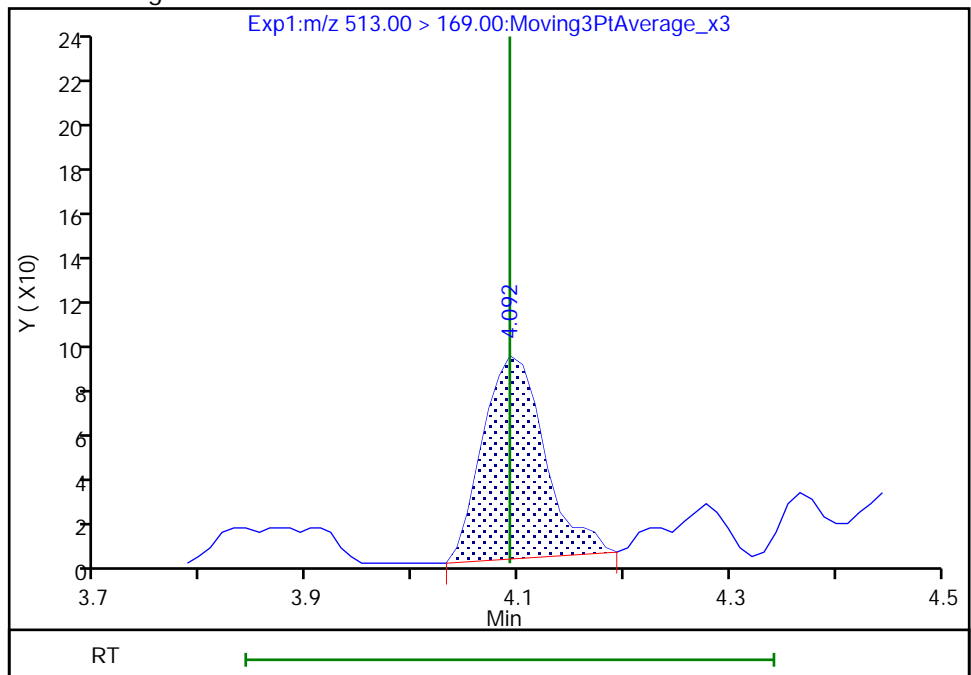
Not Detected  
Expected RT: 4.09

Processing Integration Results



Manual Integration Results

RT: 4.09  
Area: 373  
Amount: 0.004688  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

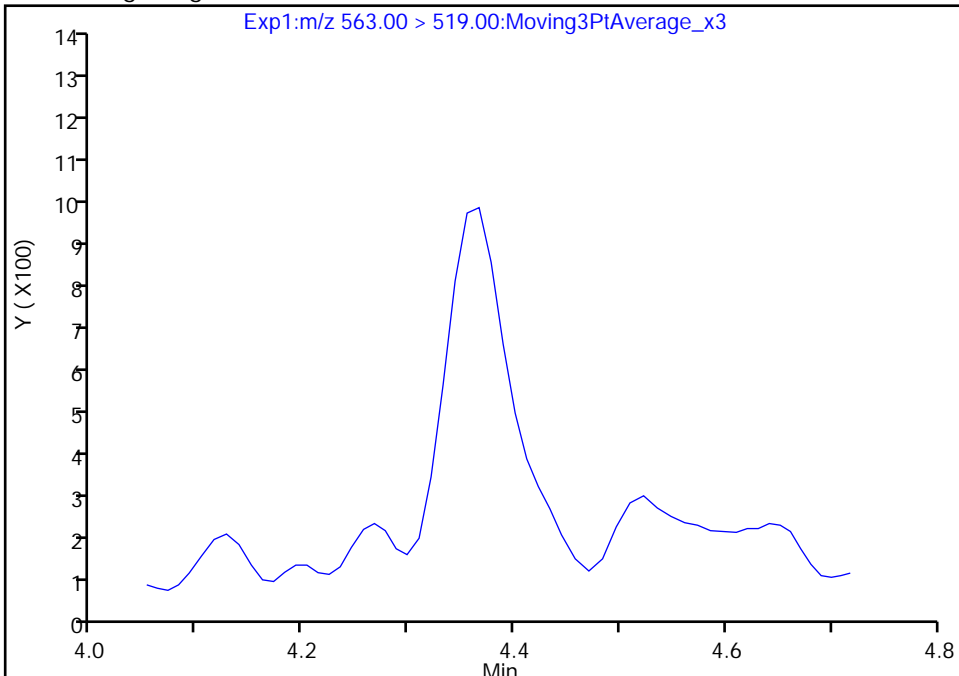
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 1

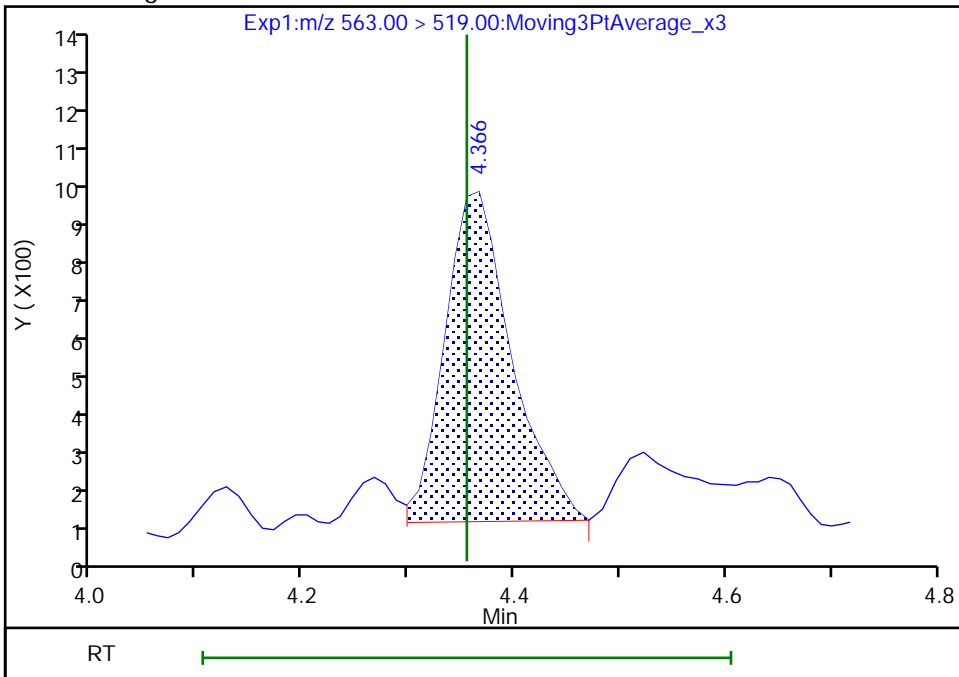
Not Detected  
Expected RT: 4.35

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

Eurofins TestAmerica, Burlington

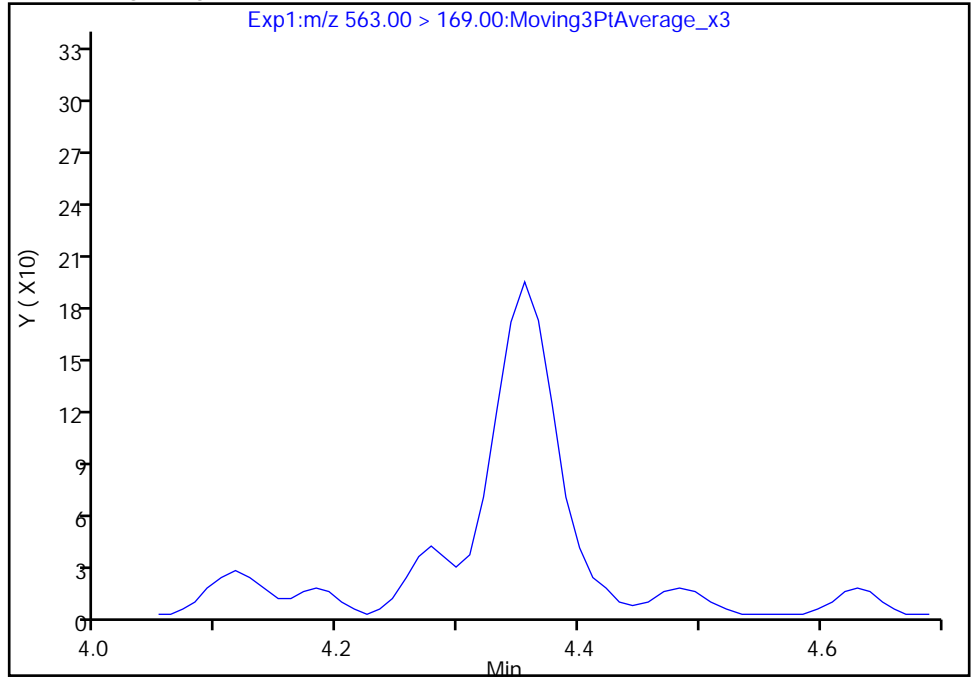
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

31 Perfluoroundecanoic acid, CAS: 2058-94-8

Signal: 2

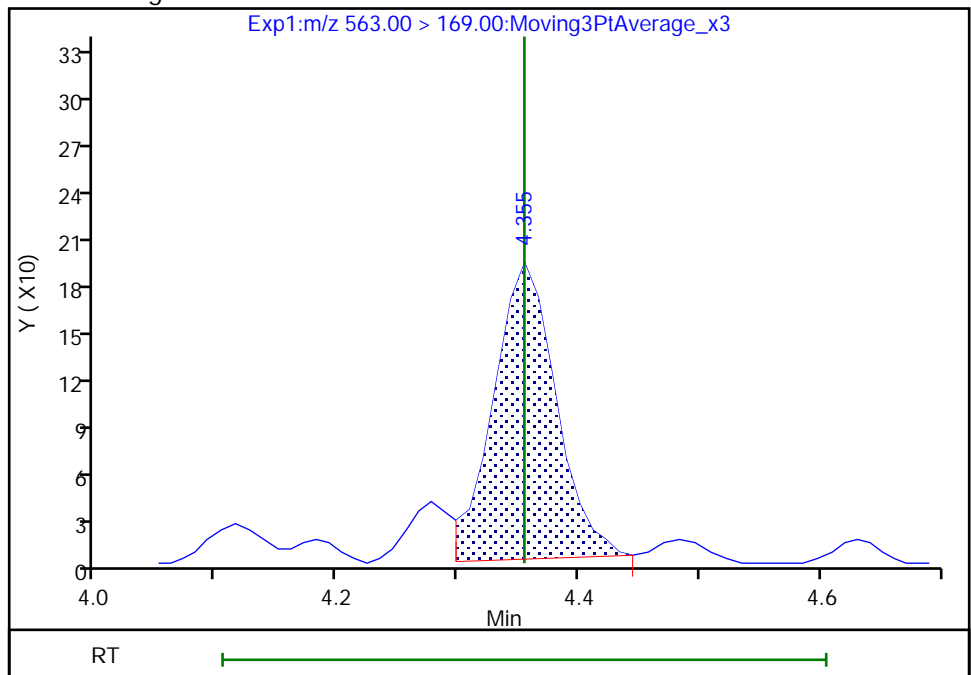
Not Detected  
Expected RT: 4.35

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

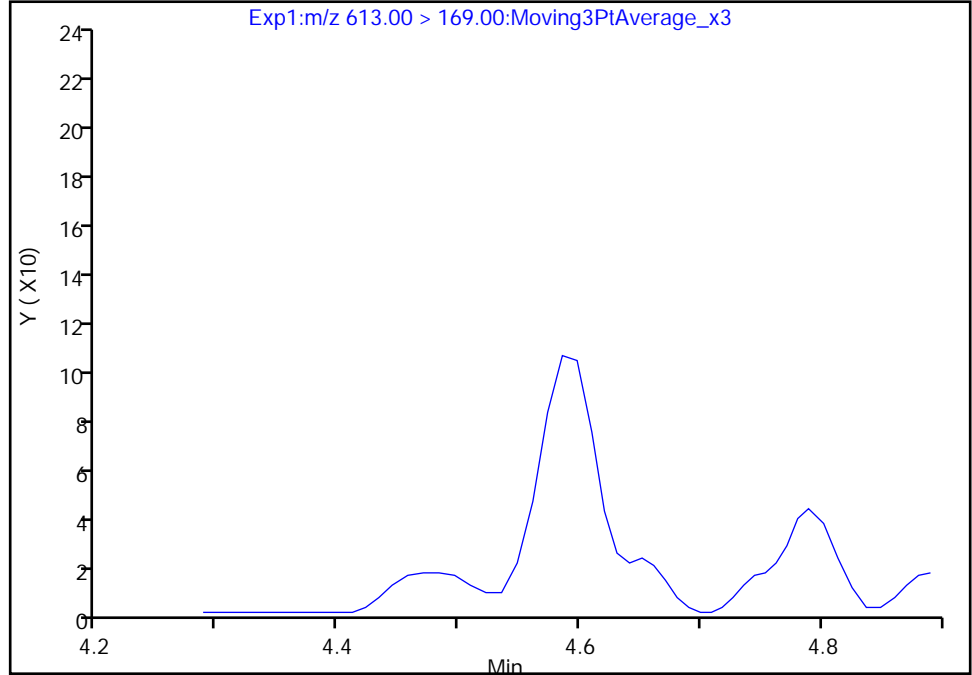
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

37 Perfluorododecanoic acid, CAS: 307-55-1

Signal: 2

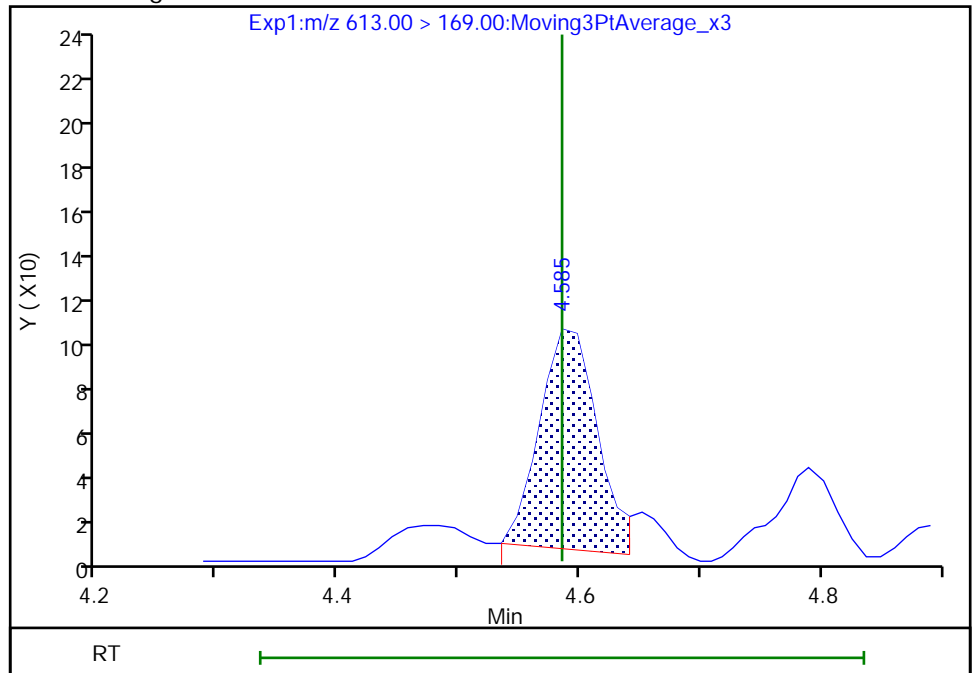
Not Detected  
Expected RT: 4.59

Processing Integration Results



RT: 4.59  
Area: 324  
Amount: 0.004259  
Amount Units: ng/ml

Manual Integration Results



Reviewer: chirgwinb, 23-Sep-2020 10:13:16  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

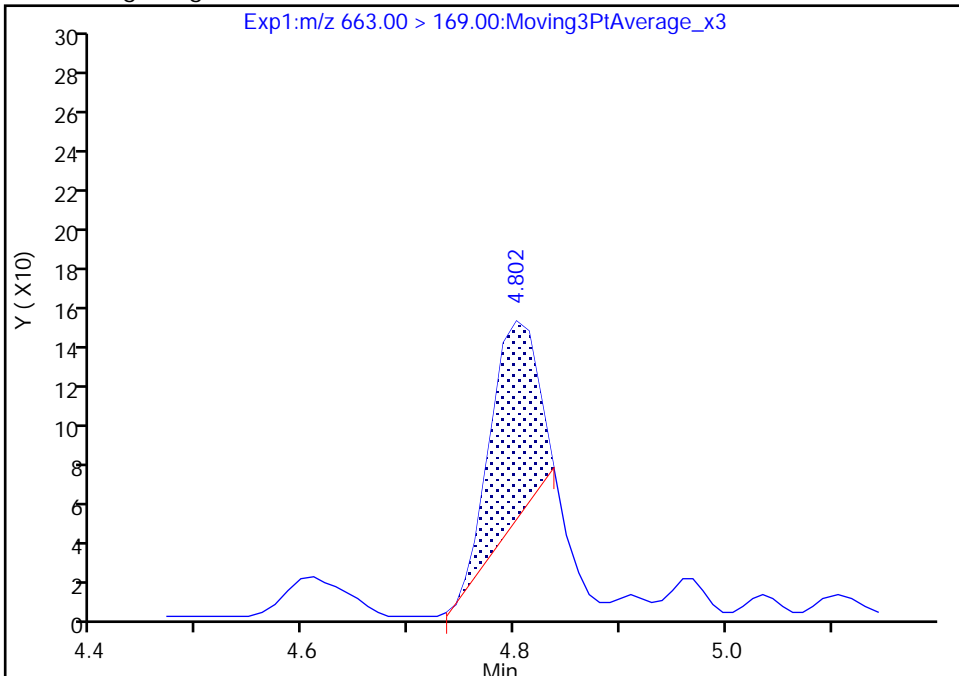
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 2

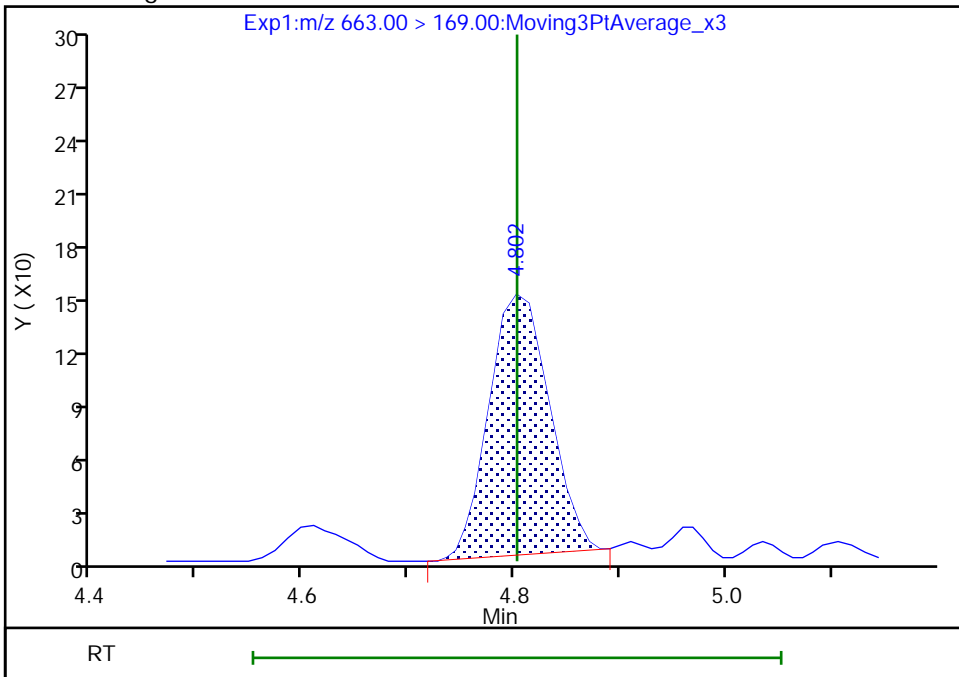
RT: 4.80  
Area: 302  
Amount: 0.005826  
Amount Units: ng/ml

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

Eurofins TestAmerica, Burlington

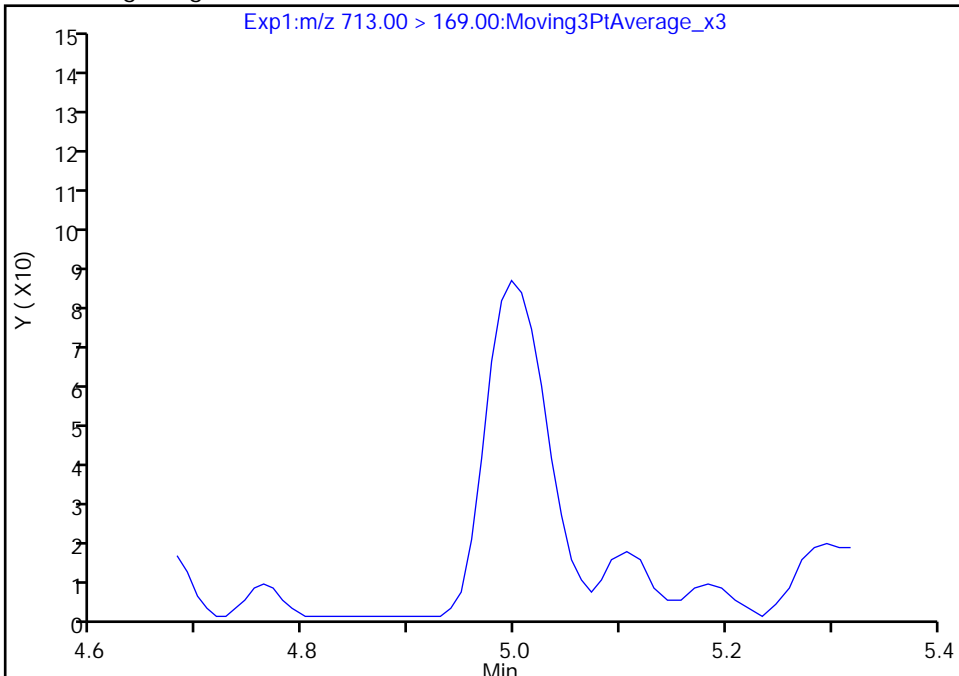
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

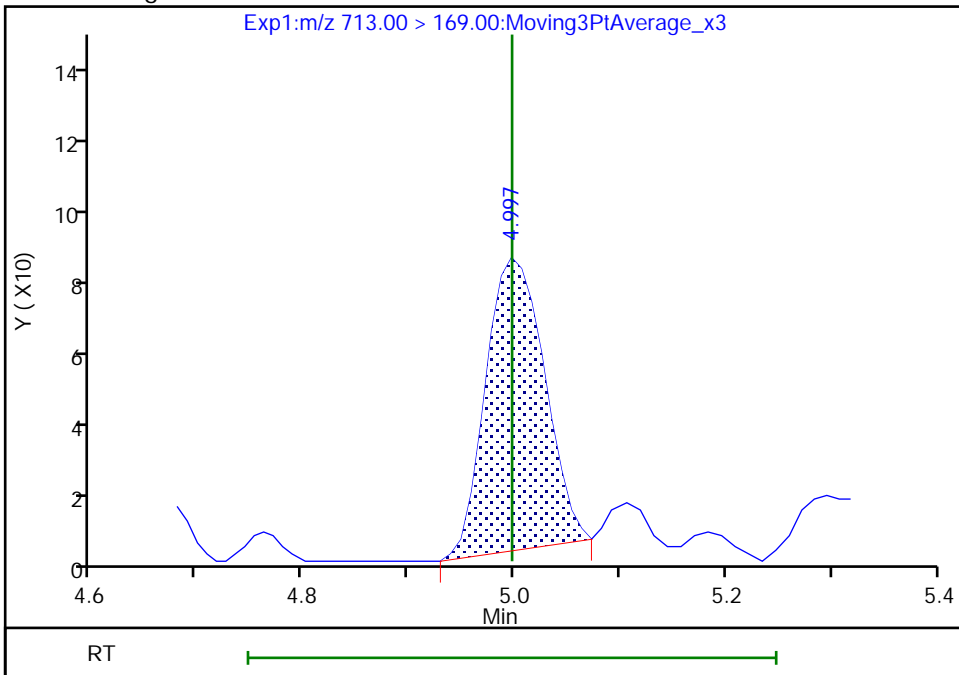
Not Detected  
Expected RT: 5.00

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

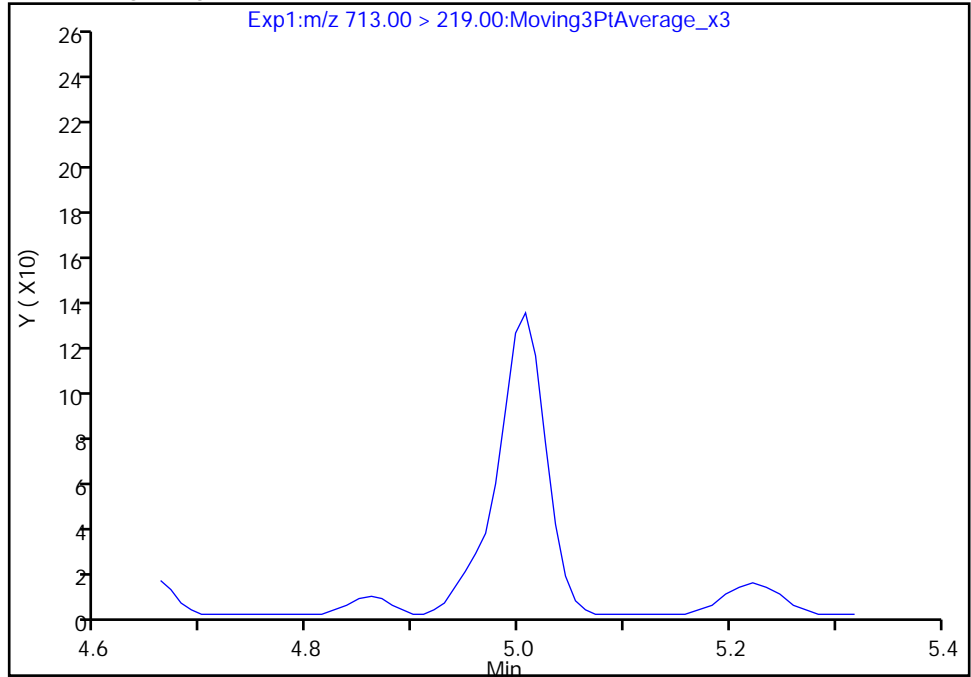
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

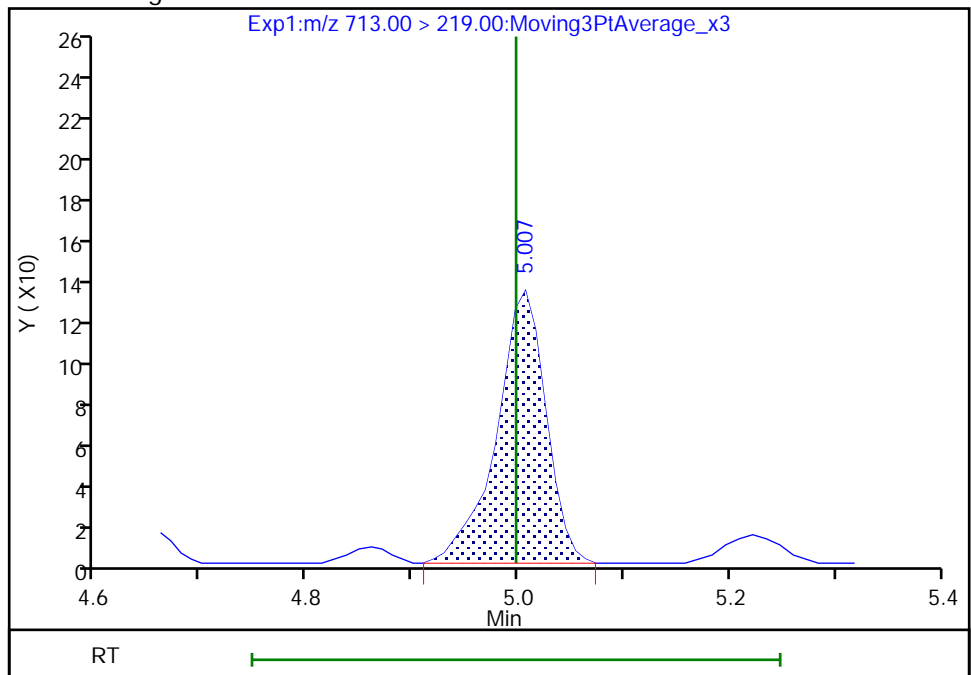
Not Detected  
Expected RT: 5.00

Processing Integration Results



Manual Integration Results

RT: 5.01  
Area: 435  
Amount: 0.005360  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

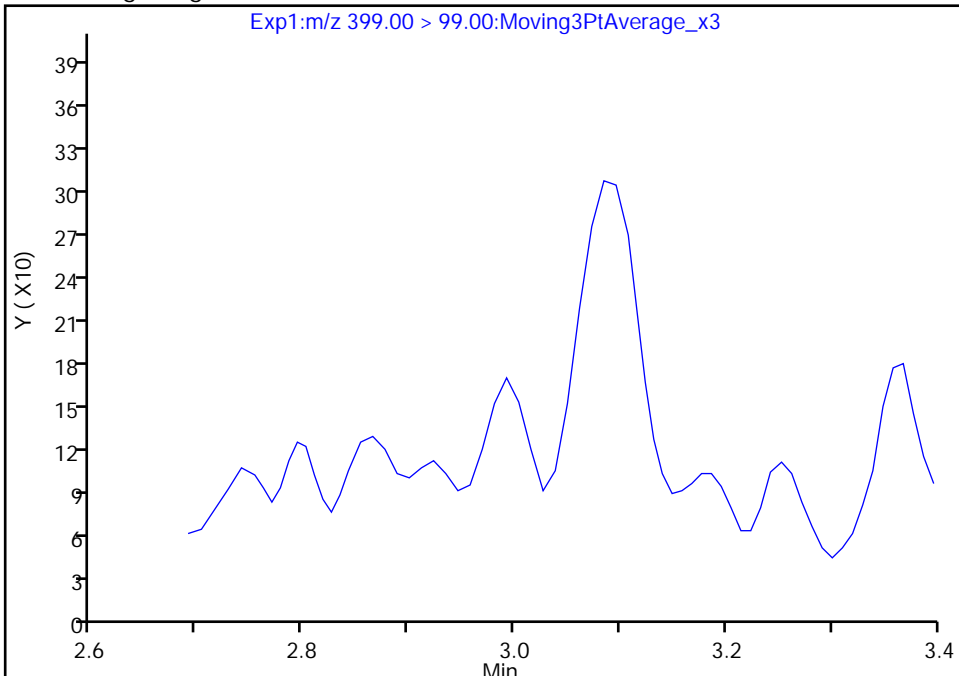
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

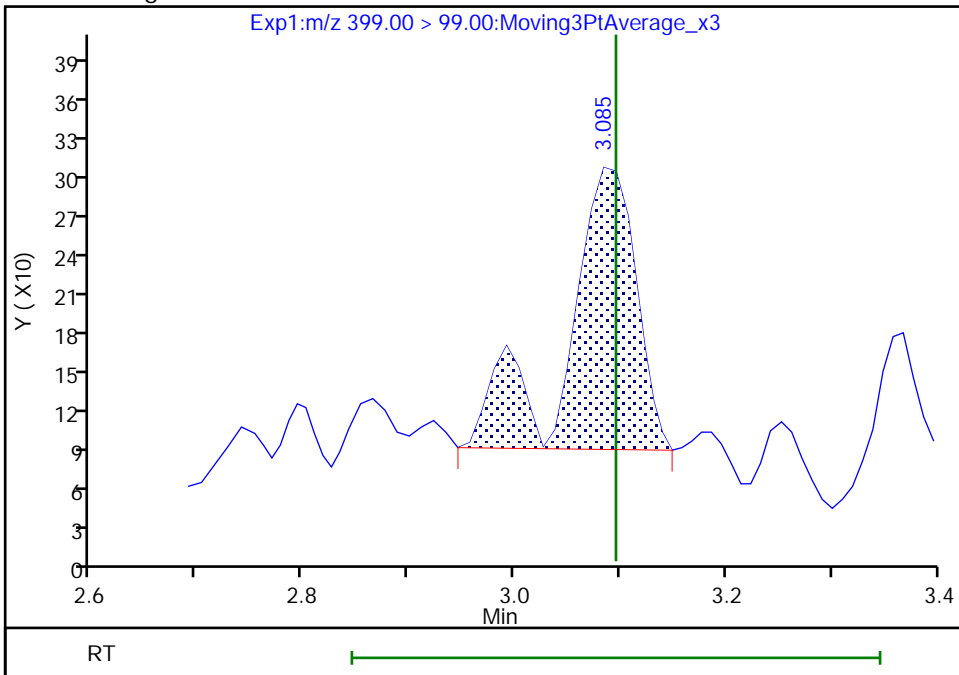
Not Detected  
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.08  
Area: 986  
Amount: 0.009585  
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:09:29  
Audit Action: Manually Integrated

Audit Reason: Missed Peak



Eurofins TestAmerica, Burlington

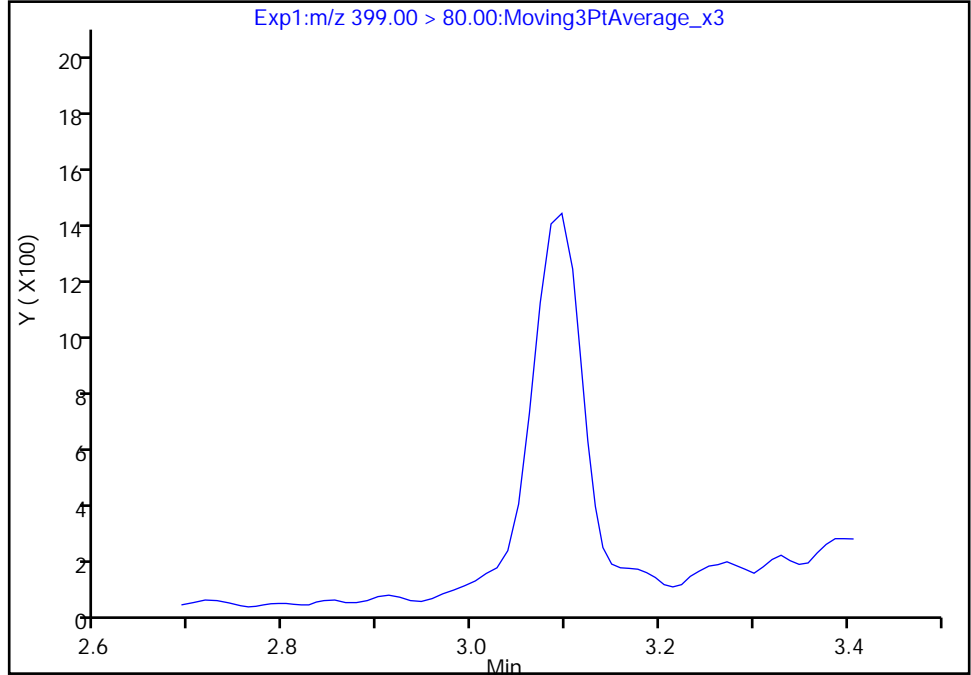
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

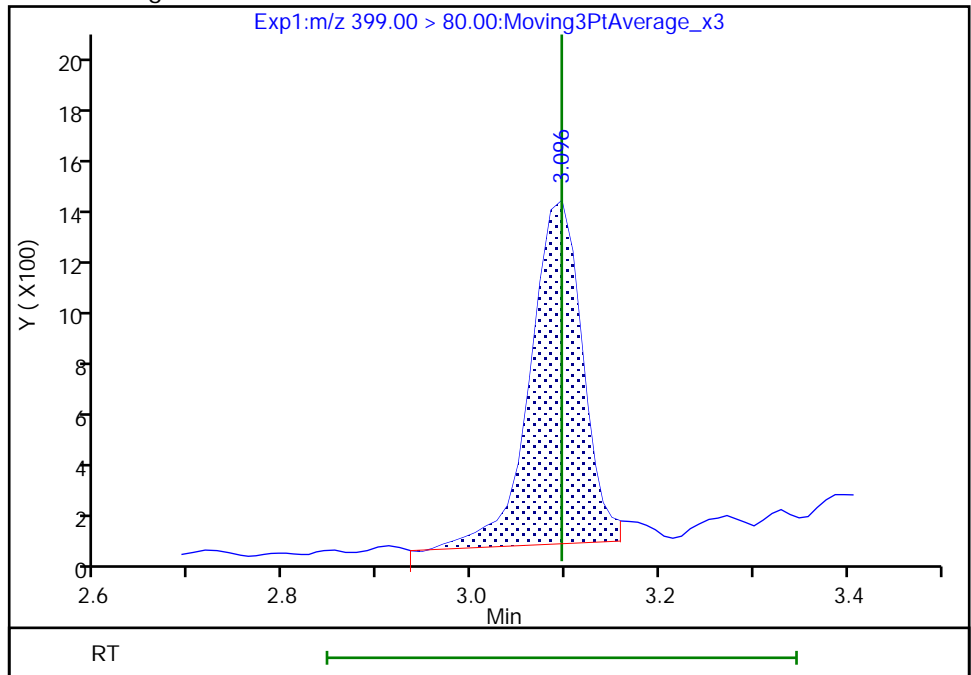
Not Detected  
Expected RT: 3.10

Processing Integration Results



Manual Integration Results

RT: 3.10  
Area: 5134  
Amount: 0.009585  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

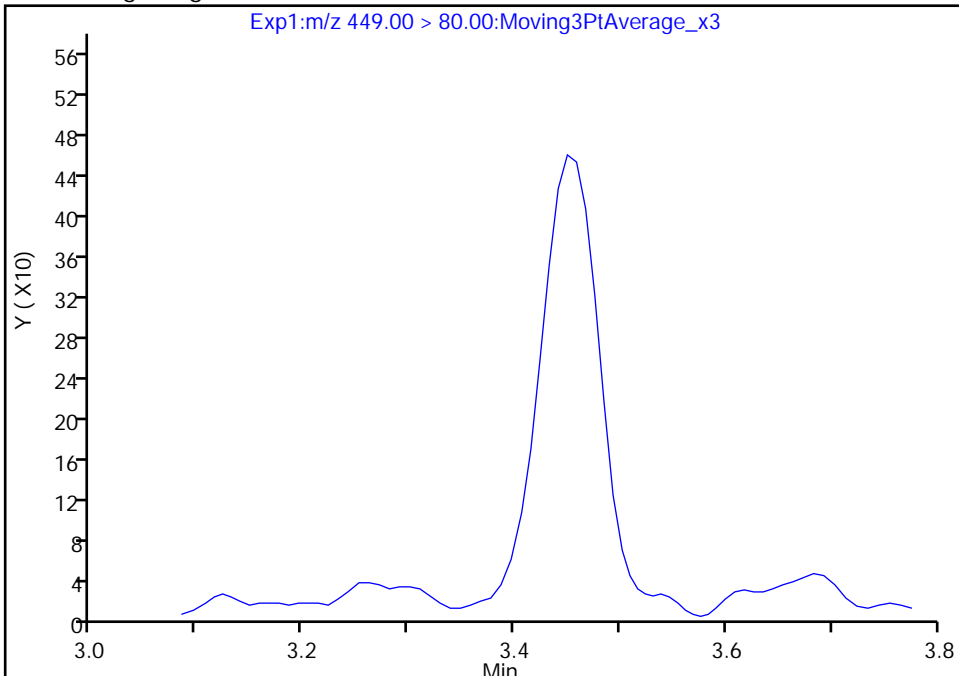
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

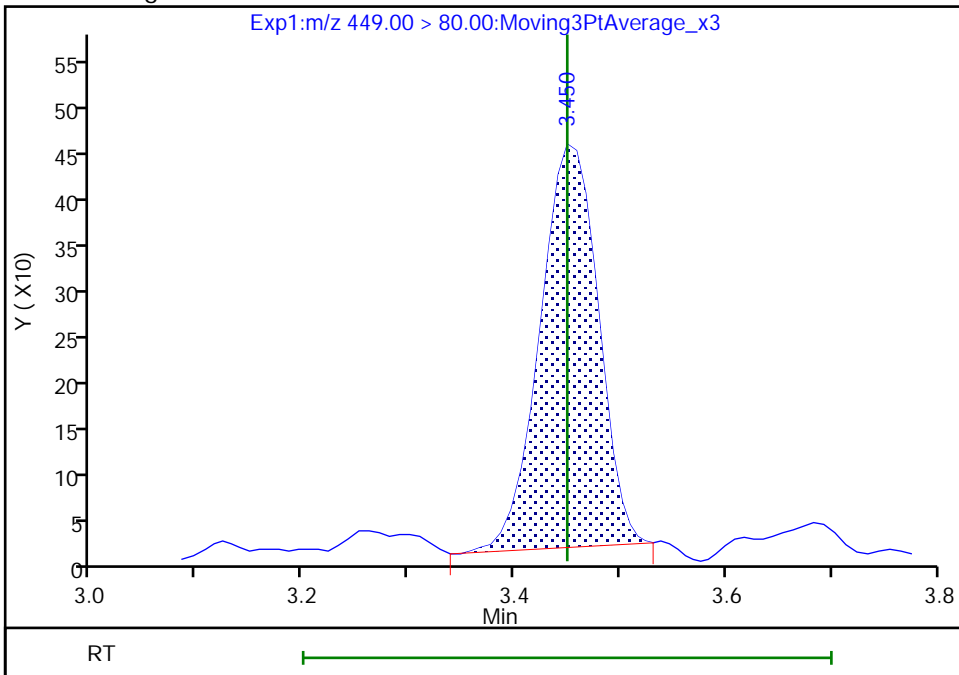
Not Detected  
Expected RT: 3.45

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

Euofins TestAmerica, Burlington

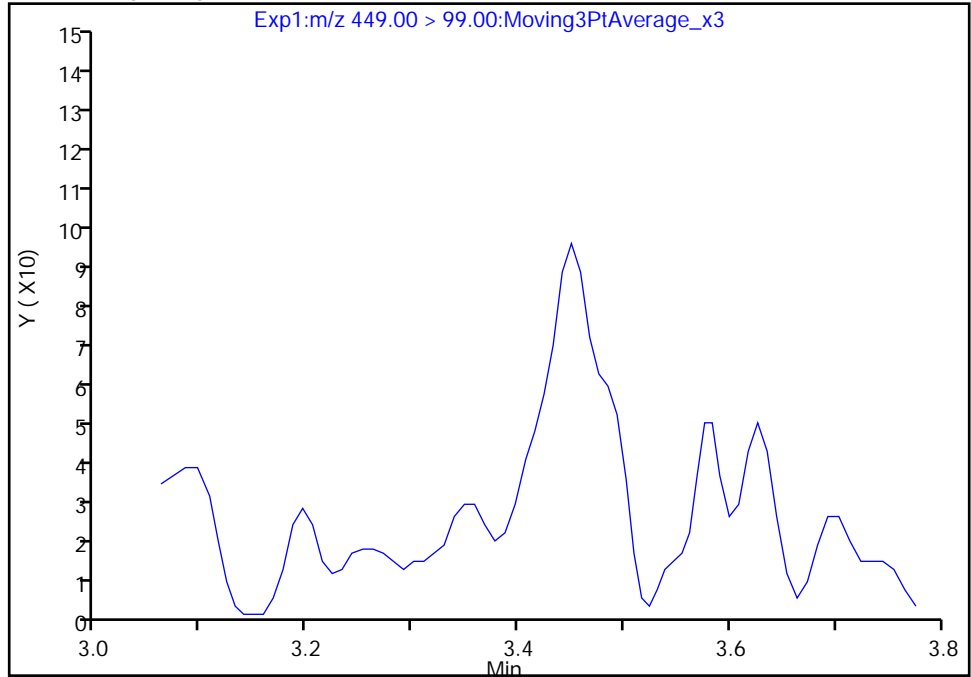
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

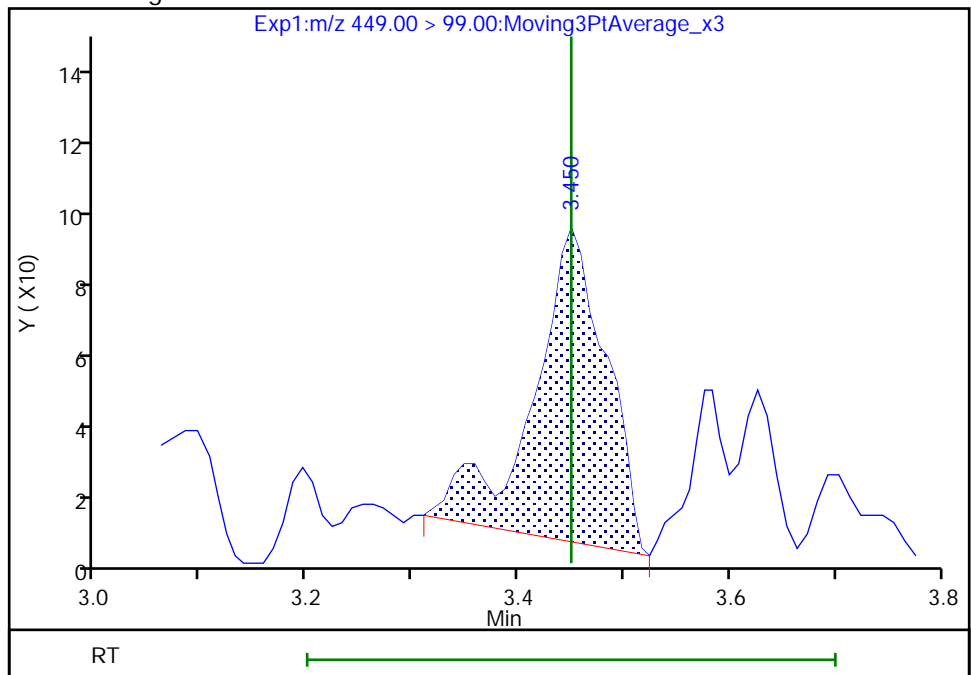
Not Detected  
Expected RT: 3.45

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

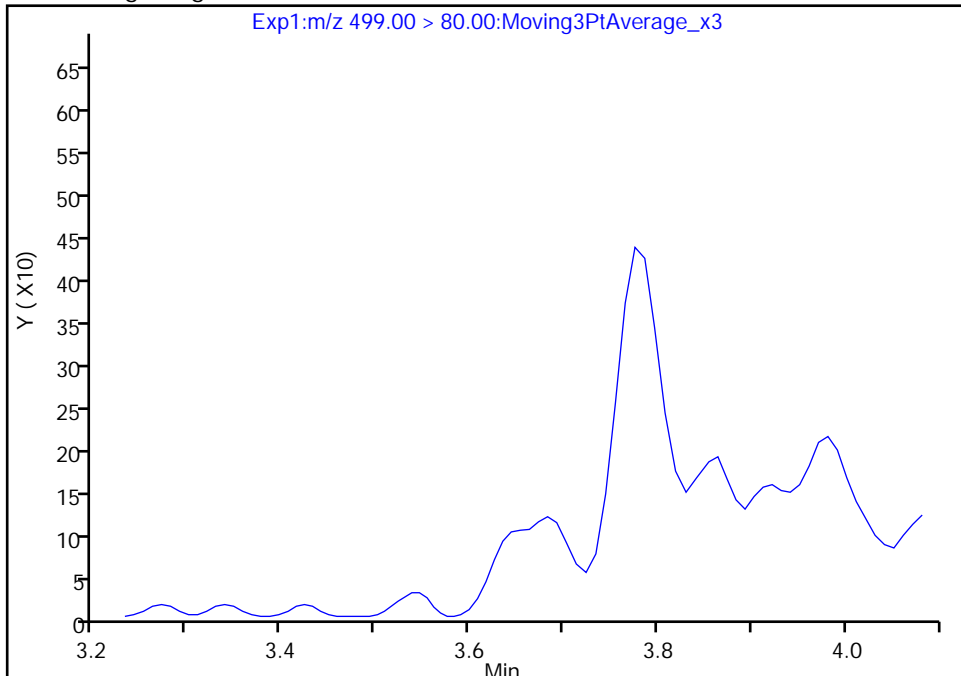
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

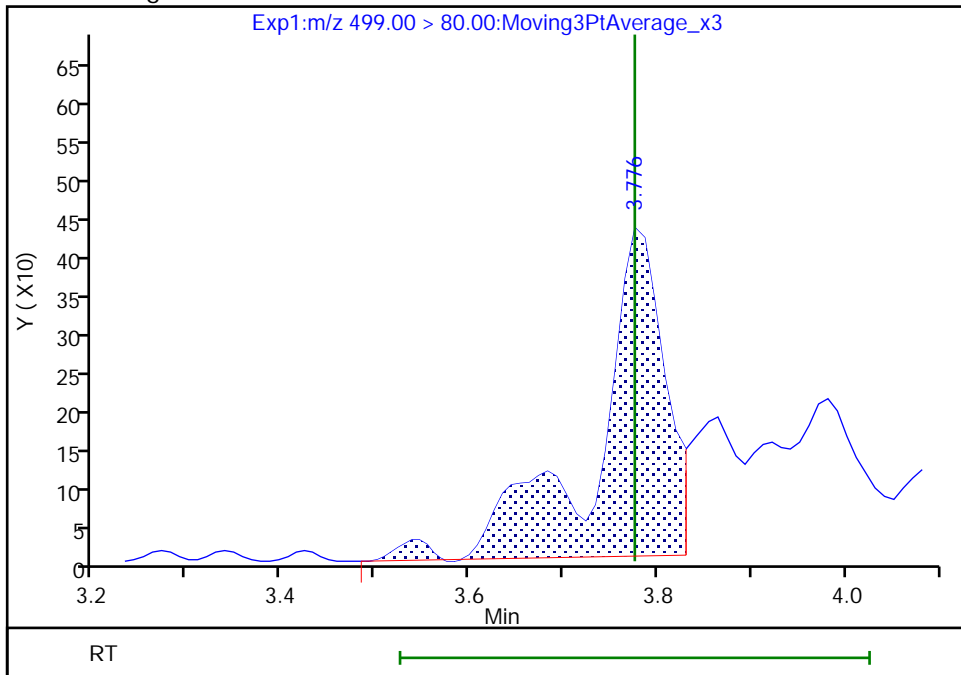
Not Detected  
Expected RT: 3.78

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

Euofins TestAmerica, Burlington

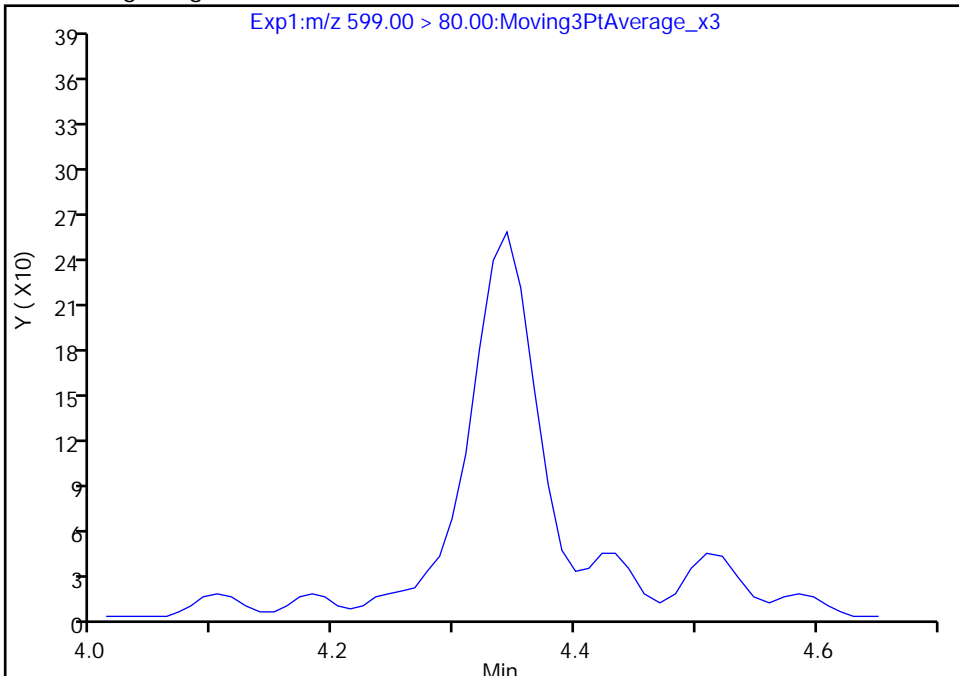
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 1

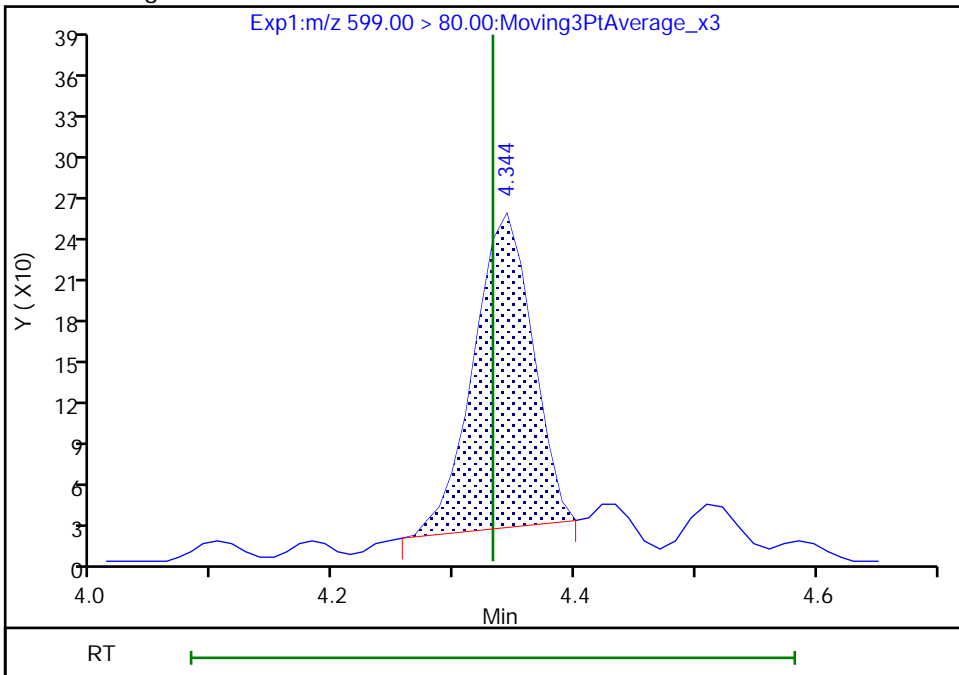
Not Detected  
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.34  
Area: 784  
Amount: 0.002687  
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:12:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

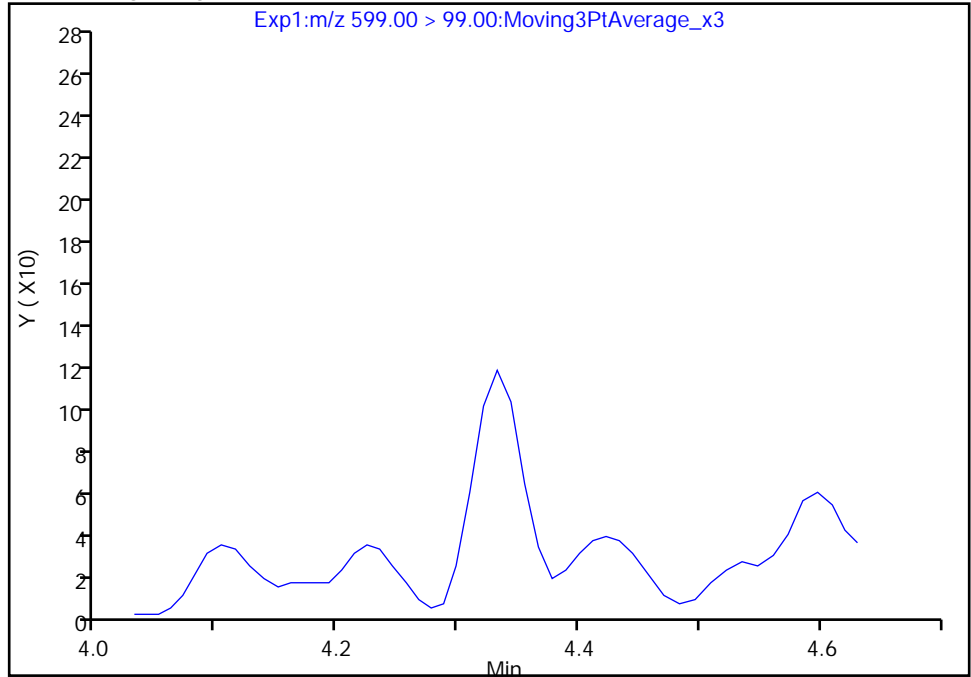
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

29 Perfluorodecanesulfonic acid, CAS: 335-77-3

Signal: 2

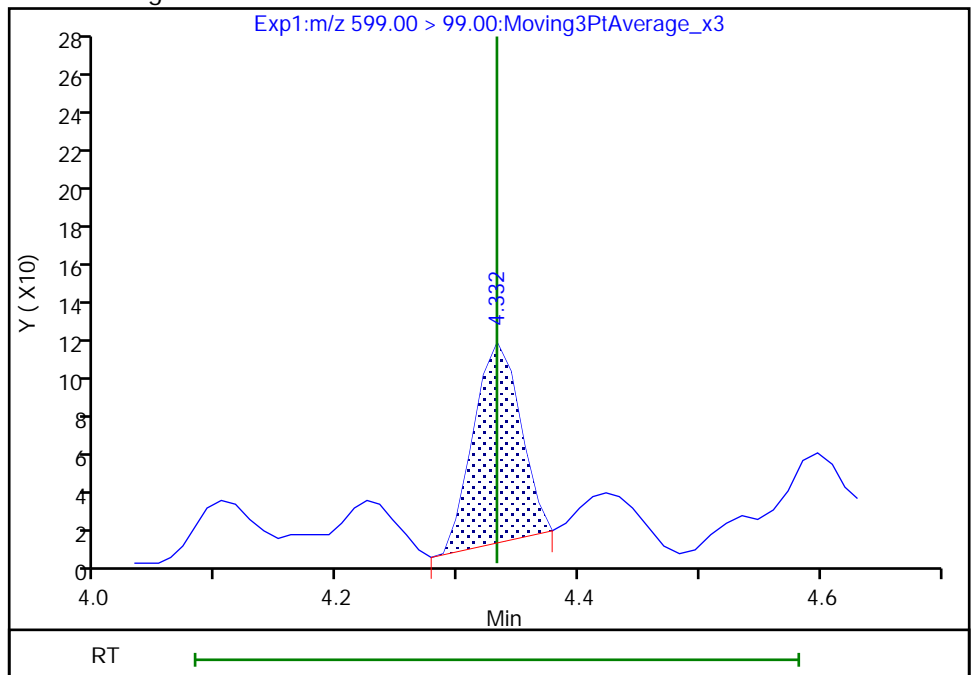
Not Detected  
Expected RT: 4.33

Processing Integration Results



Manual Integration Results

RT: 4.33  
Area: 283  
Amount: 0.002687  
Amount Units: ng/ml



Euofins TestAmerica, Burlington

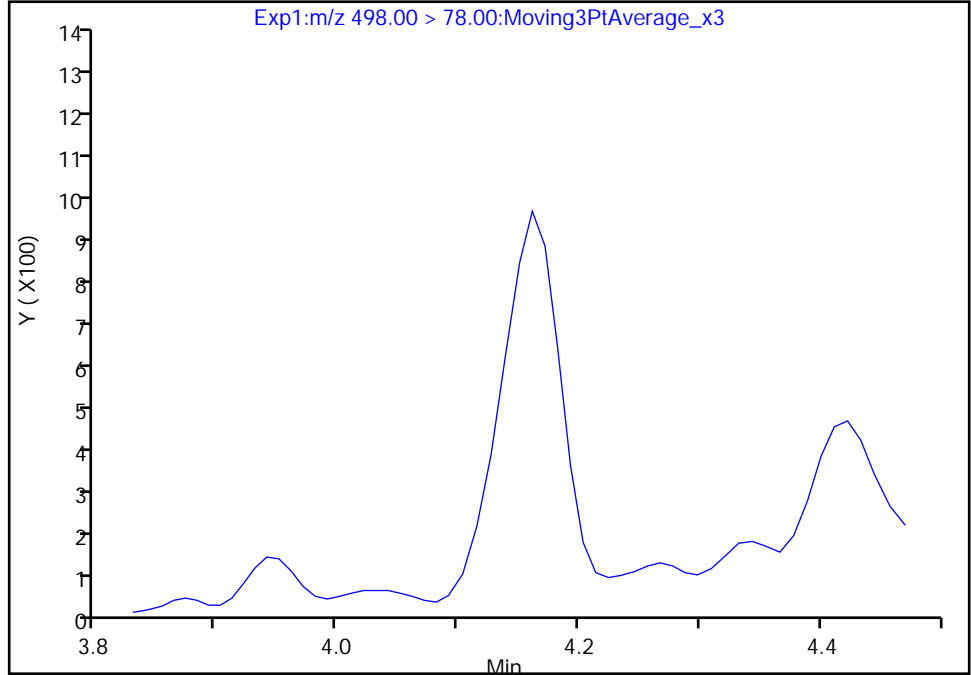
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

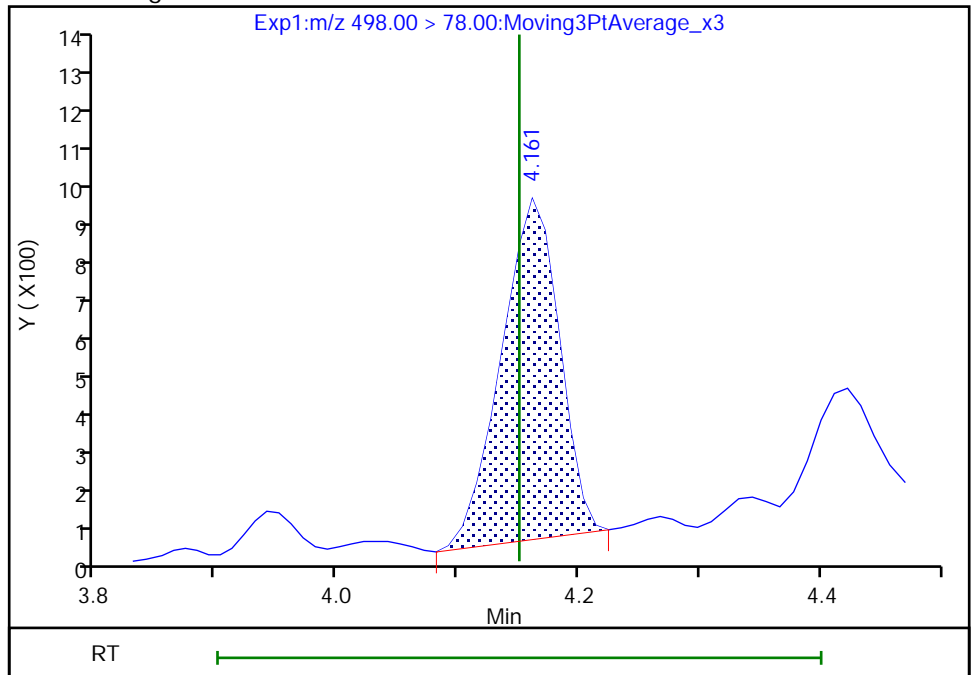
Not Detected  
Expected RT: 4.15

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

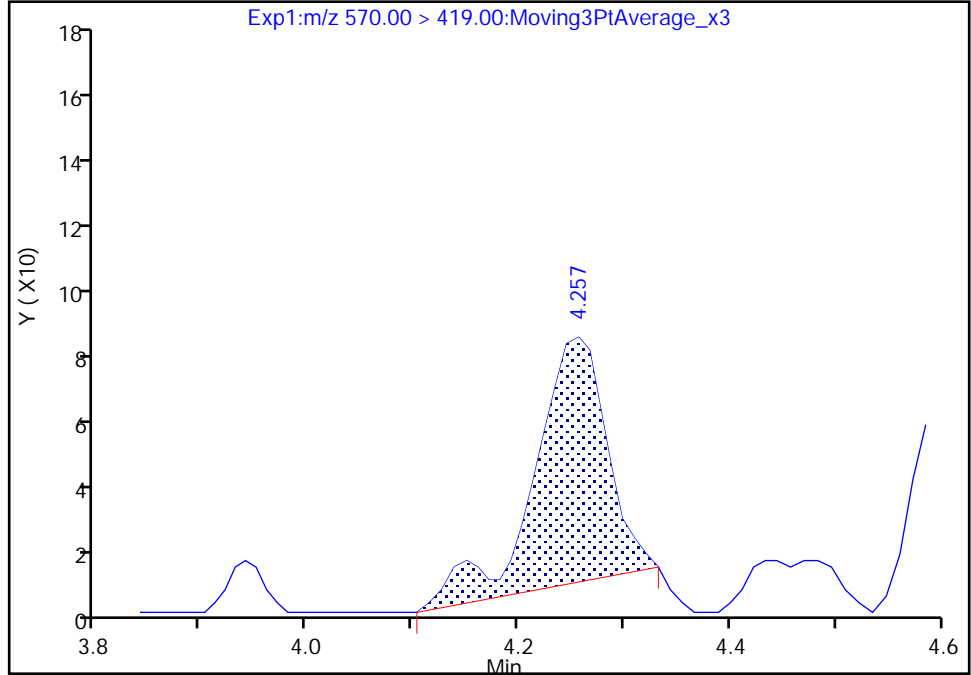
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

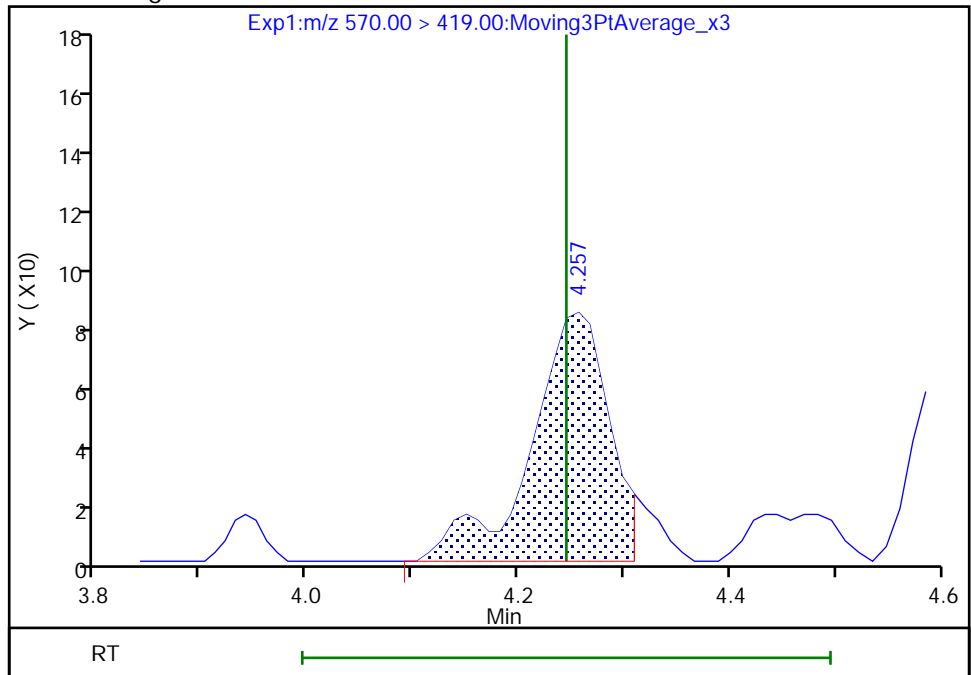
RT: 4.26  
Area: 364  
Amount: 0.016210  
Amount Units: ng/ml

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

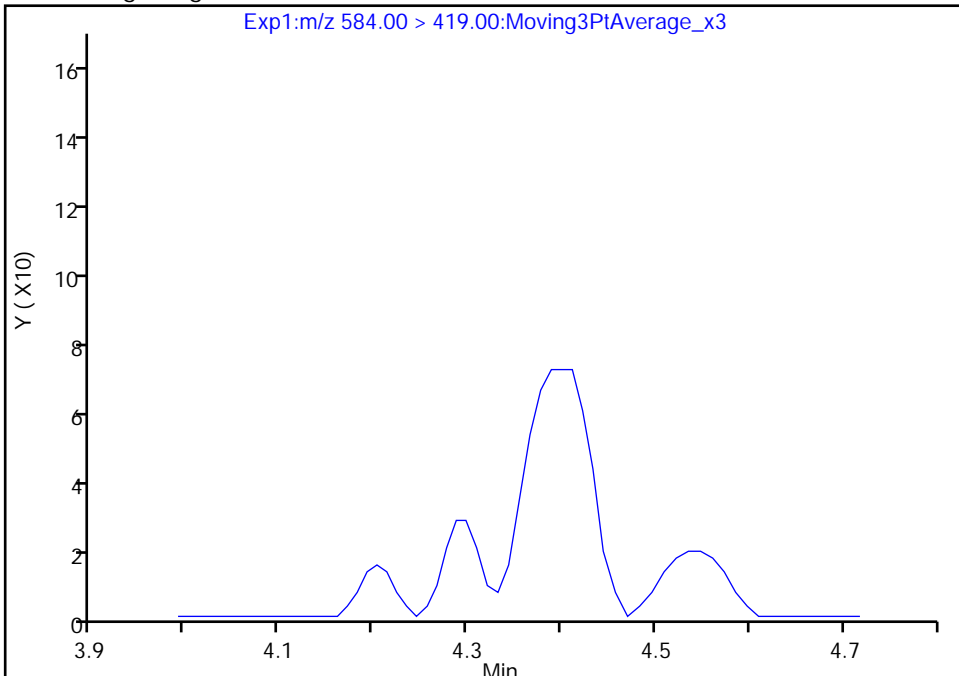
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

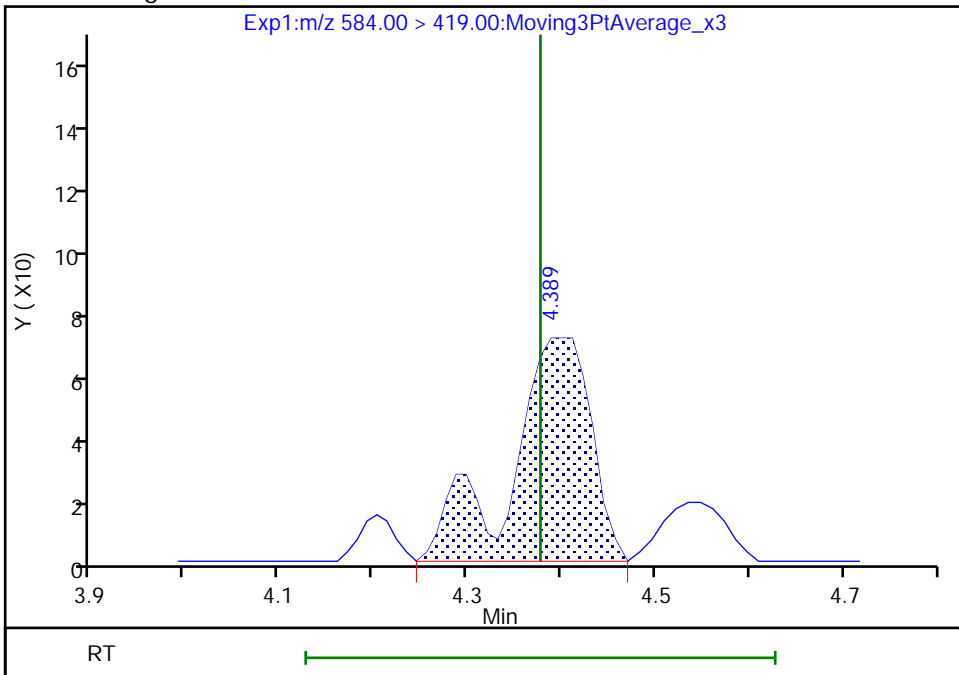
Not Detected  
Expected RT: 4.38

Processing Integration Results



Manual Integration Results

RT: 4.39  
Area: 426  
Amount: 0.017036  
Amount Units: ng/ml



Reviewer: chirgwinb, 23-Sep-2020 10:12:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

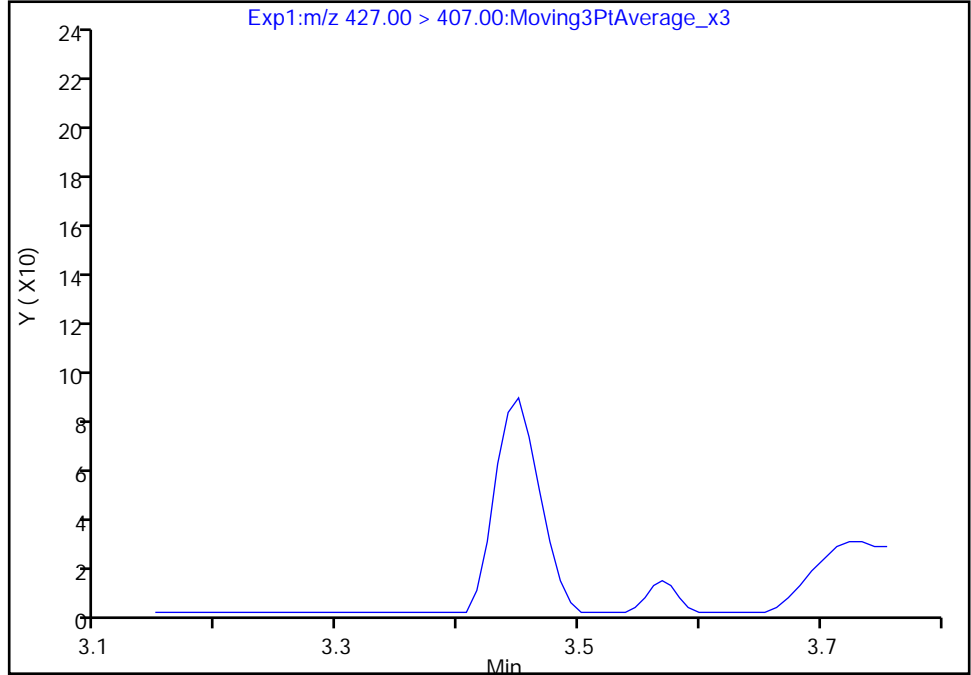
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

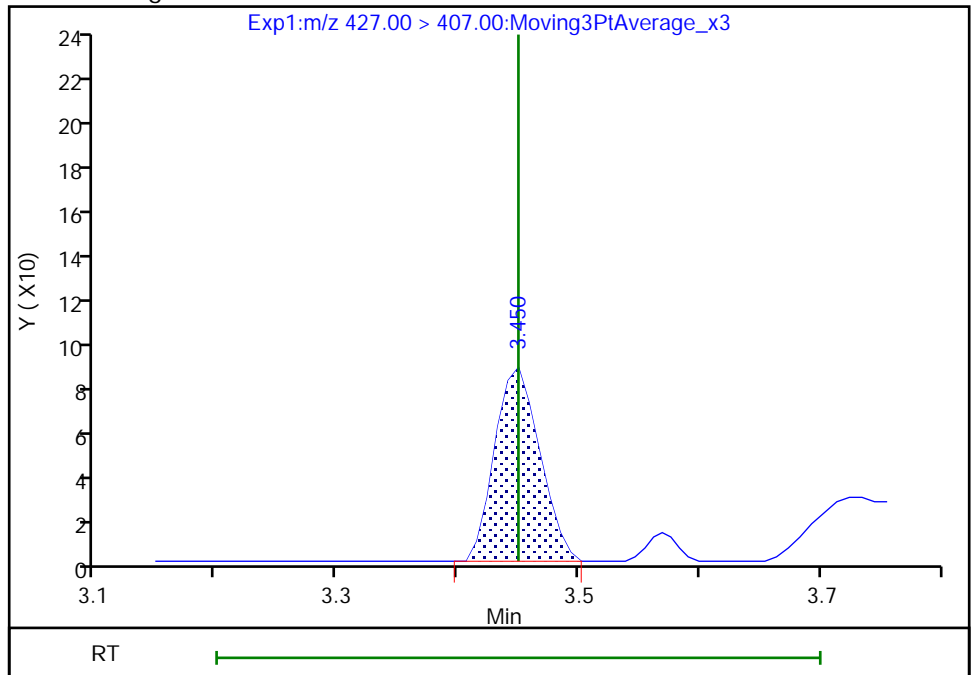
Not Detected  
Expected RT: 3.45

Processing Integration Results



Manual Integration Results

RT: 3.45  
Area: 226  
Amount: 0.004590  
Amount Units: ng/ml



Eurofins TestAmerica, Burlington

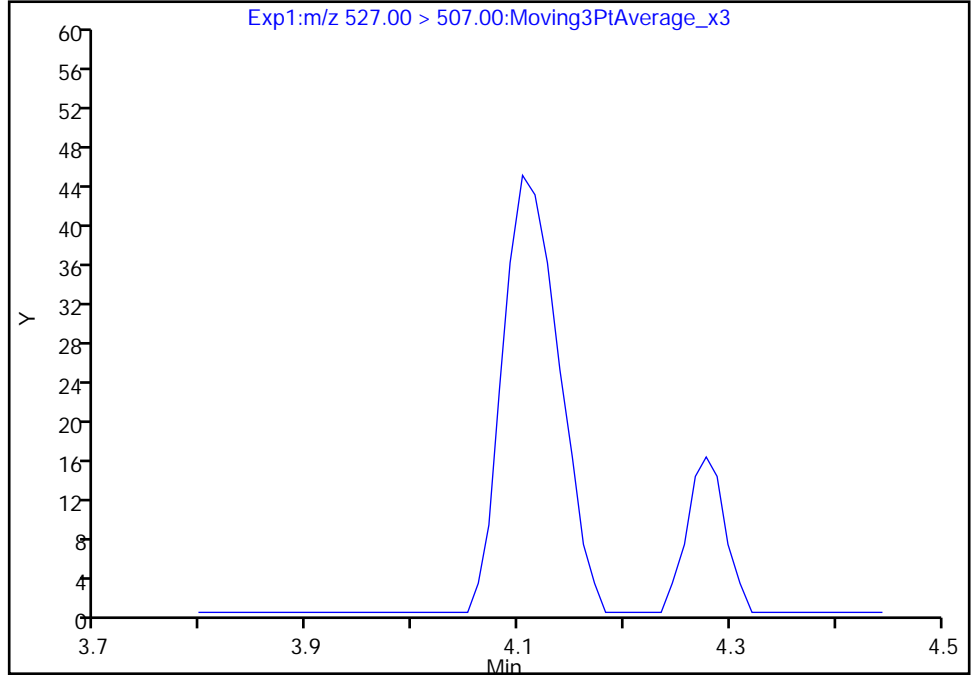
Data File: \\chromfs\Burlington\ChromData\LC812\20200922-42904.b\PA200922ICAL11.d  
Injection Date: 22-Sep-2020 20:20:13 Instrument ID: LC812  
Lims ID: ICB  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 8 Worklist Smp#: 11  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

25 1H,1H,2H,2H-perfluorodecanesulfo, CAS: 39108-34-4

Signal: 1

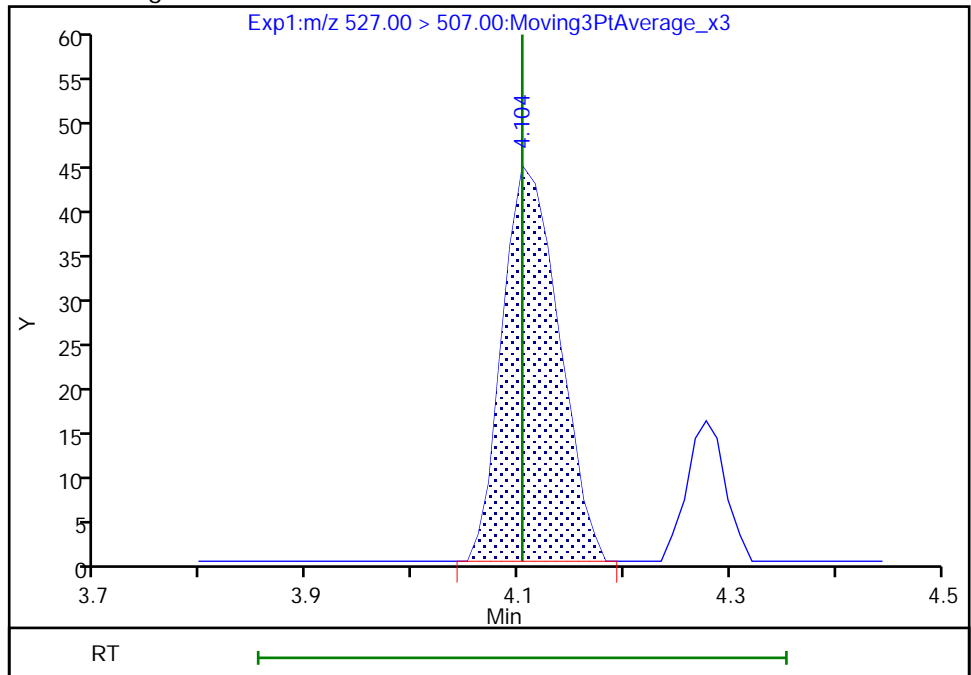
Not Detected  
Expected RT: 4.10

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.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-159386/2-A  
 Matrix: Water Lab File ID: PA200930B03.d  
 Analysis Method: 537 (modified) Date Collected: \_\_\_\_\_  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/30/2020 18:30  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	40.4		5.0	1.1
2706-90-3	Perfluoropentanoic acid (PFPeA)	39.2		2.0	1.1
307-24-4	Perfluorohexanoic acid (PFHxA)	40.1		2.0	0.83
375-85-9	Perfluoroheptanoic acid (PFHpA)	39.4		2.0	0.46
335-67-1	Perfluorooctanoic acid (PFOA)	42.9		2.0	0.98
375-95-1	Perfluorononanoic acid (PFNA)	42.7		2.0	0.58
335-76-2	Perfluorodecanoic acid (PFDA)	42.8		2.0	0.46
2058-94-8	Perfluoroundecanoic acid (PFUnA)	40.3		2.0	0.73
307-55-1	Perfluorododecanoic acid (PFDoA)	39.6		2.0	0.46
72629-94-8	Perfluorotridecanoic acid (PFTriA)	40.7		2.0	0.43
376-06-7	Perfluorotetradecanoic acid (PFTeA)	41.8		2.0	0.59
375-73-5	Perfluorobutanesulfonic acid (PFBS)	36.8		2.0	0.63
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	38.7		2.0	0.67
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	40.8		2.0	0.39
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	35.4		2.0	0.87
335-77-3	Perfluorodecanesulfonic acid (PFDS)	31.5		2.0	0.48
754-91-6	Perfluorooctanesulfonamide (PFOSA)	39.6		2.0	0.57
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	41.0		5.0	0.79
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	41.0		5.0	0.93
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	40.7		5.0	0.72
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	39.3		2.0	0.66

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: \_\_\_\_\_ Lab Sample ID: LCS 200-159386/2-A  
 Matrix: Water Lab File ID: PA200930B03.d  
 Analysis Method: 537 (modified) Date Collected: \_\_\_\_\_  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 250 (mL) Date Analyzed: 09/30/2020 18:30  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	96		50-150
STL01892	13C4 PFHpA	101		50-150
STL00990	13C4 PFOA	93		50-150
STL00991	13C4 PFOS	100		50-150
STL00995	13C5 PFNA	96		50-150
STL00992	13C4 PFBA	108		25-150
STL00993	13C2 PFHxA	105		50-150
STL00996	13C2 PFDA	90		50-150
STL00997	13C2 PFUnA	84		50-150
STL00998	13C2 PFDoA	68		50-150
STL01056	13C8 FOSA	63		25-150
STL01893	13C5 PFPeA	102		25-150
STL02116	13C2 PFTeDA	65		50-150
STL02118	d3-NMeFOSAA	83		50-150
STL02117	d5-NEtFOSAA	79		50-150
STL02279	M2-6:2 FTS	95		25-150
STL02280	M2-8:2 FTS	89		25-150
STL02337	13C3 PFBS	99		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
 Lims ID: LCS 200-159386/2-A  
 Client ID:  
 Sample Type: LCS  
 Inject. Date: 30-Sep-2020 18:30:58 ALS Bottle#: 3 Worklist Smp#: 3  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: LCS 200-159386/2-A  
 Misc. Info.: 200-0043035-003 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:23 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 12:36:49

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	1.990	-0.009	0.576	1033758	1.35	108	17852	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.981	1.990	-0.009	1.000	780158	1.01		101	239	M
D 3 13C5 PFPeA	267.90 > 223.00	2.312	2.326	-0.014	0.672	696143	1.27	102	3065	
4 Perfluoropentanoic acid	262.90 > 219.00	2.326	2.326	0.0	1.006	577073	0.9812	98.1	32.4	
D 47 13C3 PFBS	301.90 > 80.00	2.340	2.339	0.001	0.680	765651	1.15	98.8	279880	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.340	2.353	-0.013	1.000	604126	0.9206	Target=2.07	104	2781	M
298.90 > 99.00	2.340	2.353	-0.013	1.000	308586		1.96(1.04-3.11)		532	
D 60 M2-4:2 FTS	329.00 > 81.00	2.653	2.665	-0.012	0.771	57915	1.16	99.1	154	
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.653	2.665	-0.012	1.000	77087	0.9616	103	1107	
D 7 13C2 PFHxA	315.00 > 270.00	2.691	2.703	-0.012	0.782	738040	1.31	105	4551	
6 Perfluorohexanoic acid	313.00 > 269.00	2.691	2.703	-0.012	1.000	596159	1.00	Target=12.44	100	312
313.00 > 119.00	2.691	2.703	-0.012	1.000	50433		11.82(6.22-18.66)		63.5	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.704	2.703	0.001	0.880	565683	1.04	Target=3.64	111	2093
349.00 > 99.00	2.704	2.703	0.001	0.880	161298		3.51(1.82-5.46)		921	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.810	2.810	0.0	0.817	70242	1.34	107	1184	

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	0.997	112674	0.9423		94.2	33.4	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.893	544722	1.14		96.4	2153	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	492454	0.9680	Target=4.60	106	819	M
399.00 > 99.00	3.073	3.073	0.0	1.000	105103		4.69(2.30-6.91)		257	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.073	3.084	-0.011	0.893	649821	1.27		101	2790	
10 Perfluoroheptanoic acid										
363.00 > 319.00	3.073	3.084	-0.011	1.000	512689	0.9842	Target=3.34	98.4	315	
363.00 > 169.00	3.073	3.084	-0.011	1.000	160244		3.20(1.67-5.01)		247	
77 DONA										
377.00 > 251.00	3.116	3.115	0.001	0.830	1101678	0.9131	Target=2.44	96.9	3003	
377.00 > 85.00	3.116	3.115	0.001	0.830	477639		2.31(1.22-3.67)		1631	
16 Perfluoroheptanesulfonic acid										
449.00 > 80.00	3.433	3.433	0.001	0.914	462843	1.02	Target=7.08	107	3437	
449.00 > 99.00	3.433	3.433	0.001	0.914	63652		7.27(3.54-10.63)		869	
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.433	3.433	0.001	1.000	49409	1.02		107	840	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.433	3.433	0.001	0.997	72313	1.13		95.3	736	
D 14 13C4 PFOA										
417.00 > 372.00	3.441	3.441	0.0	1.000	608974	1.16		92.9	3804	
* 62 13C2 PFOA										
415.00 > 370.00	3.441	3.450	-0.009		665926	1.25			2731	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.441	3.450	-0.009	1.000	539298	1.07	Target=2.29	107	330	M
413.00 > 169.00	3.441	3.450	-0.009	1.000	235220		2.29(1.14-3.43)		735	M
D 18 13C4 PFOS										
503.00 > 80.00	3.755	3.765	-0.010	1.091	467964	1.20		100	2414	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.755	3.765	-0.010	1.000	376945	0.8858	Target=7.10	95.5	928	M
499.00 > 99.00	3.755	3.765	-0.010	1.000	54465		6.92(3.55-10.64)		444	M
D 19 13C5 PFNA										
468.00 > 423.00	3.776	3.776	0.0	1.097	531557	1.20		96.2	3595	
20 Perfluorononanoic acid										
463.00 > 419.00	3.776	3.786	-0.010	1.000	462182	1.07	Target=5.83	107	207	
463.00 > 169.00	3.776	3.786	-0.010	1.000	75733		6.10(2.91-8.74)		1270	
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.922	3.922	0.0	1.044	353588	0.9441		101	3086	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.052	4.052	0.0	1.079	301764	0.8973	Target=3.38	93.5	3561	
549.00 > 99.00	4.052	4.052	0.0	1.079	90267		3.34(1.69-5.08)		878	
D 23 13C2 PFDA										
515.00 > 470.00	4.072	4.072	0.0	1.183	478230	1.13		90.3	5039	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.072	4.082	-0.010	1.000	405362	1.07	Target=6.81	107	1011	
513.00 > 169.00	4.072	4.082	-0.010	1.000	54503		7.44(3.41-10.22)		904	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.082	4.082	0.0	1.000	26042	0.9834		103	564	
D 26 M2-8:2 FTS										
529.00 > 81.00	4.082	4.092	-0.010	1.186	80114	1.06		88.9	1117	
D 21 13C8 FOSA										
506.00 > 78.00	4.139	4.139	0.0	1.203	533759	0.7815		62.5	3227	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.139	4.139	0.0	1.000	395619	0.99		99.1	762	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.214	0.0	1.224	24989	1.04		82.8	113	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.224	4.224	0.0	1.002	19358	1.03		103	270	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.309	4.309	0.0	1.148	221546	0.7873	Target=3.31	81.7	1230	
599.00 > 99.00	4.309	4.309	0.0	1.148	67461		3.28(1.66-4.97)		520	
D 30 13C2 PFUnA										
565.00 > 520.00	4.343	4.343	0.0	1.262	334263	1.04		83.6	6427	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.343	4.343	0.0	1.000	266012	1.01	Target=6.57	101	419	
563.00 > 169.00	4.343	4.343	0.0	1.000	41608		6.39(3.28-9.85)		564	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.343	4.355	-0.012	1.262	25474	0.9820		78.6	483	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.355	0.0	1.003	19116	1.02		102	407	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.181	235648	0.7294		77.4	3838	
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.329	286923	0.8485		67.9	3130	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	221858	0.99	Target=5.16	99.1	397	
613.00 > 169.00	4.573	4.573	0.0	1.000	47719		4.65(2.58-7.75)		931	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.585	4.585	0.0	1.123	12262	0.8333		86.4	506	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.736	4.736	0.0	1.261	58673	0.6498	Target=0.45	67.1	284	
699.00 > 99.00	4.736	4.736	0.0	1.261	137550		0.43(0.22-0.67)		1735	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.772	4.772	0.0	1.044	193507	1.02	Target=3.30	102	225	
663.00 > 169.00	4.772	4.772	0.0	1.044	55449		3.49(1.65-4.95)		1440	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.969	4.969	0.0	1.444	194941	0.8093		64.7	2082	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.969	4.969	0.0	1.000	37310	1.04	Target=1.06	104	987	
713.00 > 219.00	4.969	4.969	0.0	1.000	35124		1.06(0.53-1.59)		747	



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	5.329	5.329	0.0	1.549	218775	0.8014		64.1	3310	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.329	5.329	0.0	1.000	160146	1.03	Target=3.06	103	167	
813.00 > 169.00	5.329	5.329	0.0	1.000	57004		2.81(1.53-4.58)		1776	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.685	5.694	-0.009	1.067	143720	1.10	Target=2.82	110	290	
913.00 > 169.00	5.685	5.694	-0.009	1.067	52947		2.71(1.41-4.24)		1295	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d

Injection Date: 30-Sep-2020 18:30:58

Instrument ID: LC812

Lims ID: LCS 200-159386/2-A

Client ID:

Operator ID: lc812tech

ALS Bottle#: 3

Worklist Smp#: 3

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

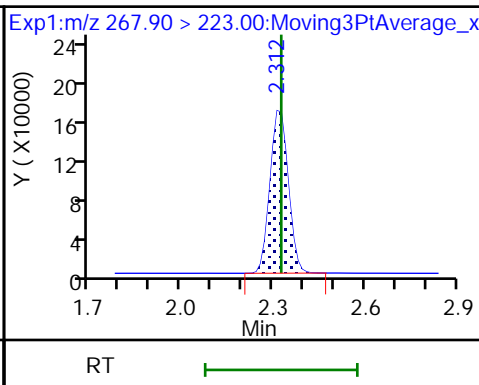
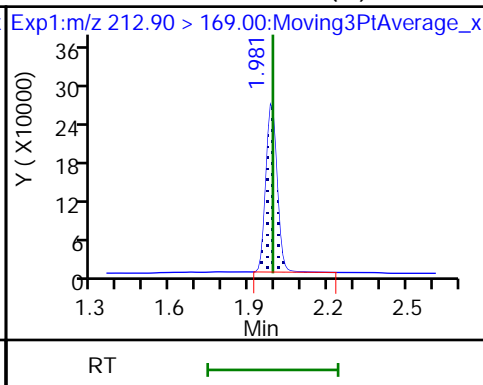
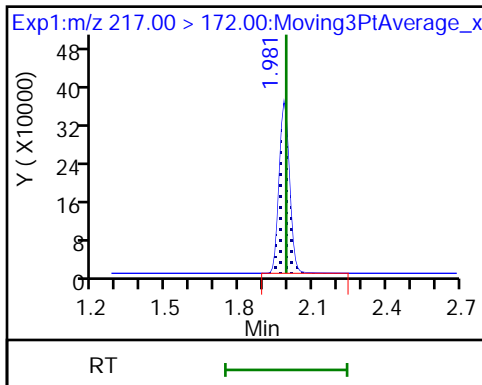
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

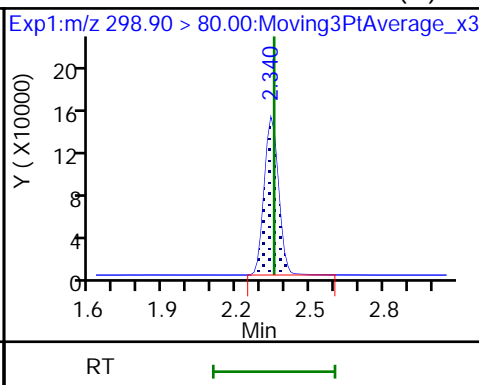
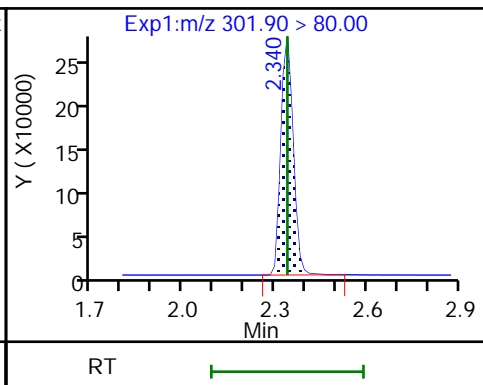
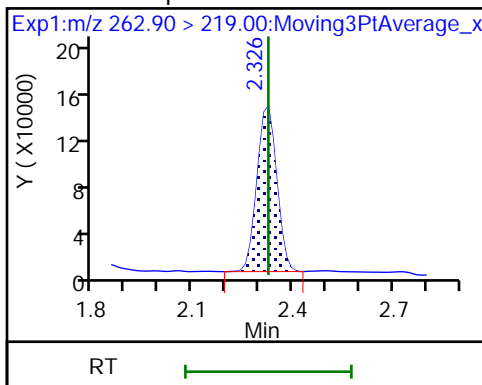
D 3 13C5 PFPeA



4 Perfluoropentanoic acid

D 47 13C3 PFBS

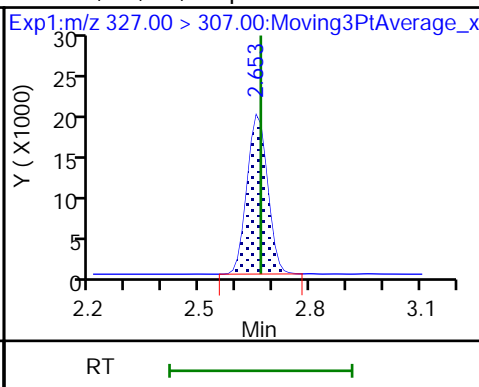
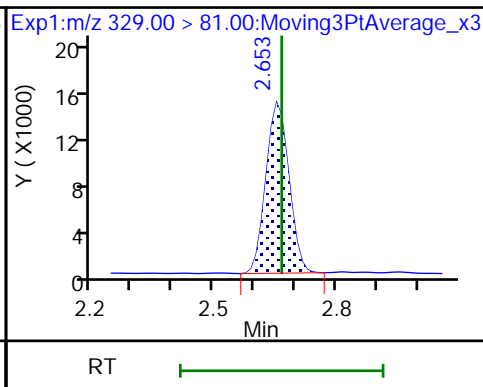
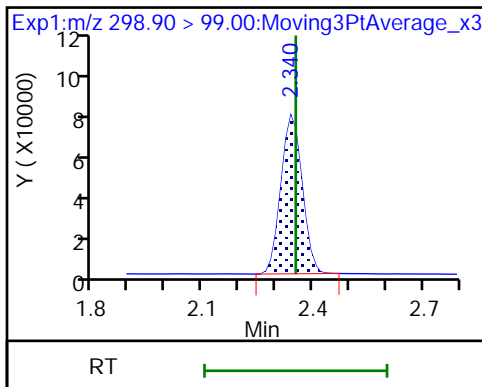
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid

D 60 M2-4:2 FTS

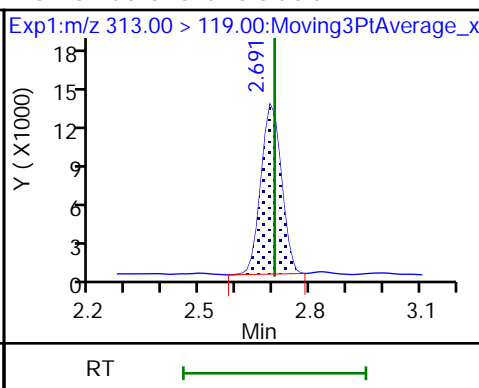
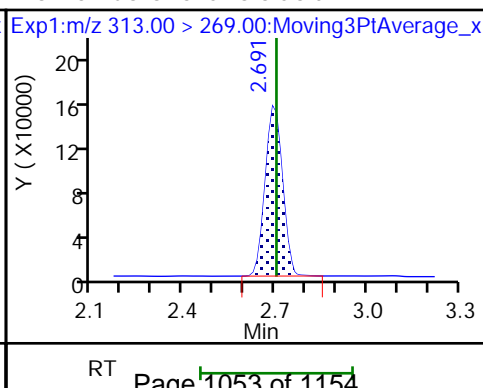
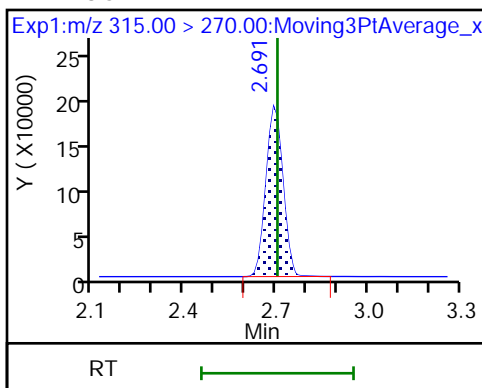
61 1H,1H,2H,2H-perfluorohexanesulfo

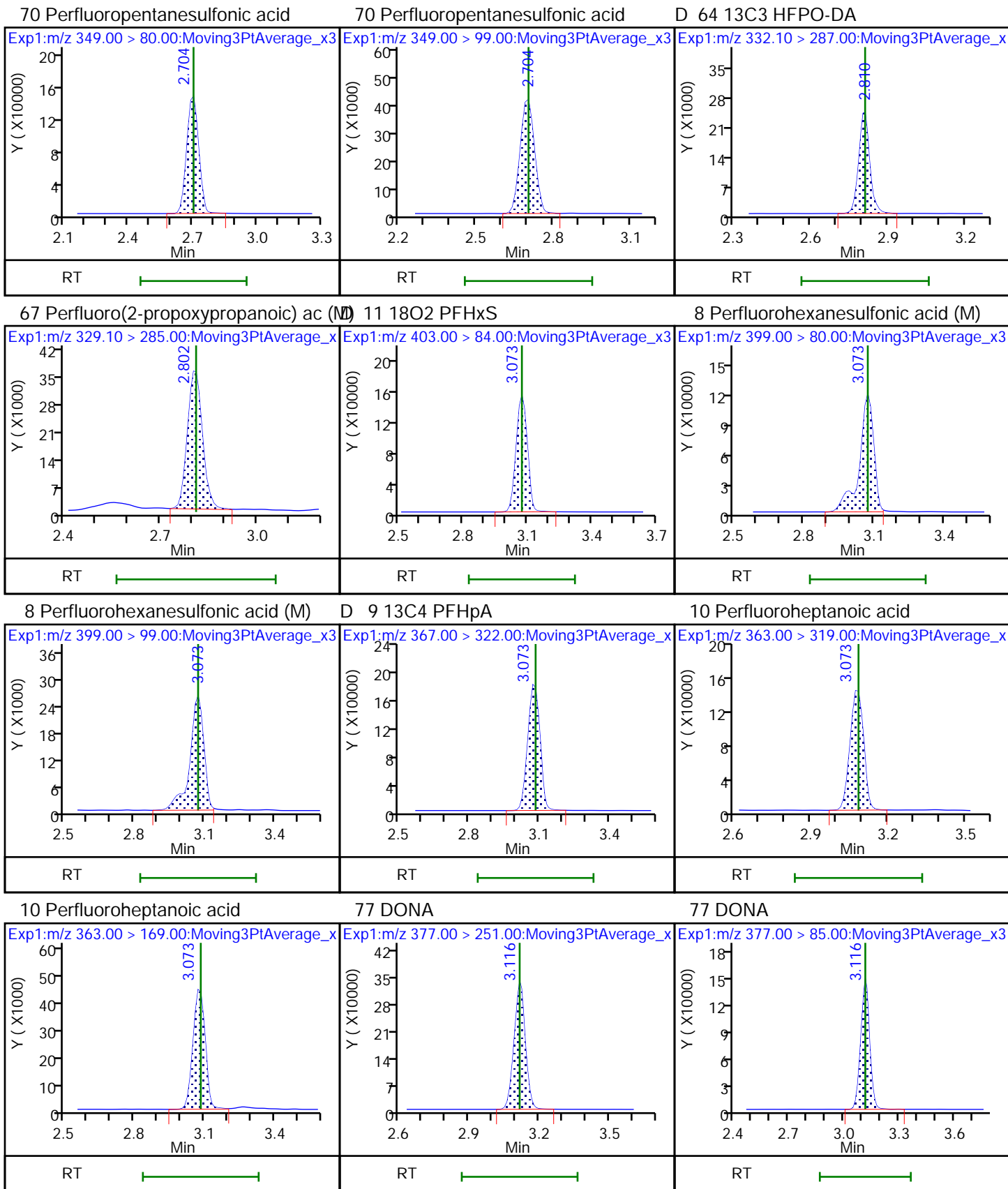


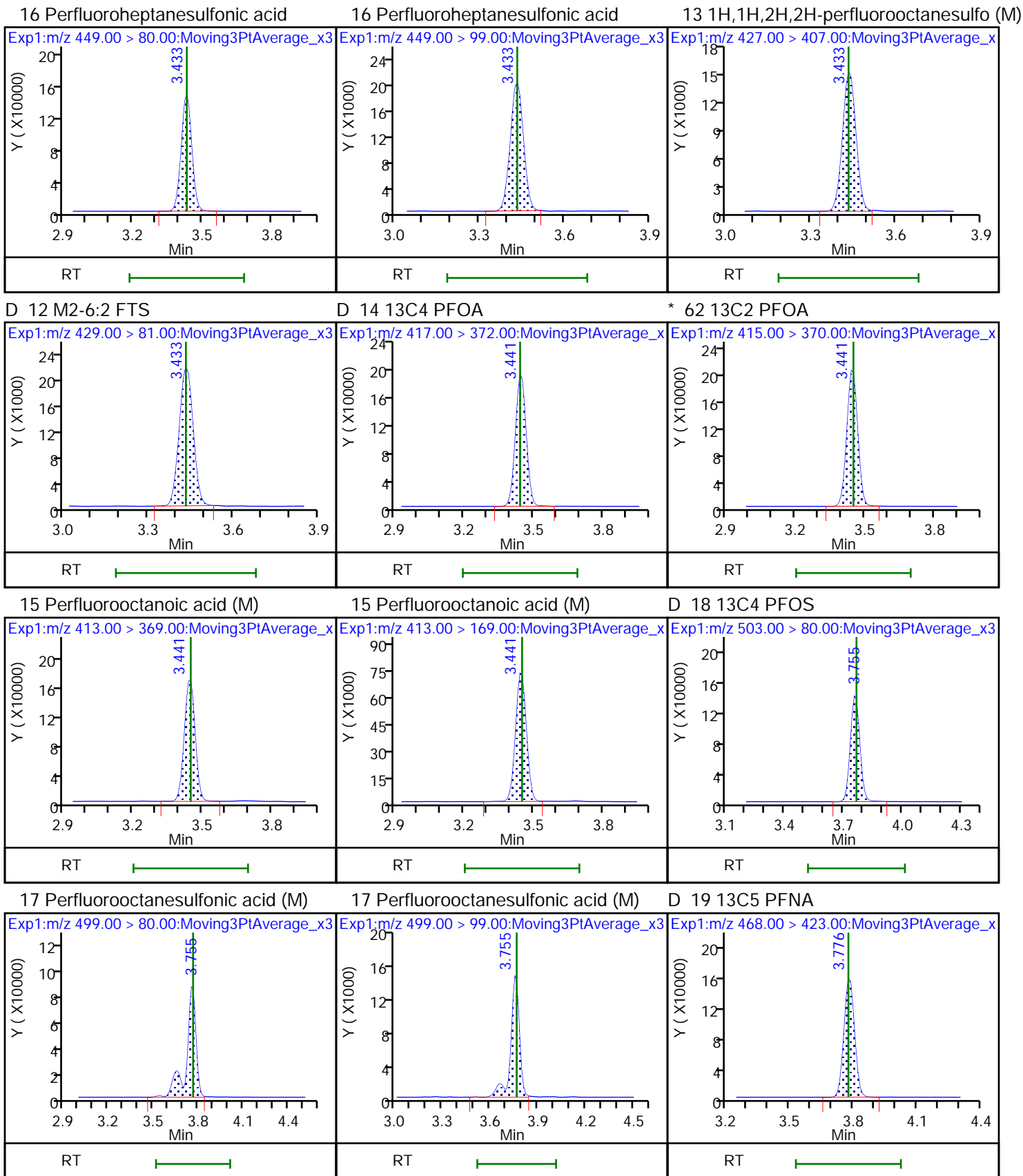
D 7 13C2 PFHxA

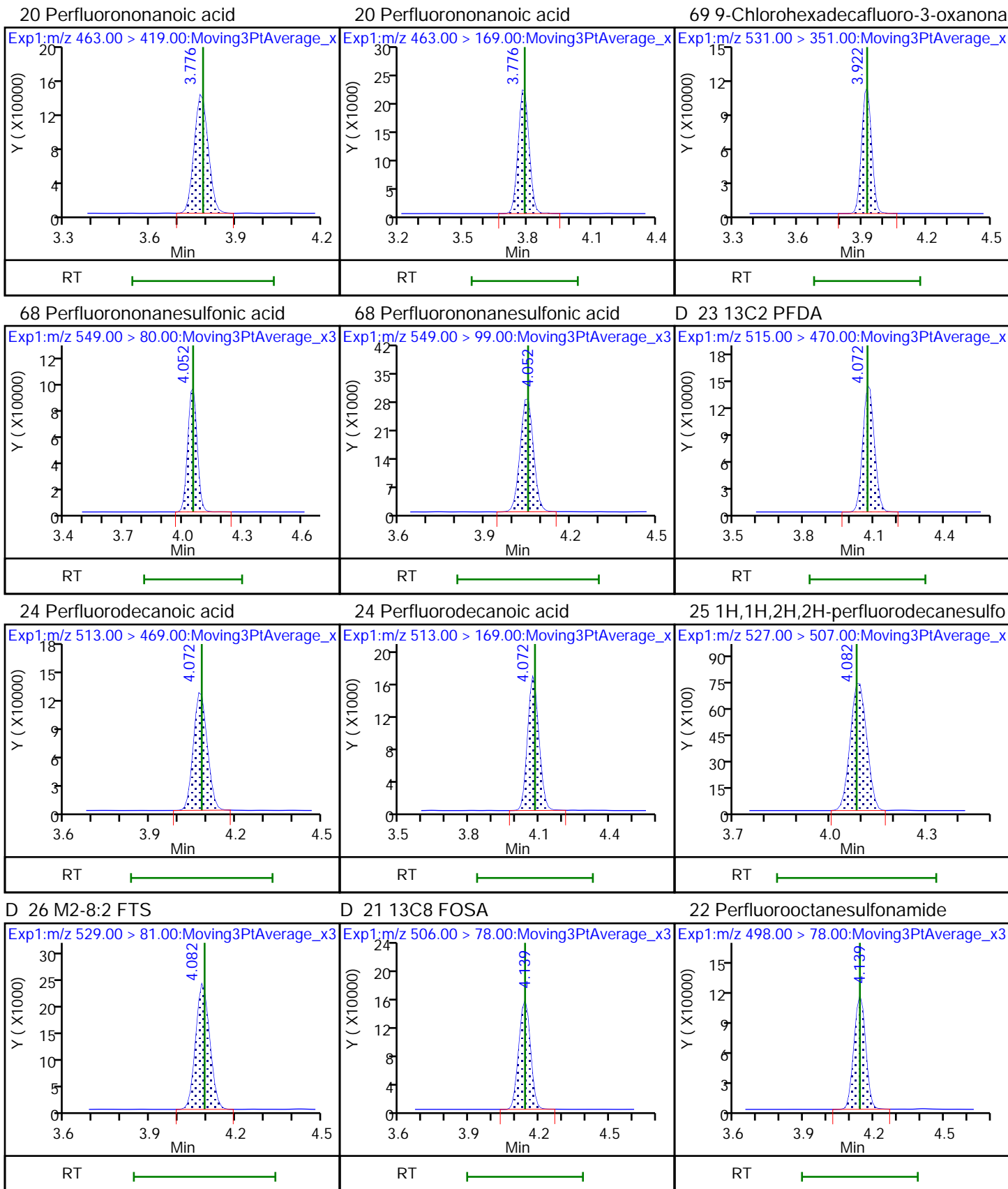
6 Perfluorohexanoic acid

6 Perfluorohexanoic acid



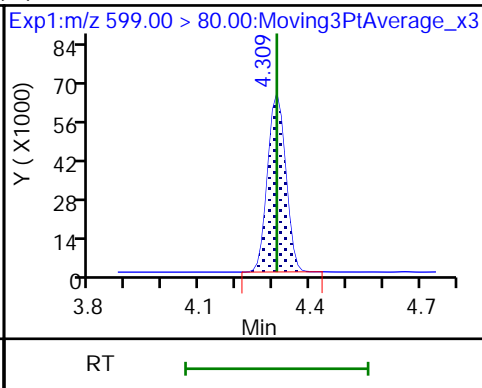
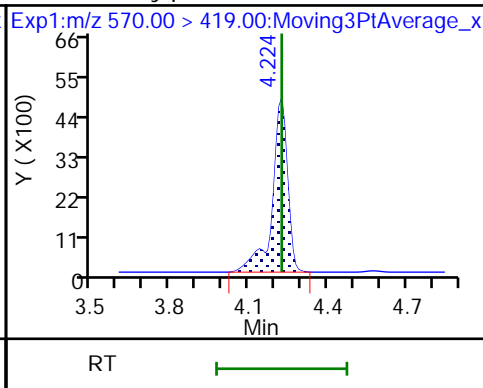
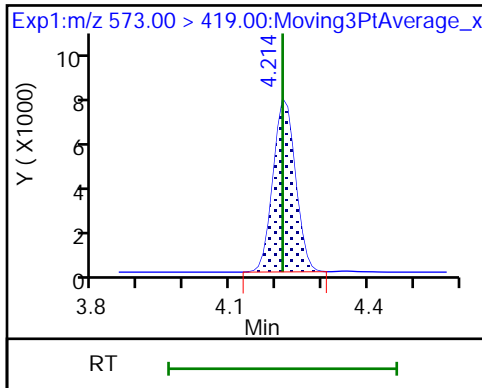






D 27 d3-NMeFOSAA

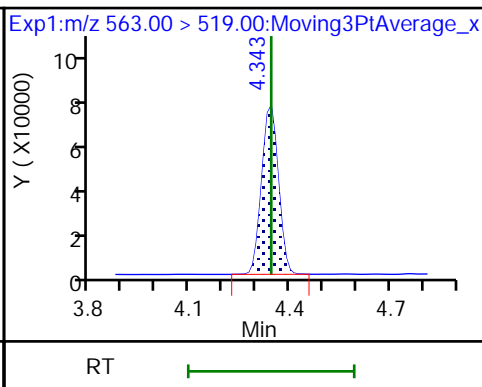
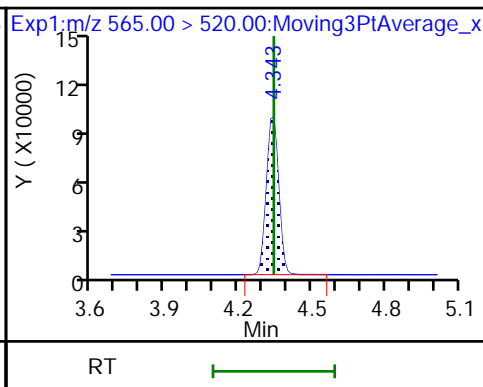
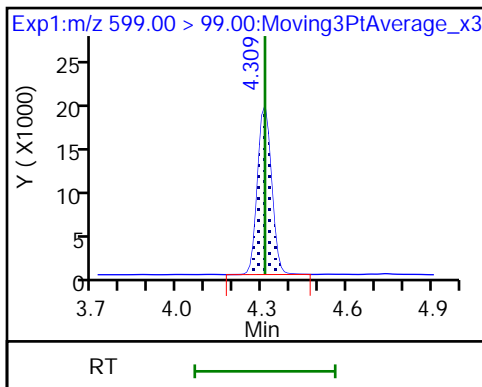
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

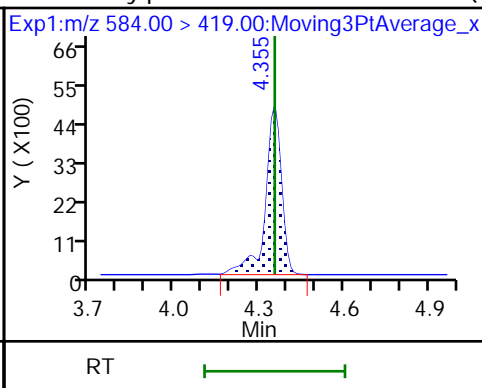
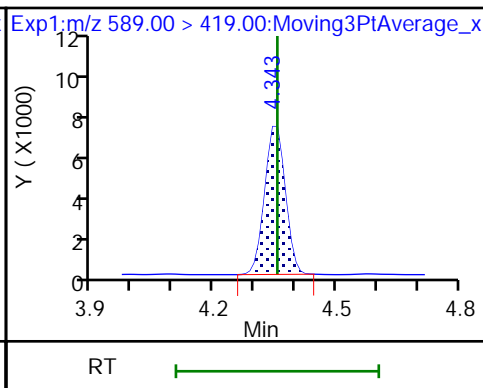
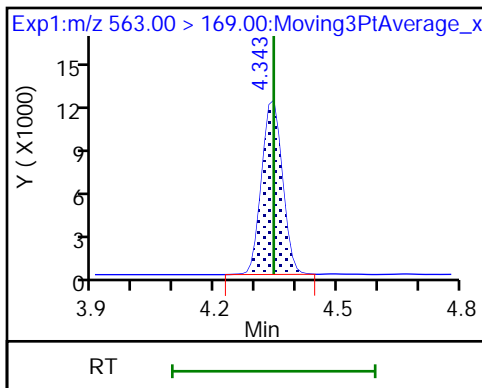
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

D 32 d5-NEtFOSAA

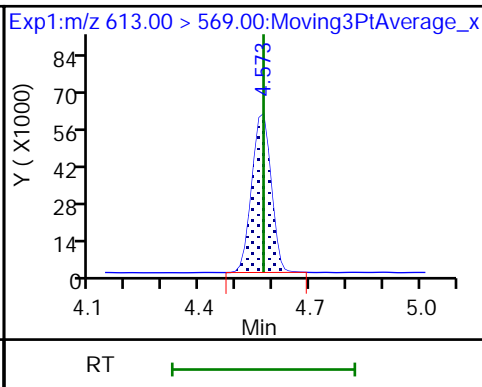
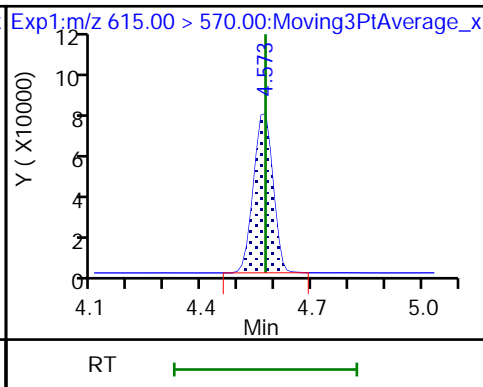
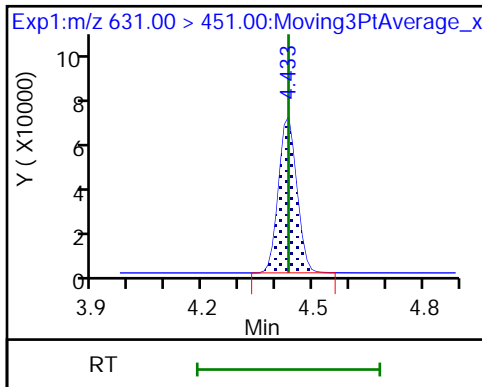
33 N-ethylperfluorooctanesulfonamid (M)

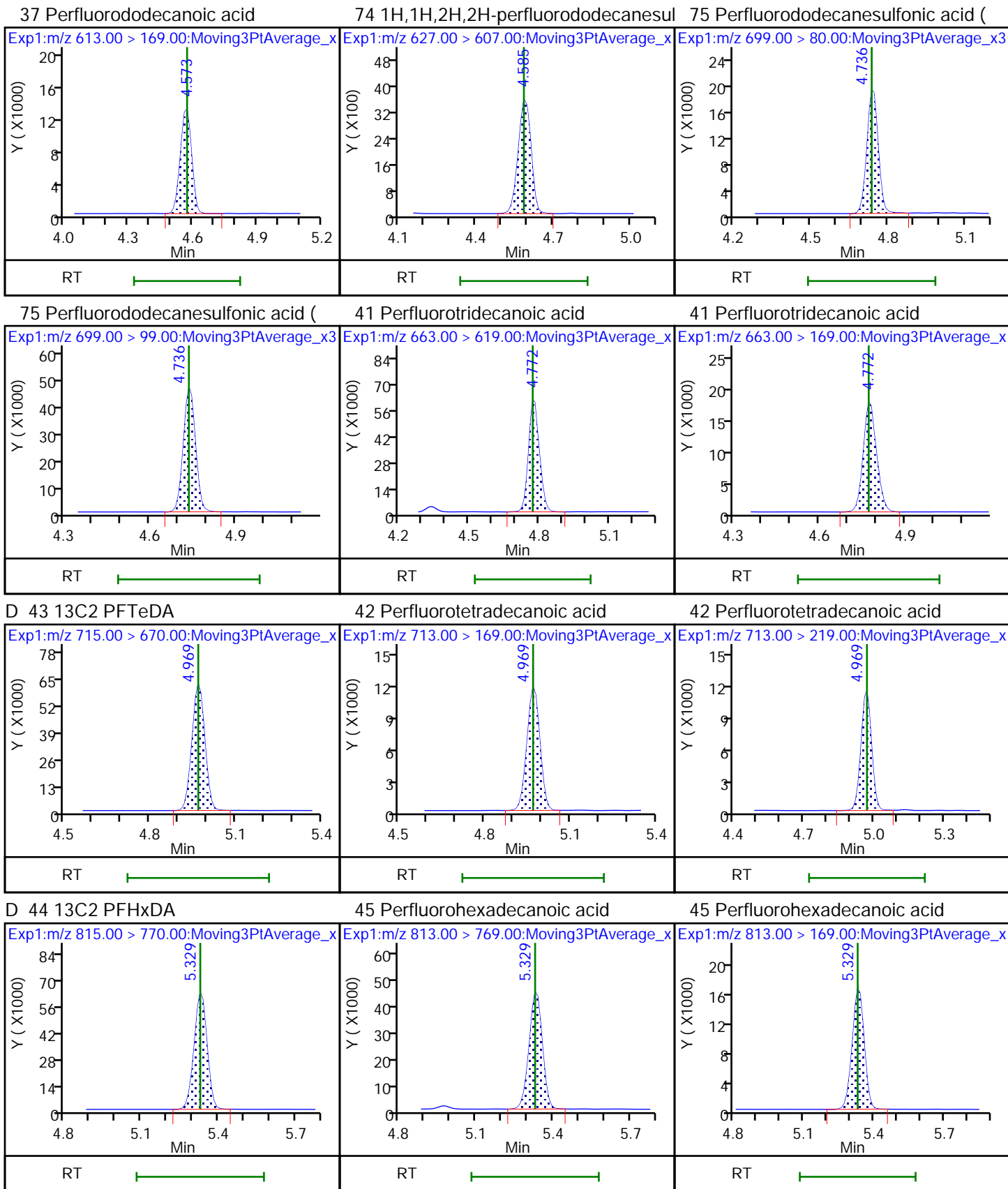


66 11-Chloroeicosafluoro-3-oxaundec

D 36 13C2 PFDoA

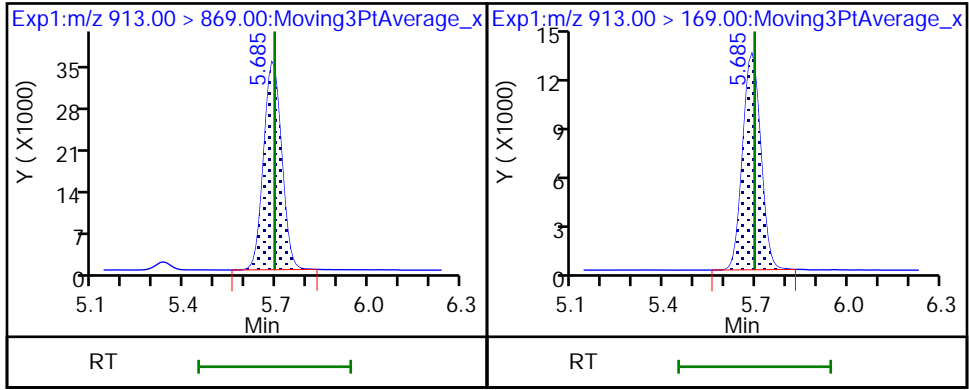
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid





Euofins TestAmerica, Burlington

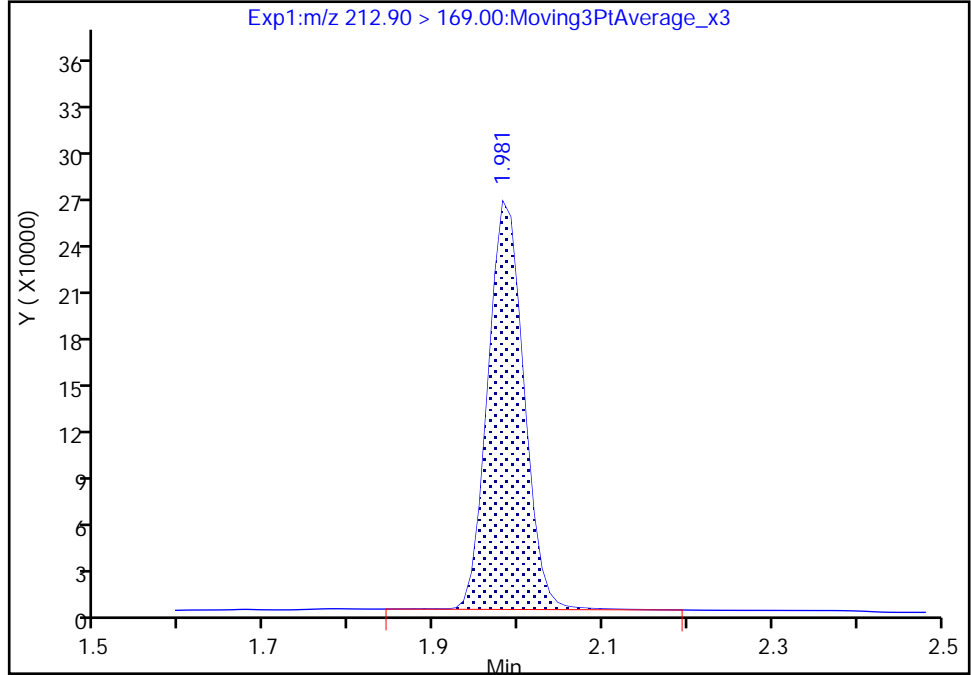
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

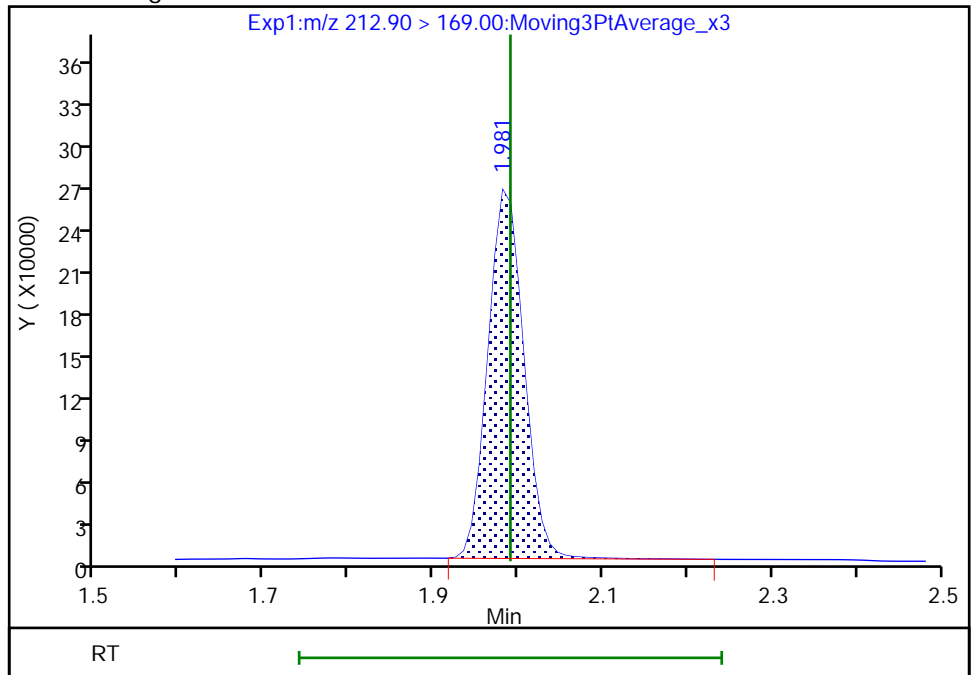
RT: 1.98  
Area: 781294  
Amount: 1.010681  
Amount Units: ng/ml

Processing Integration Results



RT: 1.98  
Area: 780158  
Amount: 1.009212  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:31:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

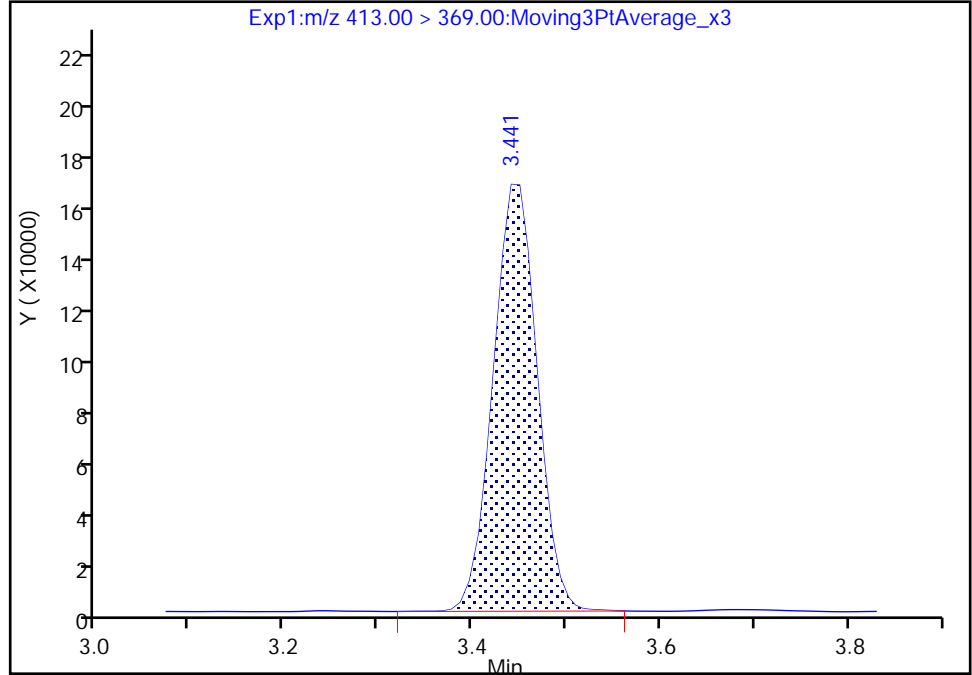
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

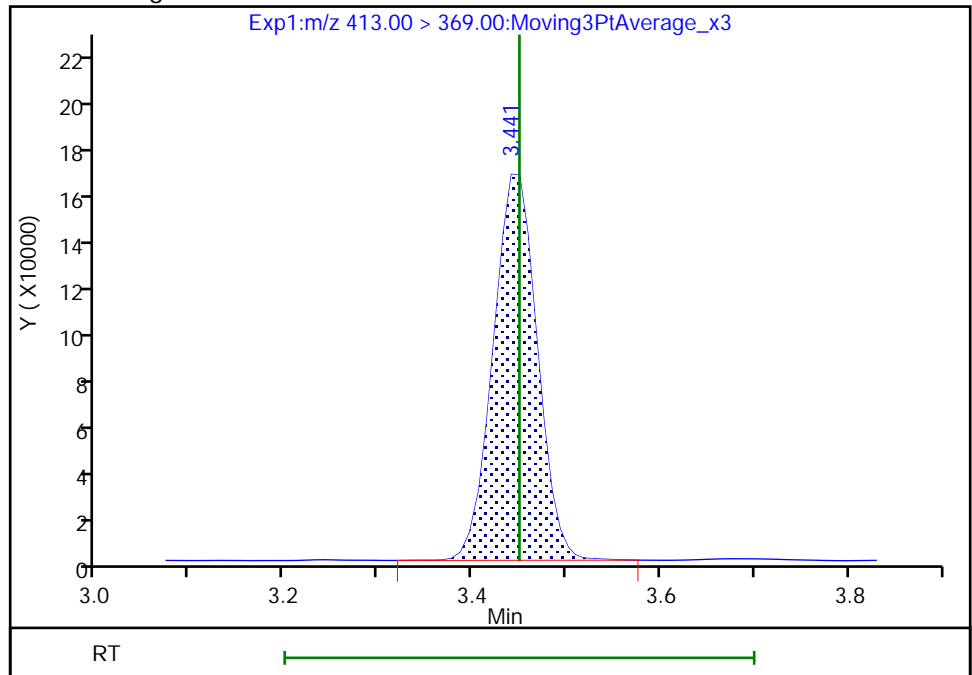
RT: 3.44  
Area: 538729  
Amount: 1.071083  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 539298  
Amount: 1.072215  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:33:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

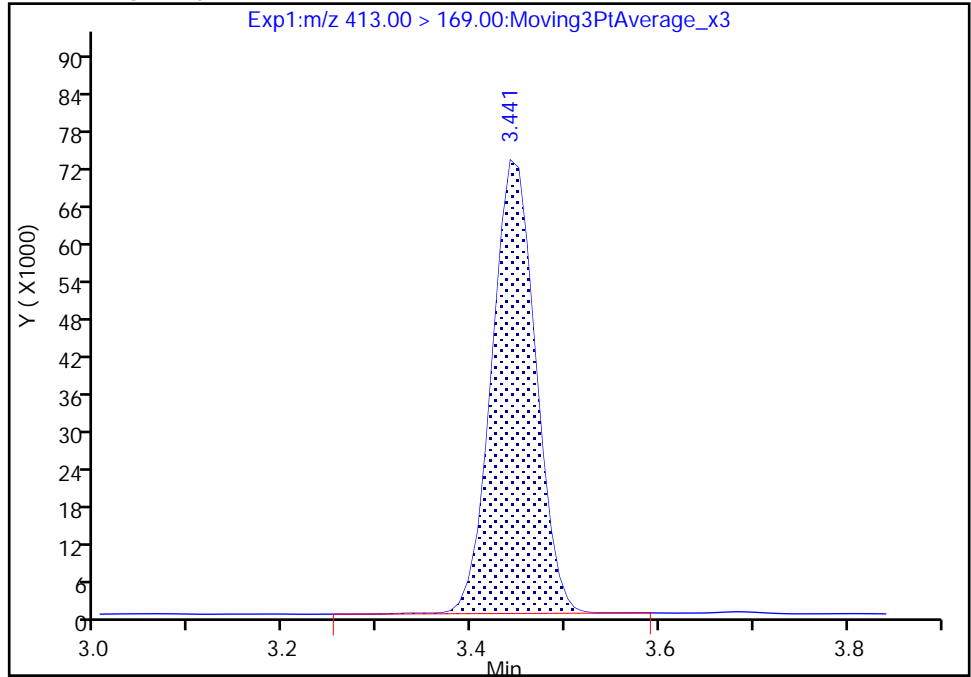
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

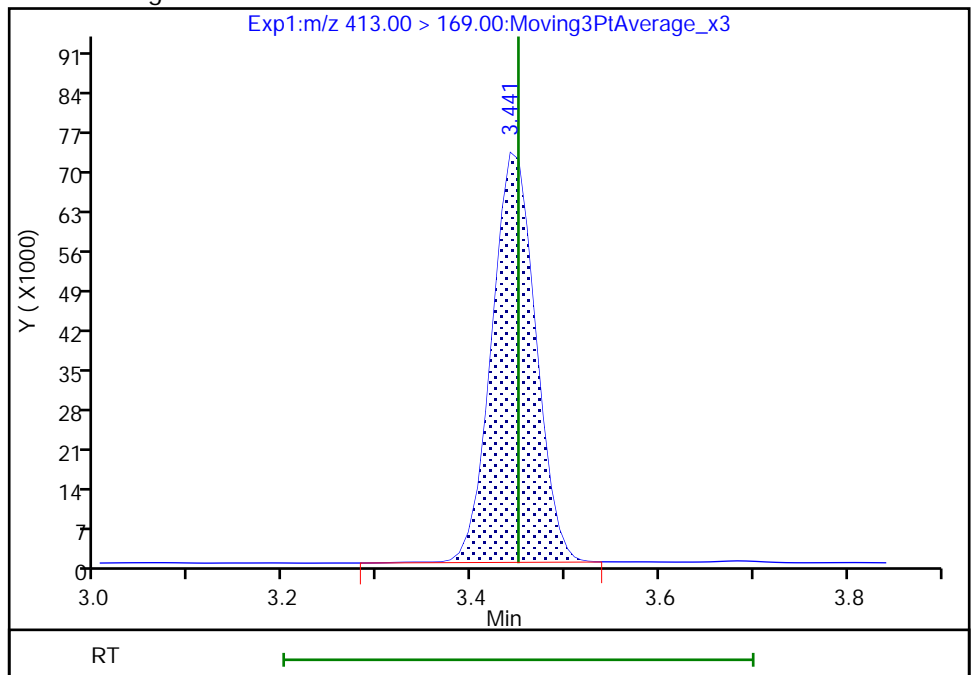
RT: 3.44  
Area: 235432  
Amount: 1.071083  
Amount Units: ng/ml

Processing Integration Results



RT: 3.44  
Area: 235220  
Amount: 1.072215  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:33:29

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

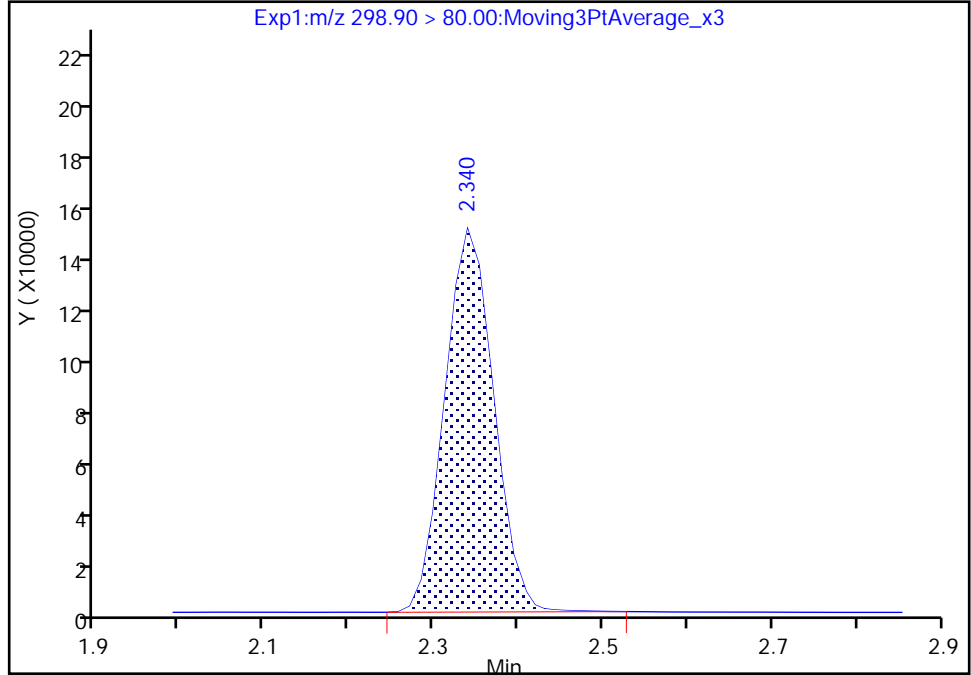
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

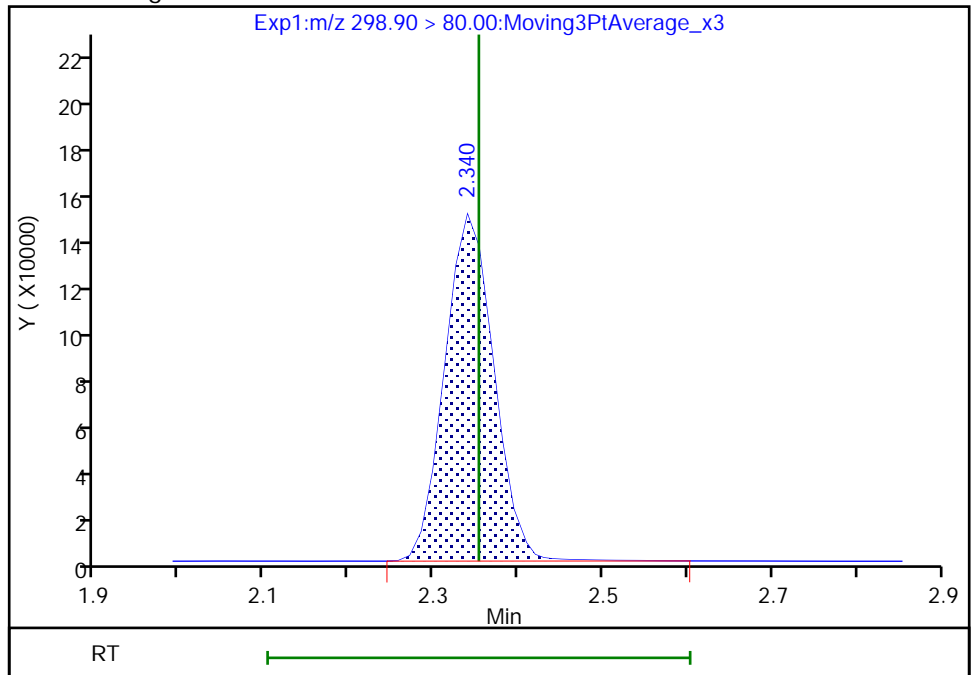
RT: 2.34  
Area: 602189  
Amount: 0.917604  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 604126  
Amount: 0.920556  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:31:45  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

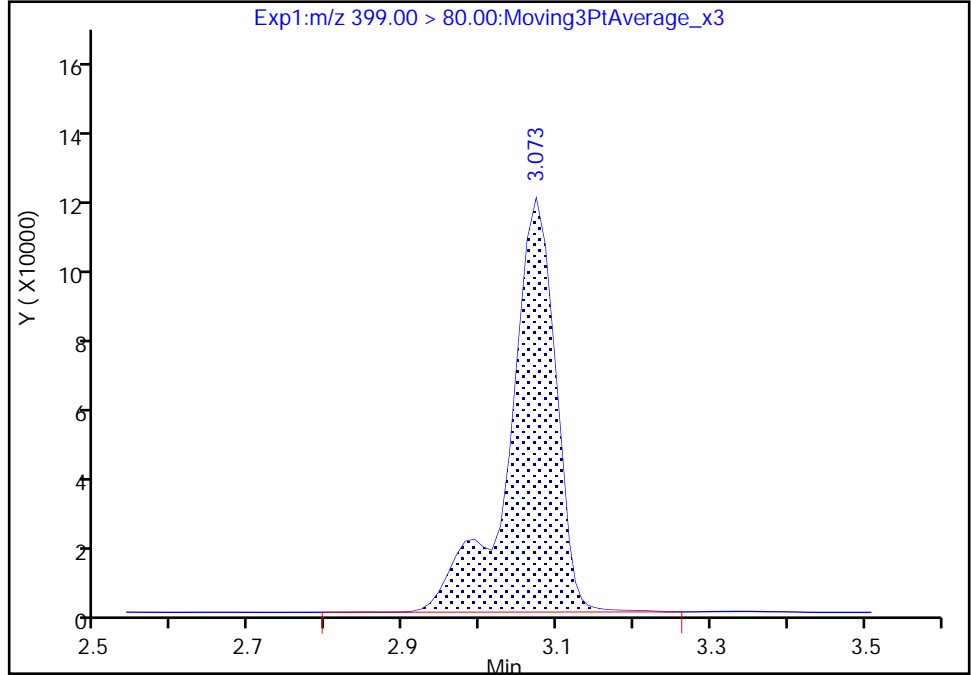
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

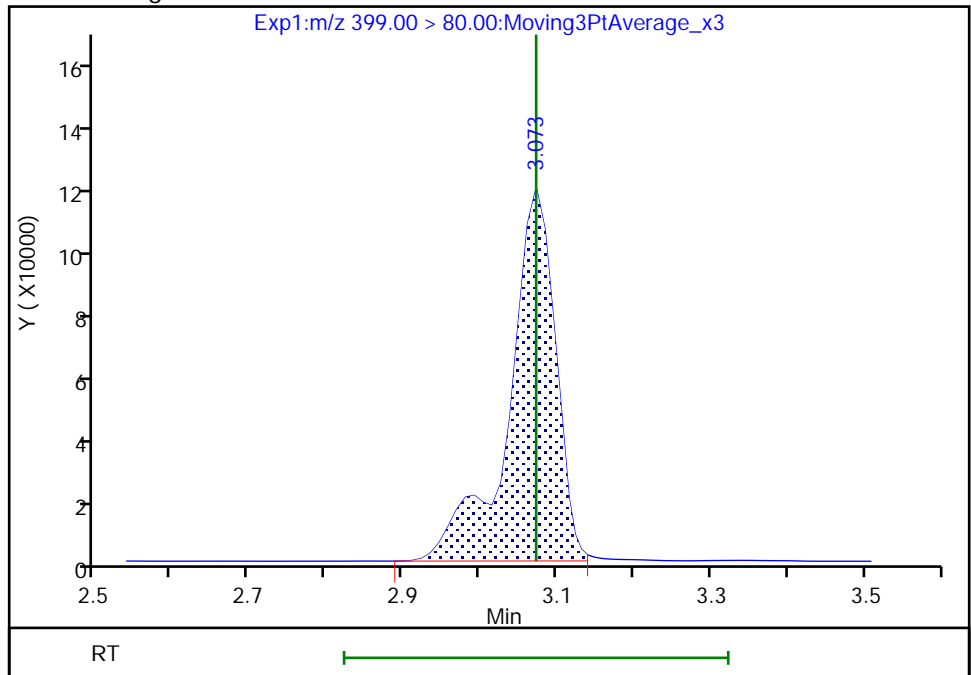
RT: 3.07  
Area: 495667  
Amount: 0.974286  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 492454  
Amount: 0.967971  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:32:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

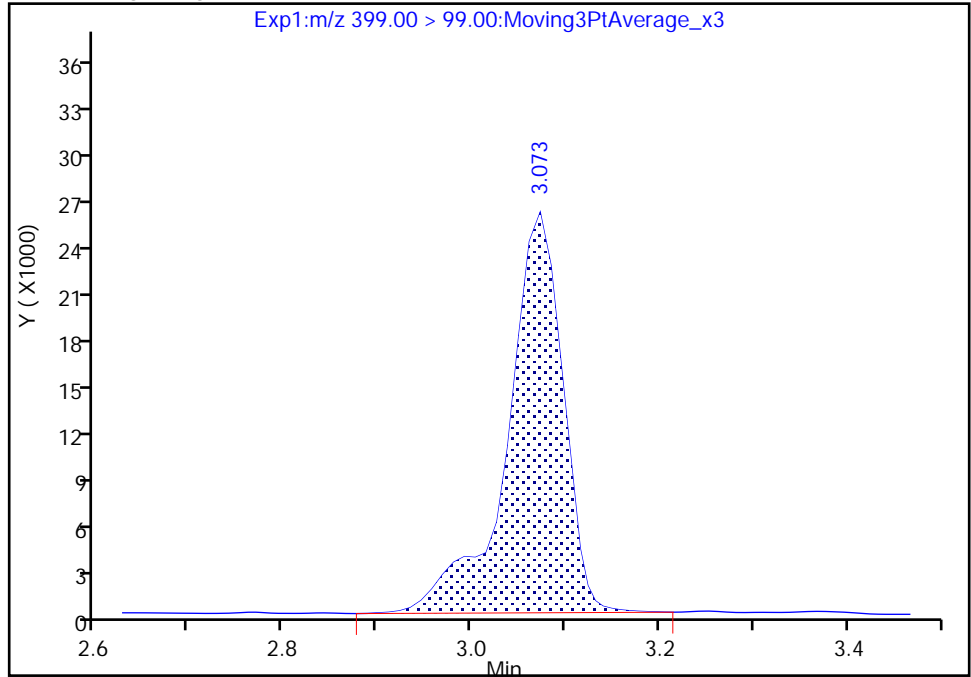
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

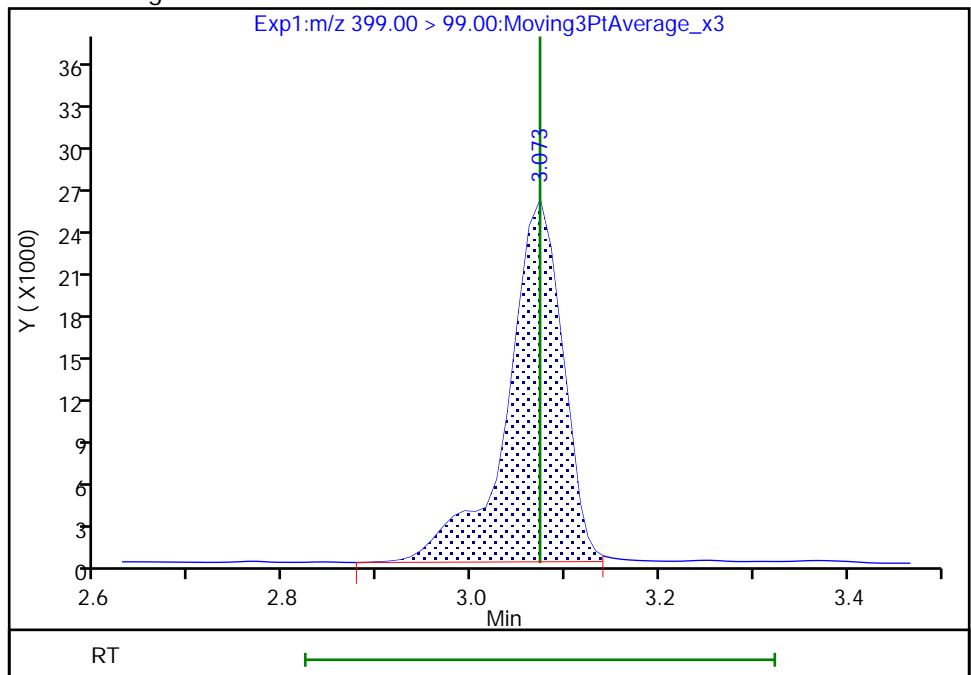
RT: 3.07  
Area: 105575  
Amount: 0.974286  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 105103  
Amount: 0.967971  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:32:49

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

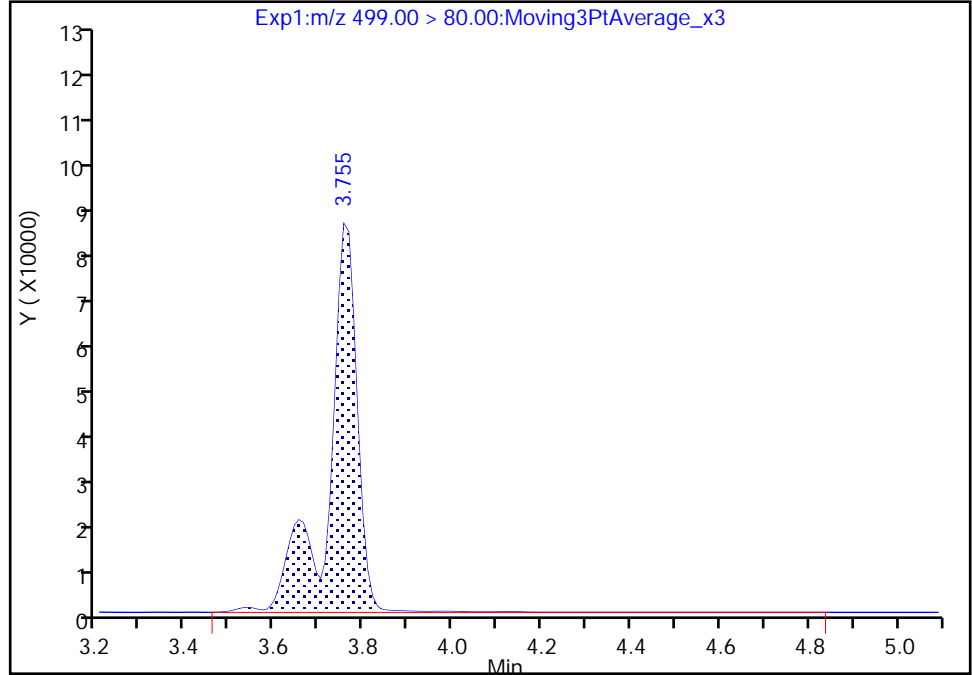
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

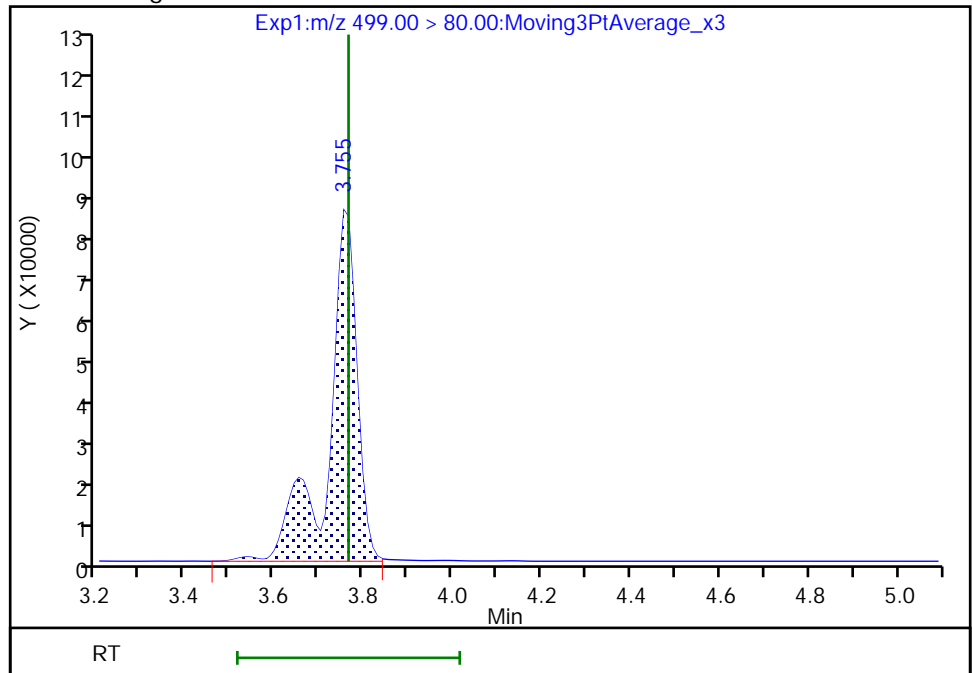
RT: 3.76  
Area: 380231  
Amount: 0.893505  
Amount Units: ng/ml

Processing Integration Results



RT: 3.76  
Area: 376945  
Amount: 0.885783  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:34:02  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

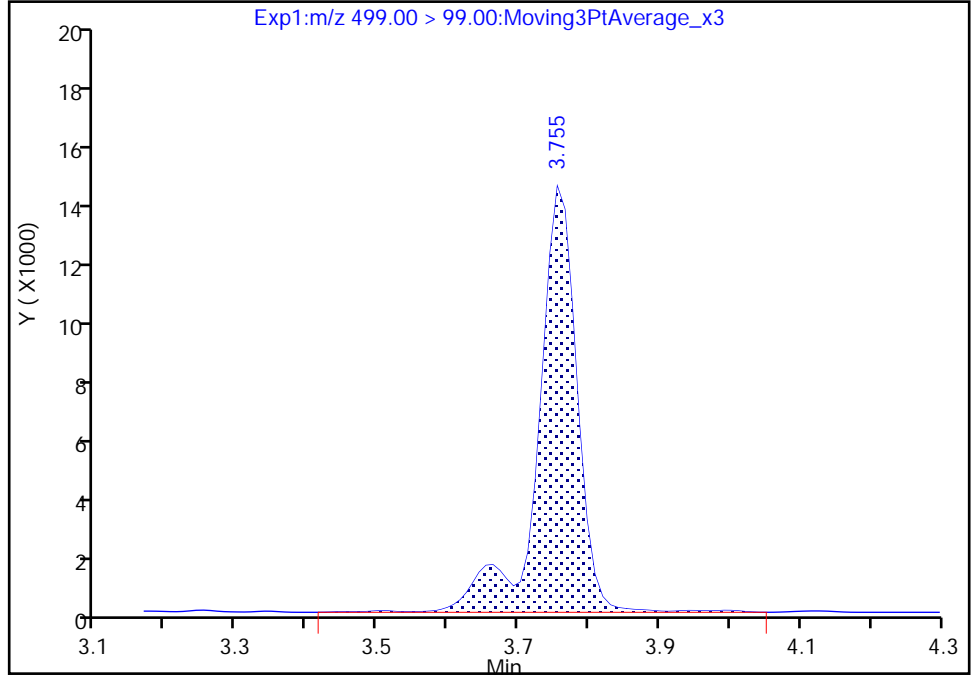
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

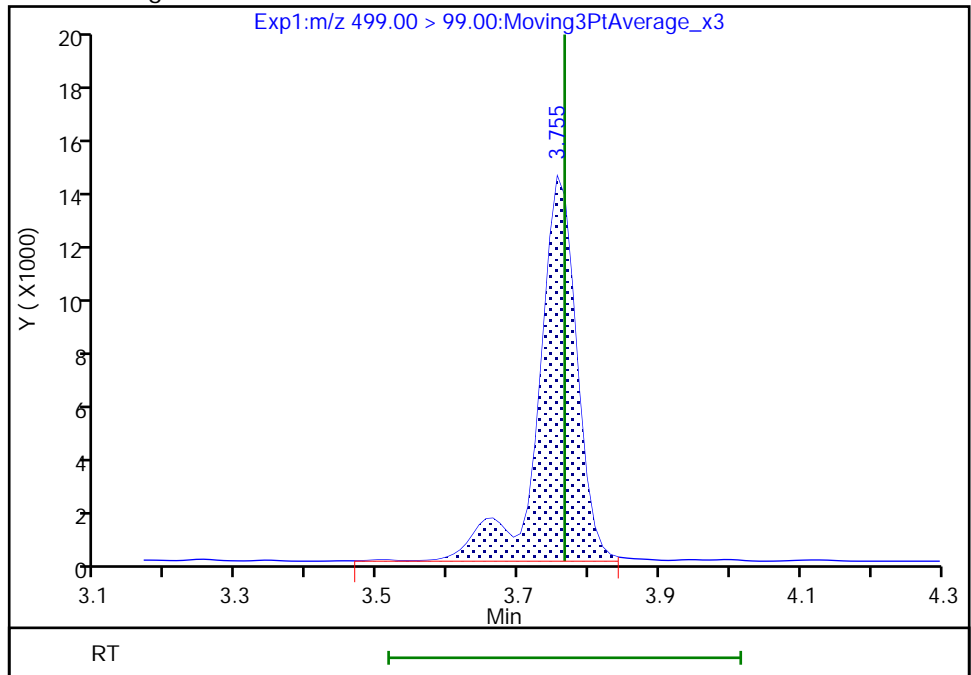
RT: 3.76  
Area: 55139  
Amount: 0.893505  
Amount Units: ng/ml

Processing Integration Results



RT: 3.76  
Area: 54465  
Amount: 0.885783  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:34:04

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

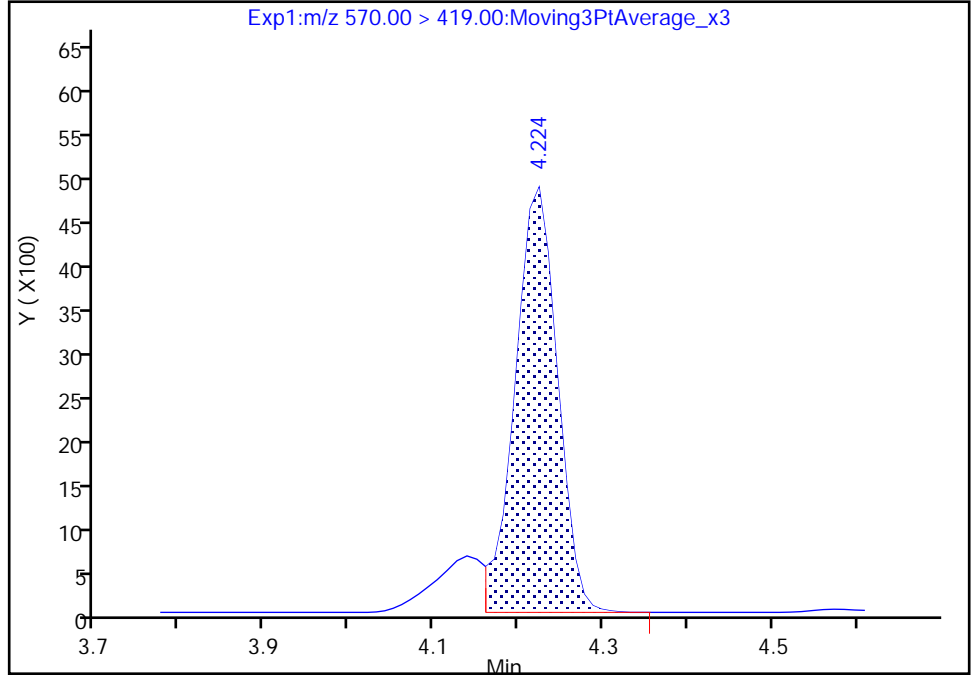
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

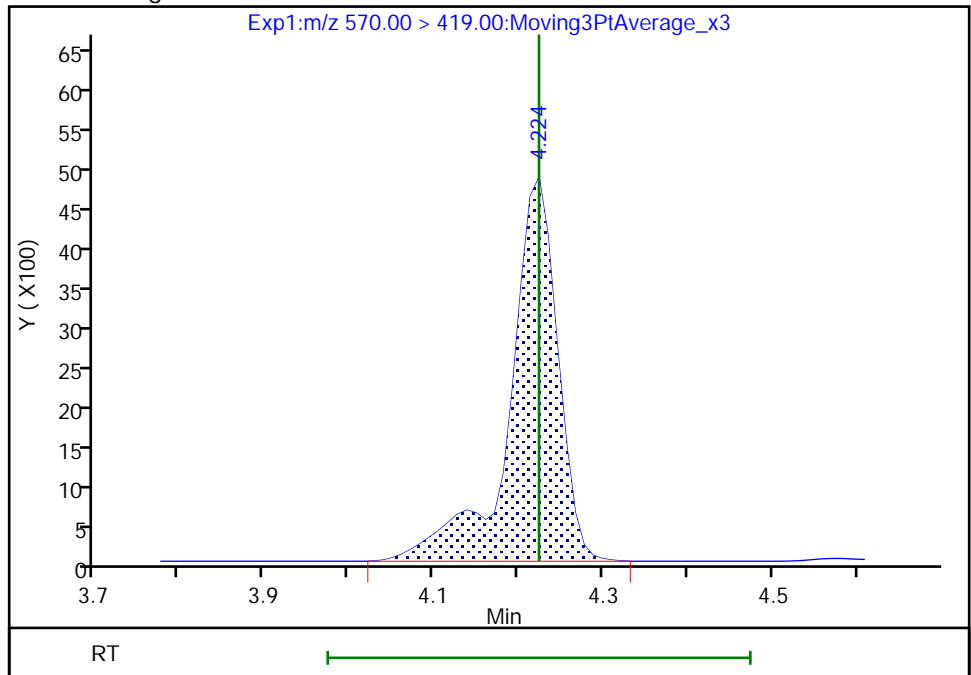
RT: 4.22  
Area: 16820  
Amount: 0.891549  
Amount Units: ng/ml

Processing Integration Results



RT: 4.22  
Area: 19358  
Amount: 1.026076  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:34:32  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

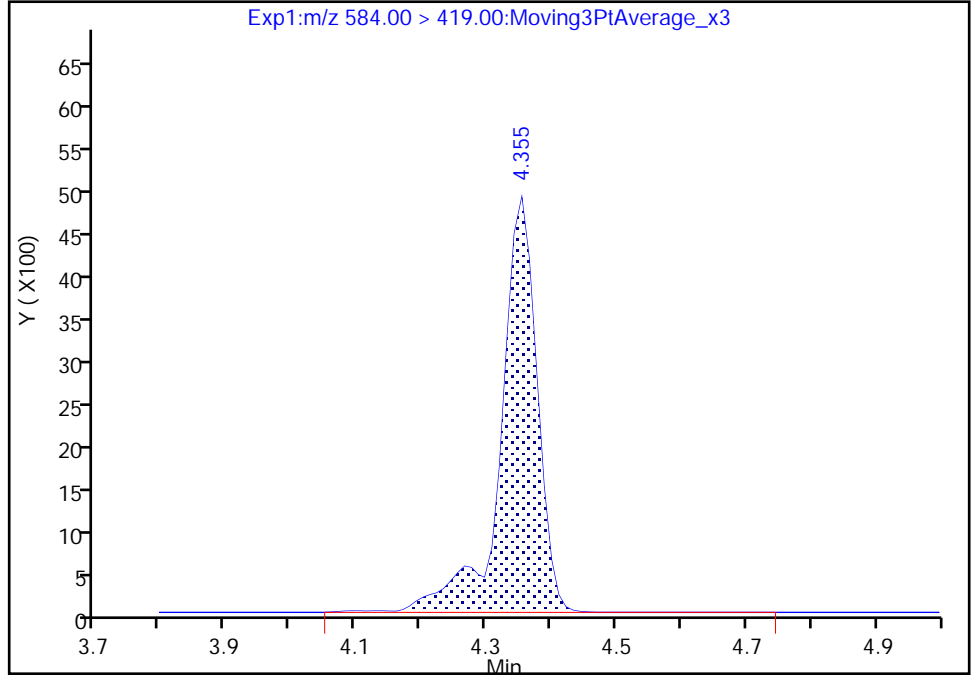
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

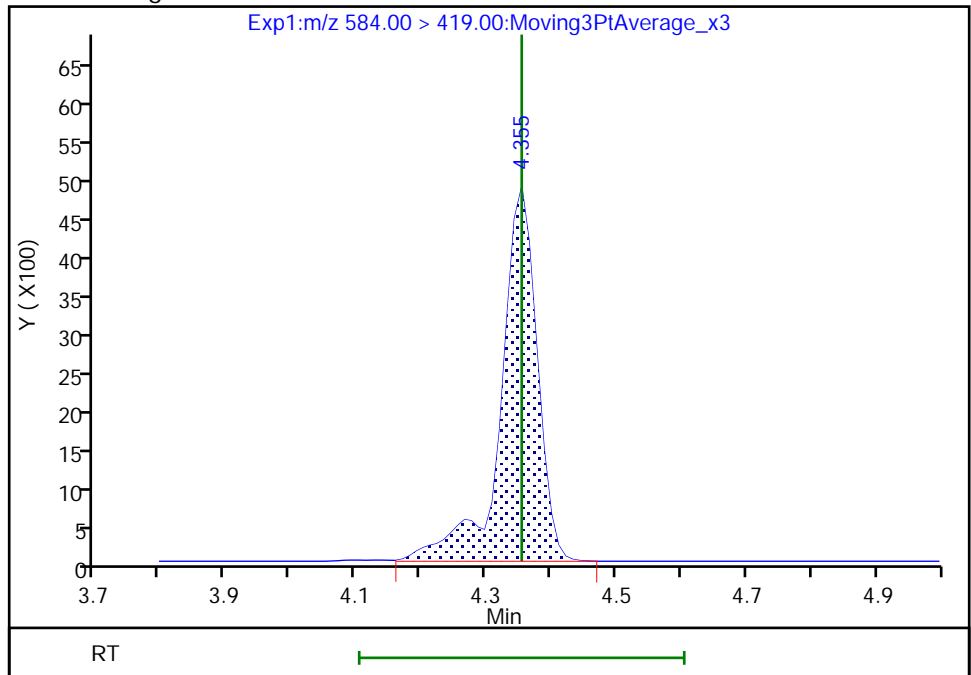
RT: 4.35  
Area: 19193  
Amount: 1.028704  
Amount Units: ng/ml

Processing Integration Results



RT: 4.35  
Area: 19116  
Amount: 1.024577  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:36:24  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

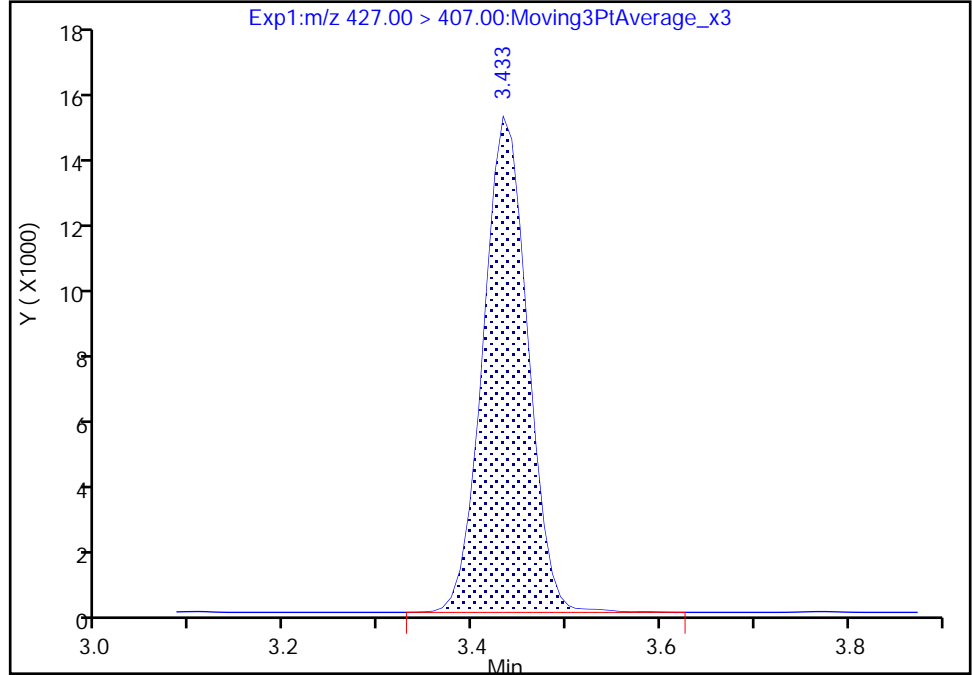
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B03.d  
Injection Date: 30-Sep-2020 18:30:58 Instrument ID: LC812  
Lims ID: LCS 200-159386/2-A  
Client ID:  
Operator ID: lc812tech ALS Bottle#: 3 Worklist Smp#: 3  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

13 1H,1H,2H,2H-perfluorooctanesulfo, CAS: 27619-97-2

Signal: 1

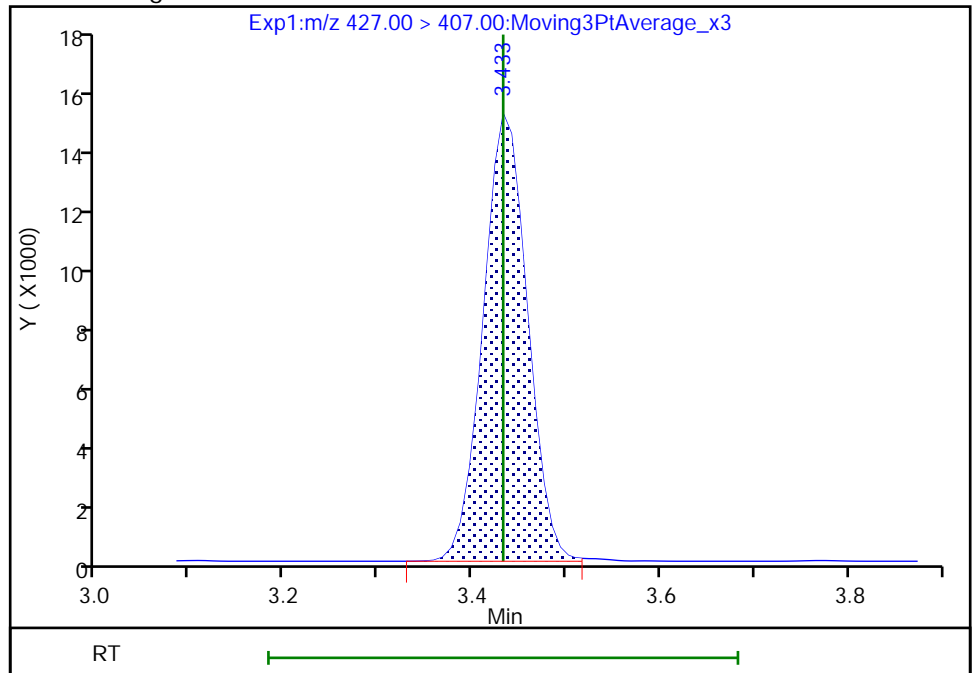
RT: 3.43  
Area: 49605  
Amount: 1.020705  
Amount Units: ng/ml

Processing Integration Results



RT: 3.43  
Area: 49409  
Amount: 1.016672  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 12:33:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B MS Lab Sample ID: 480-175657-6 MS  
 Matrix: Water Lab File ID: PA200930B23.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 09:56  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 310.9(mL) Date Analyzed: 09/30/2020 21:16  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	46.2		4.0	0.91
2706-90-3	Perfluoropentanoic acid (PFPeA)	46.0		1.6	0.87
307-24-4	Perfluorohexanoic acid (PFHxA)	45.2		1.6	0.67
375-85-9	Perfluoroheptanoic acid (PFHpA)	43.9		1.6	0.37
335-67-1	Perfluorooctanoic acid (PFOA)	72.9		1.6	0.79
375-95-1	Perfluorononanoic acid (PFNA)	36.1		1.6	0.47
335-76-2	Perfluorodecanoic acid (PFDA)	28.8		1.6	0.37
2058-94-8	Perfluoroundecanoic acid (PFUnA)	33.7		1.6	0.59
307-55-1	Perfluorododecanoic acid (PFDoA)	31.2		1.6	0.37
72629-94-8	Perfluorotridecanoic acid (PFTriA)	30.5		1.6	0.35
376-06-7	Perfluorotetradecanoic acid (PFTeA)	33.6		1.6	0.47
375-73-5	Perfluorobutanesulfonic acid (PFBS)	46.0		1.6	0.51
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	31.9		1.6	0.54
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	33.3		1.6	0.31
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	59.1		1.6	0.70
335-77-3	Perfluorodecanesulfonic acid (PFDS)	31.2		1.6	0.39
754-91-6	Perfluorooctanesulfonamide (PFOSA)	32.1		1.6	0.46
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	36.3		4.0	0.64
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	27.8		4.0	0.75
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	33.6		4.0	0.58
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	32.9		1.6	0.53

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B MS Lab Sample ID: 480-175657-6 MS  
 Matrix: Water Lab File ID: PA200930B23.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 09:56  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 310.9(mL) Date Analyzed: 09/30/2020 21:16  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	94		50-150
STL01892	13C4 PFHpA	97		50-150
STL00990	13C4 PFOA	99		50-150
STL00991	13C4 PFOS	89		50-150
STL00995	13C5 PFNA	92		50-150
STL00992	13C4 PFBA	83		25-150
STL00993	13C2 PFHxA	98		50-150
STL00996	13C2 PFDA	93		50-150
STL00997	13C2 PFUnA	85		50-150
STL00998	13C2 PFDoA	84		50-150
STL01056	13C8 FOSA	59		25-150
STL01893	13C5 PFPeA	93		25-150
STL02116	13C2 PFTeDA	67		50-150
STL02118	d3-NMeFOSAA	66		50-150
STL02117	d5-NEtFOSAA	86		50-150
STL02279	M2-6:2 FTS	106		25-150
STL02280	M2-8:2 FTS	80		25-150
STL02337	13C3 PFBS	94		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
 Lims ID: 480-175657-C-6-B MS  
 Client ID: MW-5B  
 Sample Type: MS  
 Inject. Date: 30-Sep-2020 21:16:48 ALS Bottle#: 23 Worklist Smp#: 23  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-6-B MS  
 Misc. Info.: 200-0043035-023 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 15:32:07  
 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	1.990	-0.009	0.574	804191	1.03	82.6	11343	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.981	1.990	-0.009	1.000	864487	1.44		144	234	M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	645686	1.16	92.6	1540	
4 Perfluoropentanoic acid										M
262.90 > 219.00	2.326	2.326	0.0	1.000	779722	1.43		143	30.8	M
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	745055	1.10	94.3	40128	
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.339	2.353	-0.014	1.000	913295	1.43	Target=2.07	162	88.5	M
298.90 > 99.00	2.339	2.353	-0.014	1.000	448040		2.04(1.04-3.11)		160	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.653	2.665	-0.012	0.769	58237	1.14	97.7	11.7	M
61 1H,1H,2H,2H-perfluorohexanesulfo										M
327.00 > 307.00	2.653	2.665	-0.012	1.000	78375	0.9722		104	1420	M
D 7 13C2 PFHxA	315.00 > 270.00	2.691	2.703	-0.012	0.780	700552	1.22	97.5	4050	
6 Perfluorohexanoic acid										M
313.00 > 269.00	2.703	2.703	0.0	1.005	792675	1.40	Target=12.44	140	80.7	M
313.00 > 119.00	2.691	2.703	-0.012	1.000	65553		12.09(6.22-18.66)		74.4	M
70 Perfluoropentanesulfonic acid										M
349.00 > 80.00	2.703	2.703	0.0	0.880	562235	1.04	Target=3.64	111	171	M
349.00 > 99.00	2.703	2.703	0.0	0.880	162537		3.46(1.82-5.46)		158	M
D 64 13C3 HFPO-DA	332.10 > 287.00	2.810	2.810	0.0	0.815	71077	1.33	106	659	

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	113164	0.9353		93.5	30.0	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	539908	1.11		93.6	2526	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	499497	0.99	Target=4.60	109	202	M
399.00 > 99.00	3.073	3.073	0.0	1.000	109321		4.57(2.30-6.91)		144	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.084	0.0	0.894	635812	1.22		97.3	3099	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	696436	1.37	Target=3.34	137	114	M
363.00 > 169.00	3.084	3.084	0.0	1.000	207485		3.36(1.67-5.01)		326	M
77 DONA										
377.00 > 251.00	3.115	3.115	0.0	0.830	1064494	0.9743	Target=2.44	103	1676	
377.00 > 85.00	3.115	3.115	0.0	0.830	452615		2.35(1.22-3.67)		789	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.432	3.433	0.0	0.914	425576	1.04	Target=7.08	109	544	M
449.00 > 99.00	3.432	3.433	0.0	0.914	60271		7.06(3.54-10.63)		411	M
13 1H,1H,2H,2H-perfluorooctanesulfo										M
427.00 > 407.00	3.432	3.433	0.0	1.000	57524	1.04		110	689	M
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.433	0.0	0.995	81981	1.26		106	152	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	663291	1.24		99.2	3570	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		679208	1.25			3432	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	1240958	2.27	Target=2.29	227	352	M
413.00 > 169.00	3.450	3.450	0.0	1.000	531123		2.34(1.14-3.43)		1146	M
D 18 13C4 PFOS										
503.00 > 80.00	3.754	3.765	-0.011	1.088	423756	1.06		88.9	820	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.754	3.765	-0.011	1.000	707848	1.84	Target=7.10	198	654	M
499.00 > 99.00	3.754	3.765	-0.011	1.000	88591		7.99(3.55-10.64)		862	M
D 19 13C5 PFNA										
468.00 > 423.00	3.775	3.776	-0.001	1.094	519517	1.15		92.2	5555	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.775	3.786	-0.011	1.000	475493	1.12	Target=5.83	112	178	M
463.00 > 169.00	3.775	3.786	-0.011	1.000	79958		5.95(2.91-8.74)		722	M
69 9-Chlorohexadecafluoro-3-oxanona										
531.00 > 351.00	3.911	3.922	-0.011	1.042	311501	0.9185		98.6	2578	
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.041	4.052	-0.012	1.076	286933	0.9422	Target=3.38	98.1	1374	
549.00 > 99.00	4.041	4.052	-0.012	1.076	78165		3.67(1.69-5.08)		545	
D 23 13C2 PFDA										
515.00 > 470.00	4.071	4.072	-0.001	1.180	502977	1.16		93.1	4209	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.071	4.082	-0.011	1.000	356088	0.8944	Target=6.81	89.4	641	
513.00 > 169.00	4.071	4.082	-0.011	1.000	55620		6.40(3.41-10.22)		798	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.081	4.082	-0.001	1.000	24913	1.02		107	789	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.081	4.092	-0.011	1.183	73607	0.9590		80.1	563	
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.139	-0.001	1.200	514855	0.7391		59.1	2443	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.138	4.139	-0.001	1.000	383855	1.00		99.7	830	
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.214	4.214	0.0	1.222	20206	0.8210		65.7	192	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.214	4.224	-0.010	1.000	17211	1.13		113	159	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.309	0.001	1.148	247399	0.9709	Target=3.31	101	1037	
599.00 > 99.00	4.310	4.309	0.001	1.148	76010		3.25(1.66-4.97)		645	
D 30 13C2 PFUnA										
565.00 > 520.00	4.332	4.343	-0.011	1.256	347945	1.07		85.3	4030	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.332	4.343	-0.011	1.000	287576	1.05	Target=6.57	105	385	
563.00 > 169.00	4.332	4.343	-0.011	1.000	43696		6.58(3.28-9.85)		790	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.344	4.355	-0.011	1.259	28362	1.07		85.8	758	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.355	0.0	1.003	17973	0.8652		86.5	248	M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.433	4.433	0.0	1.181	273556	0.9351		99.3	1434	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.561	4.573	-0.012	1.322	363564	1.05		84.3	3714	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.003	274814	0.9689	Target=5.16	96.9	518	
613.00 > 169.00	4.573	4.573	0.0	1.003	56669		4.85(2.58-7.75)		1563	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.585	4.585	0.0	1.124	14865	1.10		114	469	M
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.736	4.736	0.0	1.262	67547	0.8261	Target=0.45	85.3	558	M
699.00 > 99.00	4.736	4.736	0.0	1.262	158313		0.43(0.22-0.67)		1975	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.772	4.772	0.0	1.046	228233	0.9475	Target=3.30	94.7	266	
663.00 > 169.00	4.772	4.772	0.0	1.046	67649		3.37(1.65-4.95)		1944	
D 43 13C2 PFTeDA										
715.00 > 670.00	4.969	4.969	0.0	1.440	206893	0.8421		67.4	4018	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.969	4.969	0.0	1.000	39616	1.04	Target=1.06	104	1534	M
713.00 > 219.00	4.969	4.969	0.0	1.000	38255		1.04(0.53-1.59)		1004	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	5.340	5.329	0.011	1.548	199763	0.7174		57.4	1999	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.340	5.329	0.011	1.000	148703	1.05	Target=3.06	105	158	
813.00 > 169.00	5.340	5.329	0.011	1.000	50638		2.94(1.53-4.58)		1568	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.703	5.694	0.009	1.068	103196	0.8640	Target=2.82	86.4	204	
913.00 > 169.00	5.694	5.694	0.0	1.066	37482		2.75(1.41-4.24)		536	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d

Injection Date: 30-Sep-2020 21:16:48

Instrument ID: LC812

Lims ID: 480-175657-C-6-B MS

Client ID: MW-5B

Operator ID: lc812tech

ALS Bottle#: 23

Worklist Smp#: 23

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

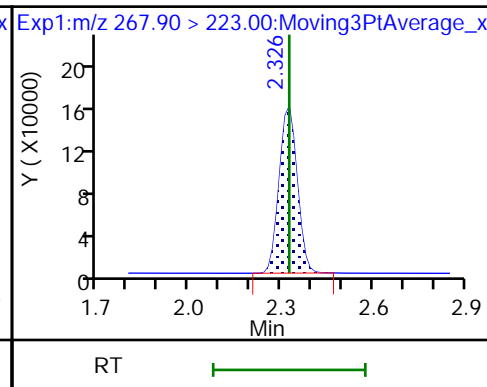
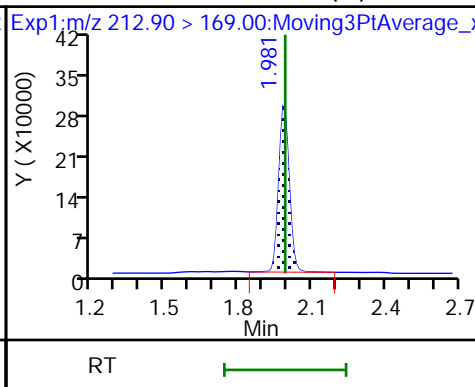
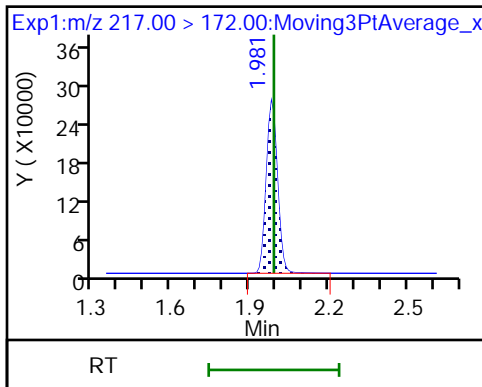
Method: PFC\_LC812

Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

2 Perfluorobutanoic acid (M)

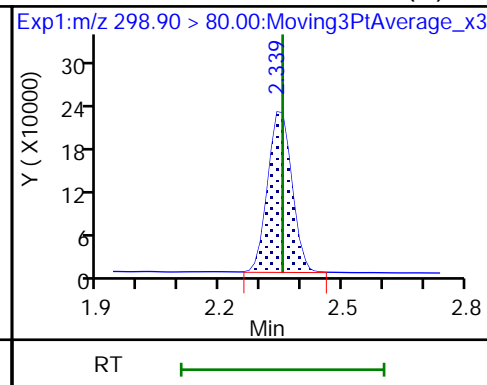
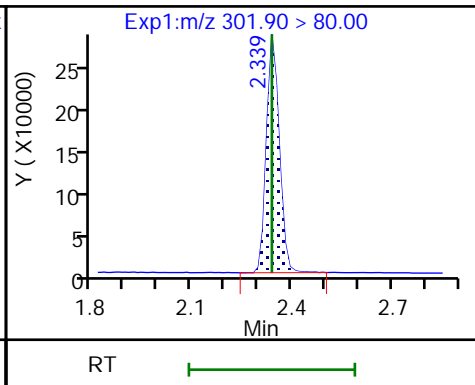
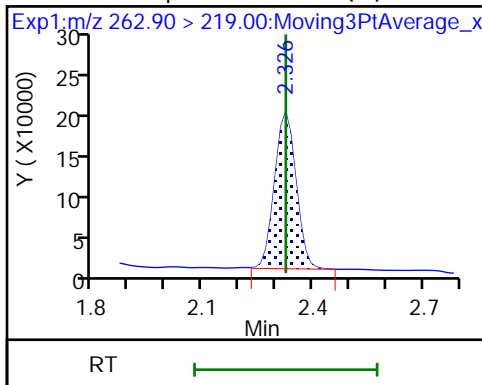
D 3 13C5 PFPeA



4 Perfluoropentanoic acid (M)

D 47 13C3 PFBS

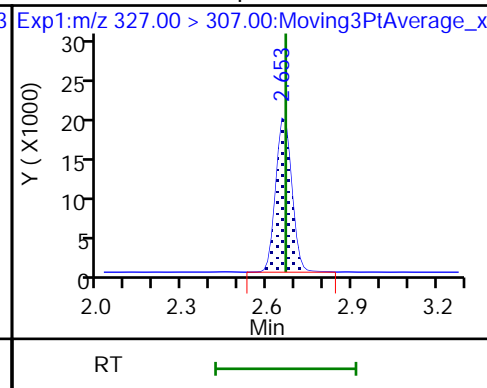
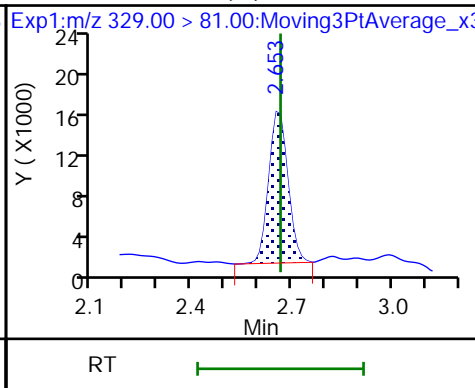
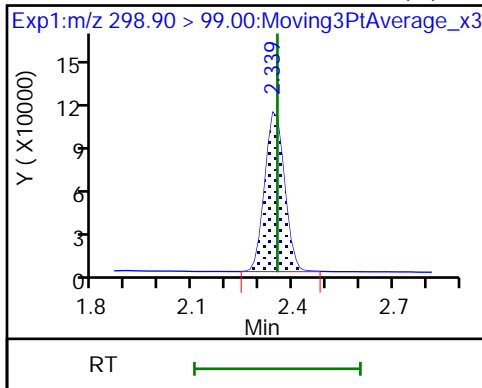
5 Perfluorobutanesulfonic acid (M)



5 Perfluorobutanesulfonic acid (M)

D 60 M2-4:2 FTS (M)

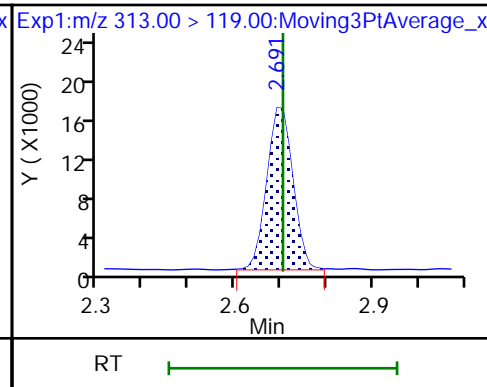
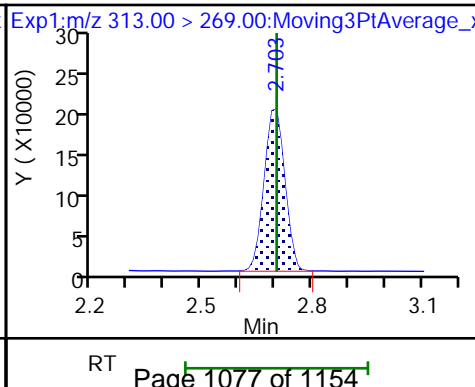
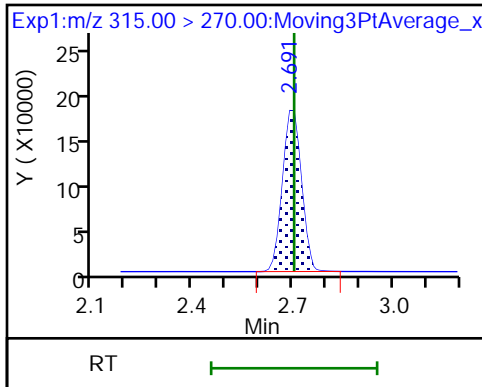
61 1H,1H,2H,2H-perfluorohexanesulfo (M)



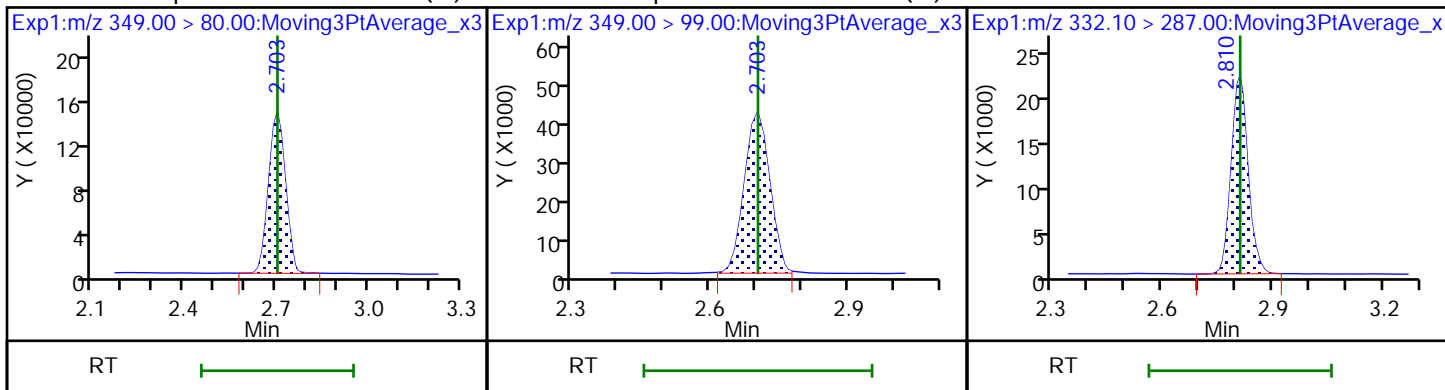
D 7 13C2 PFHxA

6 Perfluorohexanoic acid (M)

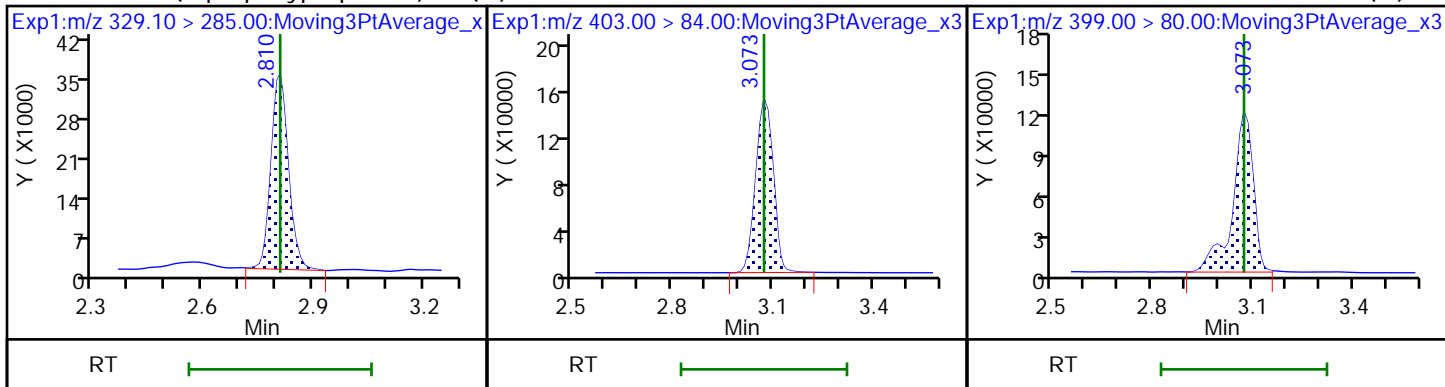
6 Perfluorohexanoic acid (M)



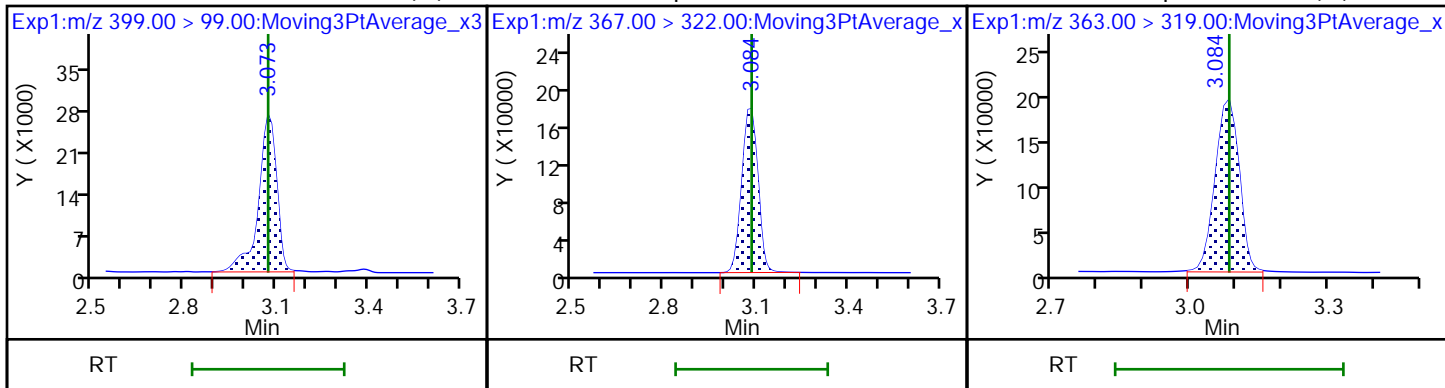
70 Perfluoropentanesulfonic acid (M) 70 Perfluoropentanesulfonic acid (M) D 64 13C3 HFPO-DA



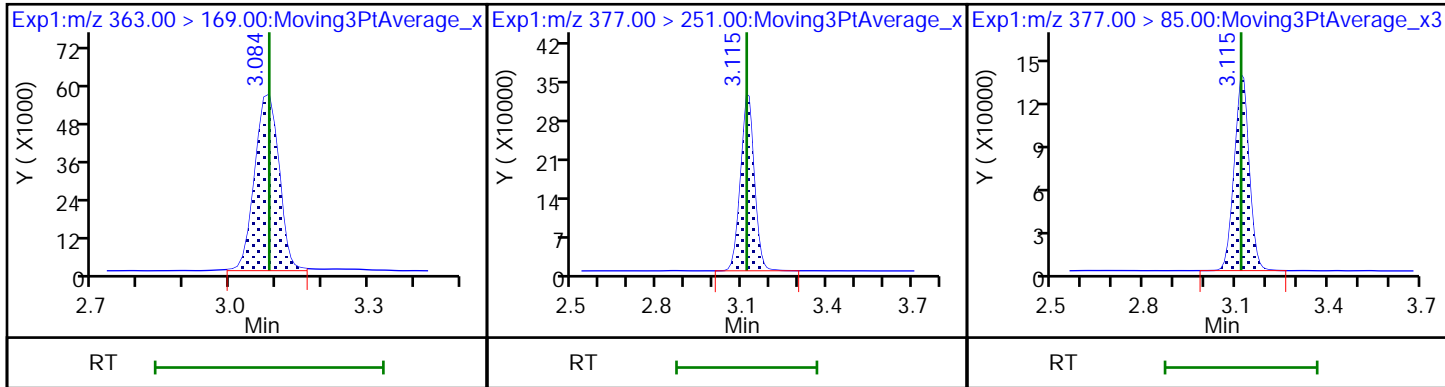
67 Perfluoro(2-propoxypropanoic) ac (M) 11 18O2 PFHxS 8 Perfluorohexanesulfonic acid (M)



8 Perfluorohexanesulfonic acid (M) D 9 13C4 PFHpA 10 Perfluoroheptanoic acid (M)



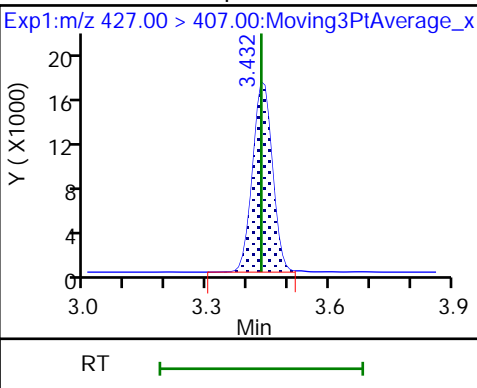
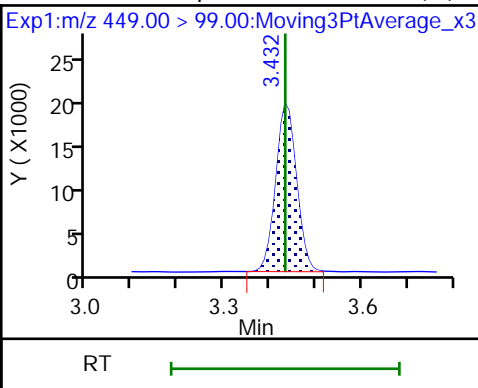
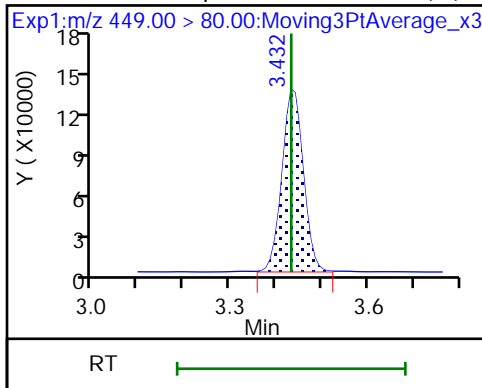
10 Perfluoroheptanoic acid (M) 77 DONA 77 DONA



16 Perfluoroheptanesulfonic acid (M)

16 Perfluoroheptanesulfonic acid (M)

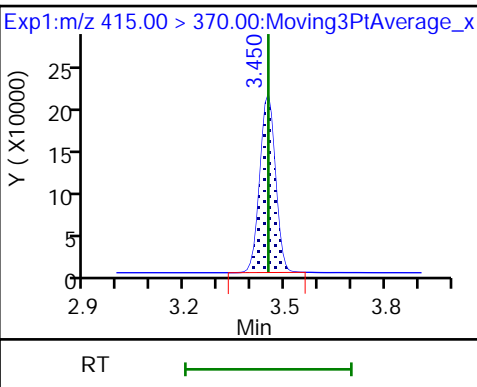
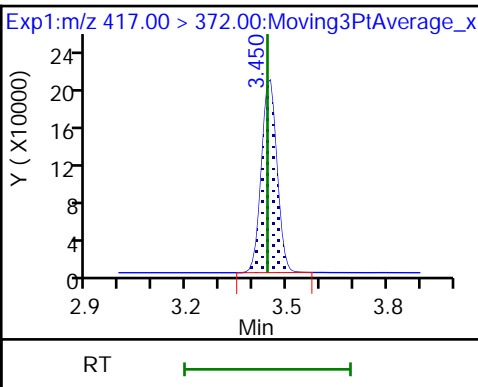
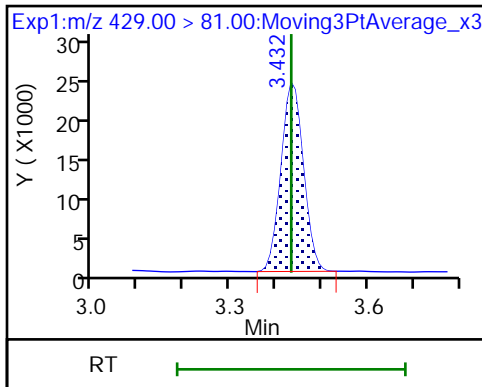
13 1H,1H,2H,2H-perfluorooctanesulfo (M)



D 12 M2-6:2 FTS

D 14 13C4 PFOA

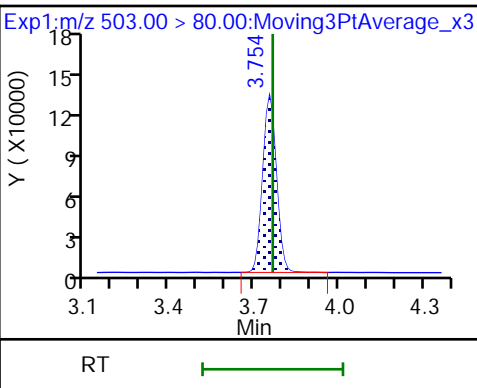
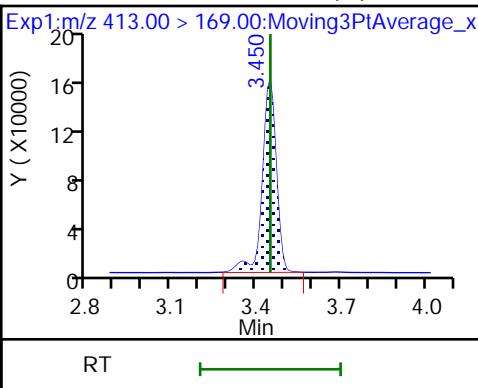
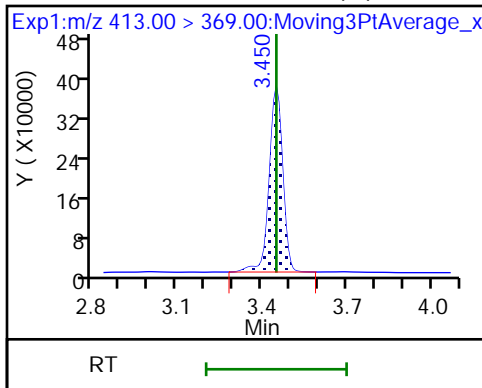
\* 62 13C2 PFOA



15 Perfluorooctanoic acid (M)

15 Perfluorooctanoic acid (M)

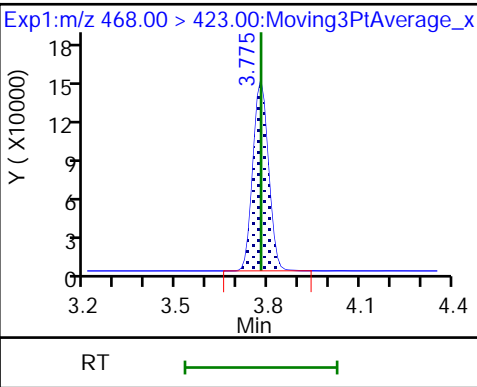
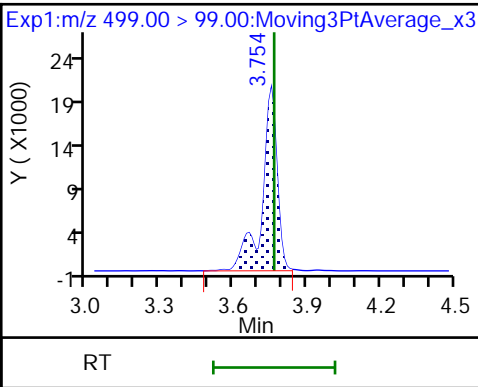
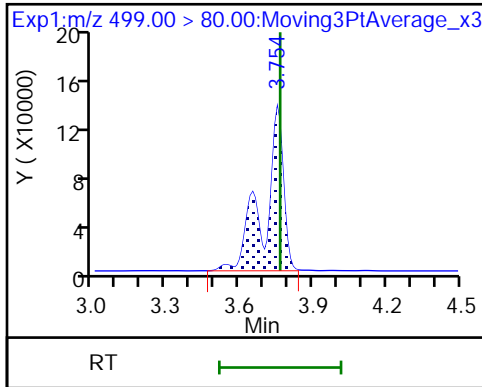
D 18 13C4 PFOS

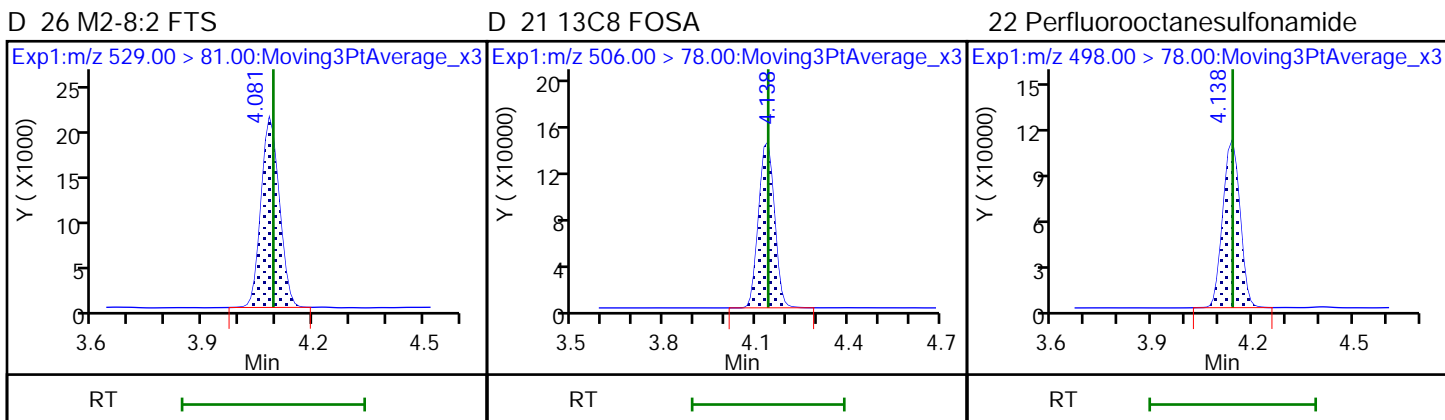
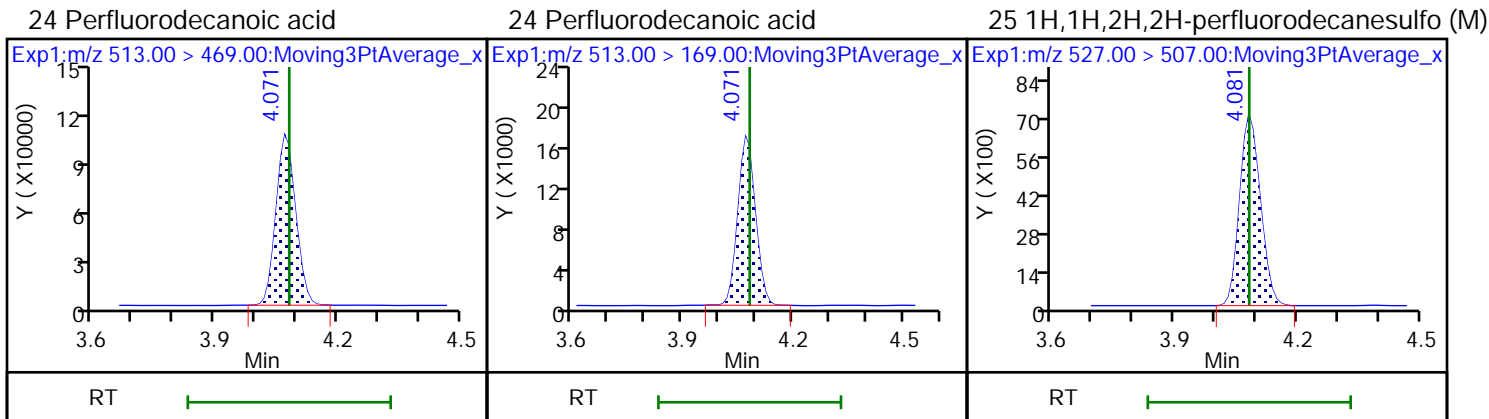
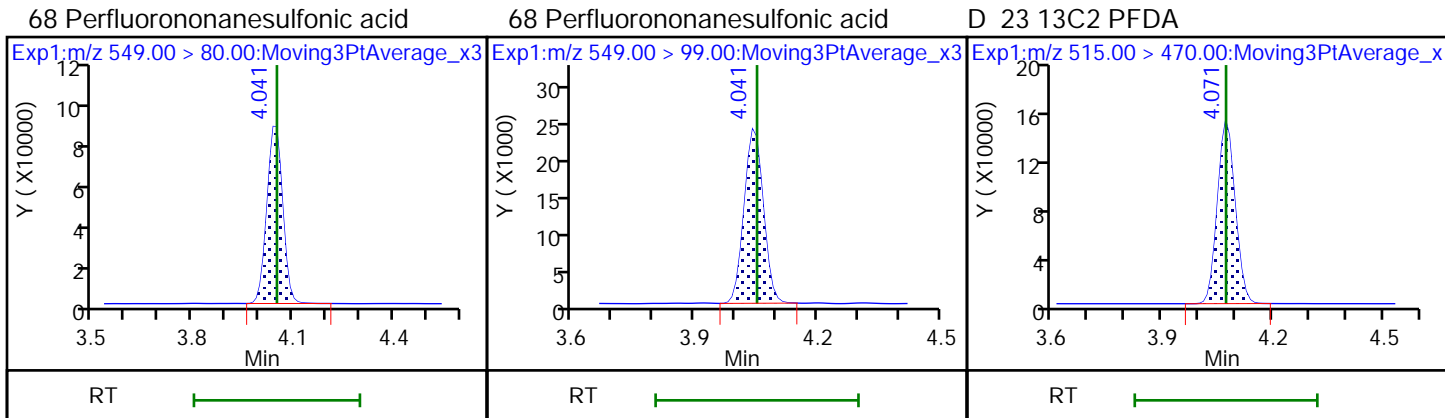
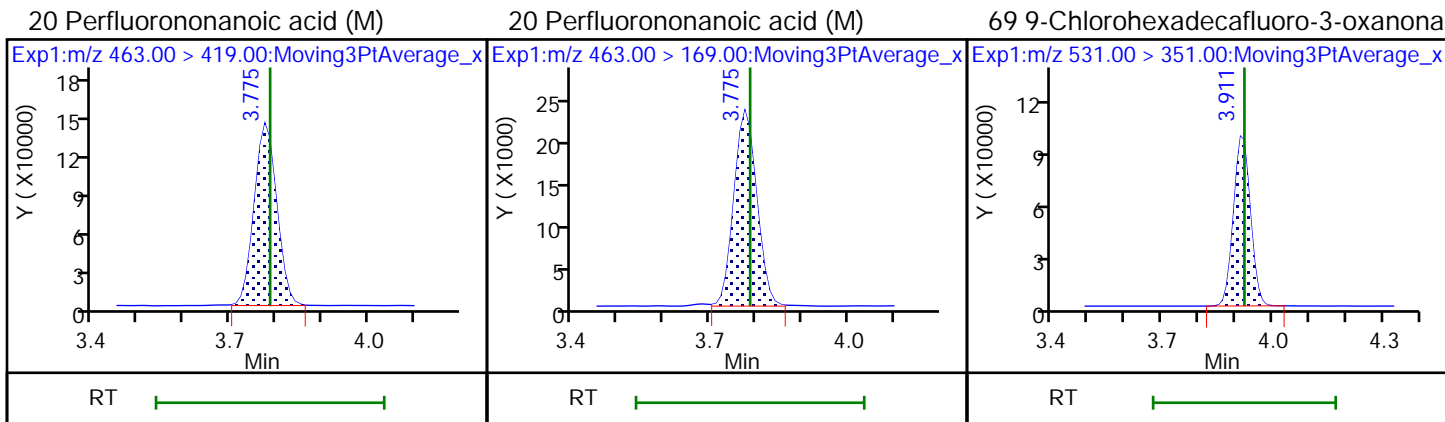


17 Perfluorooctanesulfonic acid (M)

17 Perfluorooctanesulfonic acid (M)

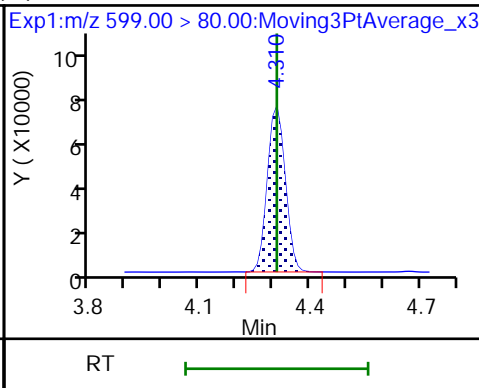
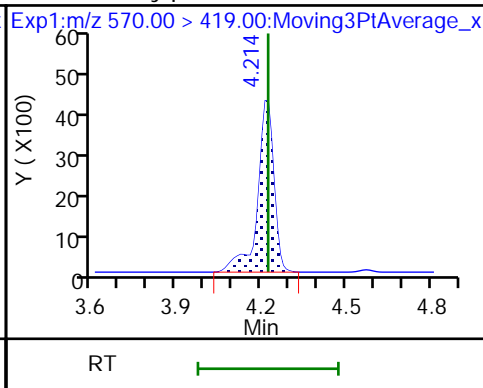
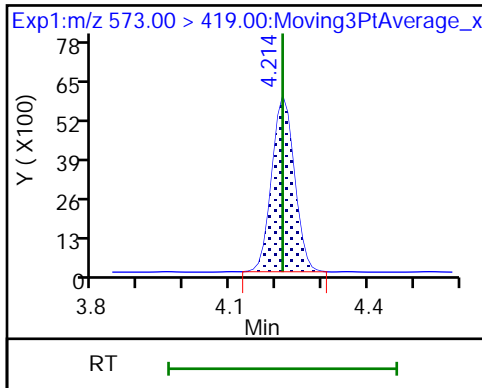
D 19 13C5 PFNA





D 27 d3-NMeFOSAA

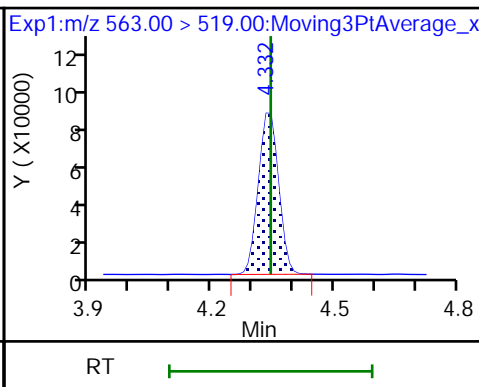
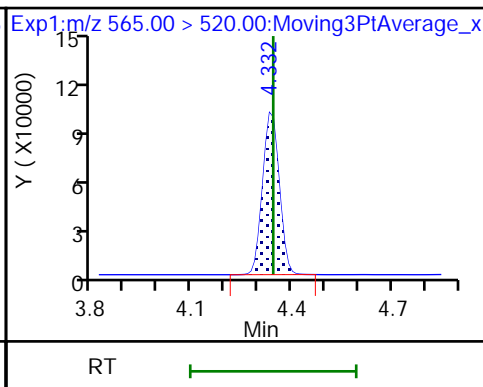
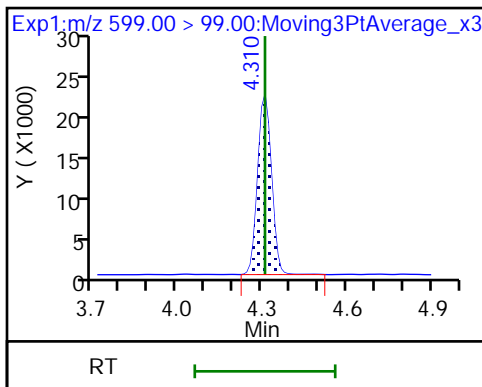
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

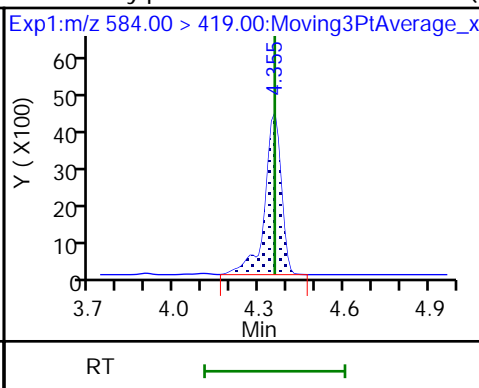
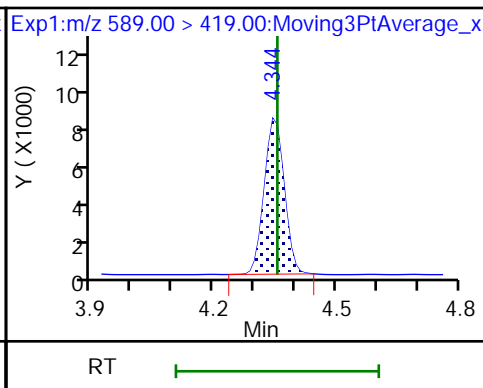
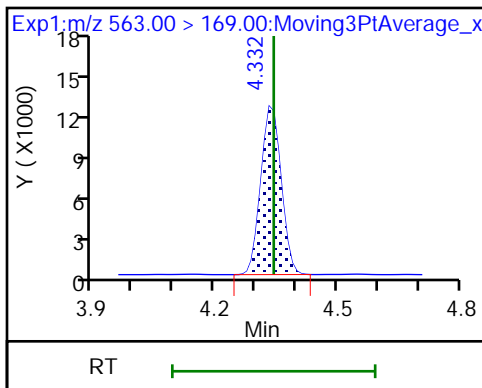
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

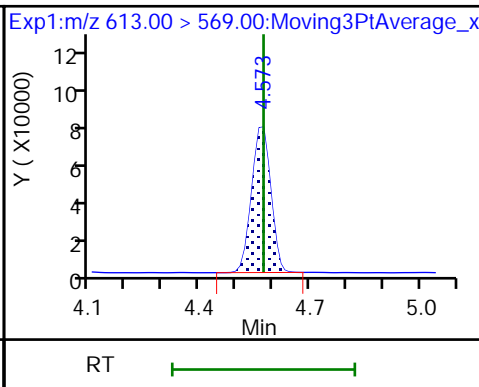
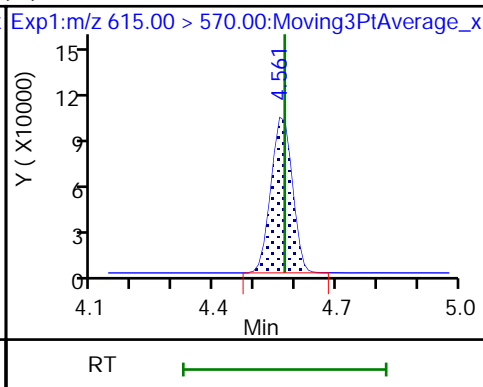
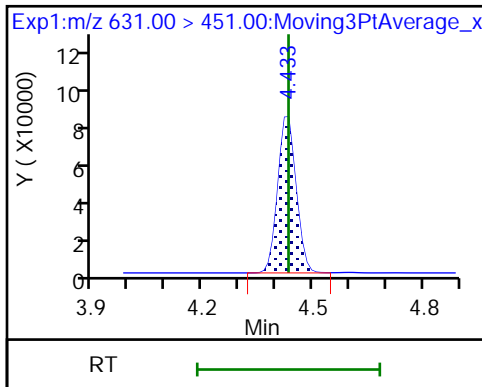
D 32 d5-NEtFOSAA

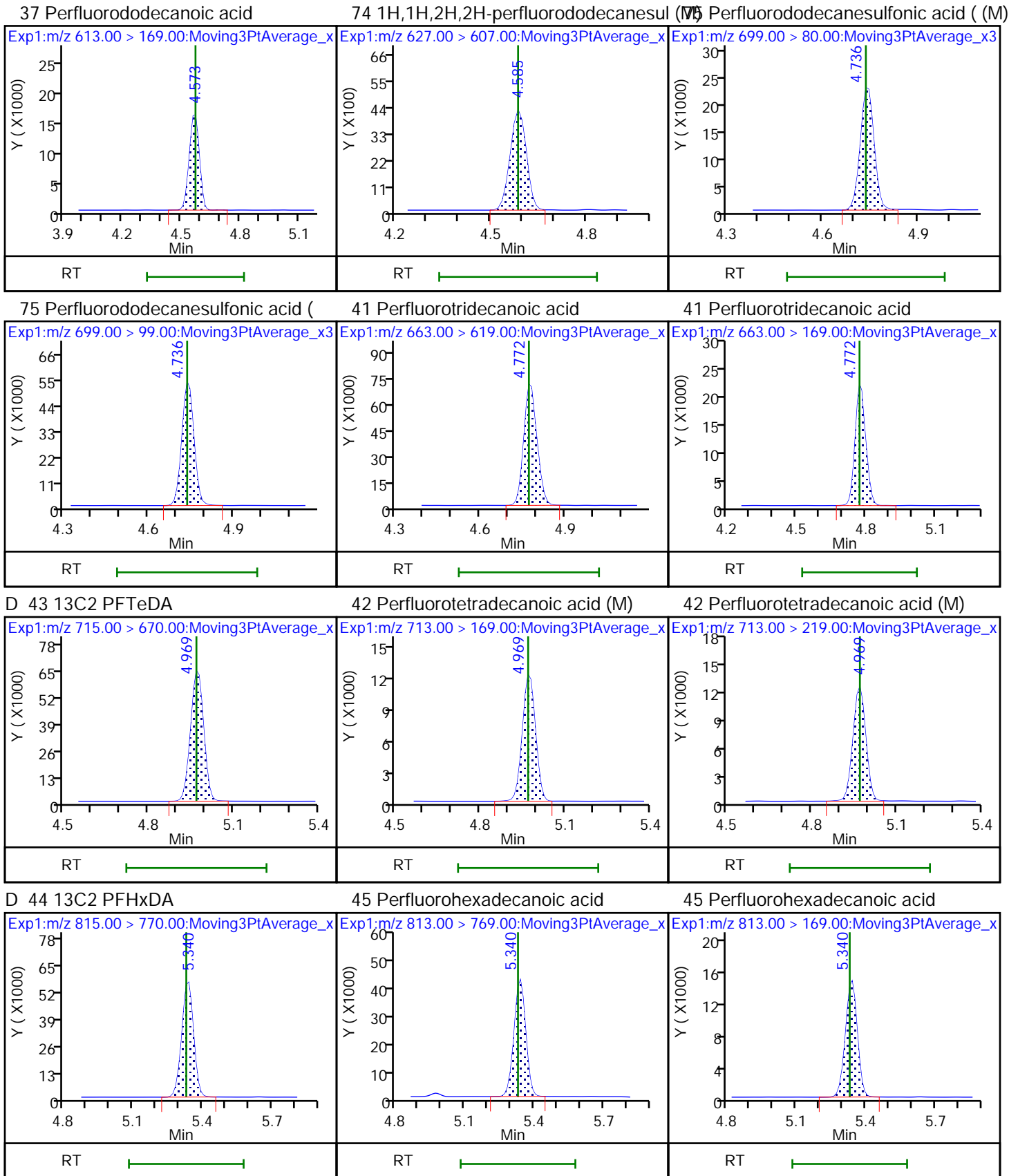
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec (M) 36 13C2 PFDoA

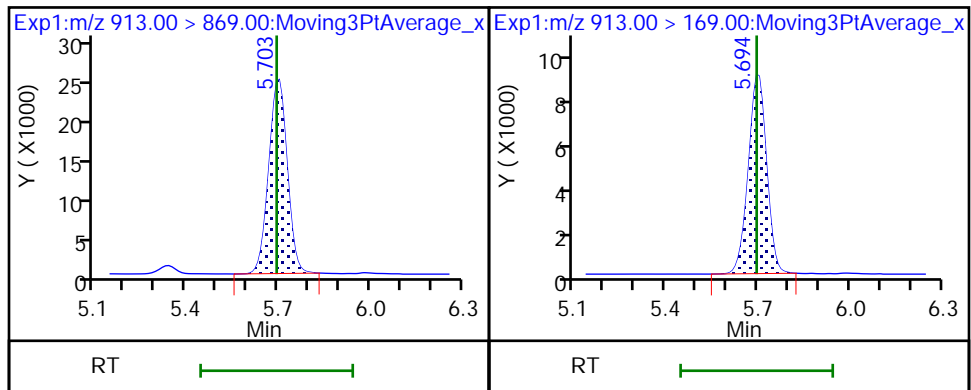
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid





Euofins TestAmerica, Burlington

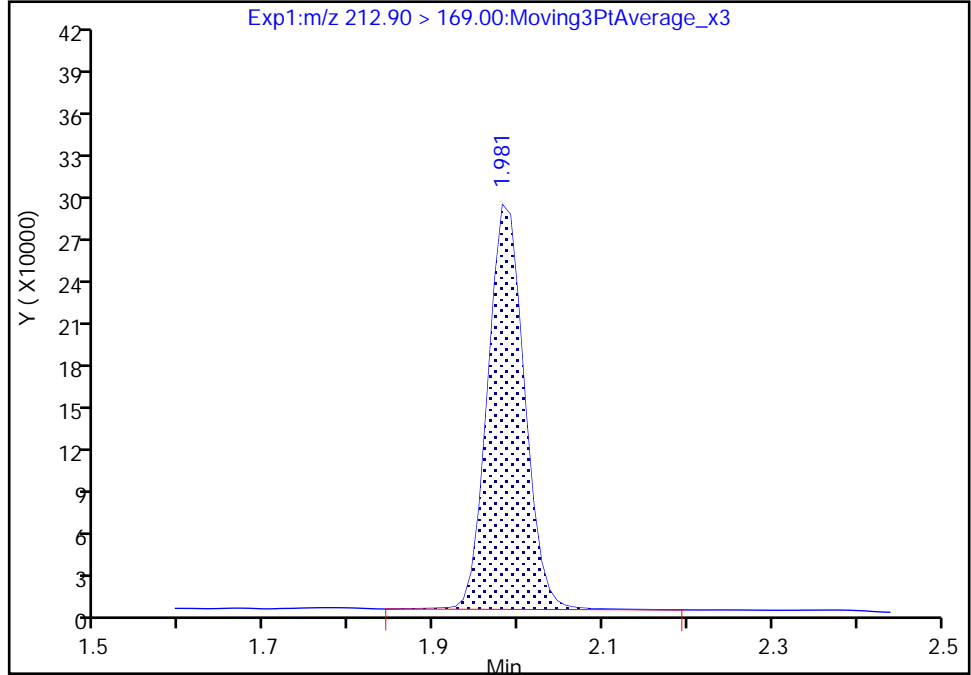
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

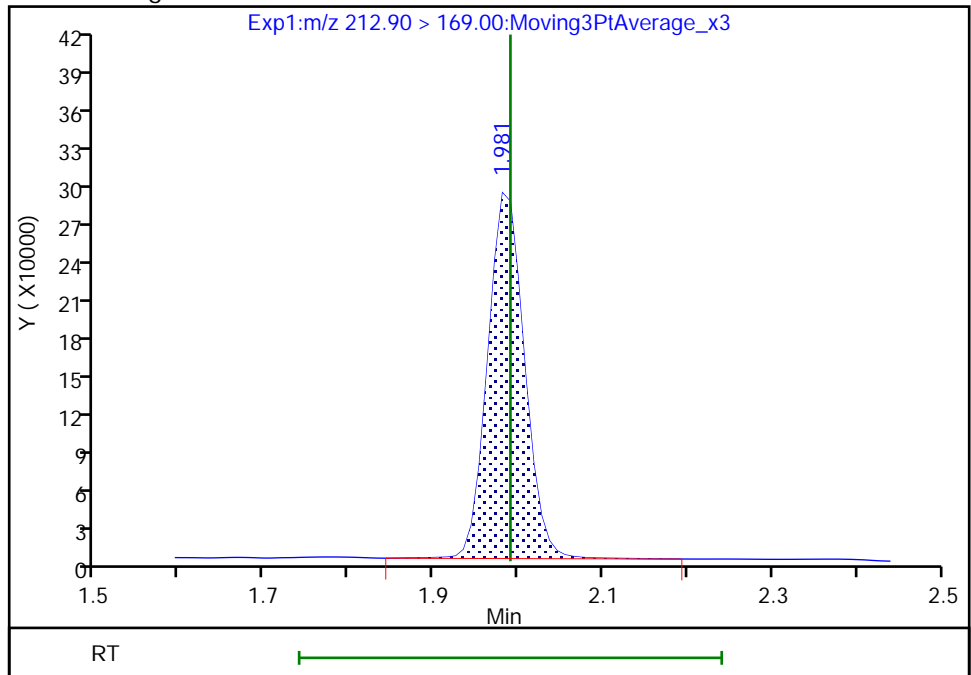
RT: 1.98  
Area: 863919  
Amount: 1.436589  
Amount Units: ng/ml

Processing Integration Results



RT: 1.98  
Area: 864487  
Amount: 1.437533  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:24:10  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

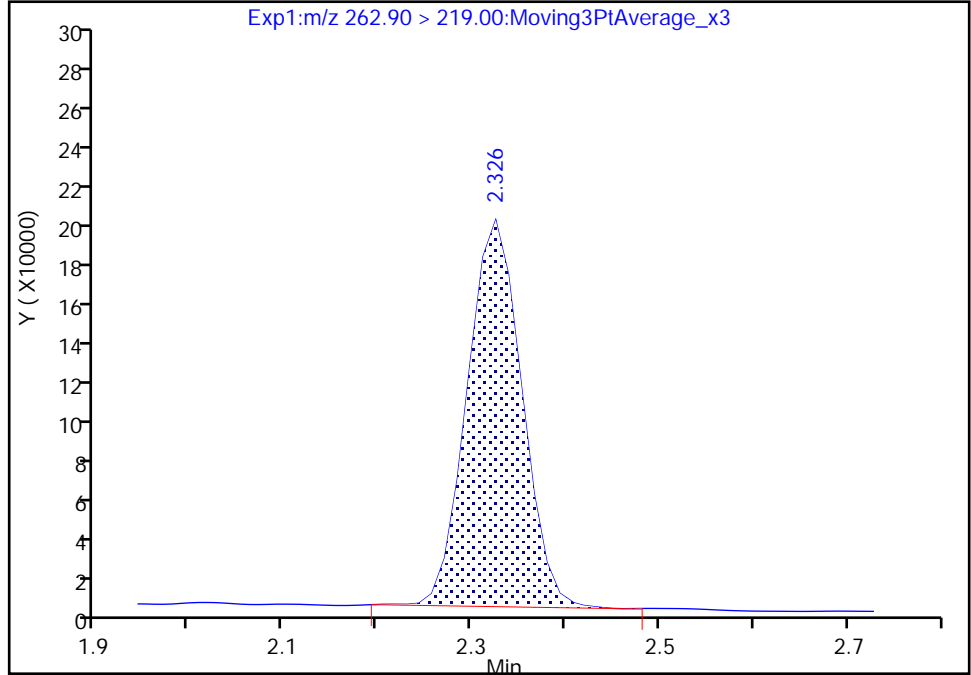
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

4 Perfluoropentanoic acid, CAS: 2706-90-3

Signal: 1

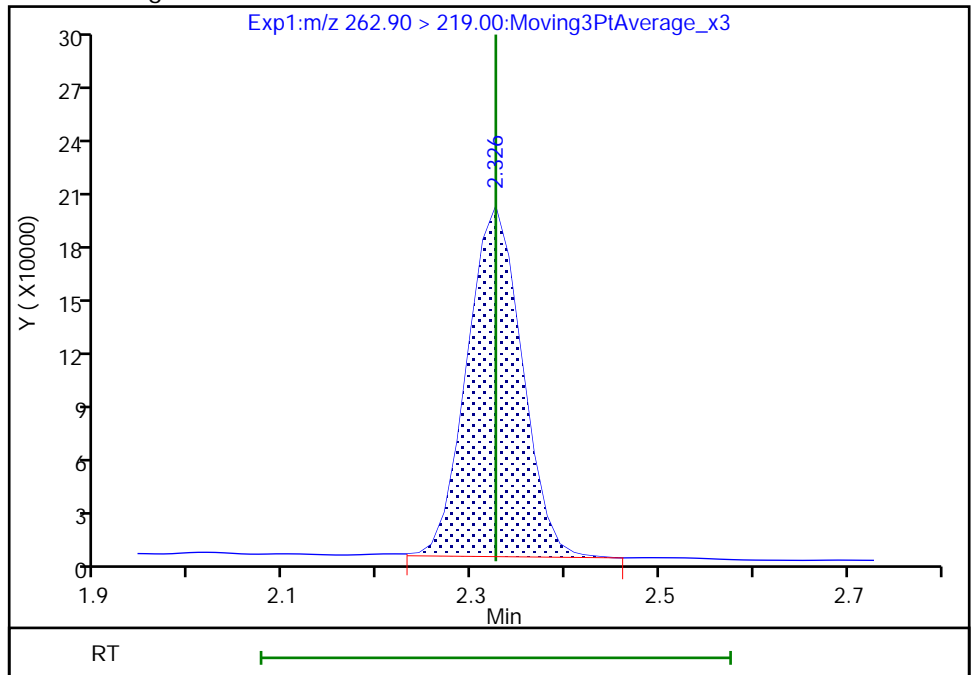
RT: 2.33  
Area: 777022  
Amount: 1.424376  
Amount Units: ng/ml

Processing Integration Results



RT: 2.33  
Area: 779722  
Amount: 1.429325  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:23:42  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

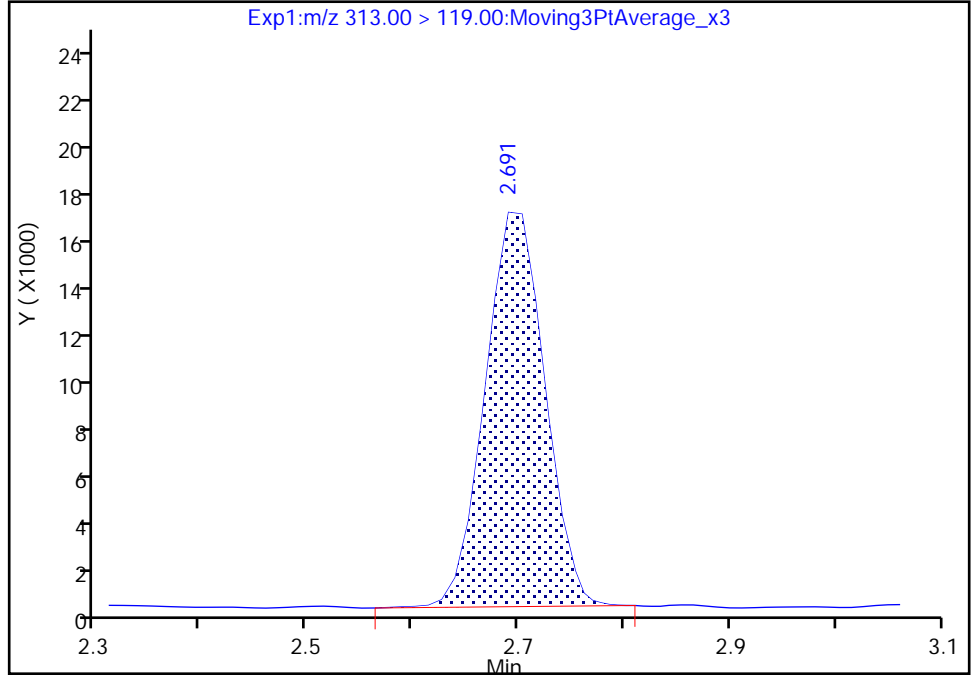
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 2

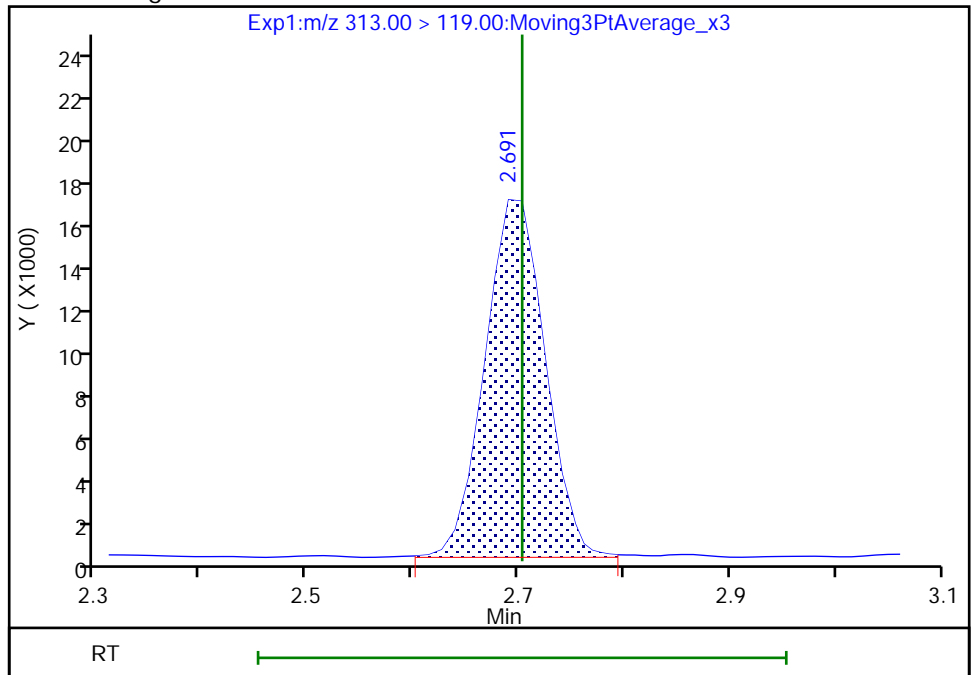
RT: 2.69  
Area: 64919  
Amount: 1.403814  
Amount Units: ng/ml

Processing Integration Results



RT: 2.69  
Area: 65553  
Amount: 1.404616  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:25:08  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

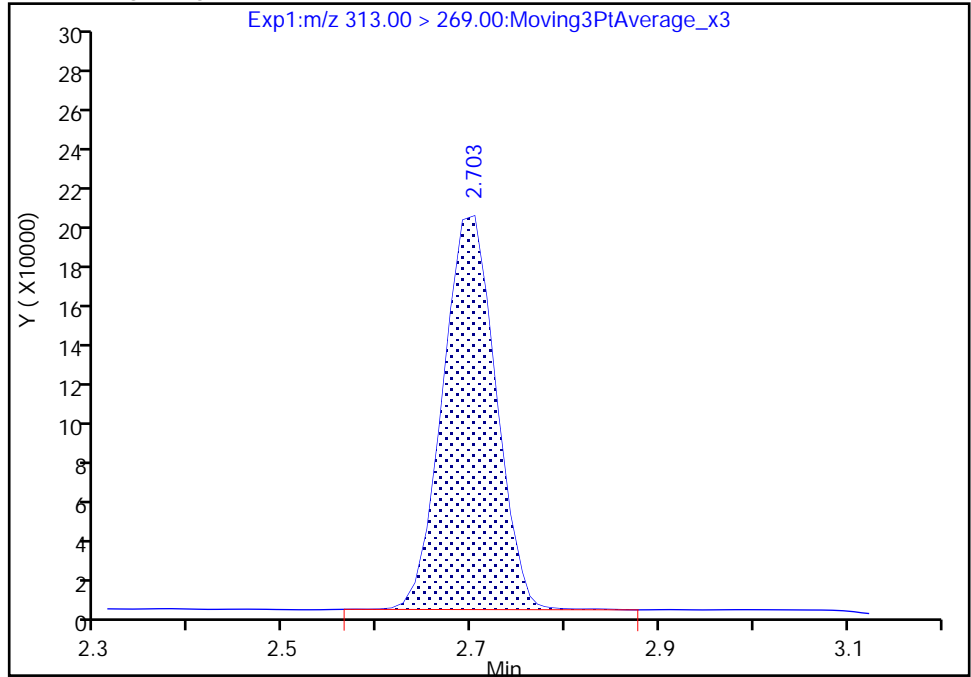
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 (4.60 mm) Detector: EXP1

6 Perfluorohexanoic acid, CAS: 307-24-4

Signal: 1

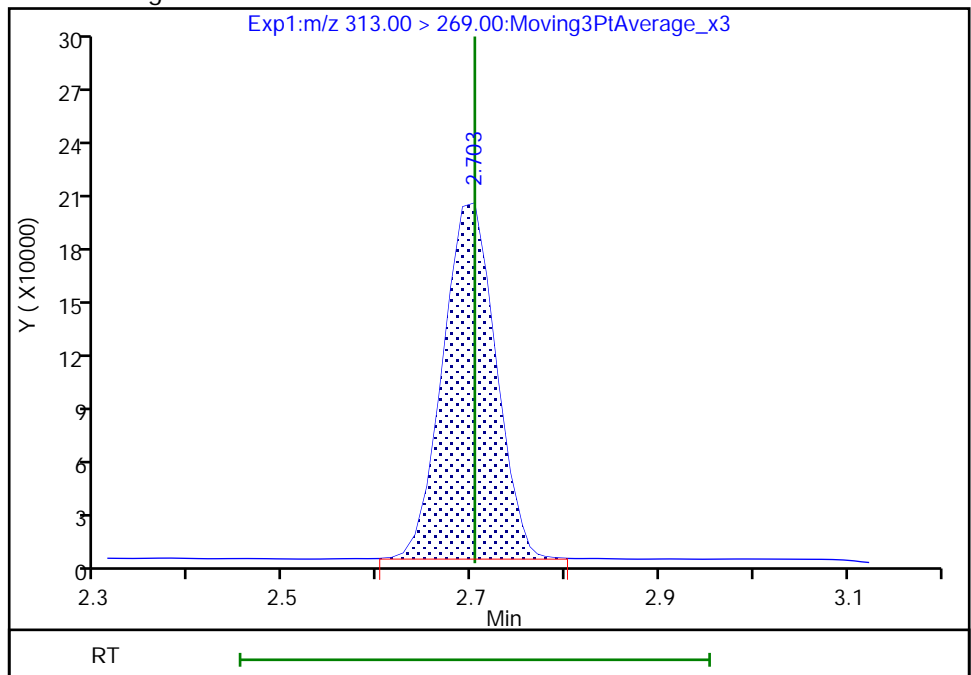
RT: 2.70  
Area: 792222  
Amount: 1.403814  
Amount Units: ng/ml

Processing Integration Results



RT: 2.70  
Area: 792675  
Amount: 1.404616  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:25:11

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

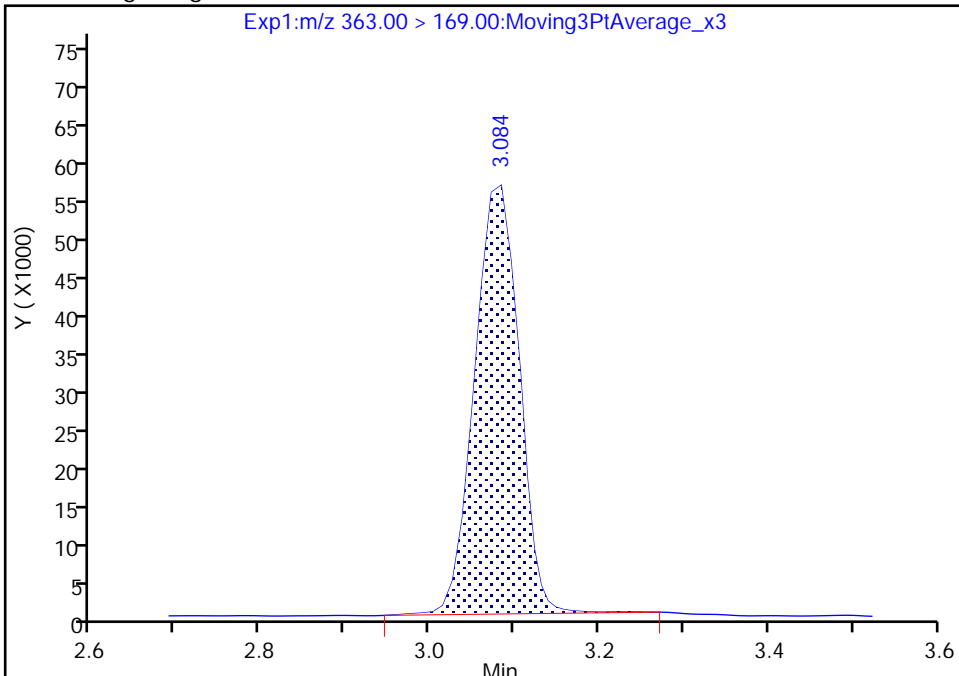
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

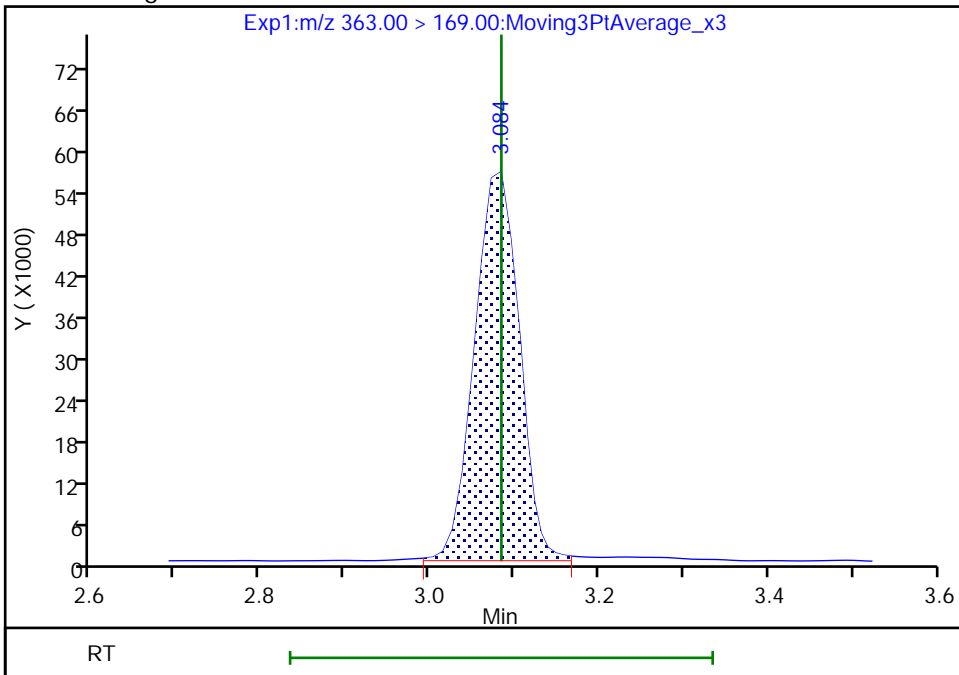
RT: 3.08  
Area: 206119  
Amount: 1.369634  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 207485  
Amount: 1.366372  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:27:50  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

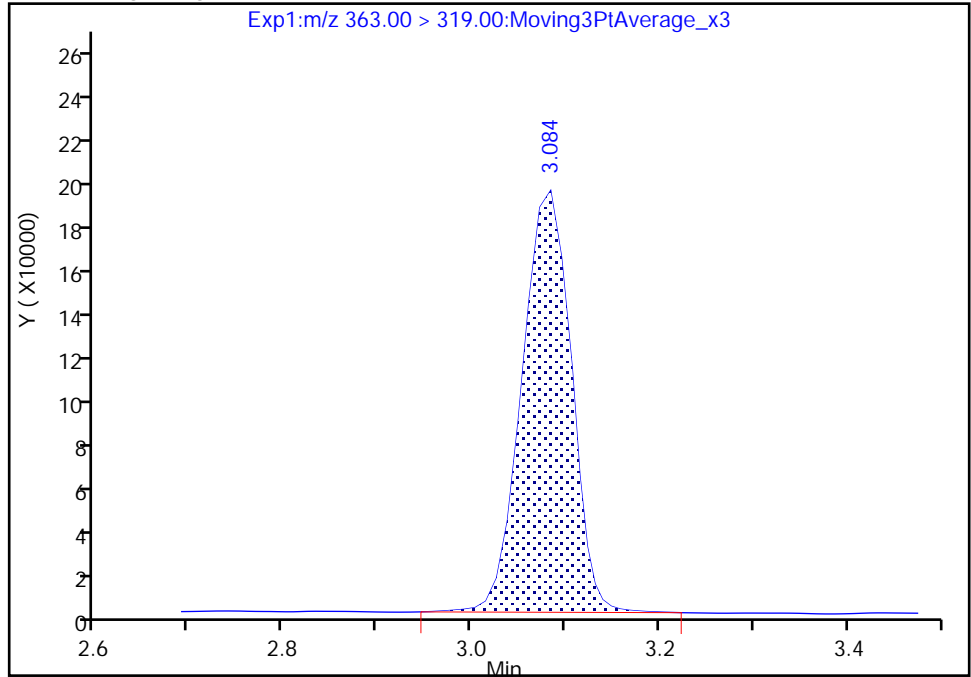
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

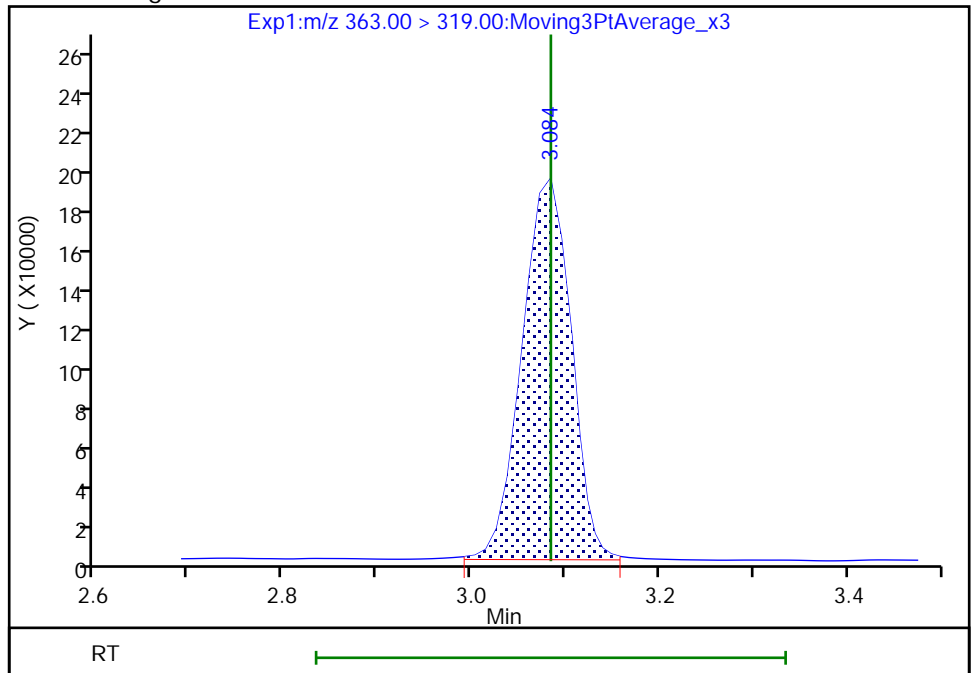
RT: 3.08  
Area: 698099  
Amount: 1.369634  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 696436  
Amount: 1.366372  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:27:53

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

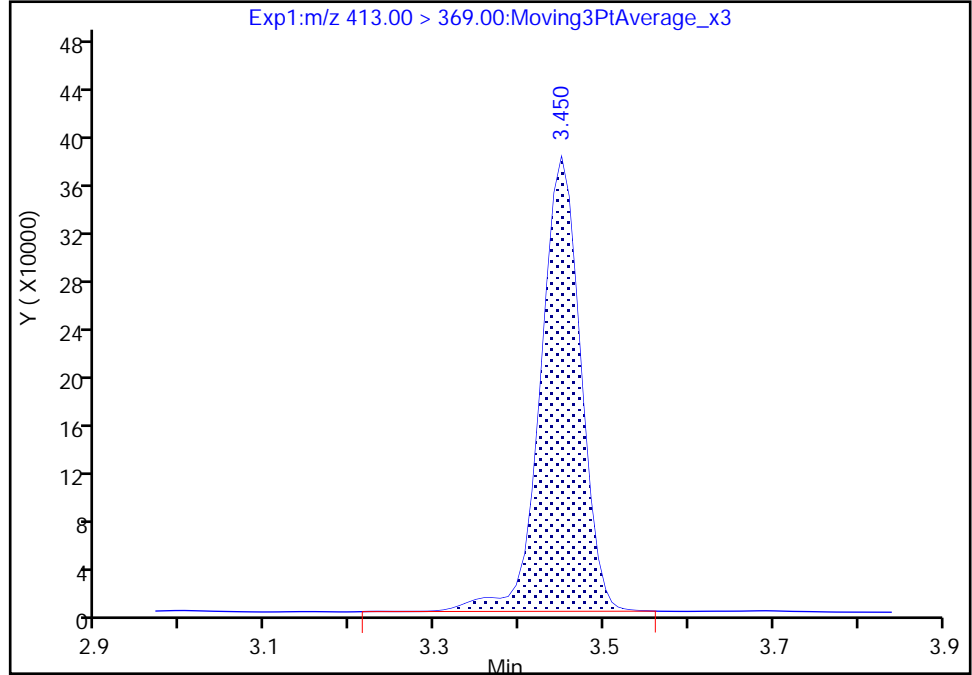
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

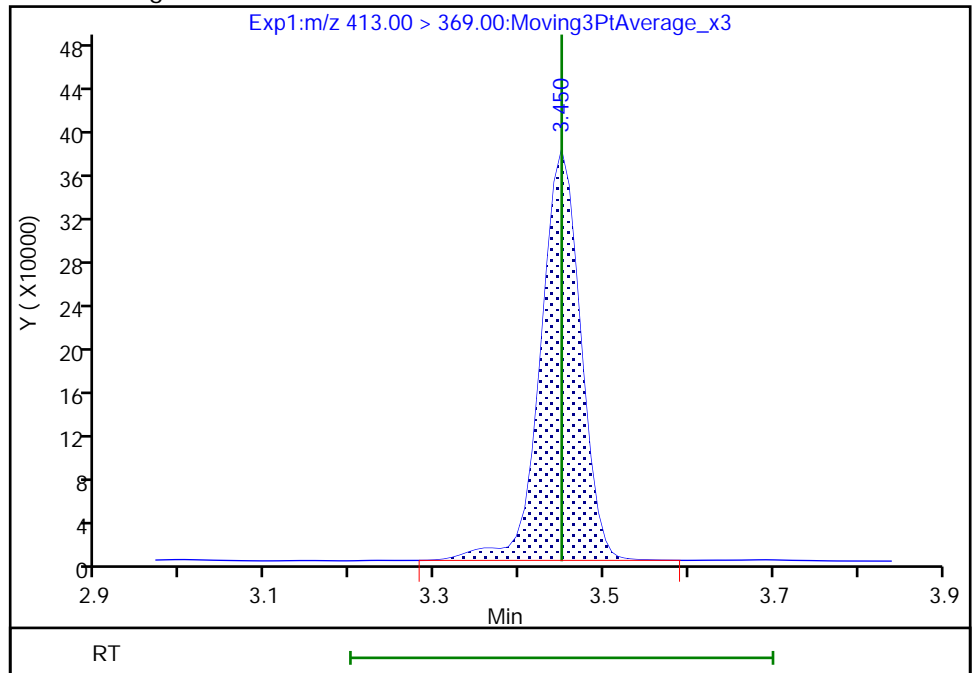
RT: 3.45  
Area: 1240089  
Amount: 2.263604  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 1240958  
Amount: 2.265190  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:28:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

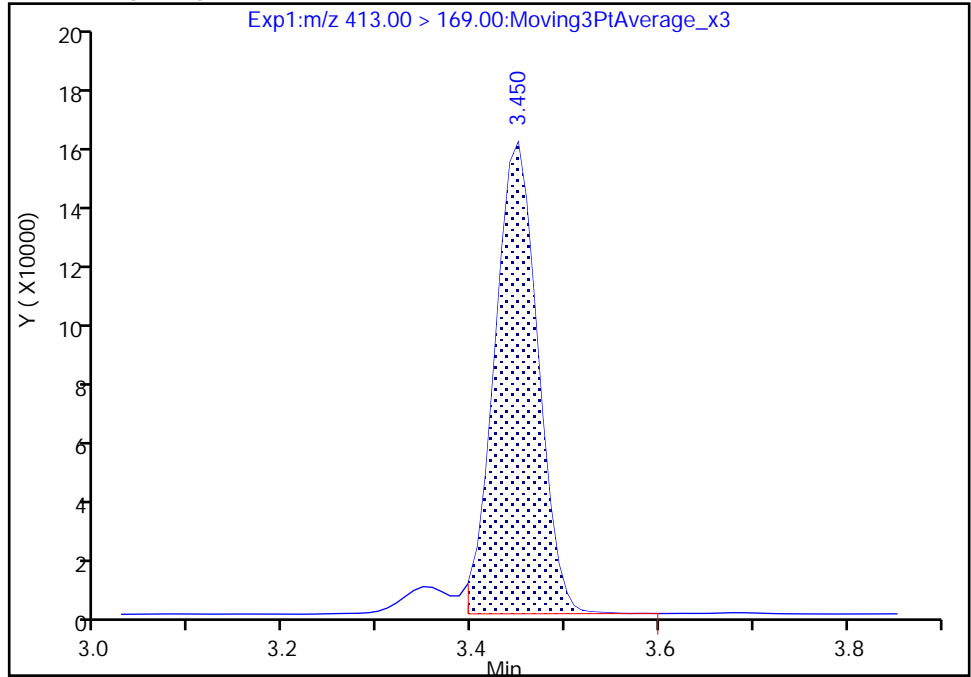
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

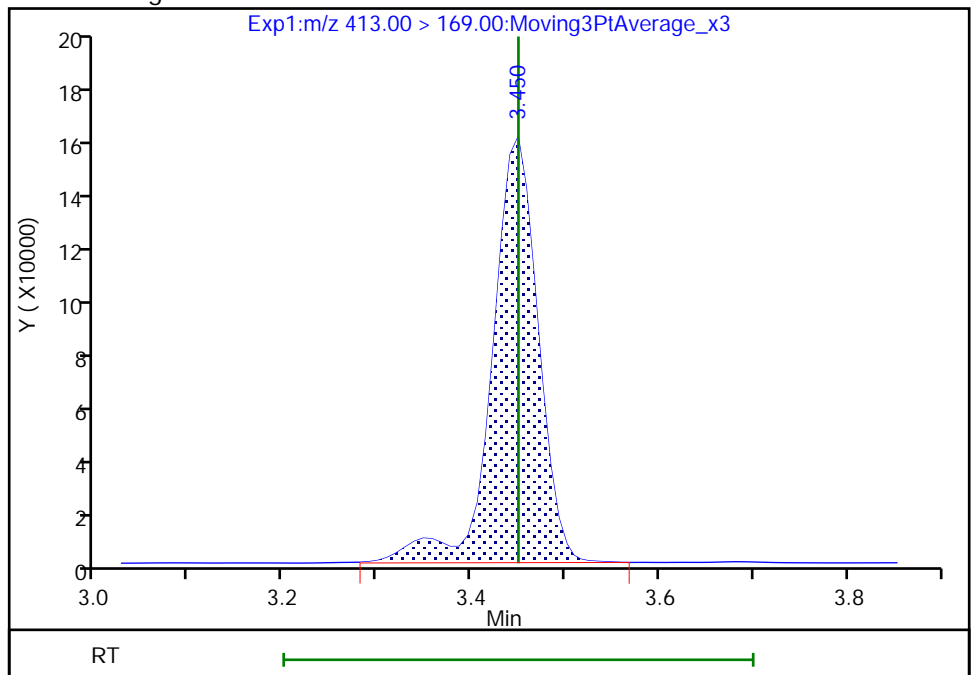
RT: 3.45  
Area: 495091  
Amount: 2.263604  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 531123  
Amount: 2.265190  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:28:52

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Euofins TestAmerica, Burlington

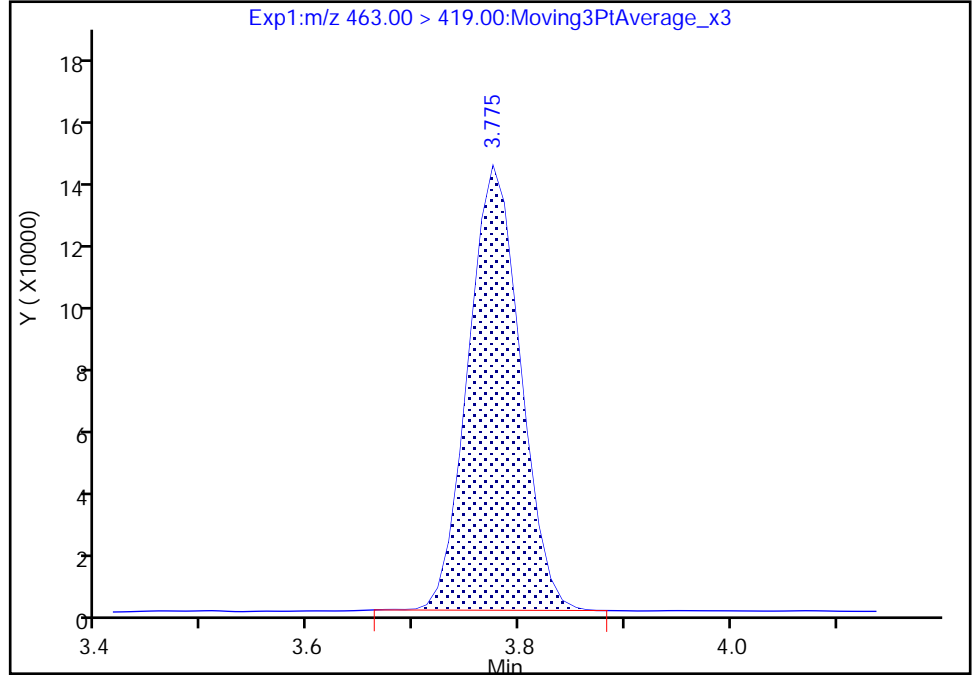
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

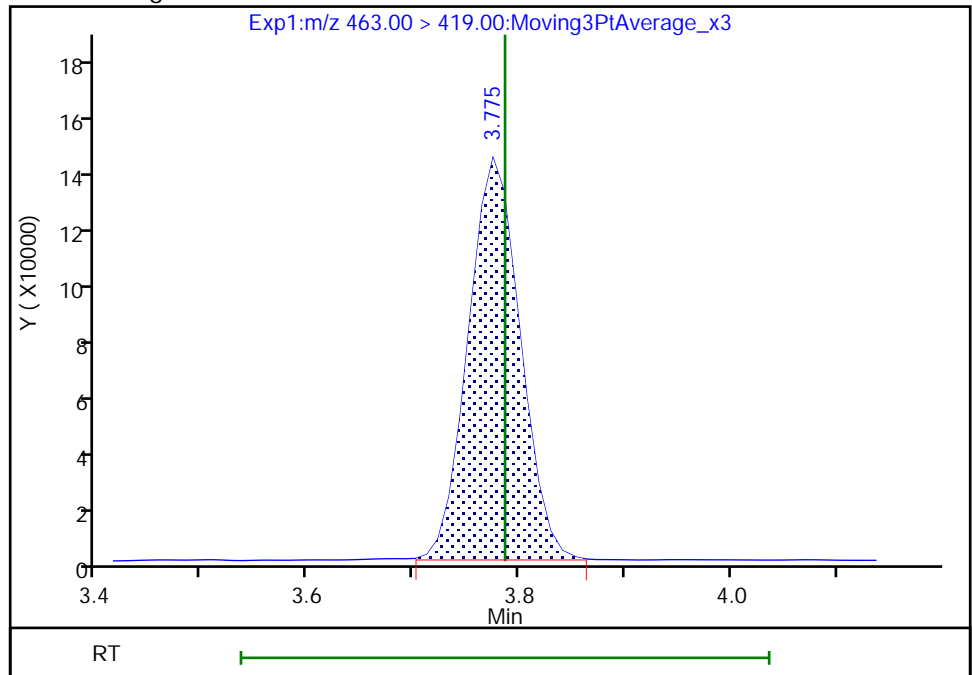
RT: 3.77  
Area: 473768  
Amount: 1.119386  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 475493  
Amount: 1.123462  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:29:55  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

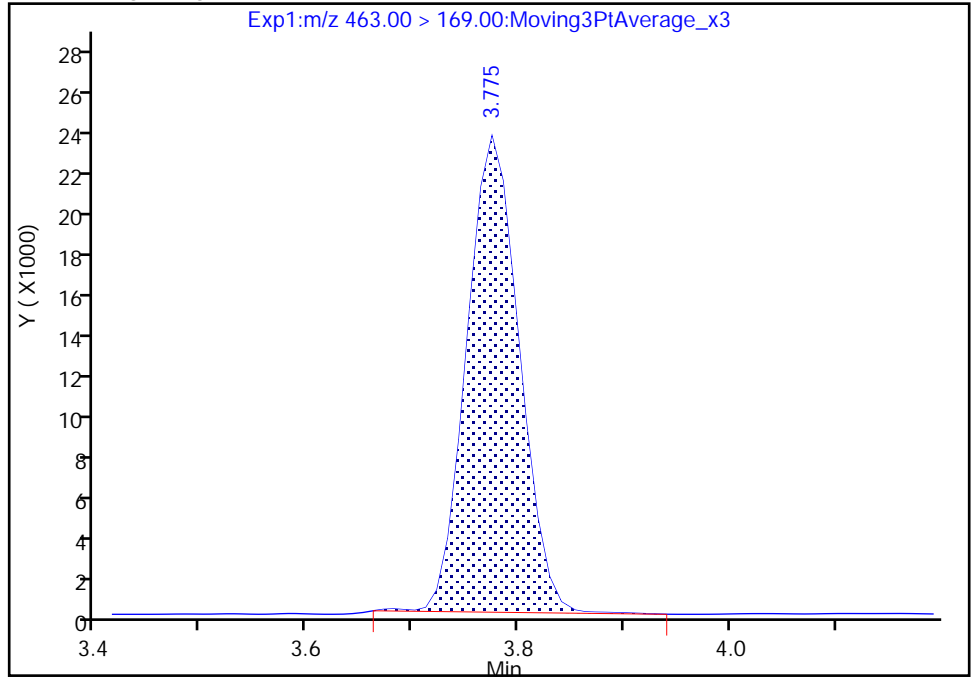
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

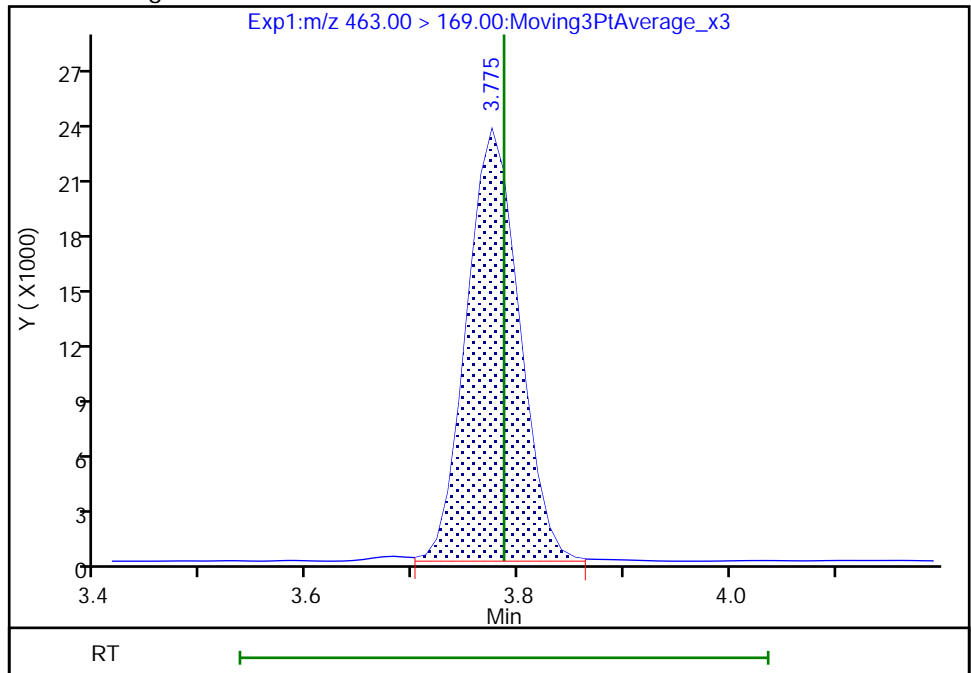
RT: 3.77  
Area: 79371  
Amount: 1.119386  
Amount Units: ng/ml

Processing Integration Results



RT: 3.77  
Area: 79958  
Amount: 1.123462  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:29:57

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

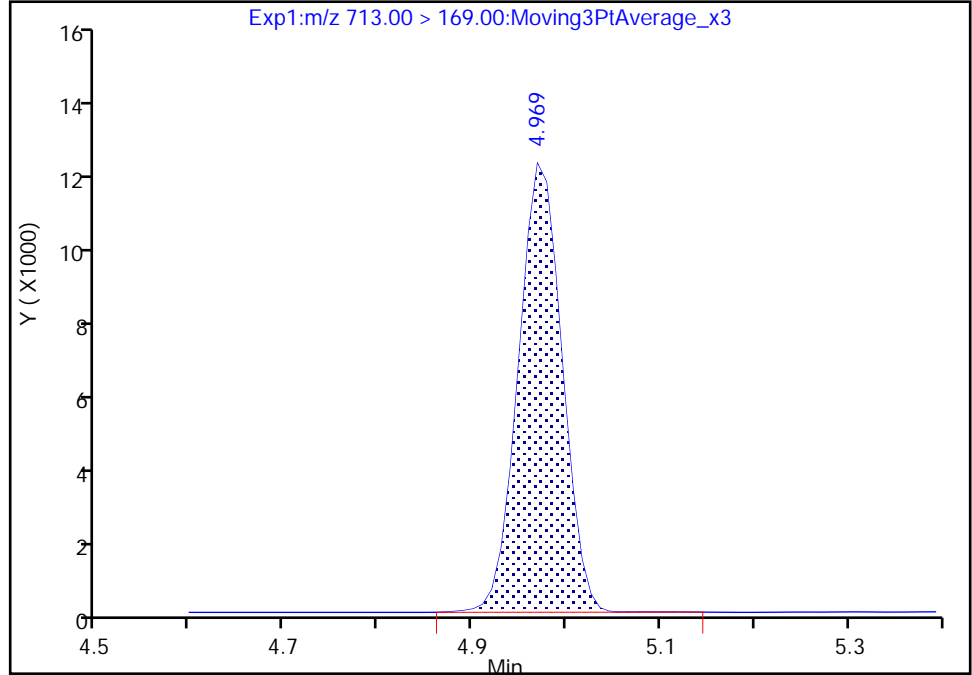
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 1

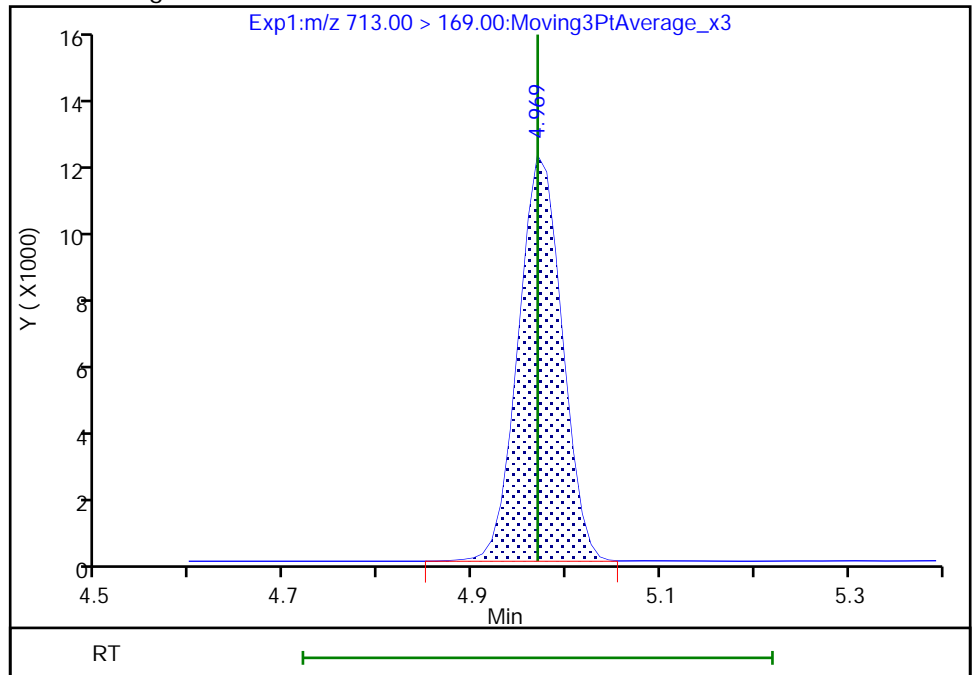
RT: 4.97  
Area: 39599  
Amount: 1.044531  
Amount Units: ng/ml

Processing Integration Results



RT: 4.97  
Area: 39616  
Amount: 1.044980  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:31:43  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

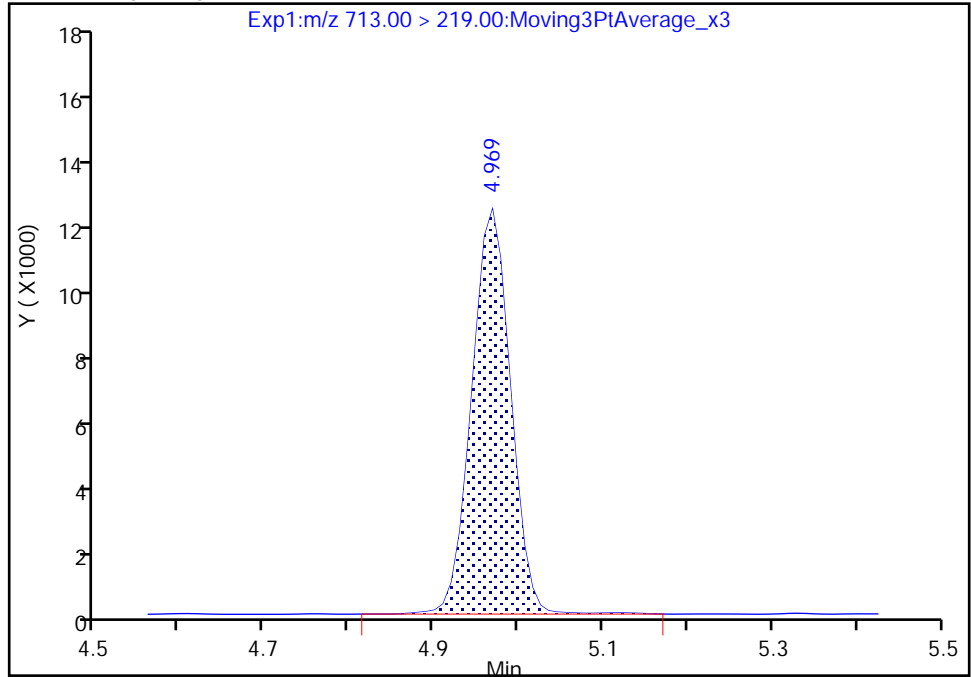
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

42 Perfluorotetradecanoic acid, CAS: 376-06-7

Signal: 2

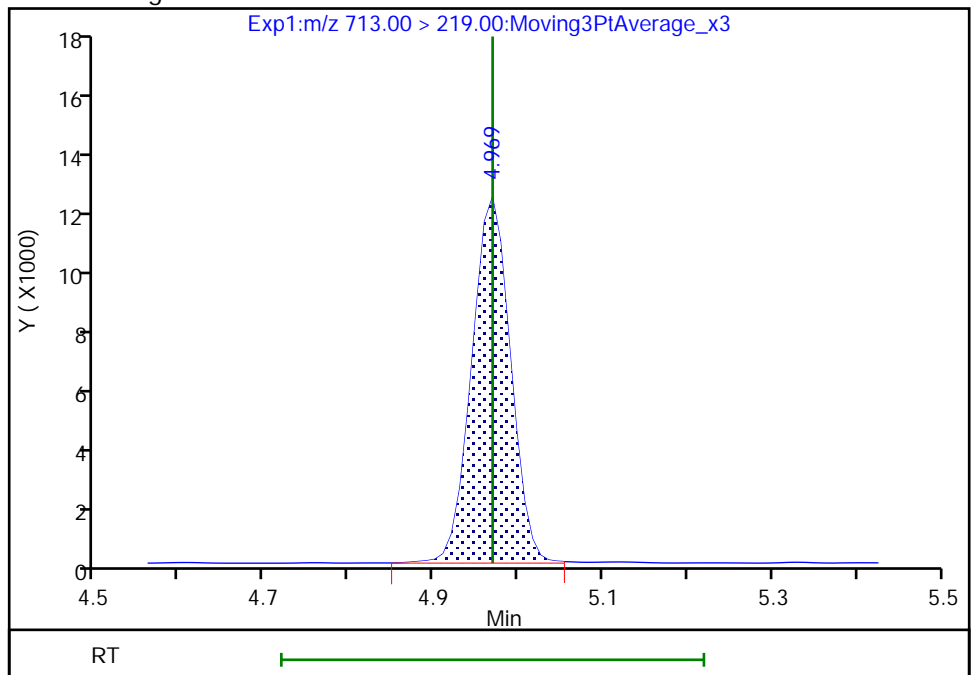
RT: 4.97  
Area: 38377  
Amount: 1.044531  
Amount Units: ng/ml

Processing Integration Results



RT: 4.97  
Area: 38255  
Amount: 1.044980  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:31:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

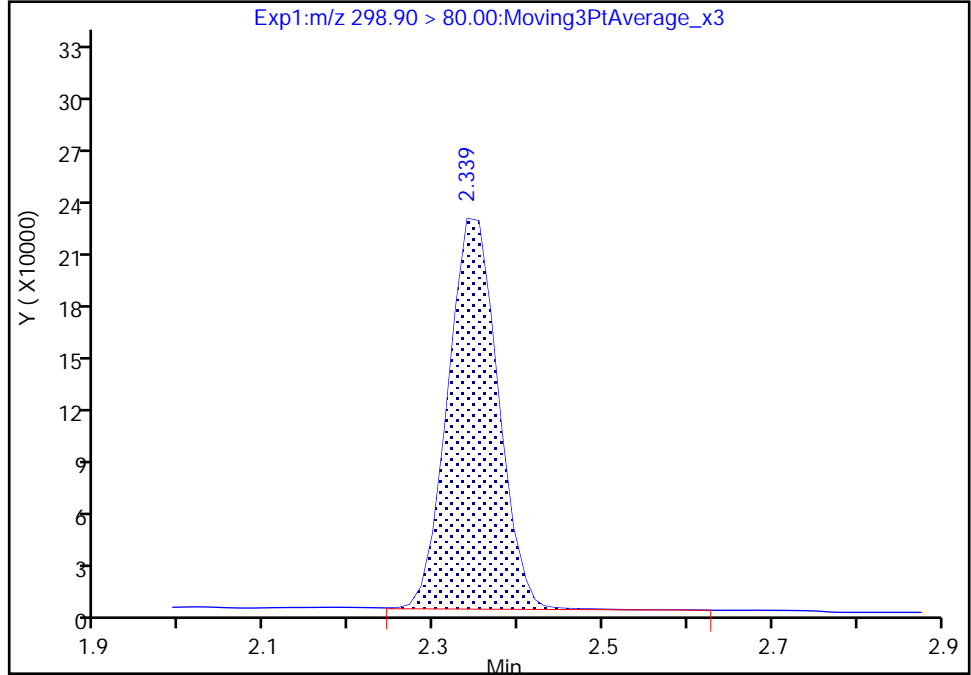
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

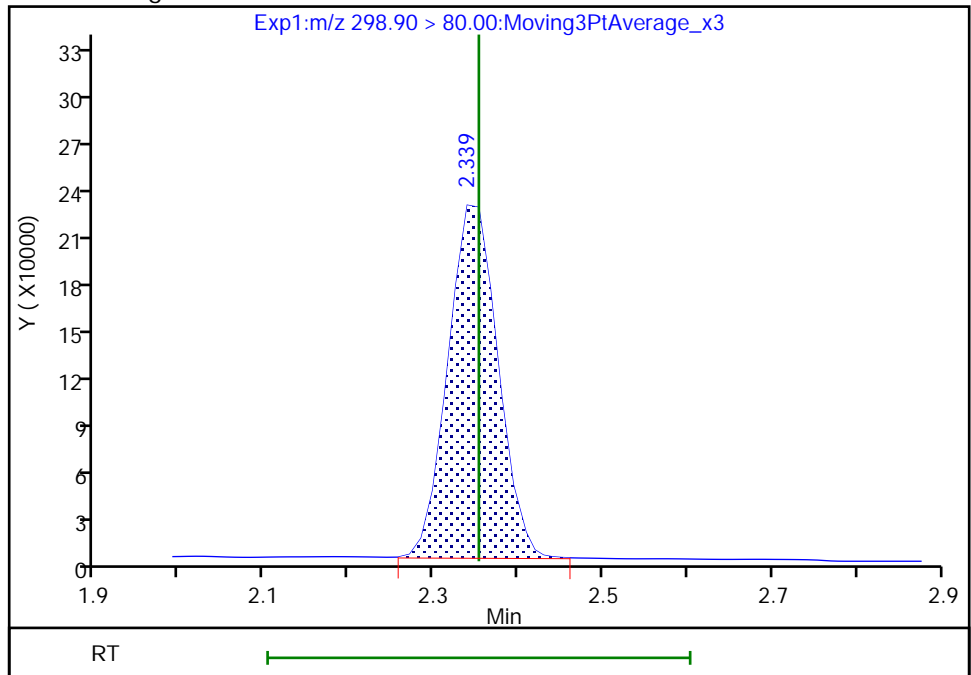
RT: 2.34  
Area: 915924  
Amount: 1.434249  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 913295  
Amount: 1.430132  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:24:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

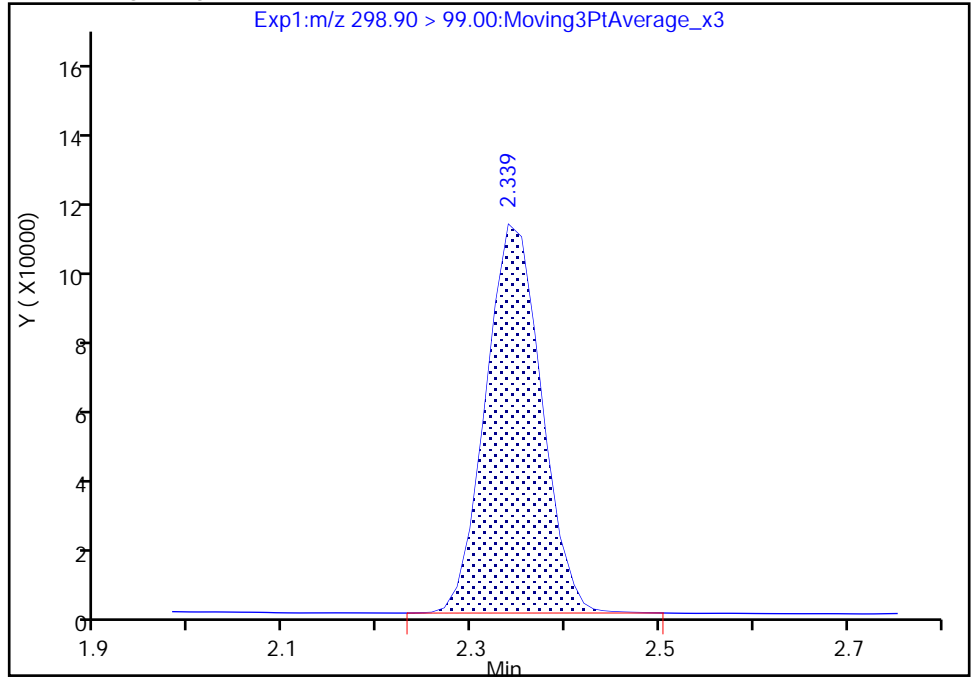
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

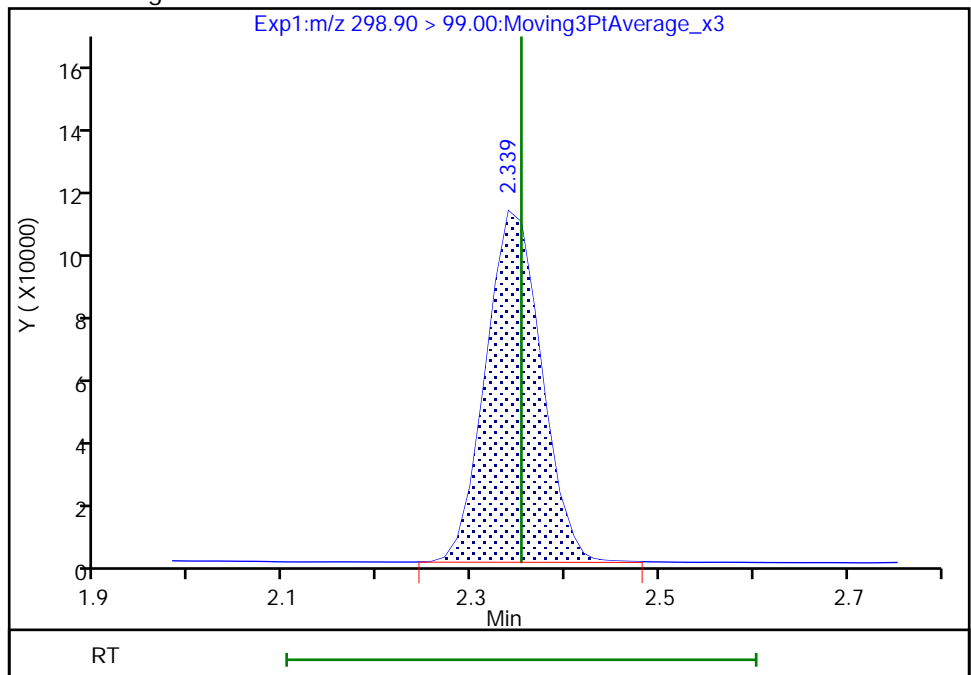
RT: 2.34  
Area: 446995  
Amount: 1.434249  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 448040  
Amount: 1.430132  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:24:34

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

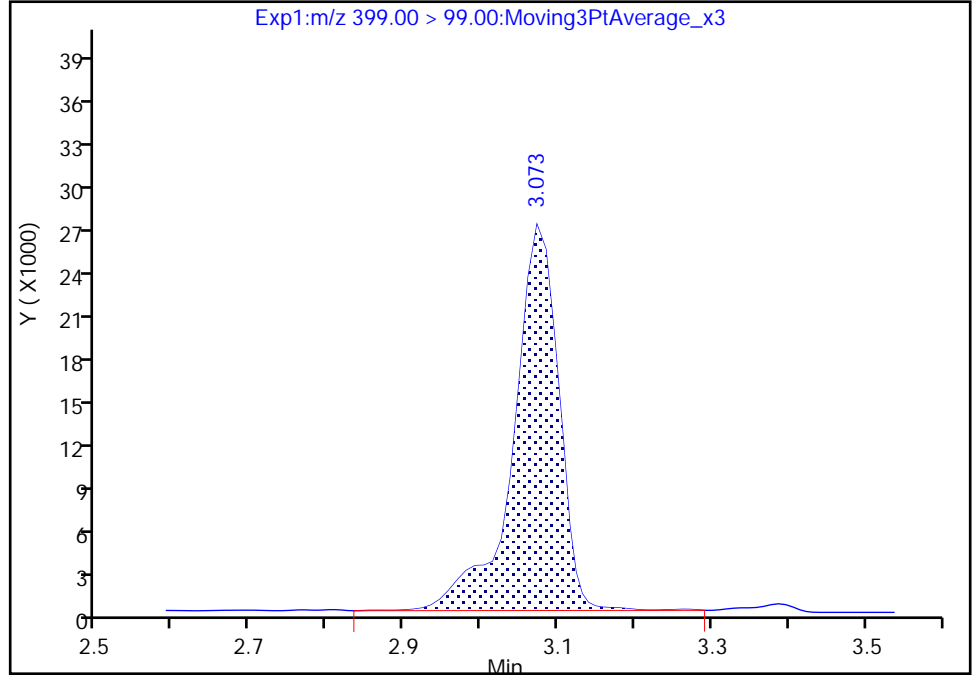
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

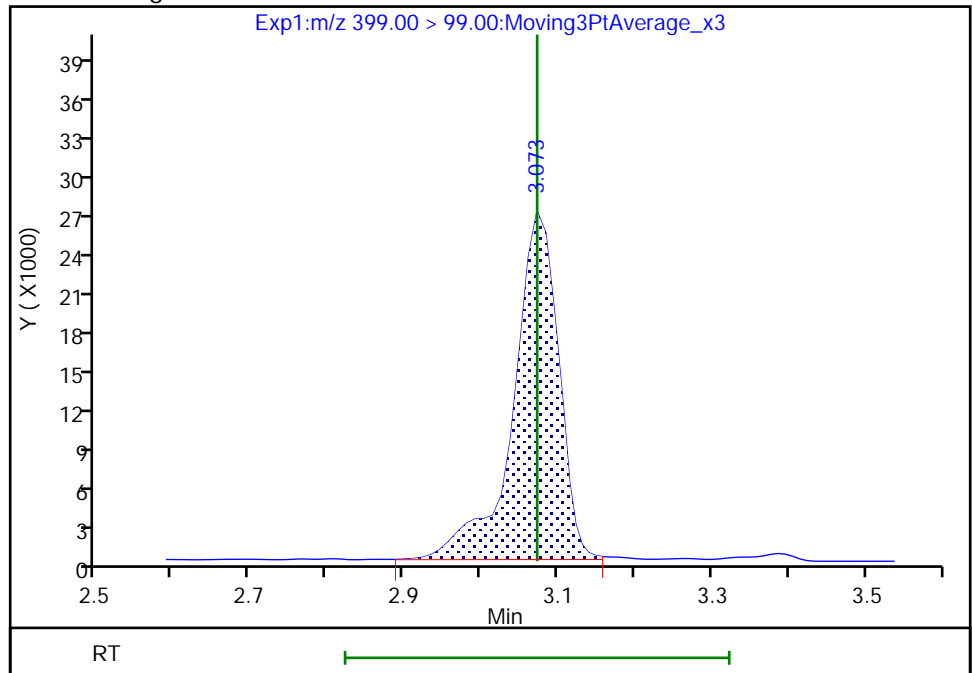
RT: 3.07  
Area: 109980  
Amount: 1.012110  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 109321  
Amount: 0.990569  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:26:47  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

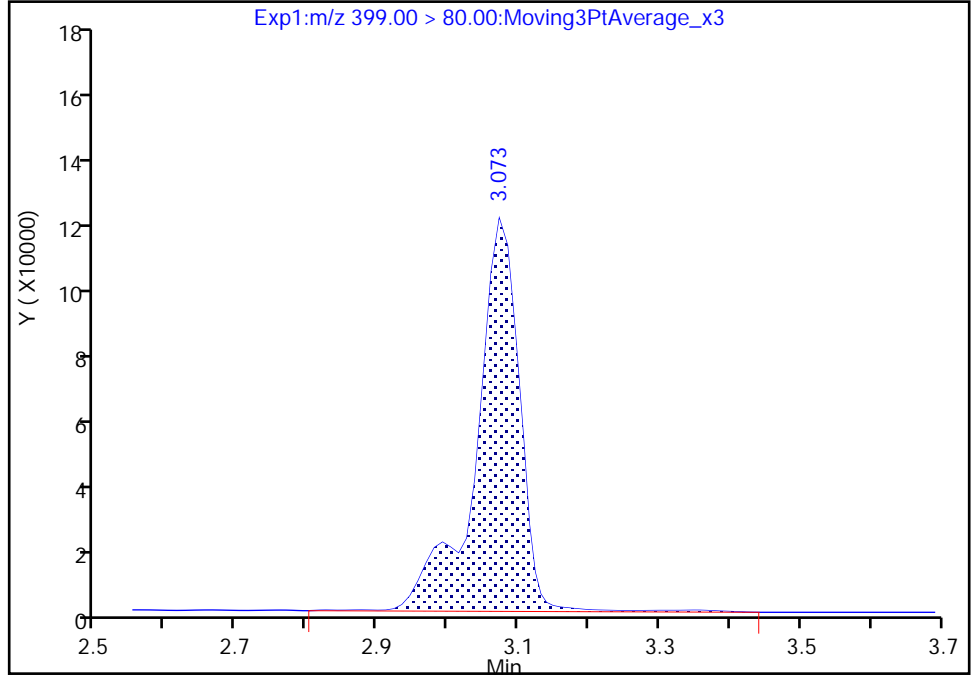
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

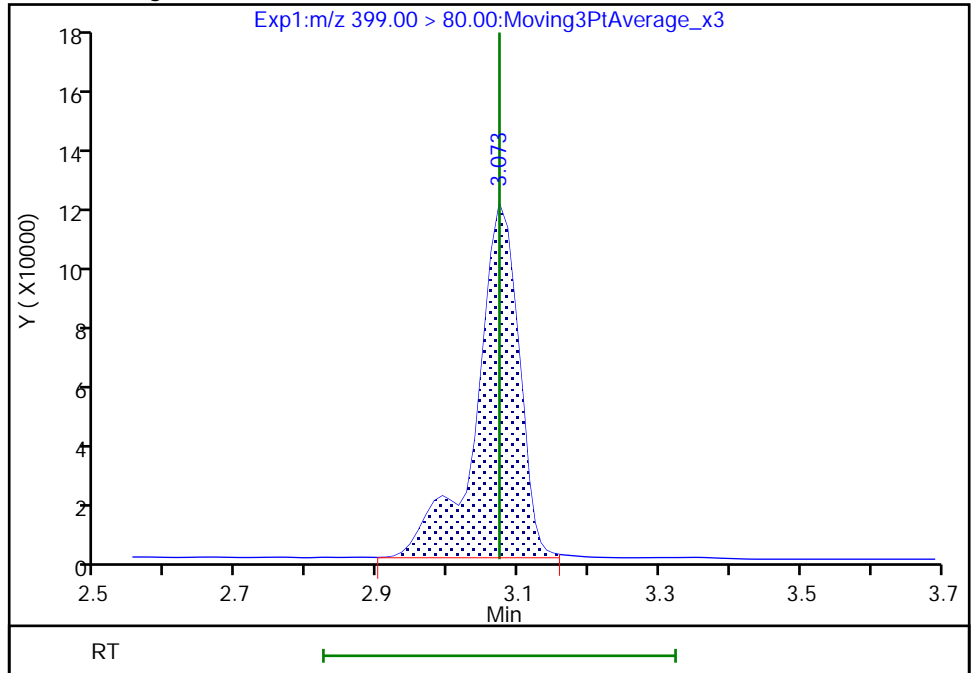
RT: 3.07  
Area: 510359  
Amount: 1.012110  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 499497  
Amount: 0.990569  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:27:12

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

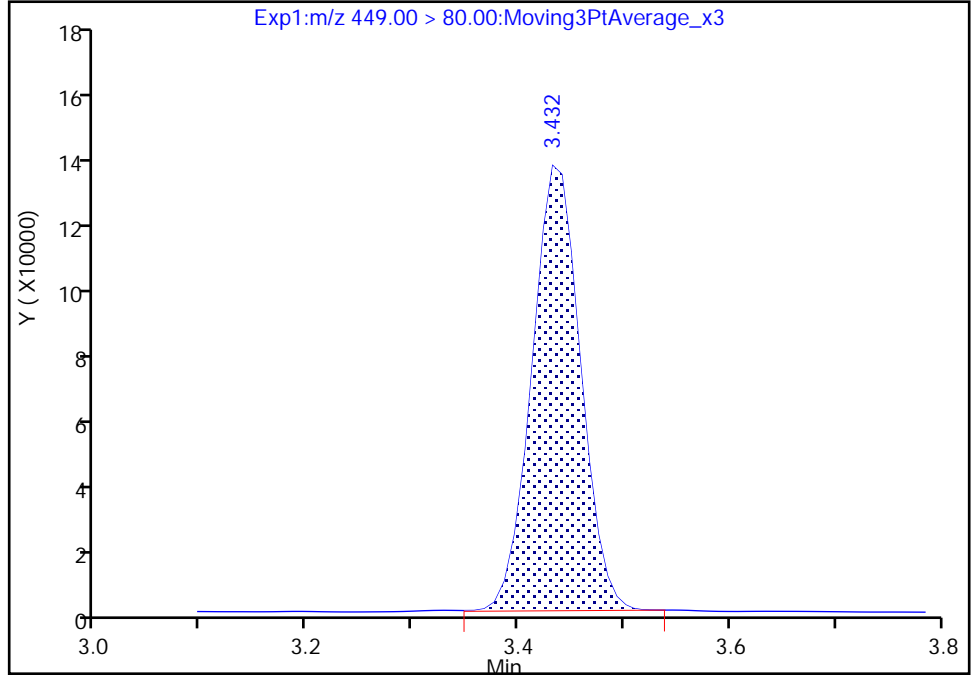
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

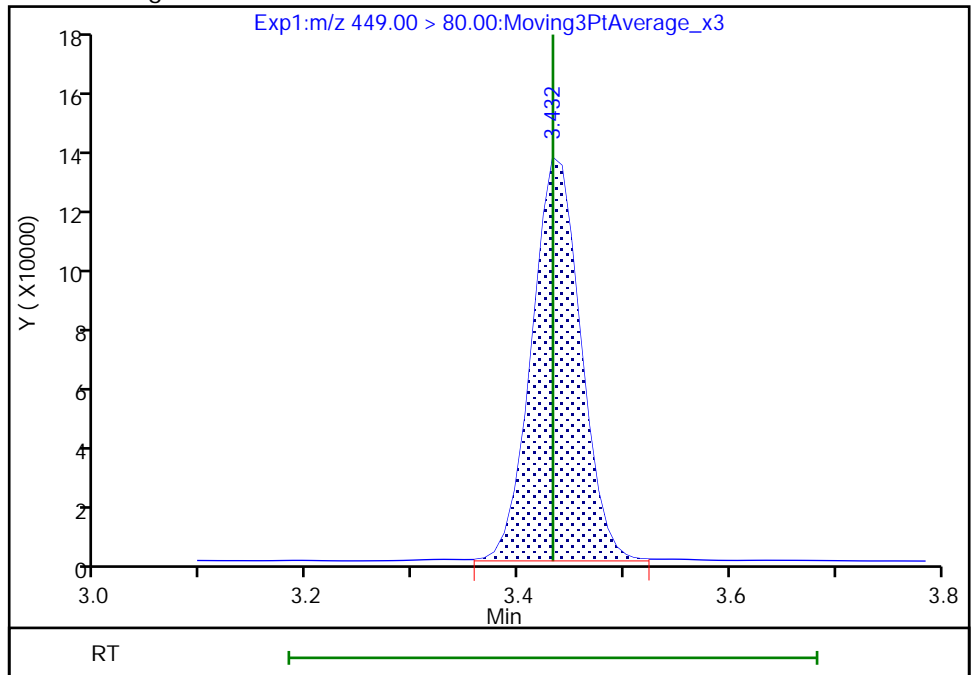
RT: 3.43  
Area: 422009  
Amount: 1.027197  
Amount Units: ng/ml

Processing Integration Results



RT: 3.43  
Area: 425576  
Amount: 1.035879  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:28:20  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

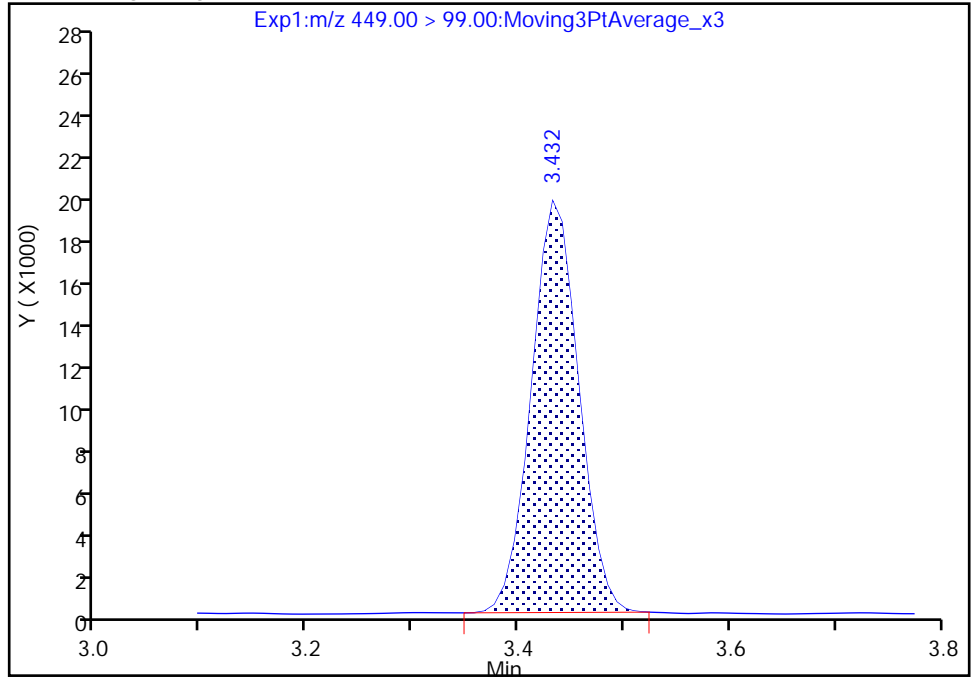
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 2

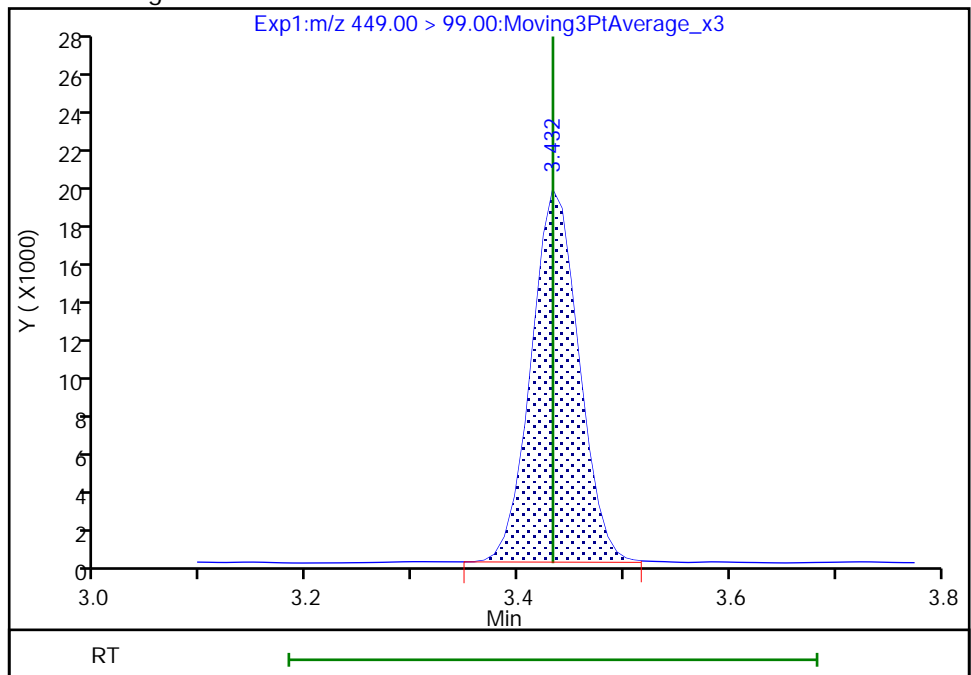
RT: 3.43  
Area: 59985  
Amount: 1.027197  
Amount Units: ng/ml

Processing Integration Results



RT: 3.43  
Area: 60271  
Amount: 1.035879  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:28:27

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

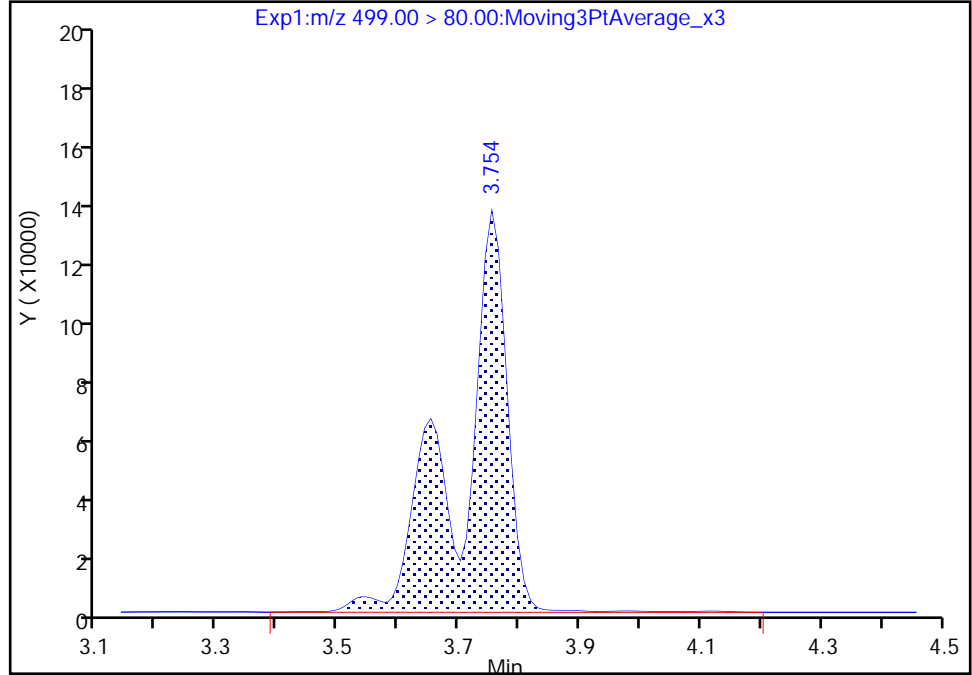
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

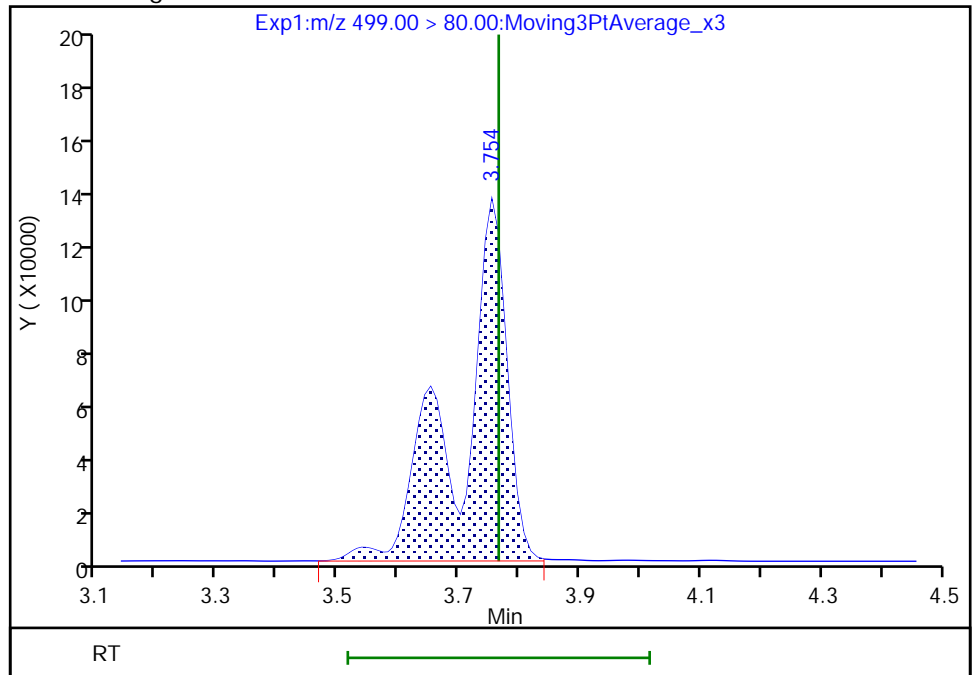
RT: 3.75  
Area: 715313  
Amount: 1.856274  
Amount Units: ng/ml

Processing Integration Results



RT: 3.75  
Area: 707848  
Amount: 1.836902  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:29:35  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

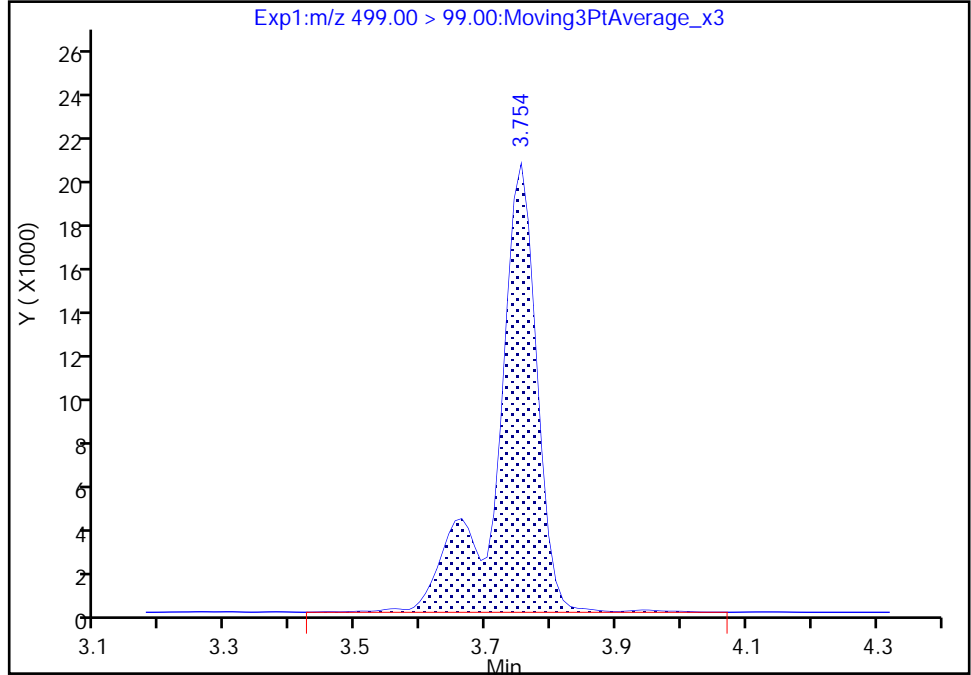
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

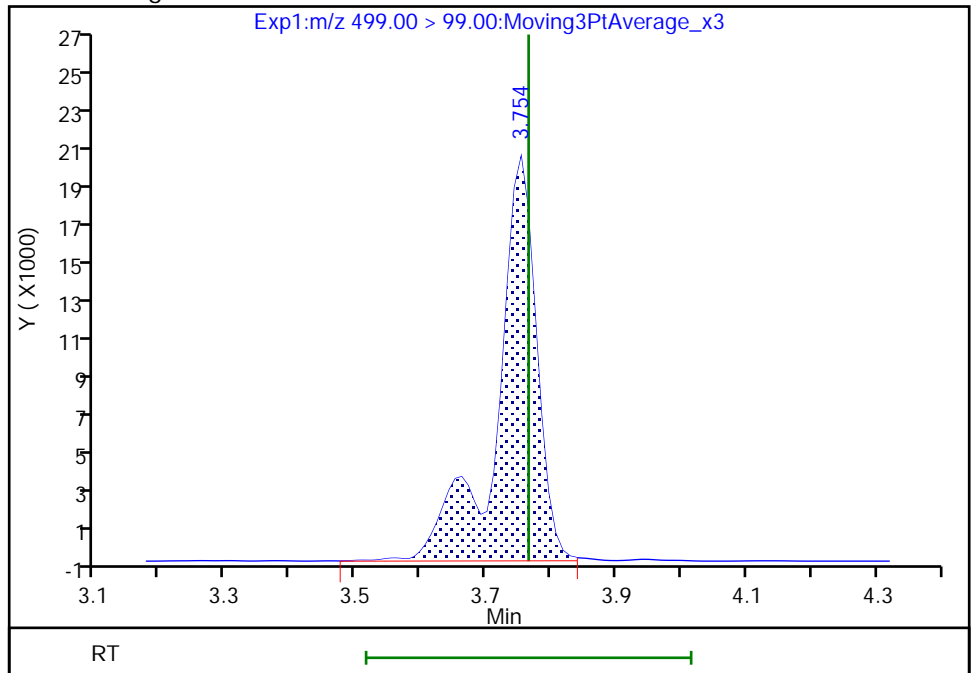
RT: 3.75  
Area: 89486  
Amount: 1.856274  
Amount Units: ng/ml

Processing Integration Results



RT: 3.75  
Area: 88591  
Amount: 1.836902  
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 01-Oct-2020 17:16:24

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

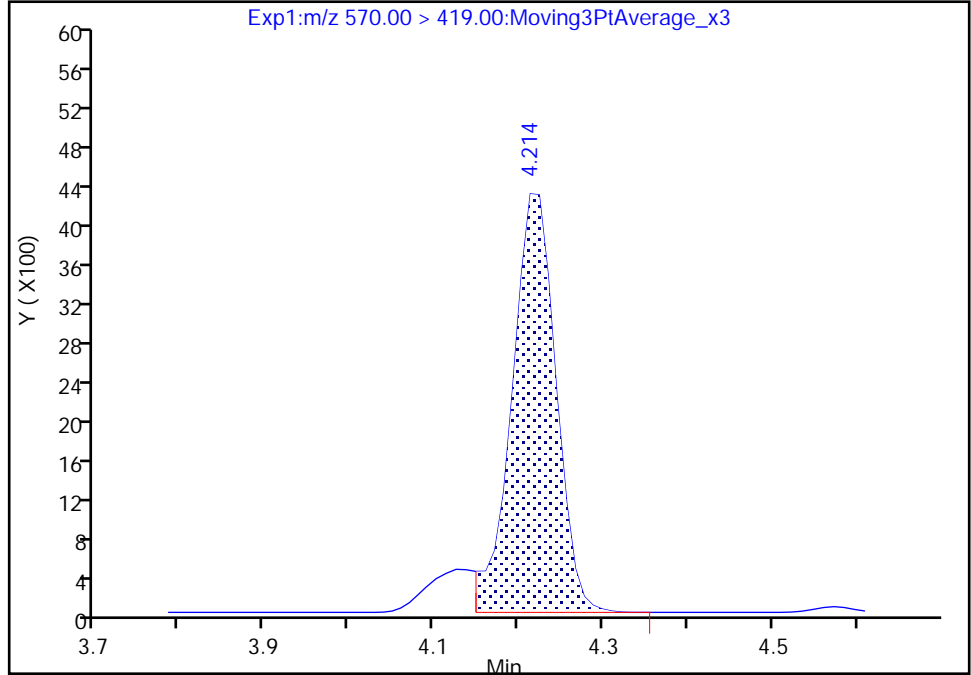
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

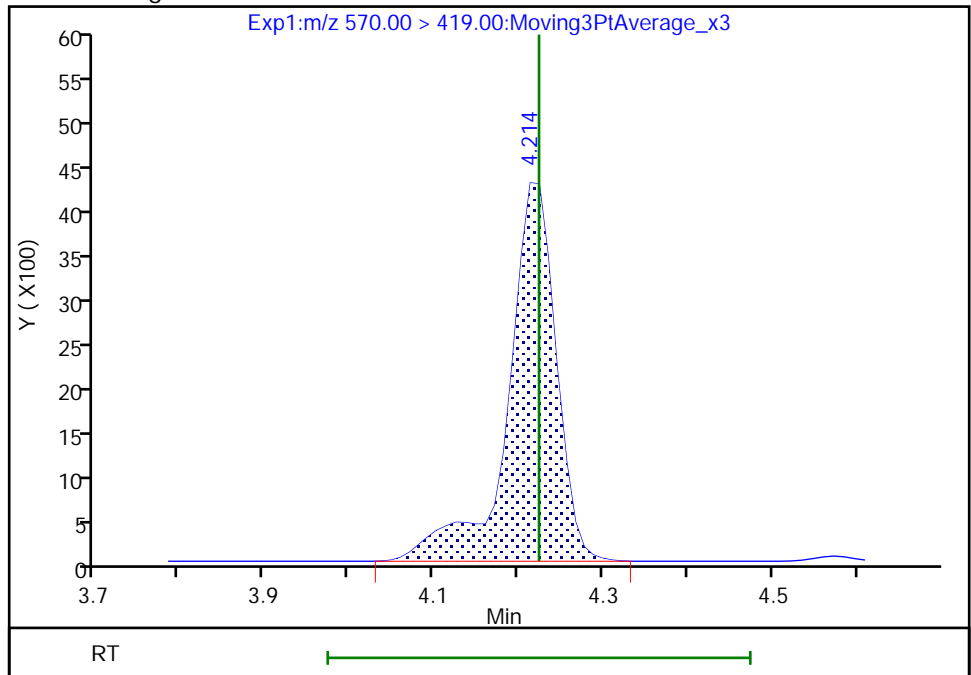
RT: 4.21  
Area: 15535  
Amount: 1.018354  
Amount Units: ng/ml

Processing Integration Results



RT: 4.21  
Area: 17211  
Amount: 1.128220  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:30:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

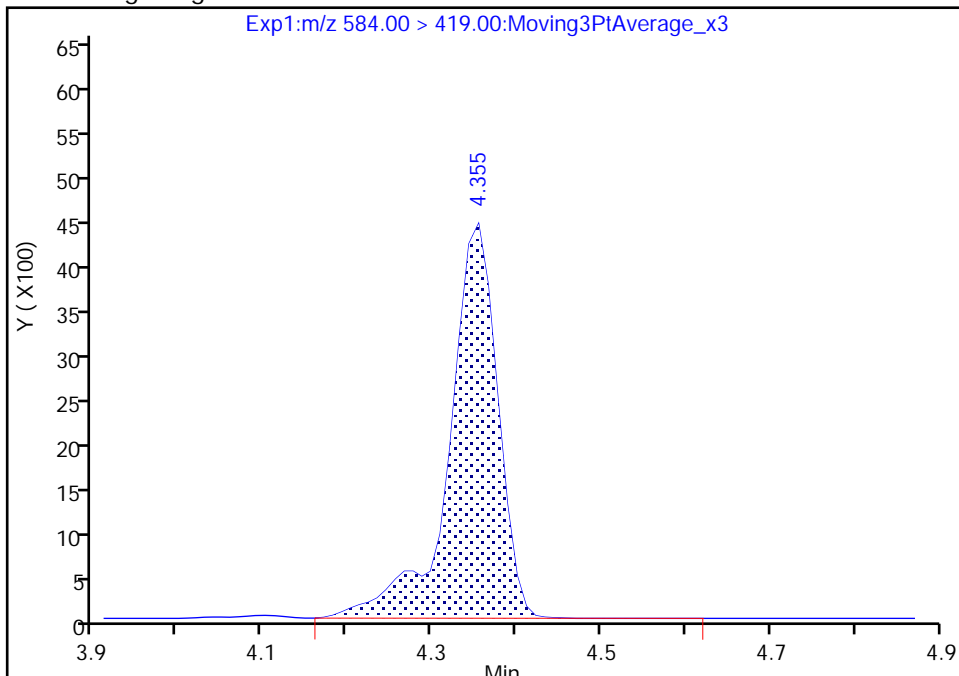
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

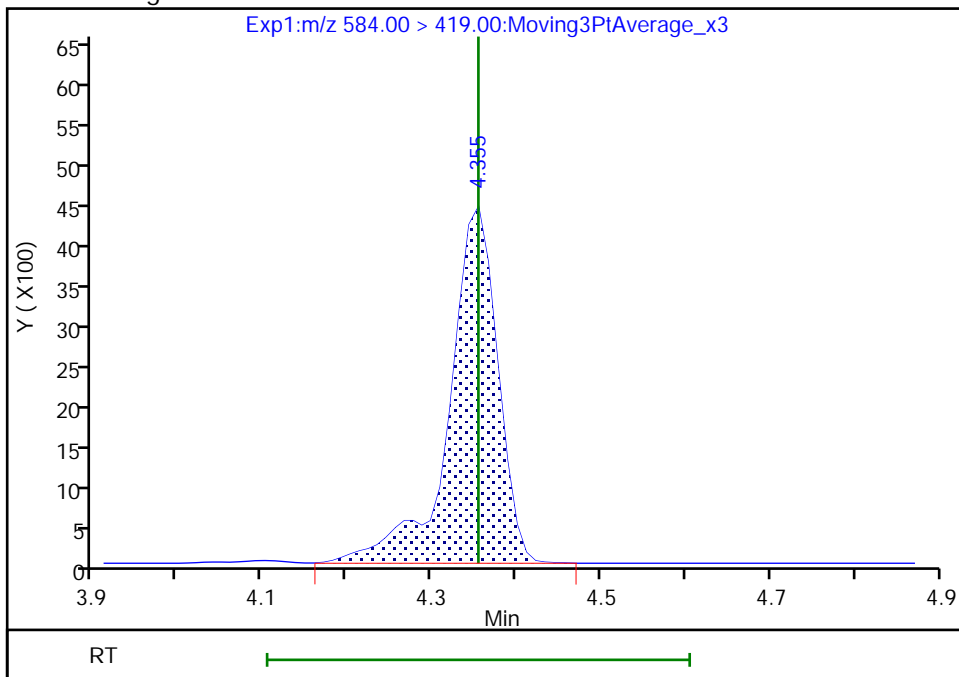
RT: 4.36  
Area: 17931  
Amount: 0.863201  
Amount Units: ng/ml

Processing Integration Results



RT: 4.36  
Area: 17973  
Amount: 0.865223  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:30:49  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

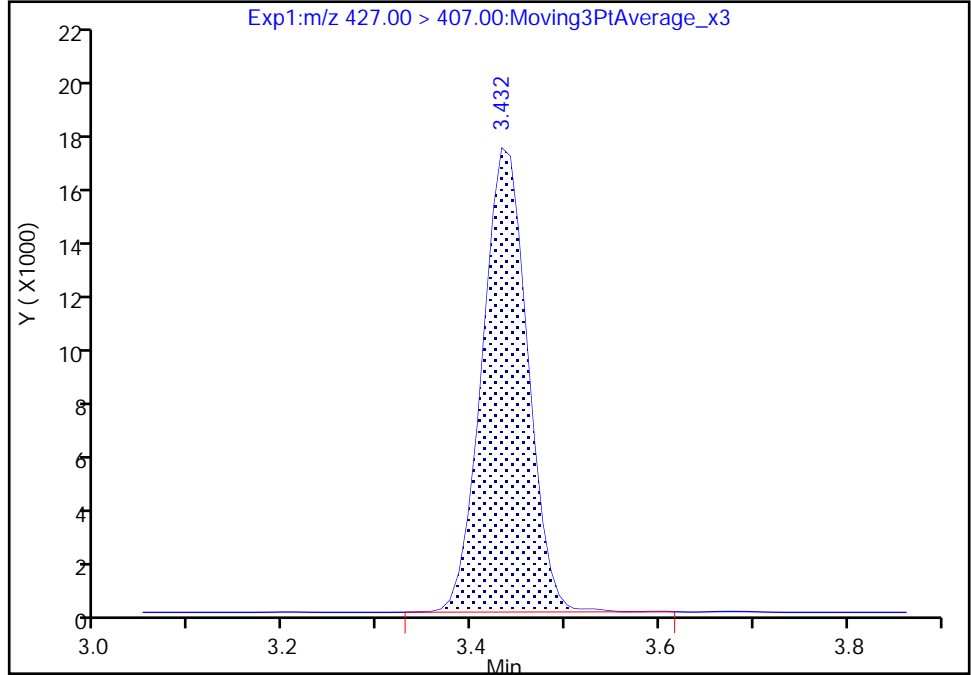
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: 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

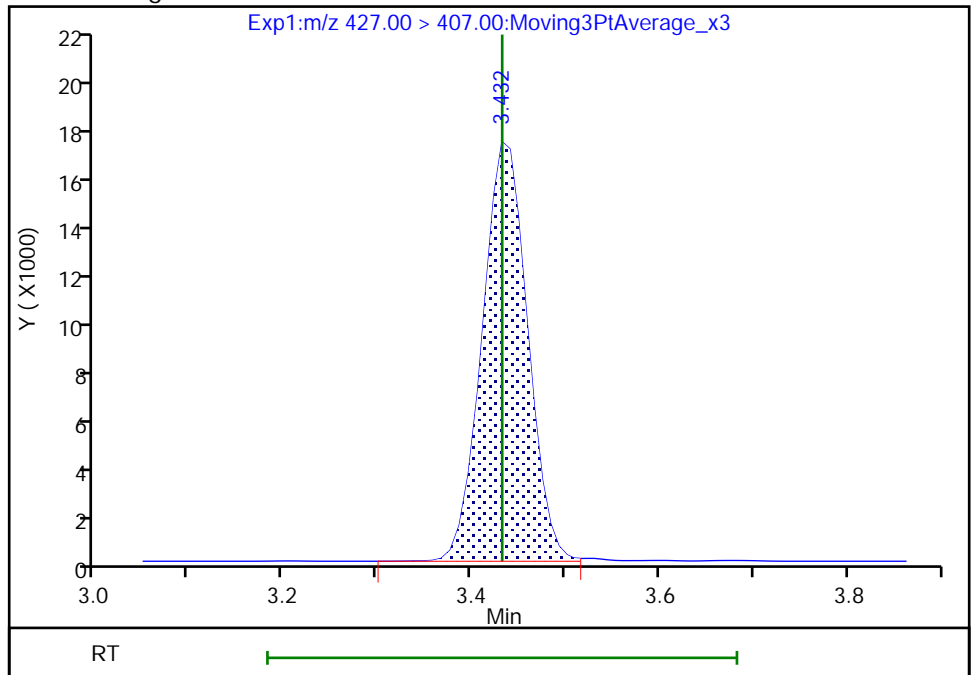
RT: 3.43  
Area: 57573  
Amount: 1.044953  
Amount Units: ng/ml

Processing Integration Results



RT: 3.43  
Area: 57524  
Amount: 1.044064  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:28:37  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

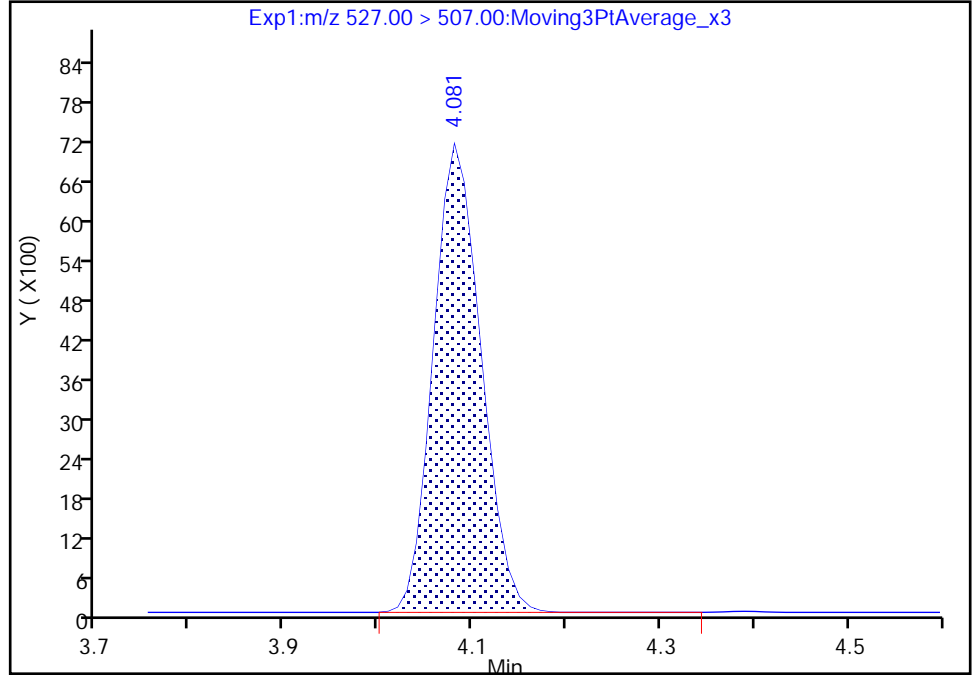
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B23.d  
Injection Date: 30-Sep-2020 21:16:48 Instrument ID: LC812  
Lims ID: 480-175657-C-6-B MS  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 23 Worklist Smp#: 23  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: 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

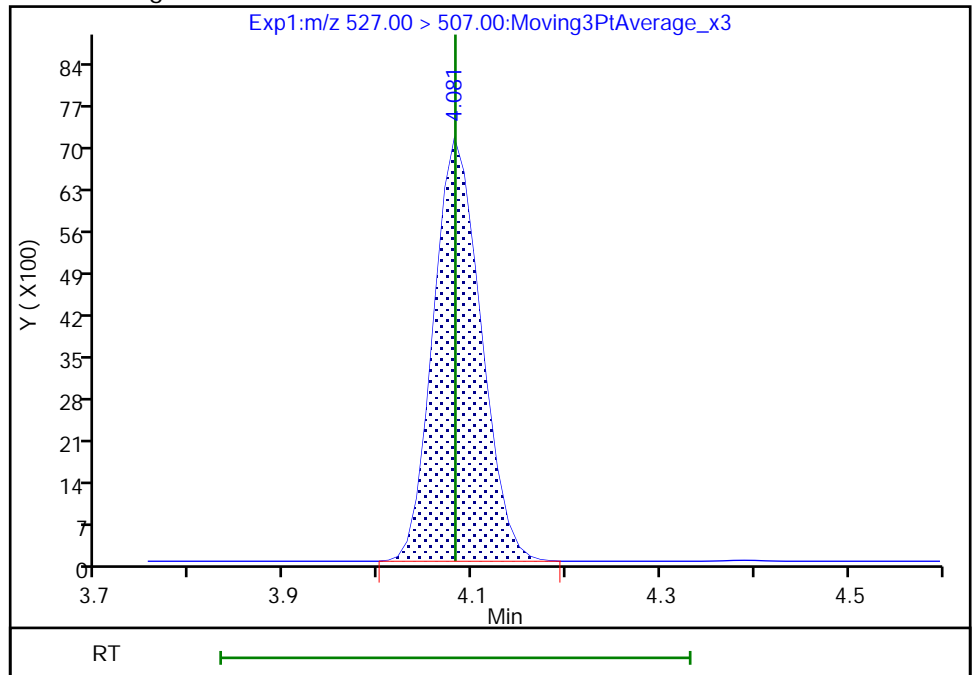
RT: 4.08  
Area: 24913  
Amount: 1.023892  
Amount Units: ng/ml

Processing Integration Results



RT: 4.08  
Area: 24913  
Amount: 1.023892  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:30:15  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B MSD Lab Sample ID: 480-175657-6 MSD  
 Matrix: Water Lab File ID: PA200930B24.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 09:56  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 309.4 (mL) Date Analyzed: 09/30/2020 21:25  
 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.: 159409 Units: ng/L

CAS NO.	COMPOUND NAME	RESULT	Q	RL	MDL
375-22-4	Perfluorobutanoic acid (PFBA)	44.9		4.0	0.91
2706-90-3	Perfluoropentanoic acid (PFPeA)	45.4		1.6	0.87
307-24-4	Perfluorohexanoic acid (PFHxA)	46.1		1.6	0.67
375-85-9	Perfluoroheptanoic acid (PFHpA)	42.1		1.6	0.37
335-67-1	Perfluorooctanoic acid (PFOA)	71.4		1.6	0.79
375-95-1	Perfluorononanoic acid (PFNA)	34.5		1.6	0.47
335-76-2	Perfluorodecanoic acid (PFDA)	33.6		1.6	0.37
2058-94-8	Perfluoroundecanoic acid (PFUnA)	34.9		1.6	0.59
307-55-1	Perfluorododecanoic acid (PFDoA)	32.2		1.6	0.37
72629-94-8	Perfluorotridecanoic acid (PFTriA)	30.7		1.6	0.35
376-06-7	Perfluorotetradecanoic acid (PFTeA)	33.5		1.6	0.48
375-73-5	Perfluorobutanesulfonic acid (PFBS)	49.0		1.6	0.51
355-46-4	Perfluorohexanesulfonic acid (PFHxS)	33.0		1.6	0.54
375-92-8	Perfluoroheptanesulfonic Acid (PFHpS)	33.3		1.6	0.32
1763-23-1	Perfluorooctanesulfonic acid (PFOS)	59.2		1.6	0.70
335-77-3	Perfluorodecanesulfonic acid (PFDS)	29.4		1.6	0.39
754-91-6	Perfluorooctanesulfonamide (PFOSA)	32.7		1.6	0.46
2355-31-9	N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	36.2		4.0	0.64
2991-50-6	N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	32.3		4.0	0.75
27619-97-2	1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	30.5		4.0	0.58
39108-34-4	1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	29.9		1.6	0.53

FORM I  
LCMS ORGANICS ANALYSIS DATA SHEET

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1  
 SDG No.: \_\_\_\_\_  
 Client Sample ID: MW-5B MSD Lab Sample ID: 480-175657-6 MSD  
 Matrix: Water Lab File ID: PA200930B24.d  
 Analysis Method: 537 (modified) Date Collected: 09/24/2020 09:56  
 Extraction Method: 3535 Date Extracted: 09/30/2020 13:06  
 Sample wt/vol: 309.4 (mL) Date Analyzed: 09/30/2020 21:25  
 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.: 159409 Units: ng/L

CAS NO.	ISOTOPE DILUTION	%REC	Q	LIMITS
STL00994	18O2 PFHxS	98		50-150
STL01892	13C4 PFHpA	100		50-150
STL00990	13C4 PFOA	96		50-150
STL00991	13C4 PFOS	88		50-150
STL00995	13C5 PFNA	95		50-150
STL00992	13C4 PFBA	86		25-150
STL00993	13C2 PFHxA	97		50-150
STL00996	13C2 PFDA	86		50-150
STL00997	13C2 PFUnA	81		50-150
STL00998	13C2 PFDoA	80		50-150
STL01056	13C8 FOSA	55		25-150
STL01893	13C5 PFPeA	94		25-150
STL02116	13C2 PFTeDA	69		50-150
STL02118	d3-NMeFOSAA	72		50-150
STL02117	d5-NEtFOSAA	74		50-150
STL02279	M2-6:2 FTS	113		25-150
STL02280	M2-8:2 FTS	92		25-150
STL02337	13C3 PFBS	92		50-150

Eurofins TestAmerica, Burlington  
Target Compound Quantitation Report

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
 Lims ID: 480-175657-C-6-C MSD  
 Client ID: MW-5B  
 Sample Type: MSD  
 Inject. Date: 30-Sep-2020 21:25:04 ALS Bottle#: 24 Worklist Smp#: 24  
 Injection Vol: 20.0 ul Dil. Factor: 1.0000  
 Sample Info: 480-175657-C-6-C MSD  
 Misc. Info.: 200-0043035-024 Plate: 1 Rack: 2  
 Operator ID: lc812tech Instrument ID: LC812  
 Method: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PFC\_LC812.m  
 Limit Group: LC\_PFC\_ICAL  
 Last Update: 01-Oct-2020 17:23:52 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: CTX1010

First Level Reviewer: manopan Date: 01-Oct-2020 15:37:39  
 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	1.990	-0.009	0.574	815359	1.07	85.5	11627	
2 Perfluorobutanoic acid										M
212.90 > 169.00	1.981	1.990	-0.009	1.000	847060	1.39		139	235	M
D 3 13C5 PFPeA	267.90 > 223.00	2.326	2.326	0.0	0.674	640672	1.17	93.8	1436	
4 Perfluoropentanoic acid	262.90 > 219.00	2.326	2.326	0.0	1.000	760587	1.41	141	30.2	
D 47 13C3 PFBS	301.90 > 80.00	2.339	2.339	0.0	0.678	713375	1.07	92.2	27568	M
5 Perfluorobutanesulfonic acid										M
298.90 > 80.00	2.339	2.353	-0.014	1.000	926377	1.52	Target=2.07	171	87.8	M
298.90 > 99.00	2.339	2.353	-0.014	1.000	468271		1.98(1.04-3.11)		179	M
D 60 M2-4:2 FTS	329.00 > 81.00	2.653	2.665	-0.012	0.769	59954	1.20	103	12.7	M
61 1H,1H,2H,2H-perfluorohexanesulfo	327.00 > 307.00	2.653	2.665	-0.012	1.000	82640	1.00	107	950	
D 7 13C2 PFHxA	315.00 > 270.00	2.691	2.703	-0.012	0.780	683235	1.21	97.1	3410	
6 Perfluorohexanoic acid	313.00 > 269.00	2.691	2.703	-0.012	1.000	784464	1.43	Target=12.44	143	81.0
313.00 > 119.00	2.691	2.703	-0.012	1.000	68351		11.48(6.22-18.66)		92.2	
70 Perfluoropentanesulfonic acid	349.00 > 80.00	2.703	2.703	0.0	0.880	565859	1.02	Target=3.64	109	173
349.00 > 99.00	2.703	2.703	0.0	0.880	161516		3.50(1.82-5.46)		163	
D 64 13C3 HFPO-DA	332.10 > 287.00	2.802	2.810	-0.008	0.812	66015	1.26	101	691	

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	1.003	109831	0.9774		97.7	29.2	M
D 11 18O2 PFHxS										
403.00 > 84.00	3.073	3.073	0.0	0.891	552868	1.16		97.9	4458	
8 Perfluorohexanesulfonic acid										M
399.00 > 80.00	3.073	3.073	0.0	1.000	527068	1.02	Target=4.60	112	223	M
399.00 > 99.00	3.073	3.073	0.0	1.000	111384		4.73(2.30-6.91)		150	M
D 9 13C4 PFHpA										
367.00 > 322.00	3.084	3.084	0.0	0.894	641282	1.25		100	2651	
10 Perfluoroheptanoic acid										M
363.00 > 319.00	3.084	3.084	0.0	1.000	669340	1.30	Target=3.34	130	109	M
363.00 > 169.00	3.084	3.084	0.0	1.000	205306		3.26(1.67-5.01)		282	M
77 DONA										
377.00 > 251.00	3.115	3.115	0.0	0.828	1064762	1.00	Target=2.44	106	1680	
377.00 > 85.00	3.115	3.115	0.0	0.828	445872		2.39(1.22-3.67)		714	
16 Perfluoroheptanesulfonic acid										M
449.00 > 80.00	3.432	3.433	0.0	0.912	412302	1.03	Target=7.08	108	468	M
449.00 > 99.00	3.432	3.433	0.0	0.912	60387		6.83(3.54-10.63)		366	
13 1H,1H,2H,2H-perfluorooctanesulfo										
427.00 > 407.00	3.432	3.433	0.0	1.000	54512	0.9432		99.5	1021	
D 12 M2-6:2 FTS										
429.00 > 81.00	3.432	3.433	0.0	0.995	85998	1.35		113	171	
D 14 13C4 PFOA										
417.00 > 372.00	3.450	3.441	0.009	1.000	628343	1.20		96.0	4790	
* 62 13C2 PFOA										
415.00 > 370.00	3.450	3.450	0.0		665187	1.25			4866	
15 Perfluorooctanoic acid										M
413.00 > 369.00	3.450	3.450	0.0	1.000	1146449	2.21	Target=2.29	221	326	M
413.00 > 169.00	3.450	3.450	0.0	1.000	540410		2.12(1.14-3.43)		1095	M
D 18 13C4 PFOS										
503.00 > 80.00	3.765	3.765	0.0	1.091	412610	1.06		88.4	961	
17 Perfluorooctanesulfonic acid										M
499.00 > 80.00	3.765	3.765	0.0	1.000	687248	1.83	Target=7.10	197	703	M
499.00 > 99.00	3.765	3.765	0.0	1.000	87158		7.89(3.55-10.64)		529	M
D 19 13C5 PFNA										
468.00 > 423.00	3.785	3.776	0.009	1.097	525125	1.19		95.2	4653	
20 Perfluorononanoic acid										M
463.00 > 419.00	3.785	3.786	-0.001	1.000	456751	1.07	Target=5.83	107	179	M
463.00 > 169.00	3.785	3.786	-0.001	1.000	74992		6.09(2.91-8.74)		546	M
69 9-Chlorohexadecafluoro-3-oxanona										M
531.00 > 351.00	3.921	3.922	-0.001	1.042	309549	0.9374		101	2363	M
68 Perfluorononanesulfonic acid										
549.00 > 80.00	4.051	4.052	-0.001	1.076	288444	0.9727	Target=3.38	101	1106	
549.00 > 99.00	4.051	4.052	-0.001	1.076	82489		3.50(1.69-5.08)		501	
D 23 13C2 PFDA										
515.00 > 470.00	4.081	4.072	0.009	1.183	453383	1.07		85.7	2405	

Signal	RT	EXP RT	DLT RT	REL RT	Response	Amount ng/ml	Ratio(Limits)	%Rec	S/N	Flags
24 Perfluorodecanoic acid										
513.00 > 469.00	4.081	4.082	-0.001	1.000	373492	1.04	Target=6.81	104	577	
513.00 > 169.00	4.081	4.082	-0.001	1.000	55039		6.79(3.41-10.22)		558	
25 1H,1H,2H,2H-perfluorodecanesulfo										
527.00 > 507.00	4.091	4.082	0.009	1.000	25290	0.9252		96.6	421	M
D 26 M2-8:2 FTS										
529.00 > 81.00	4.091	4.092	-0.001	1.186	82689	1.10		91.9	443	
D 21 13C8 FOSA										
506.00 > 78.00	4.138	4.139	-0.001	1.199	472781	0.6930		55.4	3938	
22 Perfluorooctanesulfonamide										
498.00 > 78.00	4.138	4.139	-0.001	1.000	357976	1.01		101	718	M
D 27 d3-NMeFOSAA										
573.00 > 419.00	4.225	4.214	0.011	1.225	21732	0.9016		72.1	182	
28 N-methylperfluorooctanesulfonami										
570.00 > 419.00	4.225	4.224	0.001	1.000	18385	1.12		112	322	M
29 Perfluorodecanesulfonic acid										
599.00 > 80.00	4.310	4.309	0.001	1.145	225468	0.9088	Target=3.31	94.3	1542	
599.00 > 99.00	4.310	4.309	0.001	1.145	69999		3.22(1.66-4.97)		658	
D 30 13C2 PFUnA										
565.00 > 520.00	4.344	4.343	0.001	1.259	322292	1.01		80.7	3233	
31 Perfluoroundecanoic acid										
563.00 > 519.00	4.344	4.343	0.001	1.000	274751	1.08	Target=6.57	108	409	
563.00 > 169.00	4.344	4.343	0.001	1.000	41696		6.59(3.28-9.85)		1041	
D 32 d5-NEtFOSAA										
589.00 > 419.00	4.355	4.355	0.0	1.262	24019	0.9270		74.2	496	
33 N-ethylperfluorooctanesulfonamid										
584.00 > 419.00	4.355	4.355	0.0	1.000	17578	1.00		99.9		M
66 11-Chloroeicosafuoro-3-oxaundec										
631.00 > 451.00	4.434	4.433	0.001	1.178	242106	0.8500		90.2	3411	M
D 36 13C2 PFDaA										
615.00 > 570.00	4.573	4.573	0.0	1.326	335681	0.99		79.5	2766	
37 Perfluorododecanoic acid										
613.00 > 569.00	4.573	4.573	0.0	1.000	260630	1.00	Target=5.16	99.5	502	
613.00 > 169.00	4.573	4.573	0.0	1.000	55582		4.69(2.58-7.75)		1191	
74 1H,1H,2H,2H-perfluorododecanesul										
627.00 > 607.00	4.586	4.585	0.001	1.121	13880	0.9139		94.8	416	
75 Perfluorododecanesulfonic acid (										
699.00 > 80.00	4.745	4.736	0.009	1.260	65343	0.8207	Target=0.45	84.8	508	
699.00 > 99.00	4.745	4.736	0.009	1.260	140337		0.47(0.22-0.67)		1801	
41 Perfluorotridecanoic acid										
663.00 > 619.00	4.781	4.772	0.009	1.045	211329	0.9502	Target=3.30	95.0	272	M
663.00 > 169.00	4.781	4.772	0.009	1.045	66147		3.19(1.65-4.95)		1434	M
D 43 13C2 PFTeDA										
715.00 > 670.00	4.969	4.969	0.0	1.440	207827	0.8637		69.1	3980	
42 Perfluorotetradecanoic acid										
713.00 > 169.00	4.969	4.969	0.0	1.000	39428	1.04	Target=1.06	104	1764	
713.00 > 219.00	4.969	4.969	0.0	1.000	38740		1.02(0.53-1.59)		1237	

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	5.329	0.011	1.548	193860	0.7109		56.9	3152	
45 Perfluorohexadecanoic acid										
813.00 > 769.00	5.340	5.329	0.011	1.000	152154	1.11	Target=3.06	111	143	
813.00 > 169.00	5.340	5.329	0.011	1.000	51422		2.96(1.53-4.58)		2377	
46 Perfluorooctadecanoic acid										
913.00 > 869.00	5.703	5.694	0.009	1.068	102492	0.8843	Target=2.82	88.4	224	
913.00 > 169.00	5.694	5.694	0.0	1.066	37165		2.76(1.41-4.24)		611	

**QC Flag Legend**

Processing Flags

Review Flags

M - Manually Integrated

Eurofins TestAmerica, Burlington

Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d

Injection Date: 30-Sep-2020 21:25:04

Instrument ID: LC812

Lims ID: 480-175657-C-6-C MSD

Client ID: MW-5B

Operator ID: lc812tech

ALS Bottle#: 24

Worklist Smp#: 24

Injection Vol: 20.0 ul

Dil. Factor: 1.0000

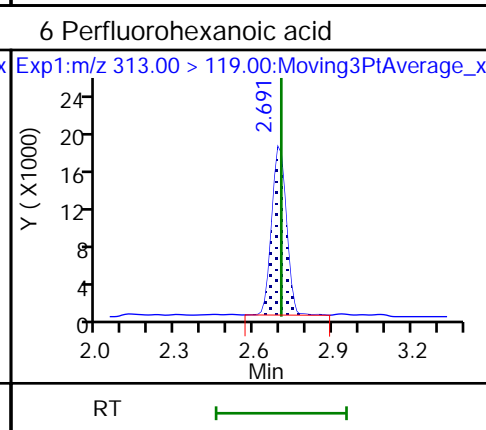
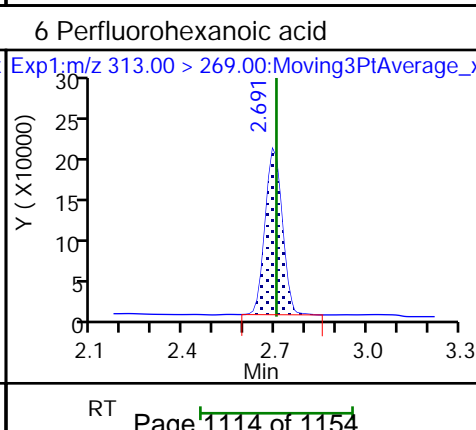
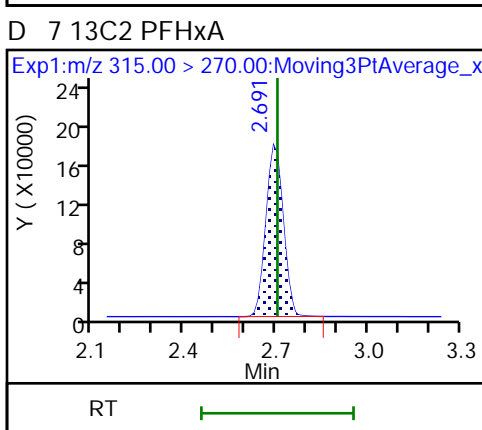
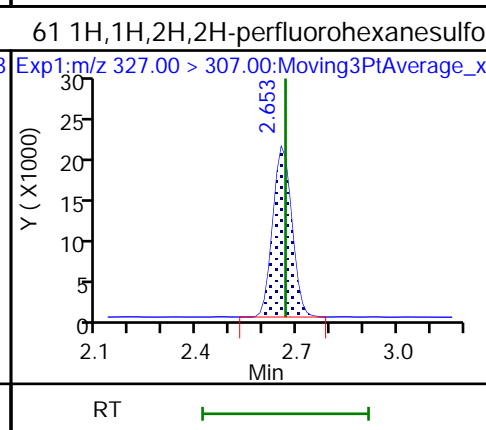
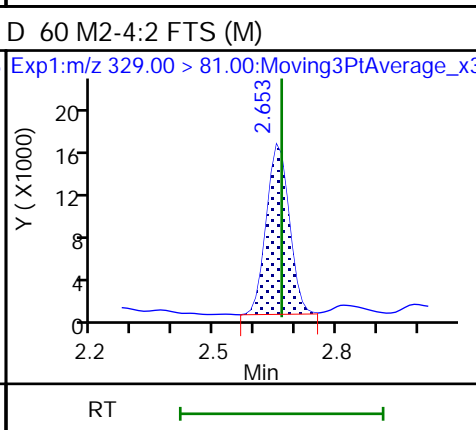
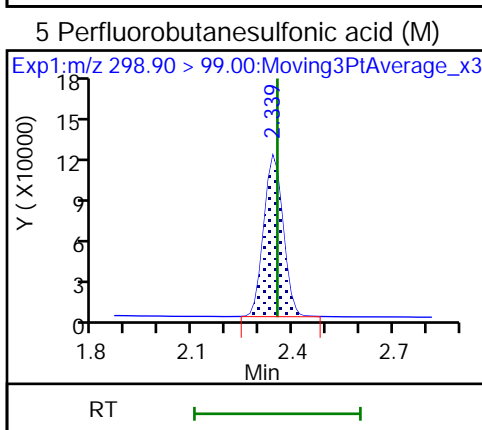
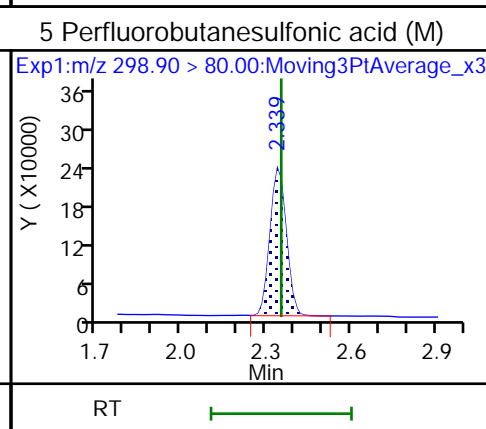
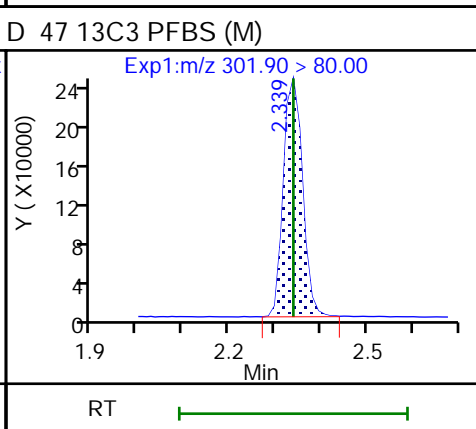
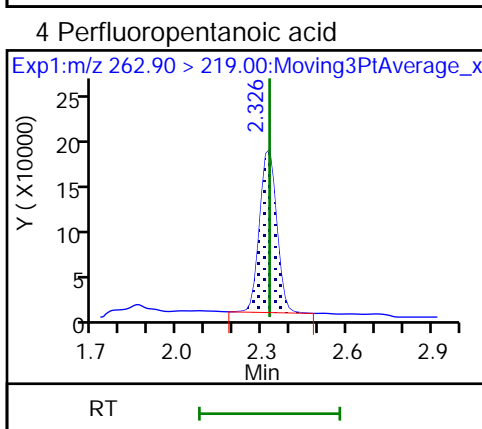
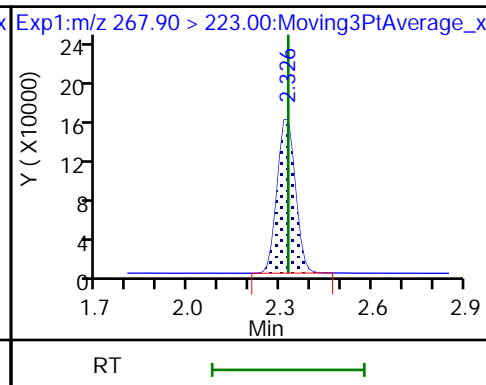
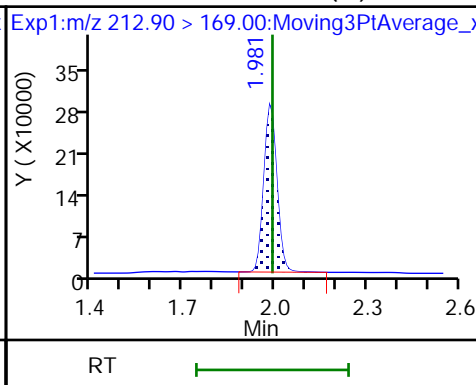
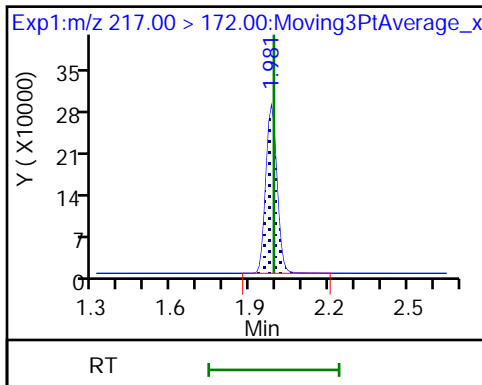
Method: PFC\_LC812

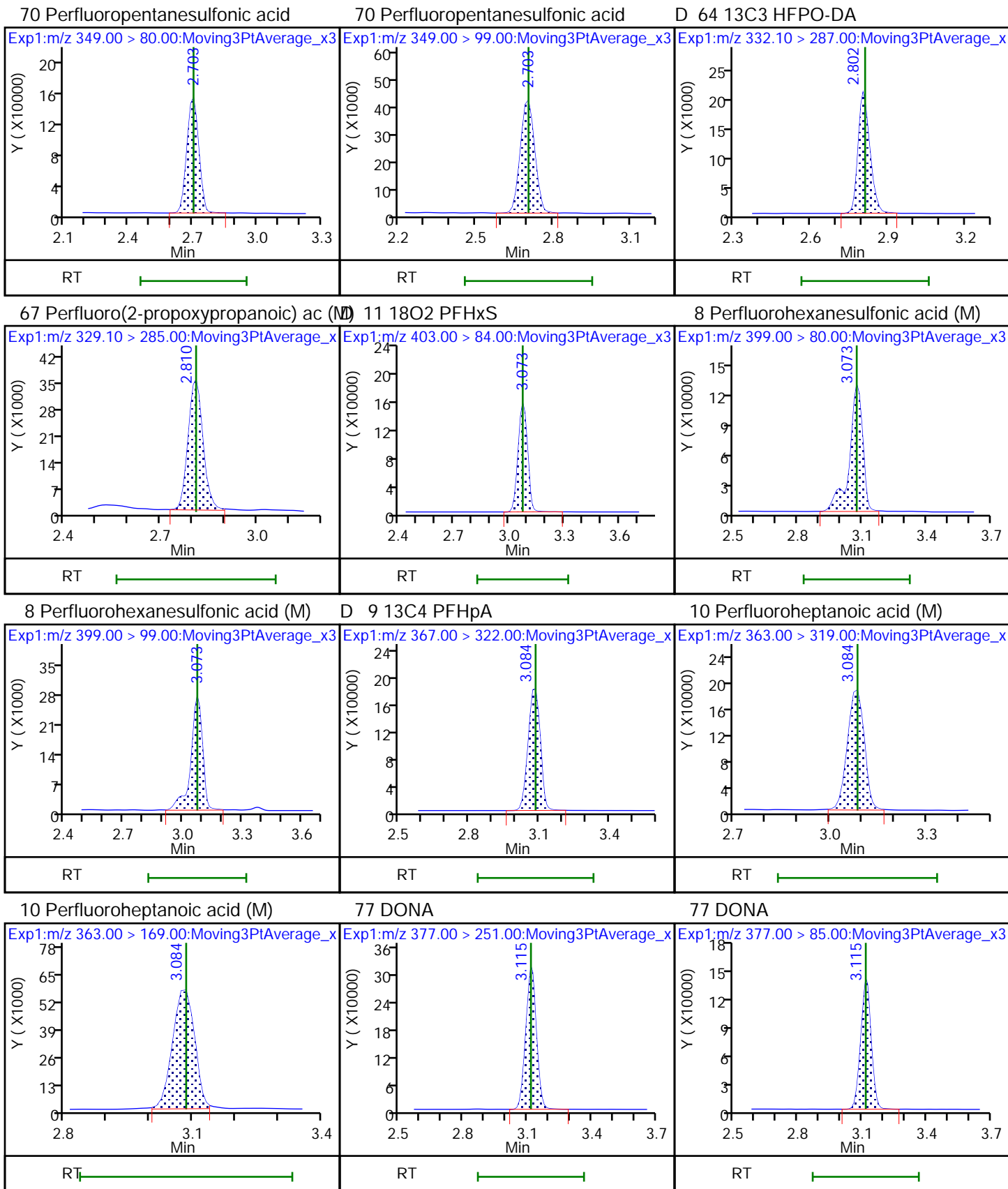
Limit Group: LC\_PFC\_ICAL

D 1 13C4 PFBA

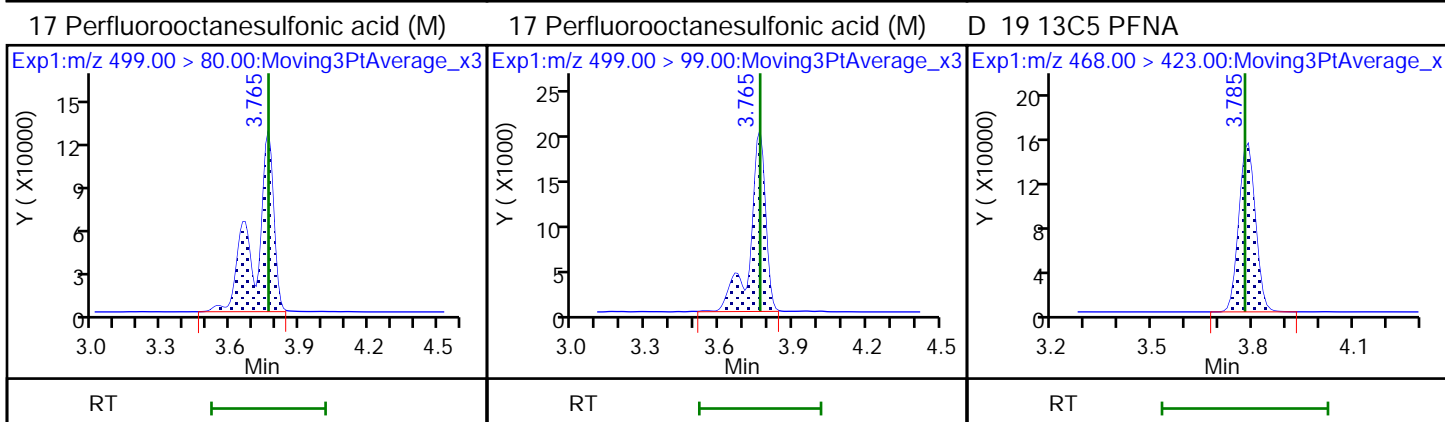
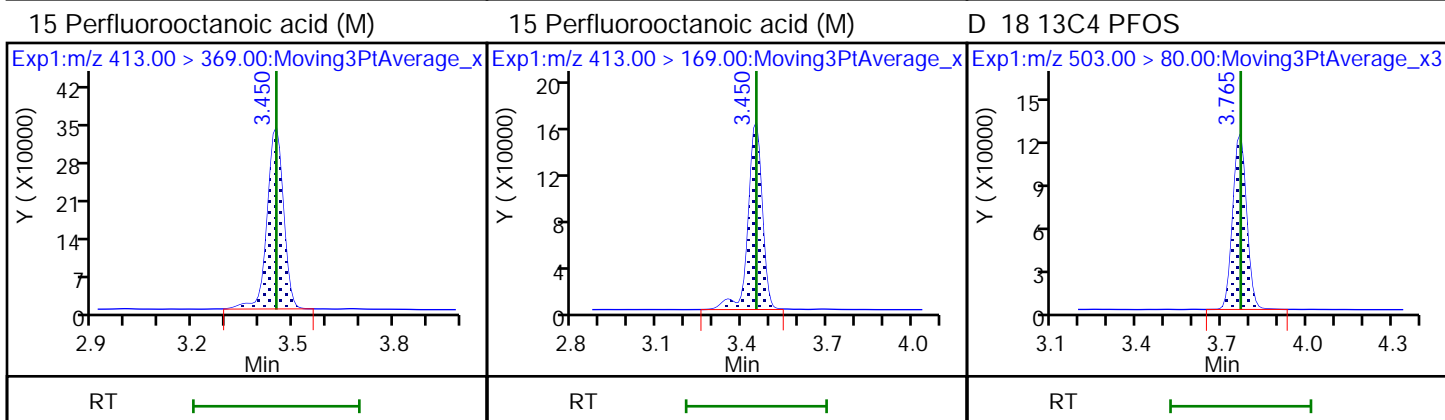
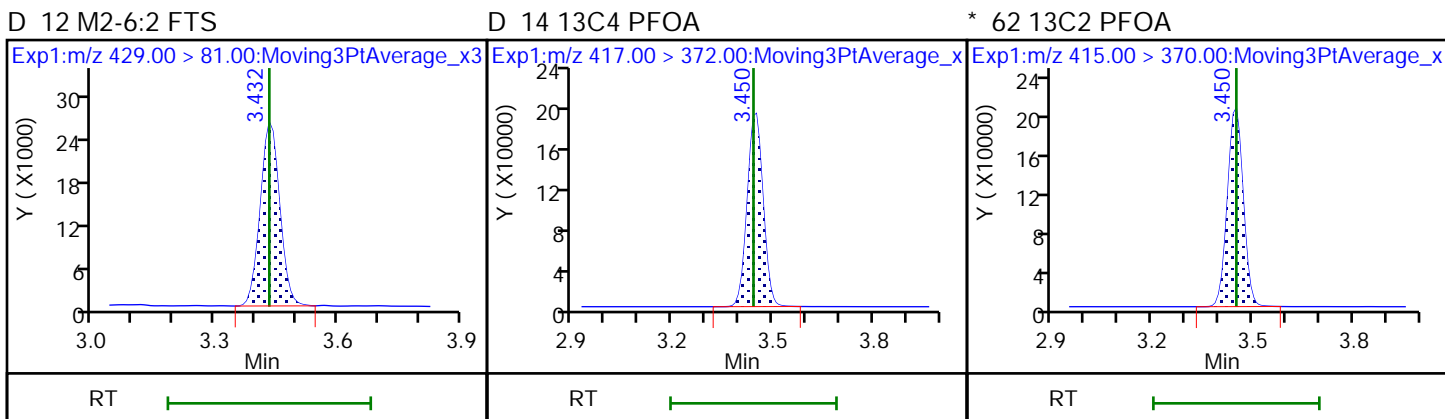
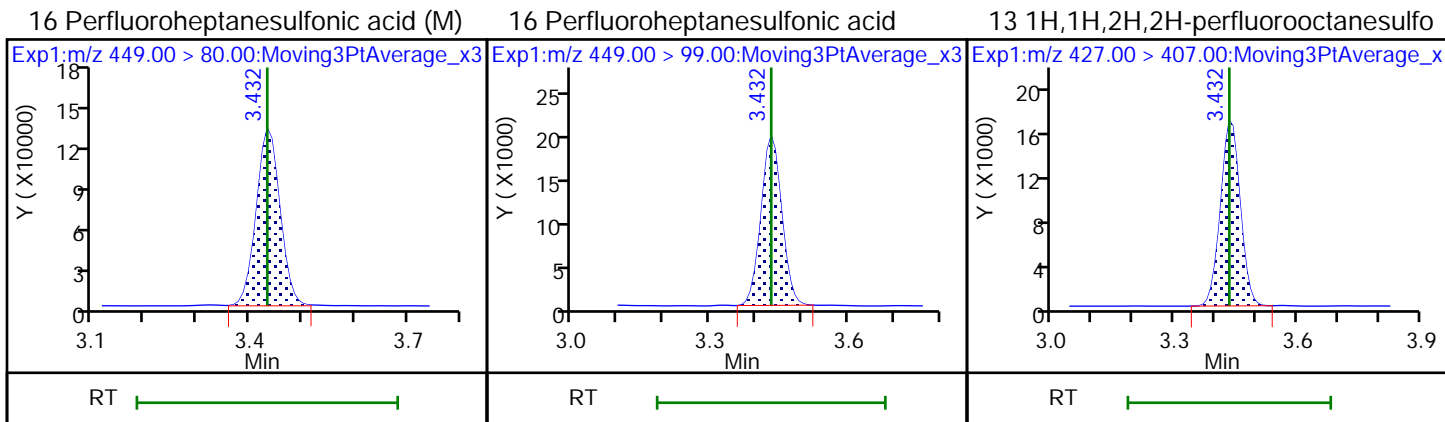
2 Perfluorobutanoic acid (M)

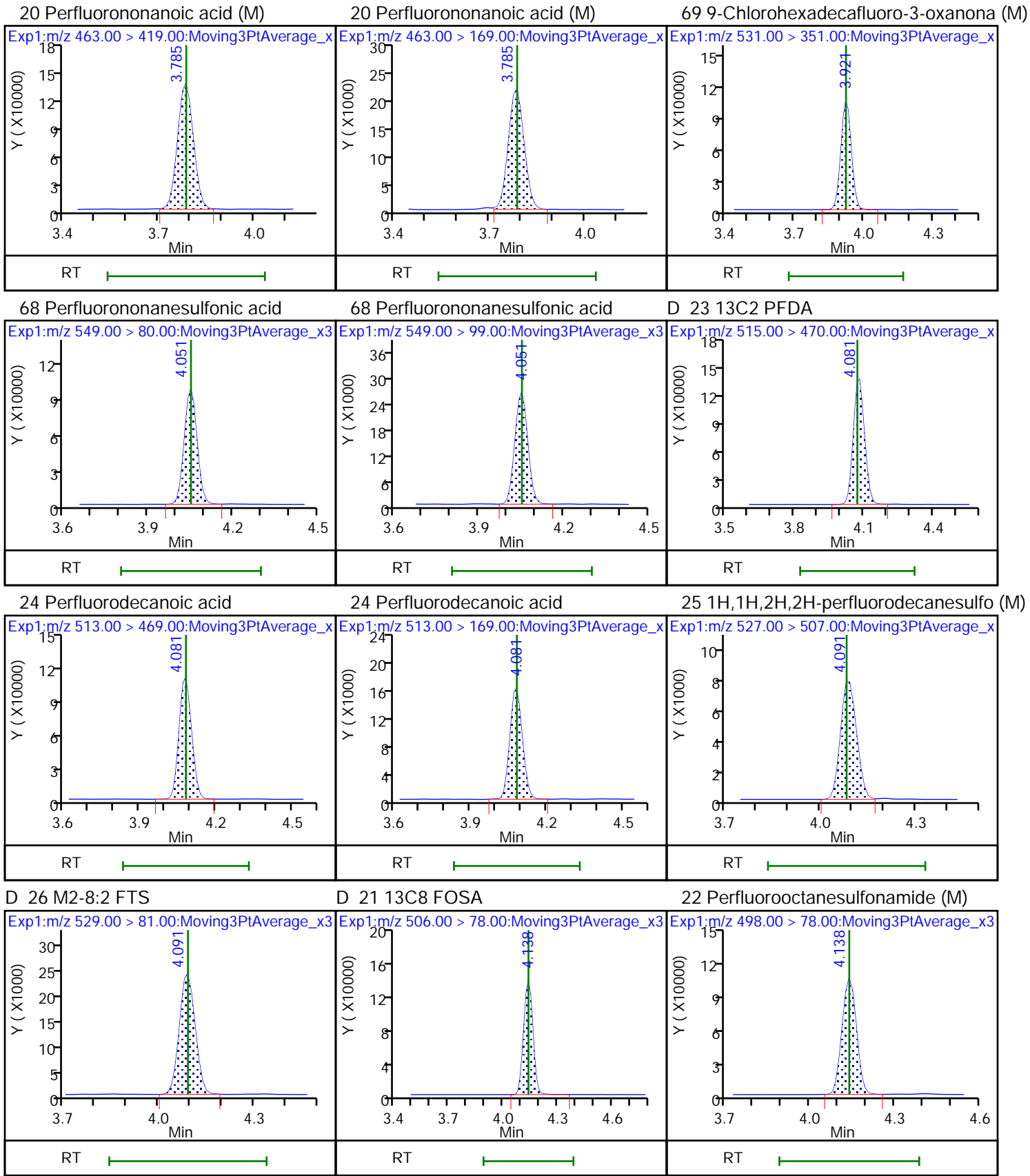
D 3 13C5 PFPeA





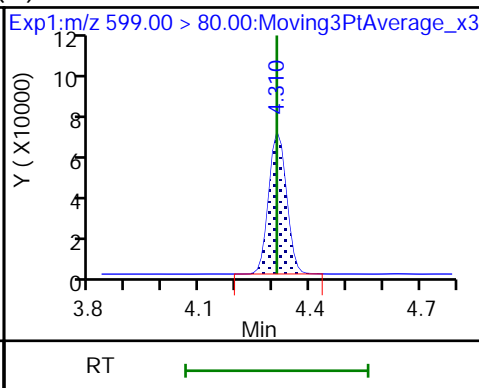
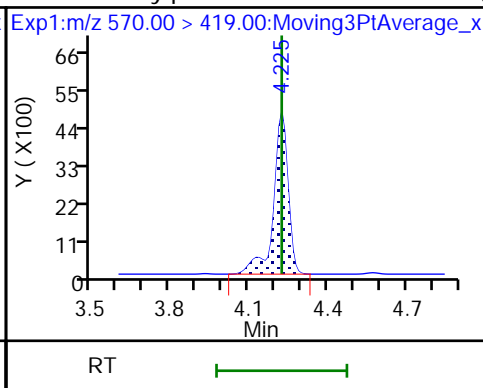
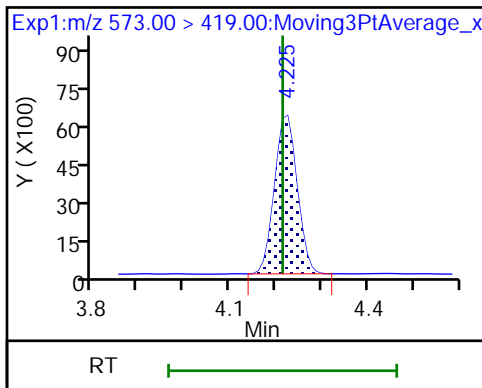






D 27 d3-NMeFOSAA

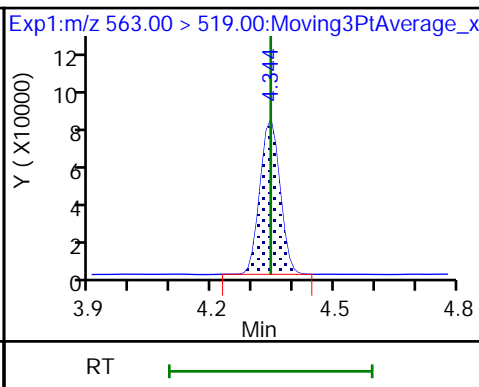
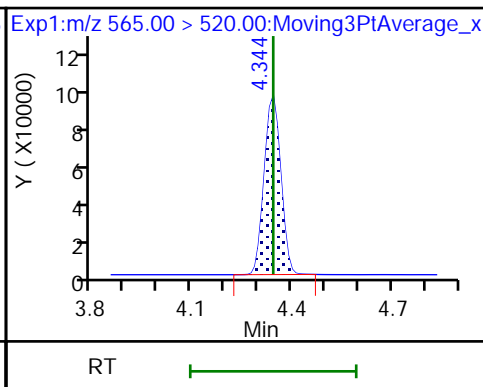
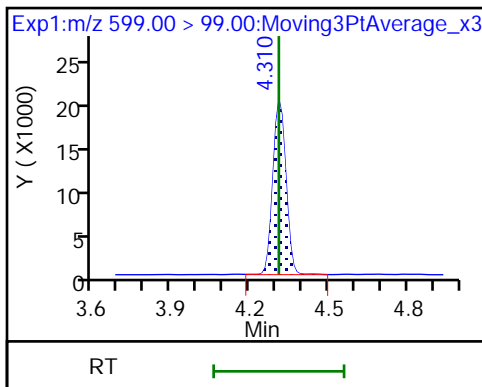
28 N-methylperfluorooctanesulfonami (M) 29 Perfluorodecanesulfonic acid



29 Perfluorodecanesulfonic acid

D 30 13C2 PFUoA

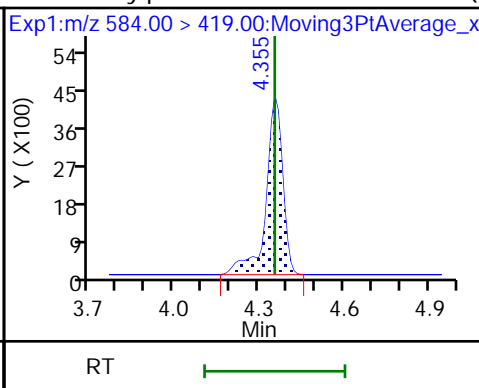
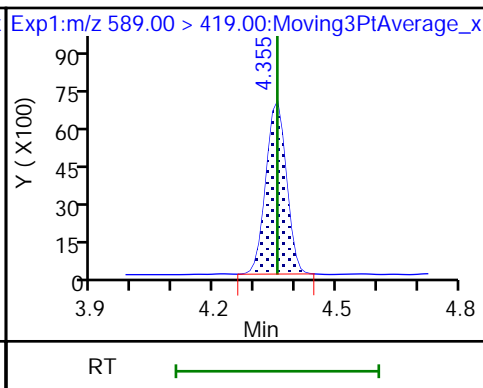
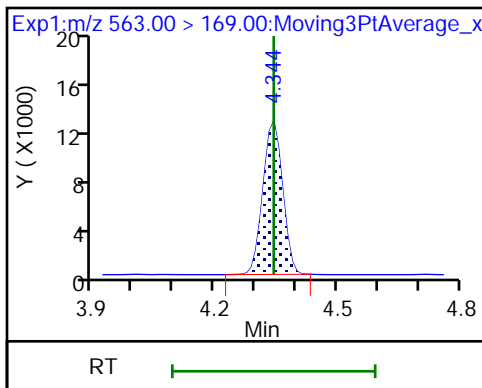
31 Perfluoroundecanoic acid



31 Perfluoroundecanoic acid

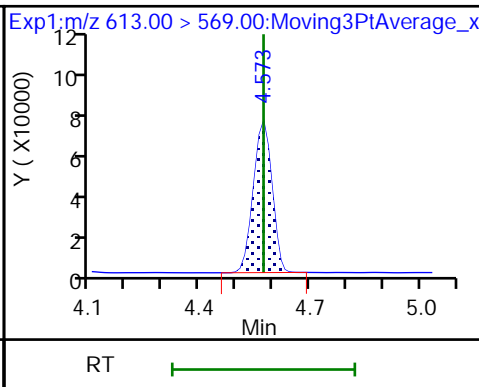
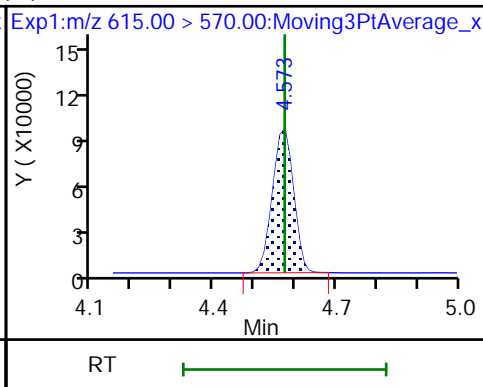
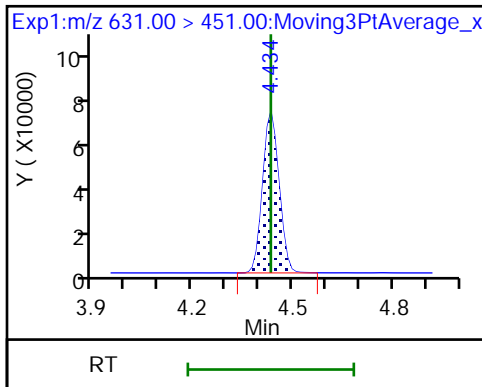
D 32 d5-NEtFOSAA

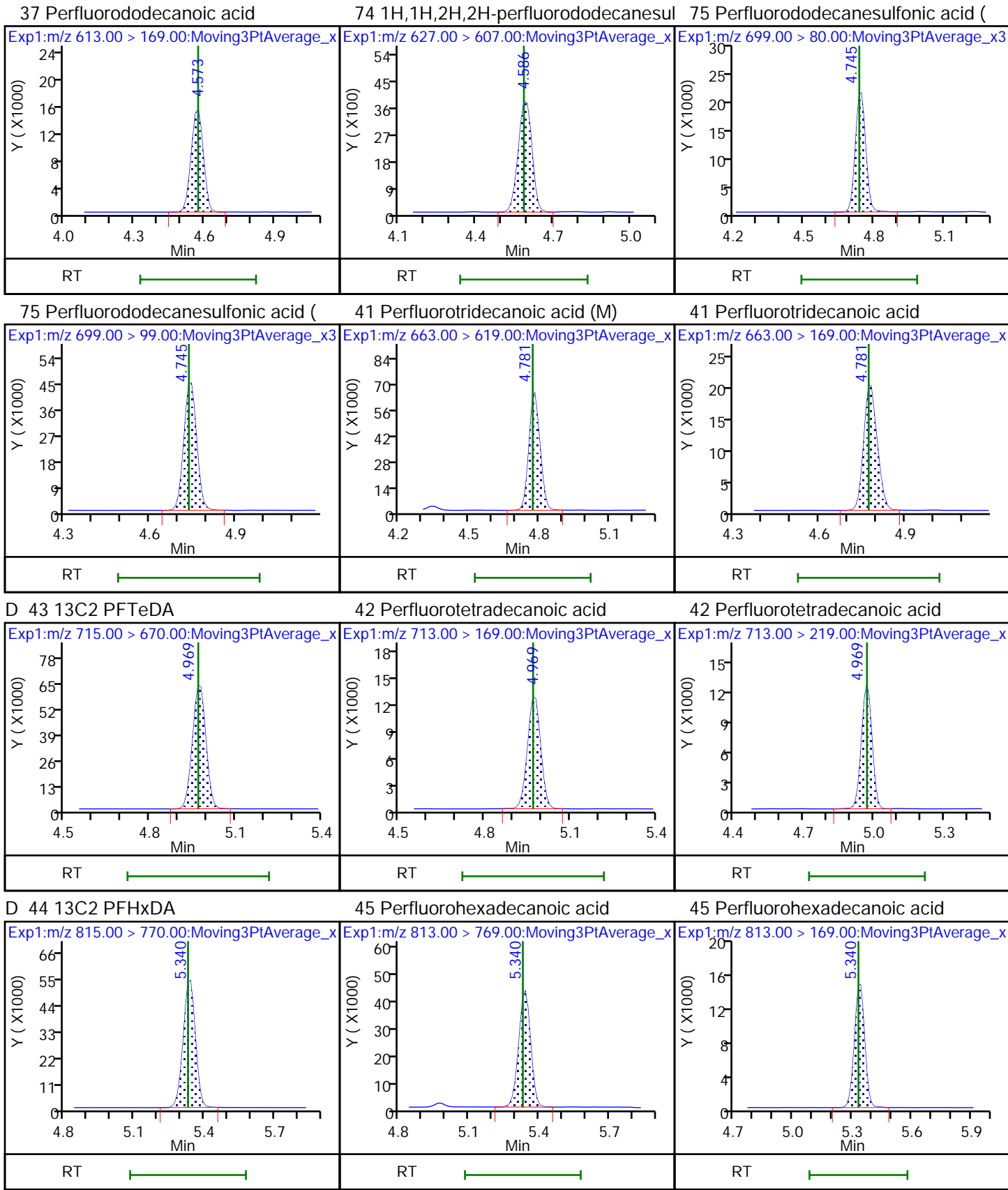
33 N-ethylperfluorooctanesulfonamid (M)



66 11-Chloroeicosafuoro-3-oxaundec (M) 36 13C2 PFDoA

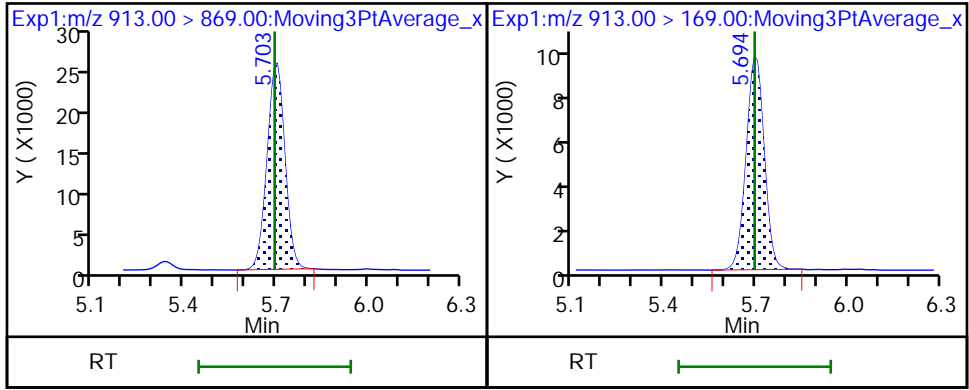
37 Perfluorododecanoic acid





46 Perfluorooctadecanoic acid

46 Perfluorooctadecanoic acid



Eurofins TestAmerica, Burlington

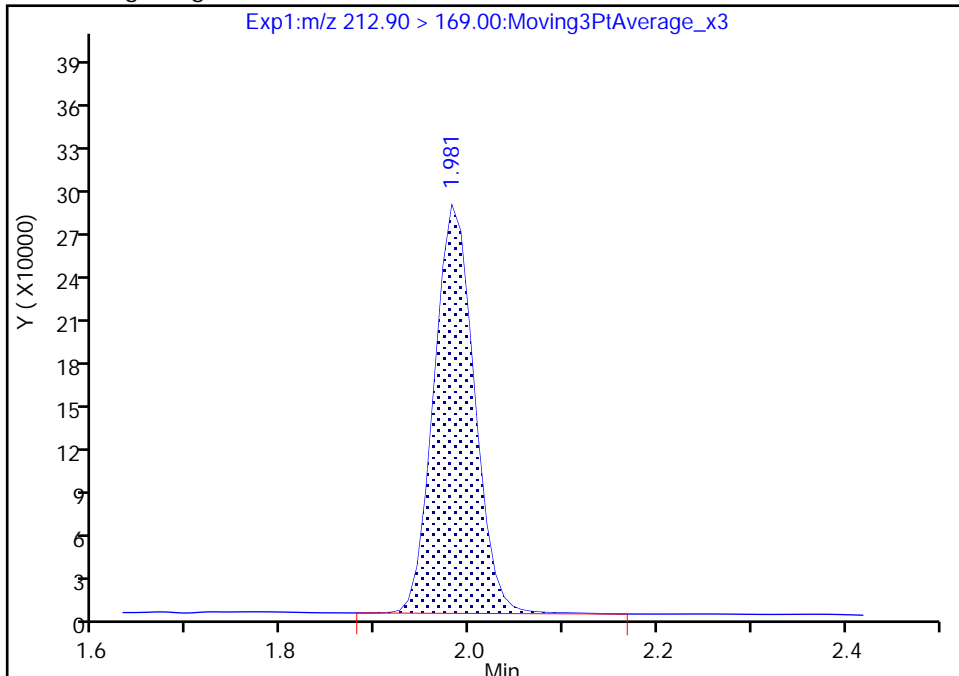
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

2 Perfluorobutanoic acid, CAS: 375-22-4

Signal: 1

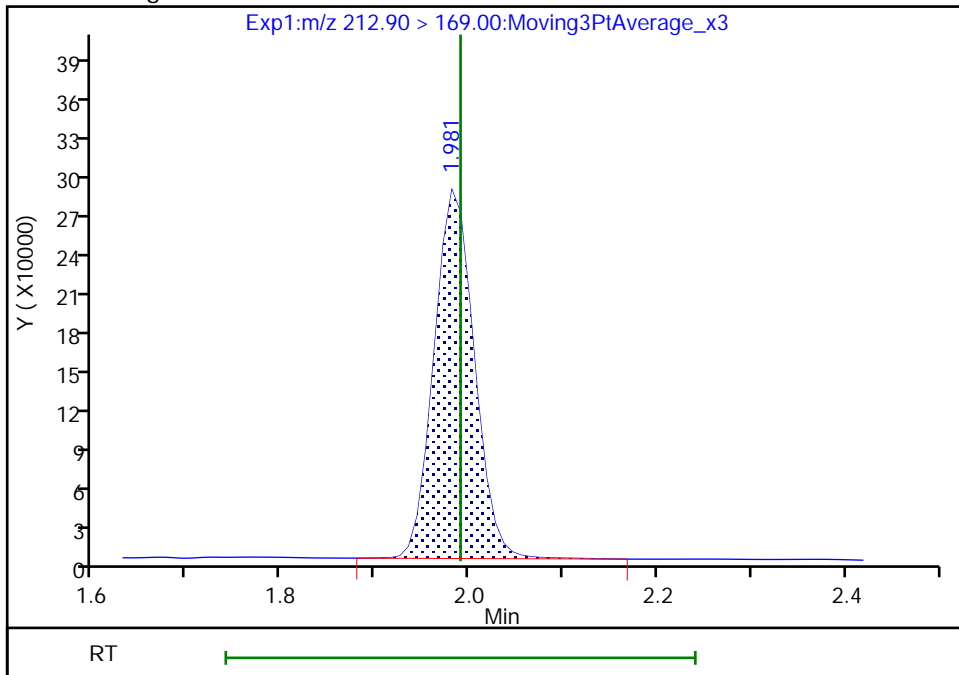
RT: 1.98  
Area: 847294  
Amount: 1.389645  
Amount Units: ng/ml

Processing Integration Results



RT: 1.98  
Area: 847060  
Amount: 1.389261  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:32:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

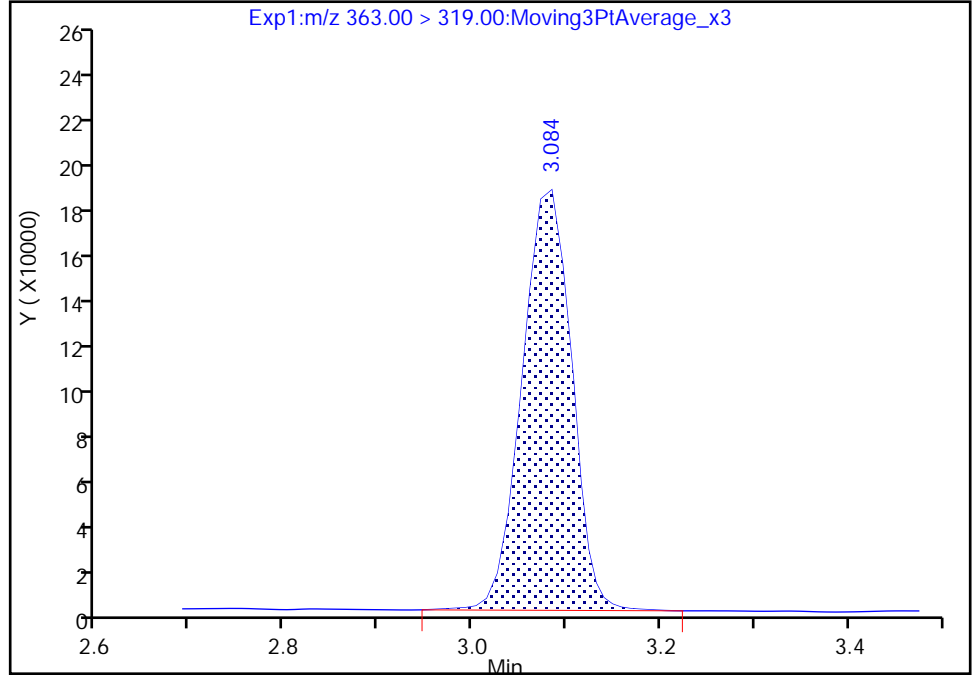
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 1

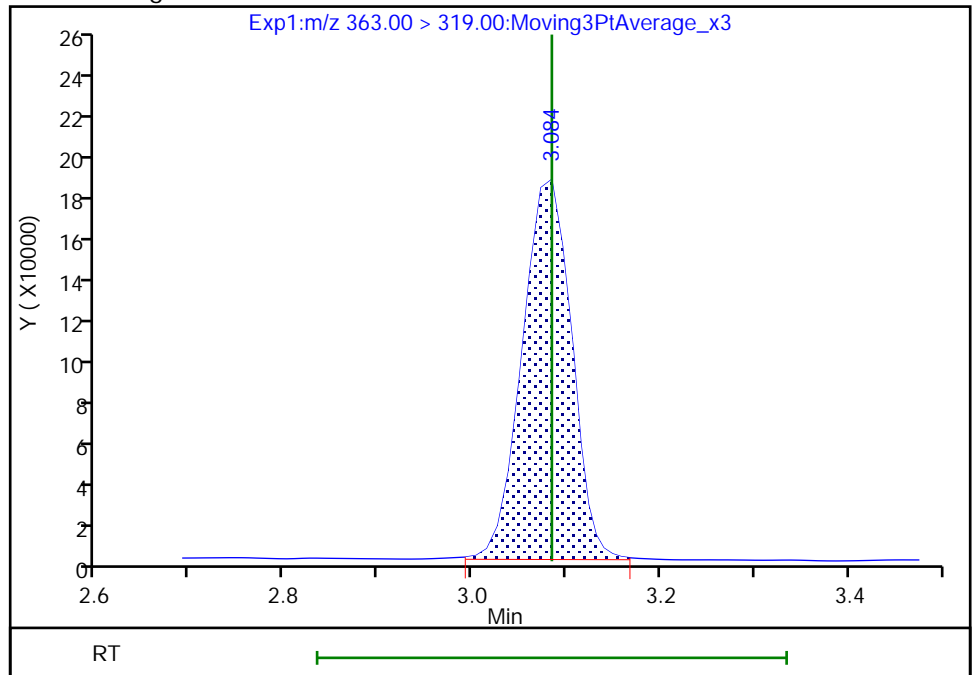
RT: 3.08  
Area: 671114  
Amount: 1.305460  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 669340  
Amount: 1.302009  
Amount Units: ng/ml

Manual Integration Results



Eurofins TestAmerica, Burlington

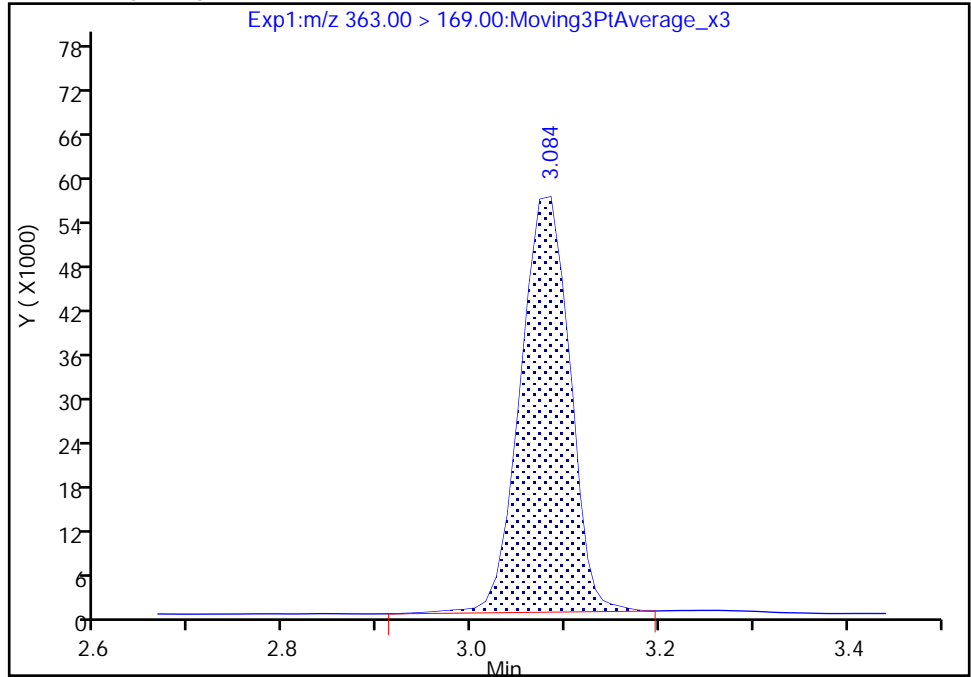
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

10 Perfluoroheptanoic acid, CAS: 375-85-9

Signal: 2

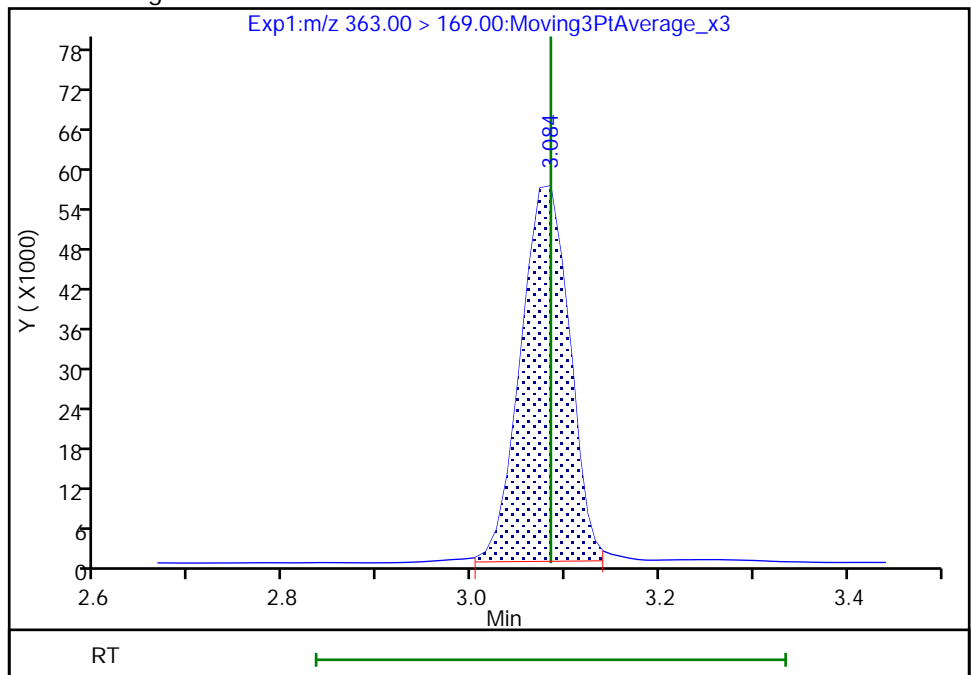
RT: 3.08  
Area: 208141  
Amount: 1.305460  
Amount Units: ng/ml

Processing Integration Results



RT: 3.08  
Area: 205306  
Amount: 1.302009  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:34:28

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

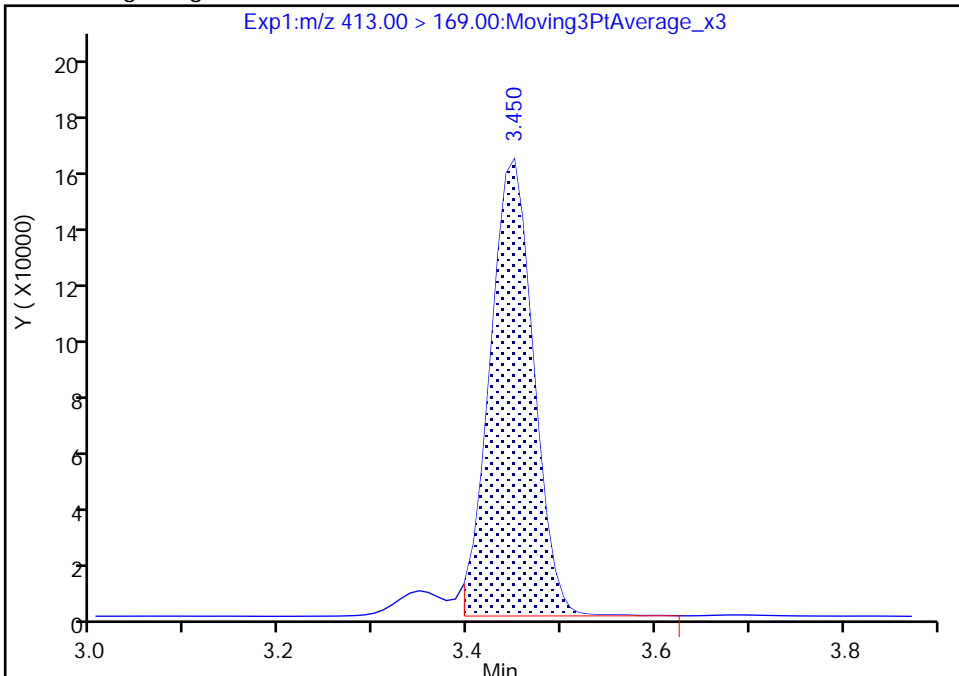
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 2

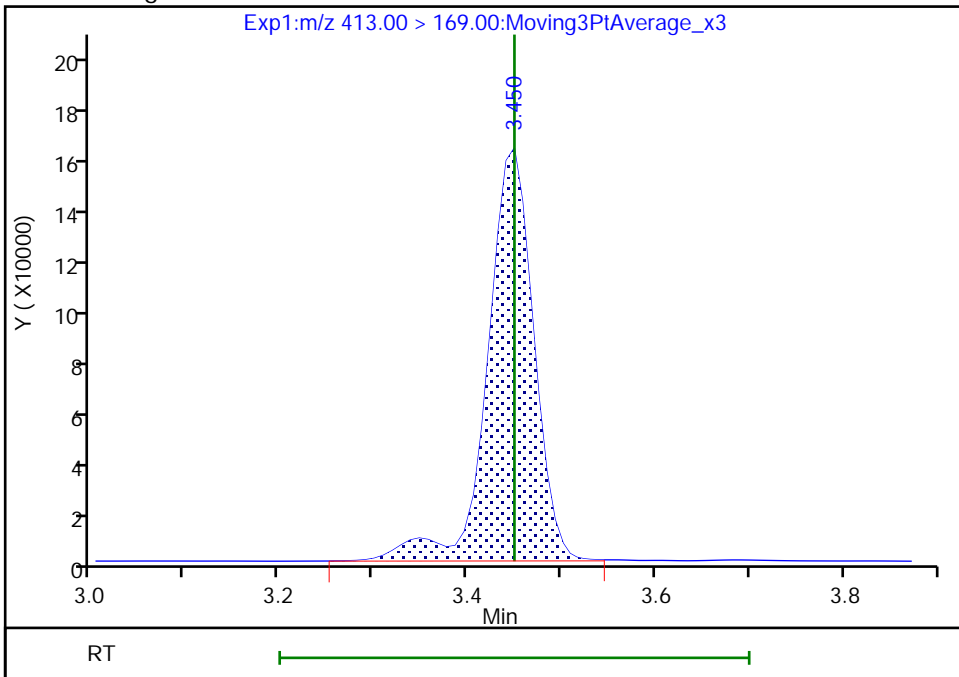
RT: 3.45  
Area: 504809  
Amount: 2.211088  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 540410  
Amount: 2.209071  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:34:57  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

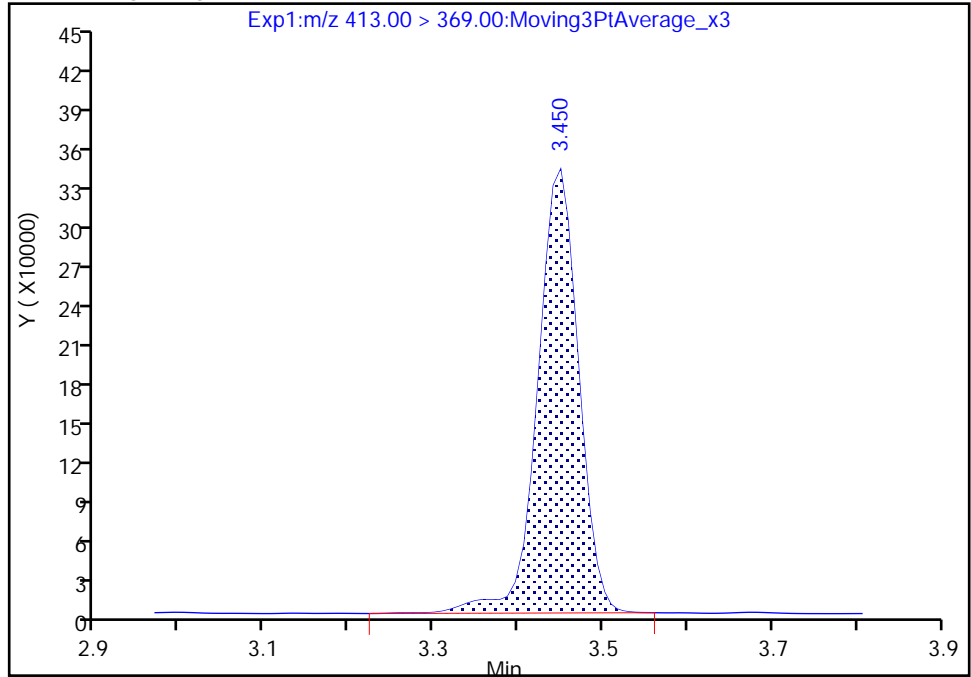
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

15 Perfluorooctanoic acid, CAS: 335-67-1

Signal: 1

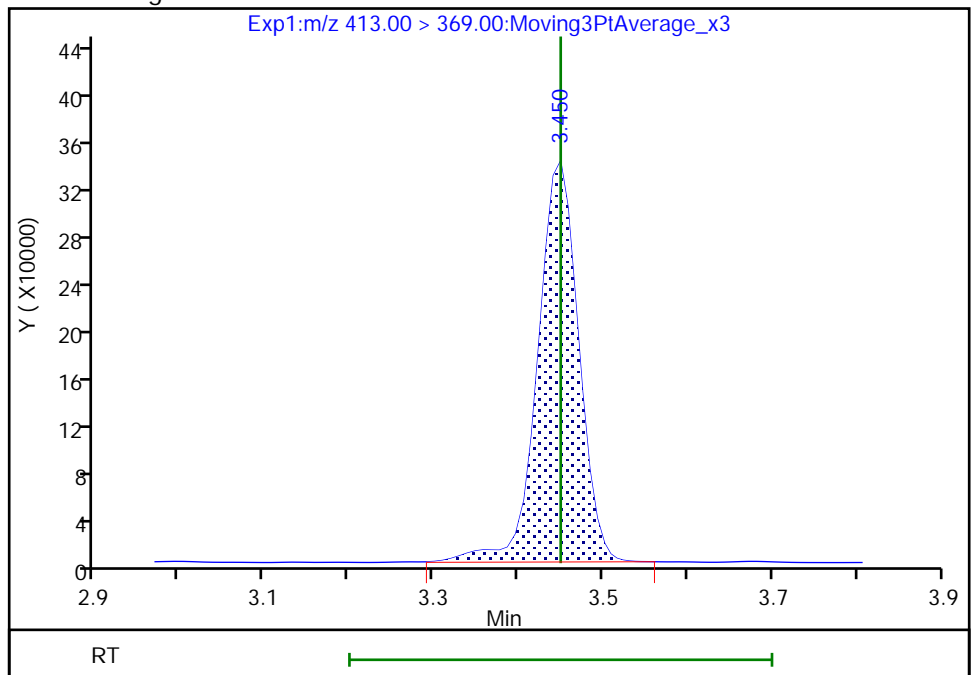
RT: 3.45  
Area: 1147496  
Amount: 2.211088  
Amount Units: ng/ml

Processing Integration Results



RT: 3.45  
Area: 1146449  
Amount: 2.209071  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:34:58

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

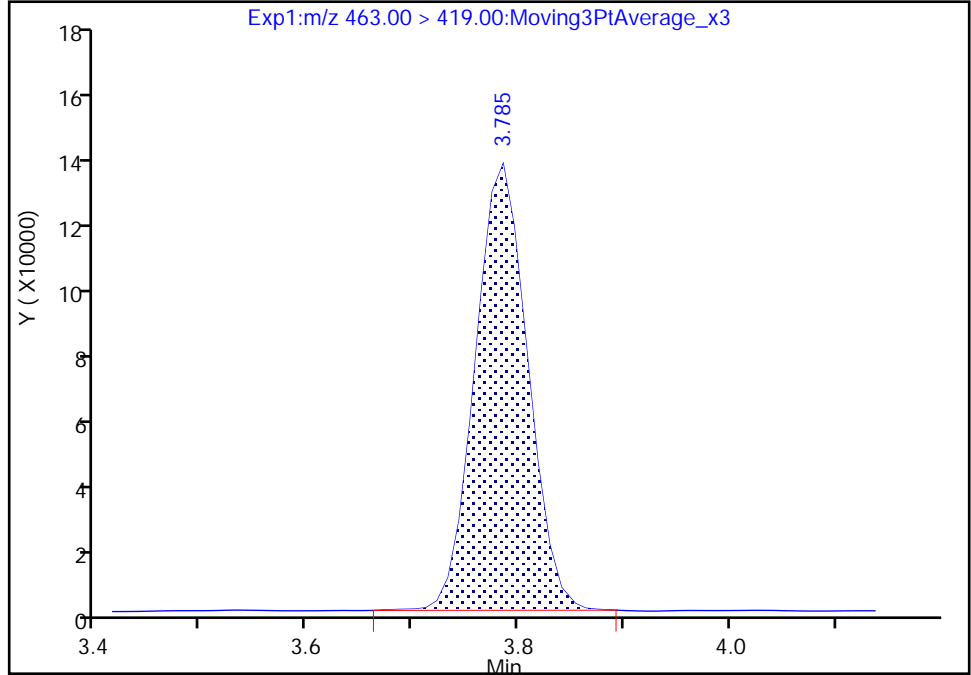
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 1

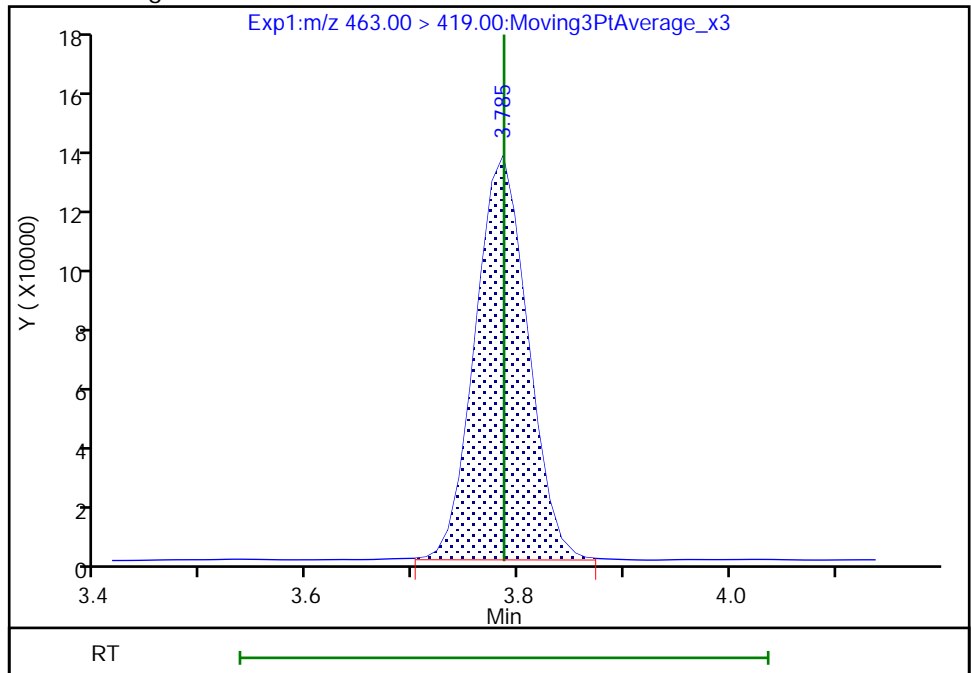
RT: 3.79  
Area: 455697  
Amount: 1.065191  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 456751  
Amount: 1.067655  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:35:56  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

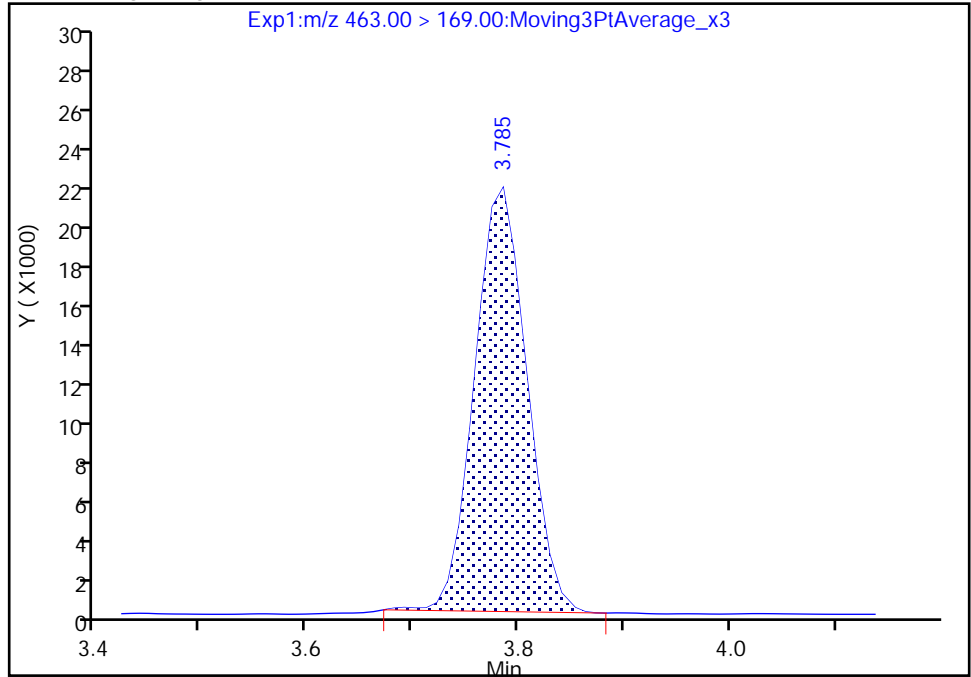
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

20 Perfluorononanoic acid, CAS: 375-95-1

Signal: 2

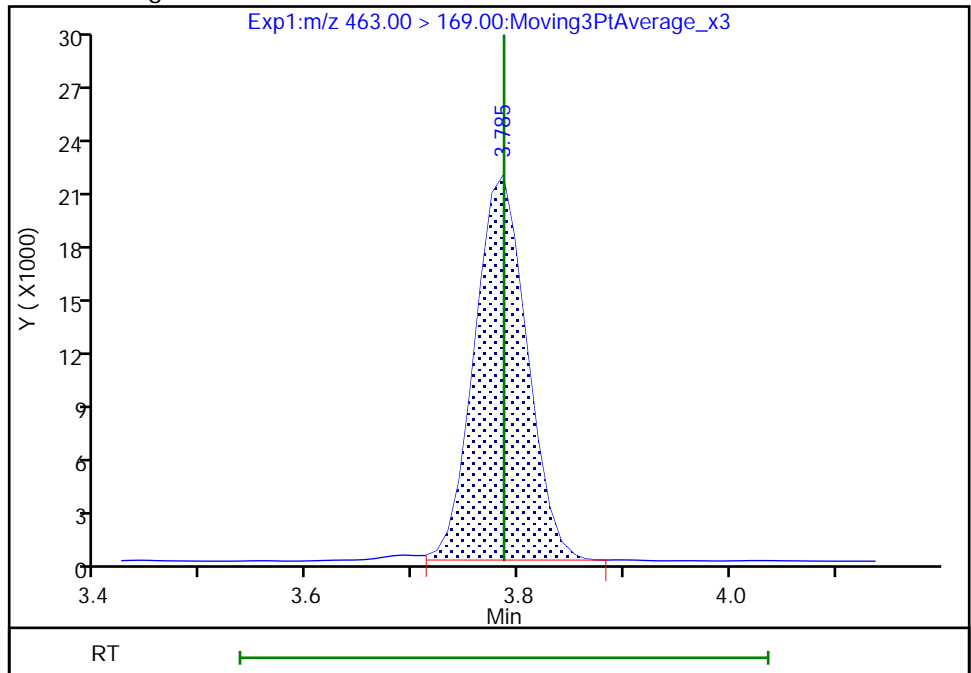
RT: 3.79  
Area: 74549  
Amount: 1.065191  
Amount Units: ng/ml

Processing Integration Results



RT: 3.79  
Area: 74992  
Amount: 1.067655  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:35:59

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

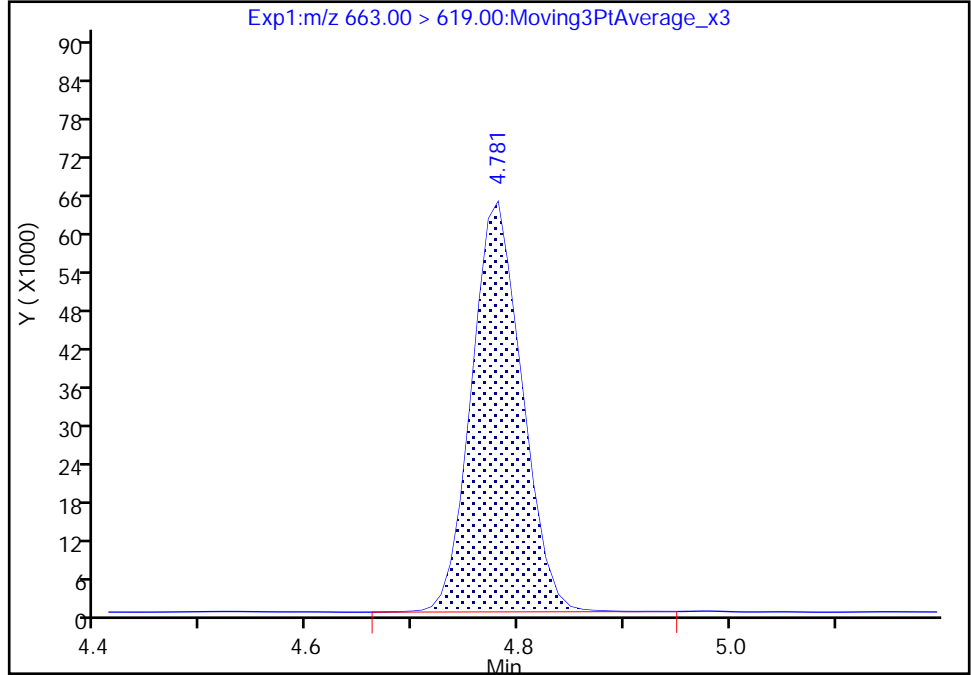
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

41 Perfluorotridecanoic acid, CAS: 72629-94-8

Signal: 1

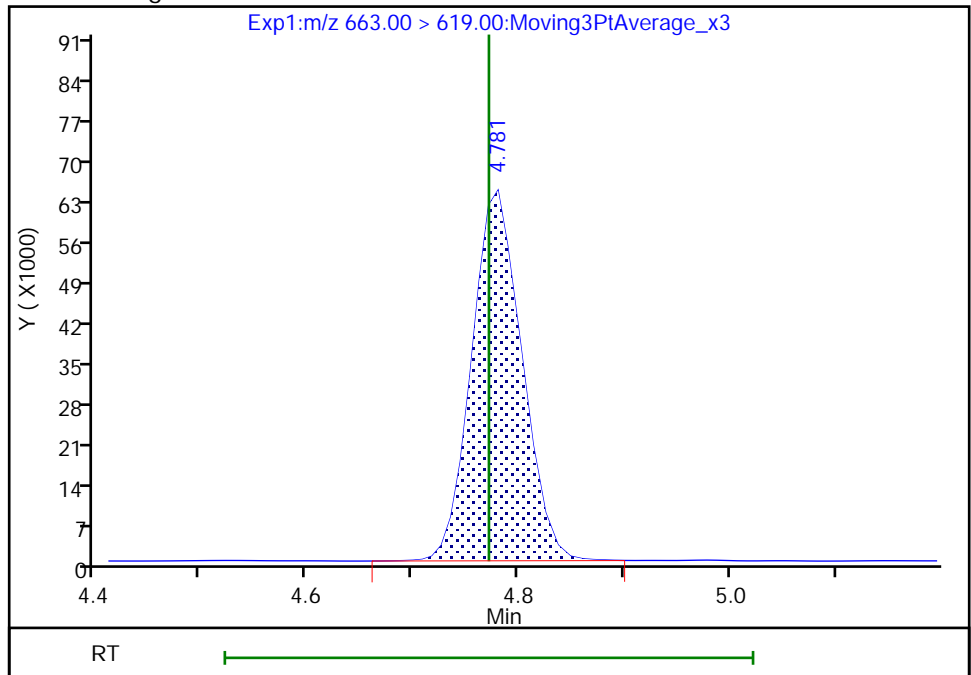
RT: 4.78  
Area: 211374  
Amount: 0.950382  
Amount Units: ng/ml

Processing Integration Results



RT: 4.78  
Area: 211329  
Amount: 0.950180  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:37:30  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

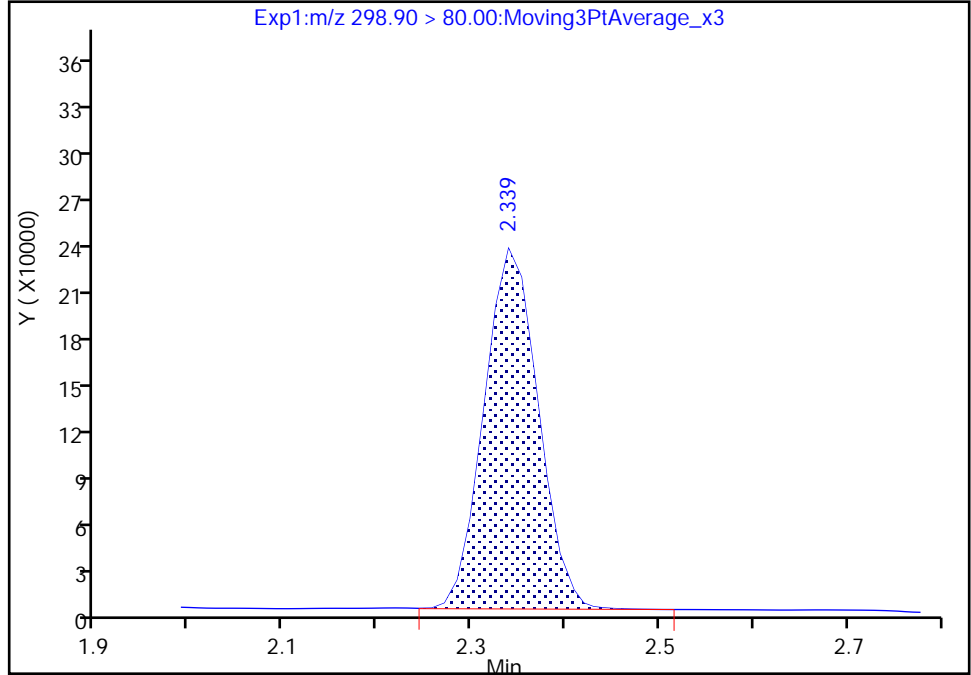
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 1

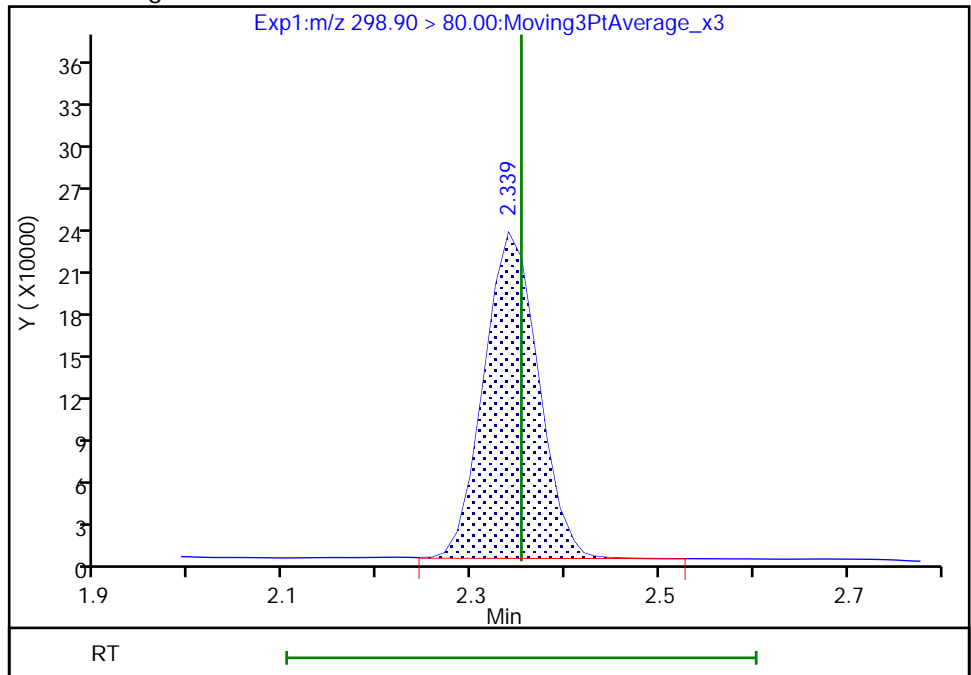
RT: 2.34  
Area: 924851  
Amount: 1.512542  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 926377  
Amount: 1.515037  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:33:23  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

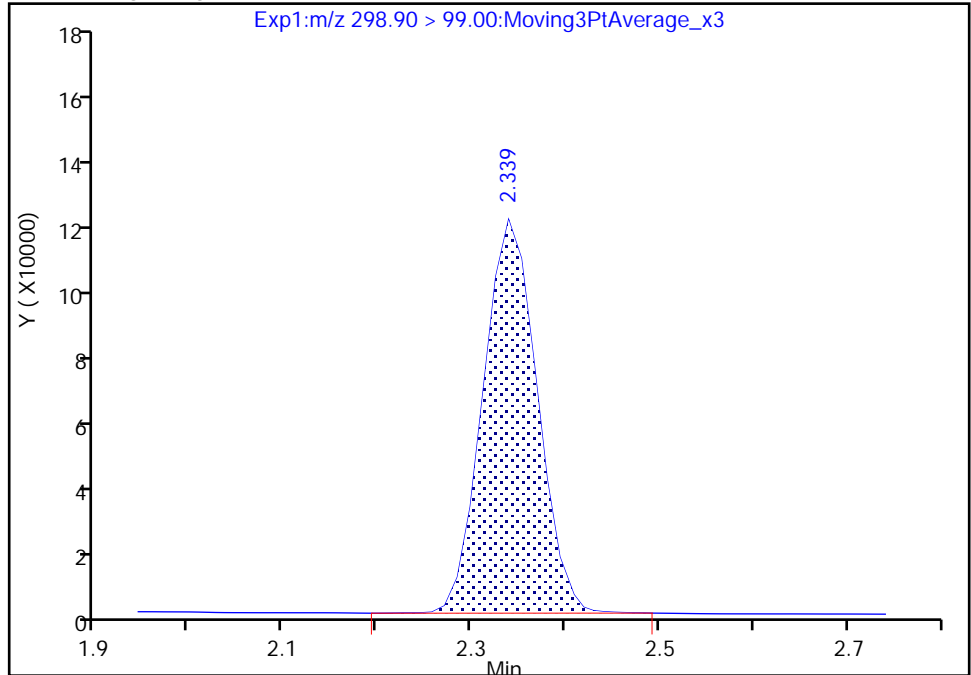
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

5 Perfluorobutanesulfonic acid, CAS: 375-73-5

Signal: 2

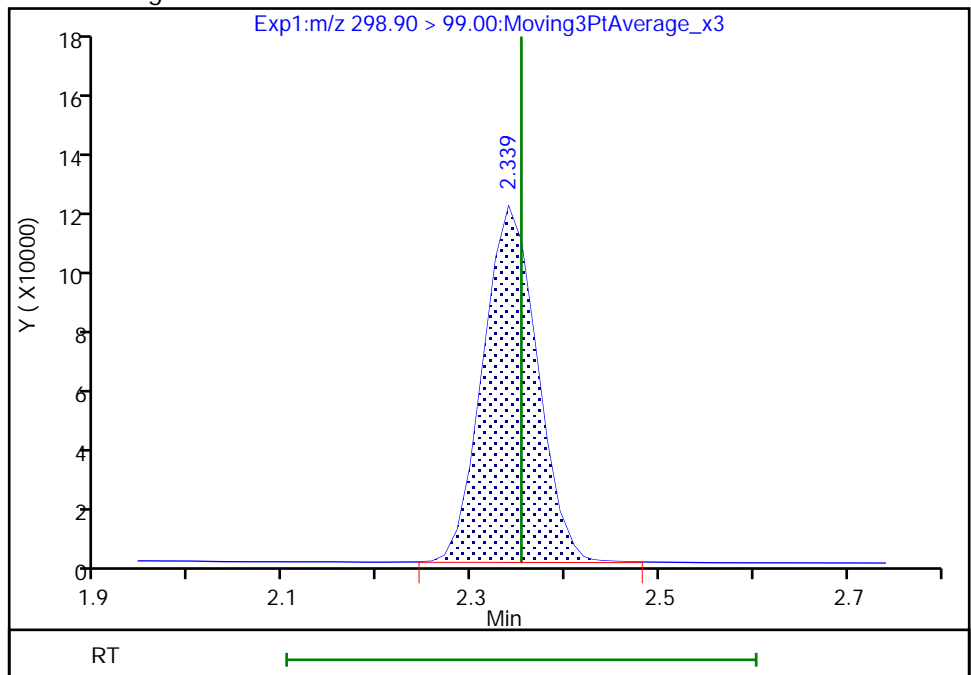
RT: 2.34  
Area: 466947  
Amount: 1.512542  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 468271  
Amount: 1.515037  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:33:26

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

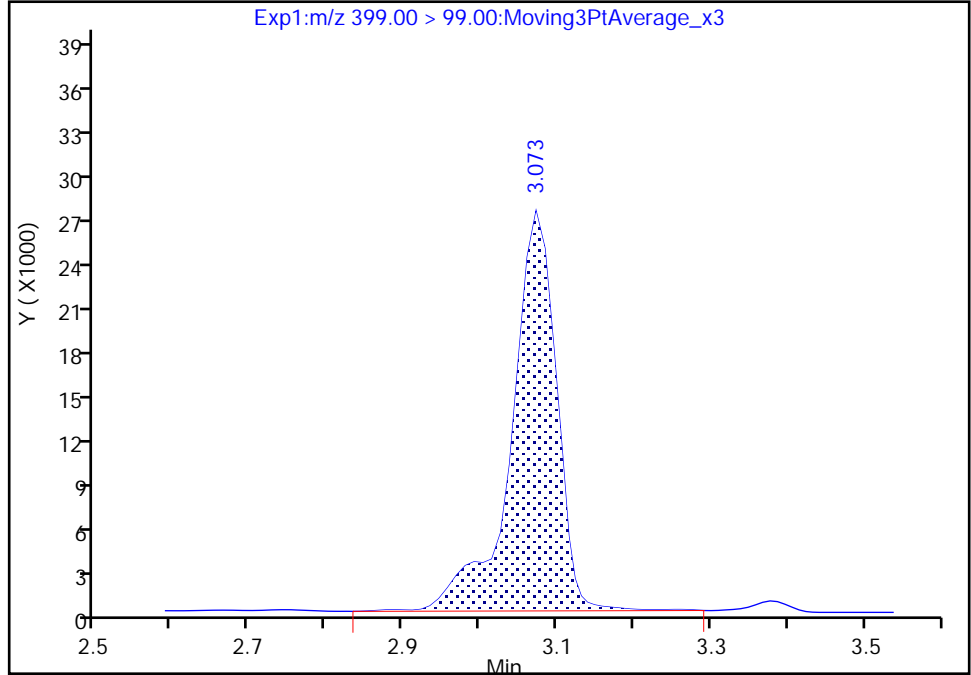
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 2

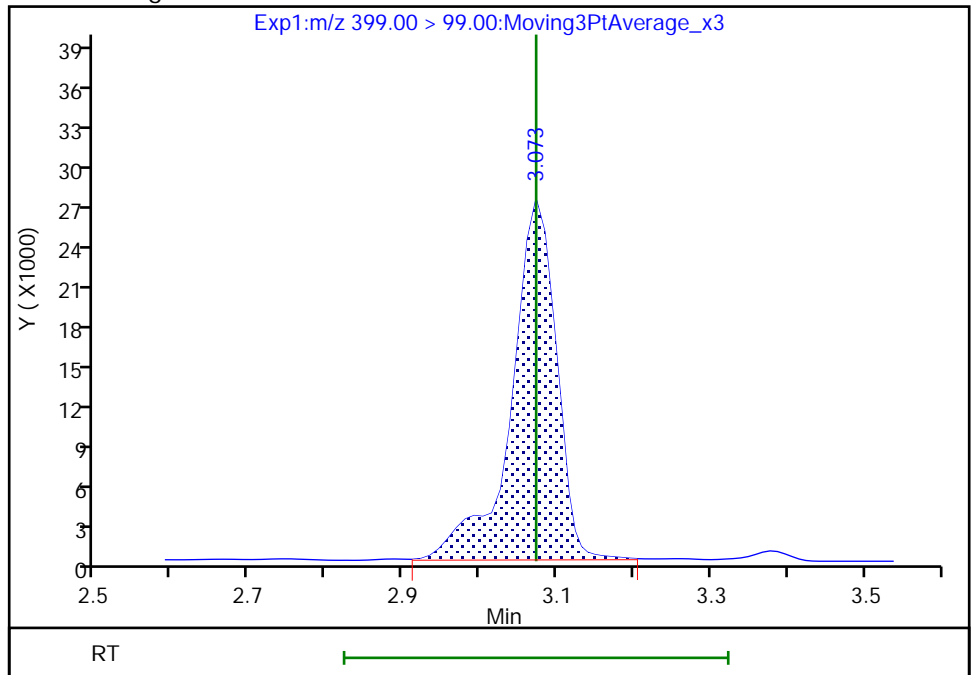
RT: 3.07  
Area: 111922  
Amount: 1.023397  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 111384  
Amount: 1.020744  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:33:59  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

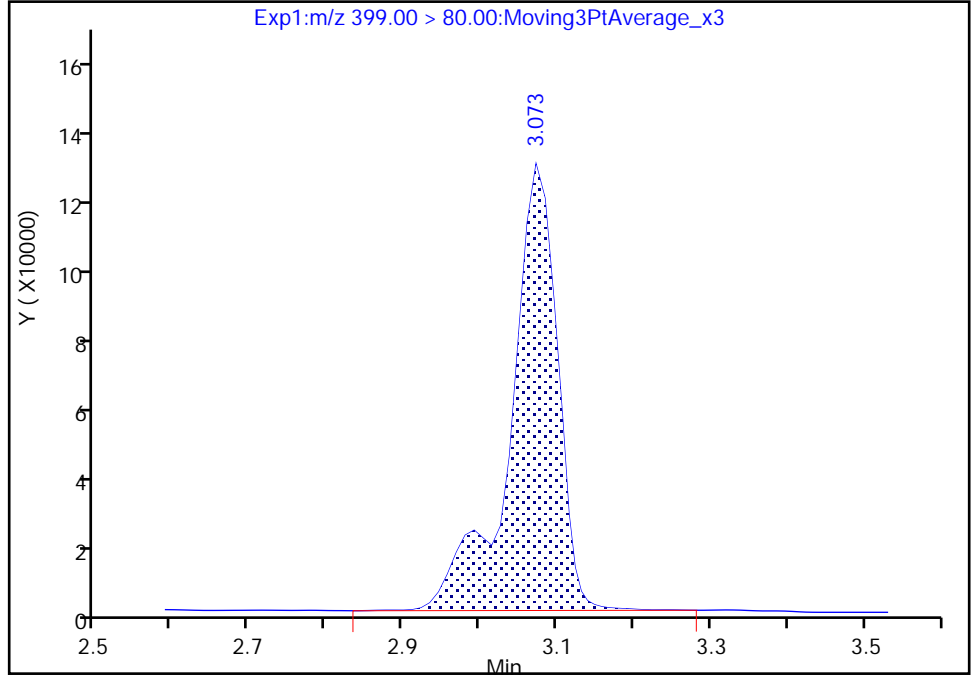
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

8 Perfluorohexanesulfonic acid, CAS: 355-46-4

Signal: 1

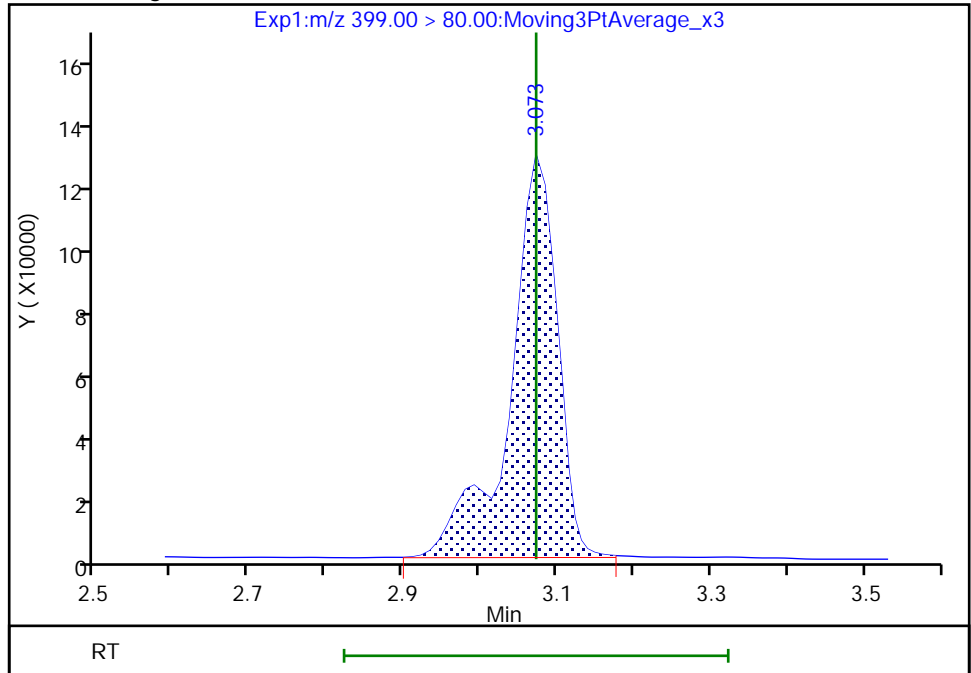
RT: 3.07  
Area: 528438  
Amount: 1.023397  
Amount Units: ng/ml

Processing Integration Results



RT: 3.07  
Area: 527068  
Amount: 1.020744  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:34:01

Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

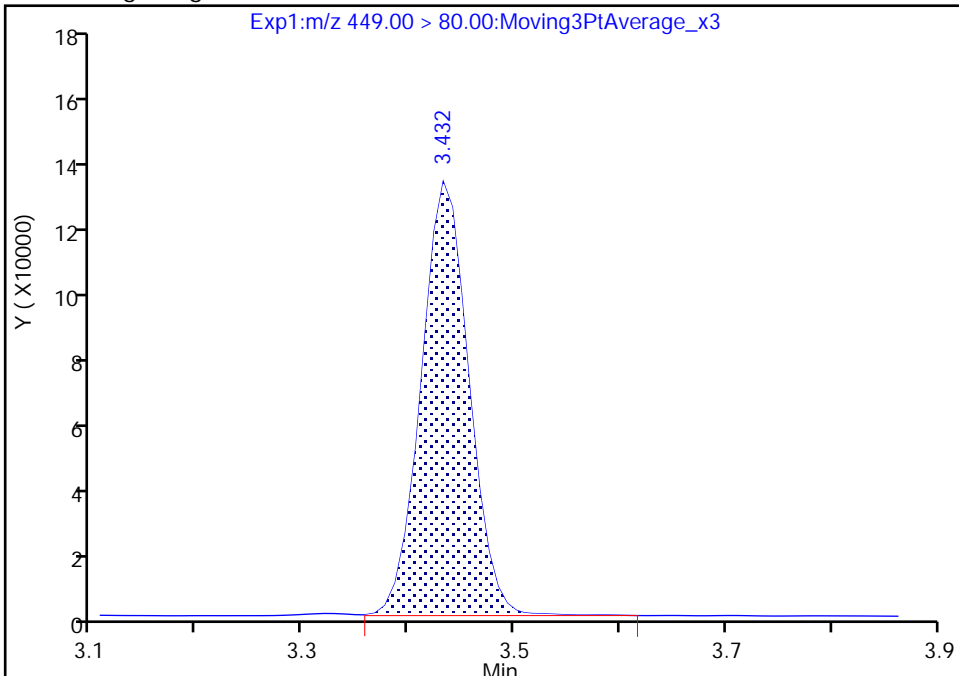
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

16 Perfluoroheptanesulfonic acid, CAS: 375-92-8

Signal: 1

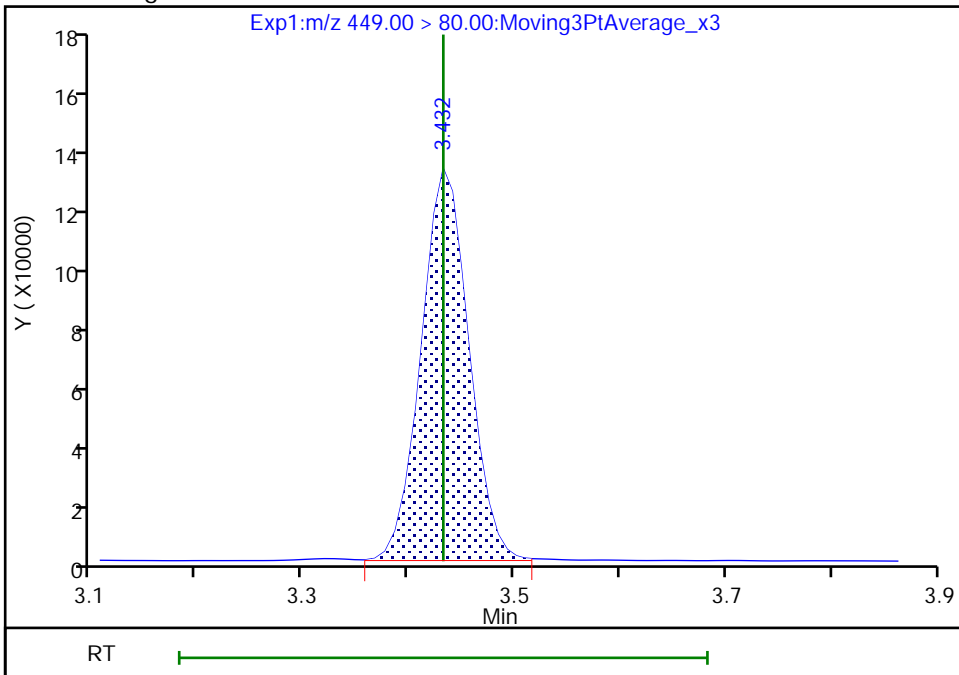
RT: 3.43  
Area: 413679  
Amount: 1.034121  
Amount Units: ng/ml

Processing Integration Results



RT: 3.43  
Area: 412302  
Amount: 1.030679  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:34:39  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

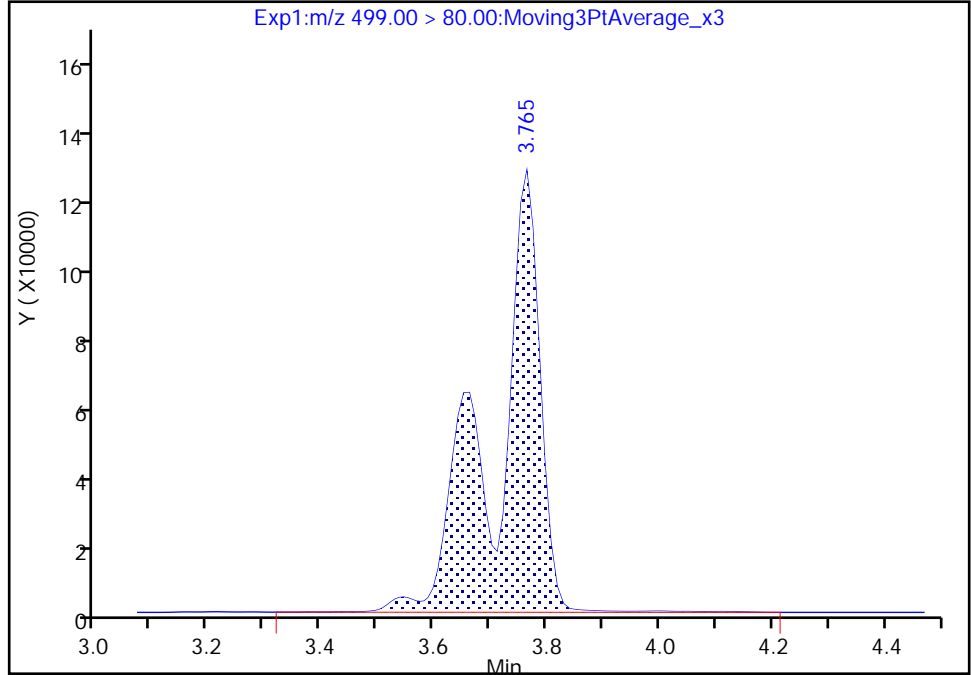
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 1

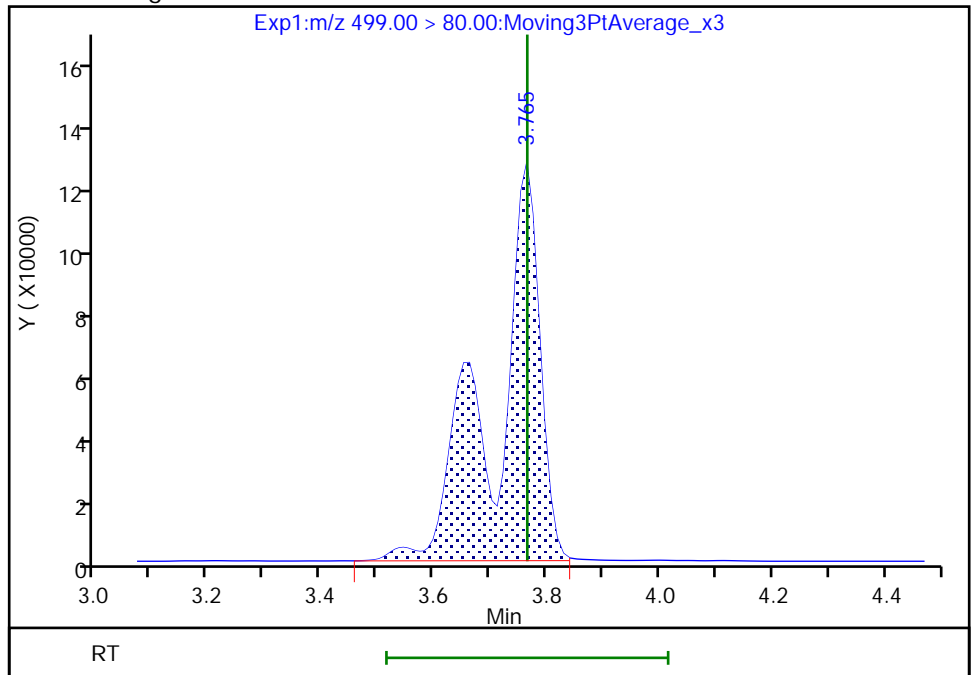
RT: 3.76  
Area: 695420  
Amount: 1.853401  
Amount Units: ng/ml

Processing Integration Results



RT: 3.76  
Area: 687248  
Amount: 1.831621  
Amount Units: ng/ml

Manual Integration Results



Reviewer: deannd, 01-Oct-2020 17:17:52  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

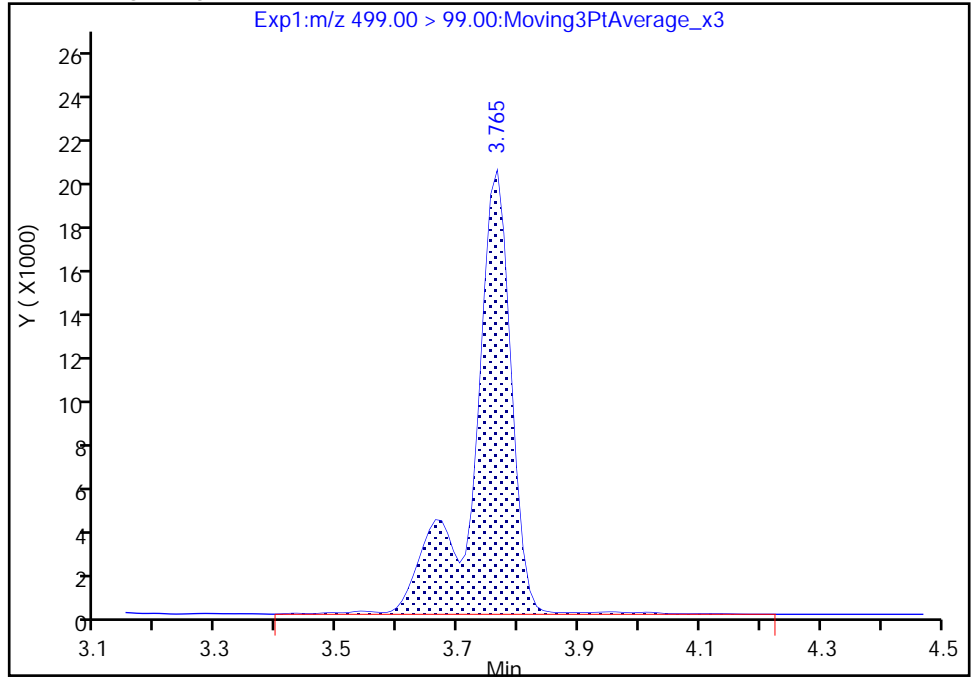
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

17 Perfluorooctanesulfonic acid, CAS: 1763-23-1

Signal: 2

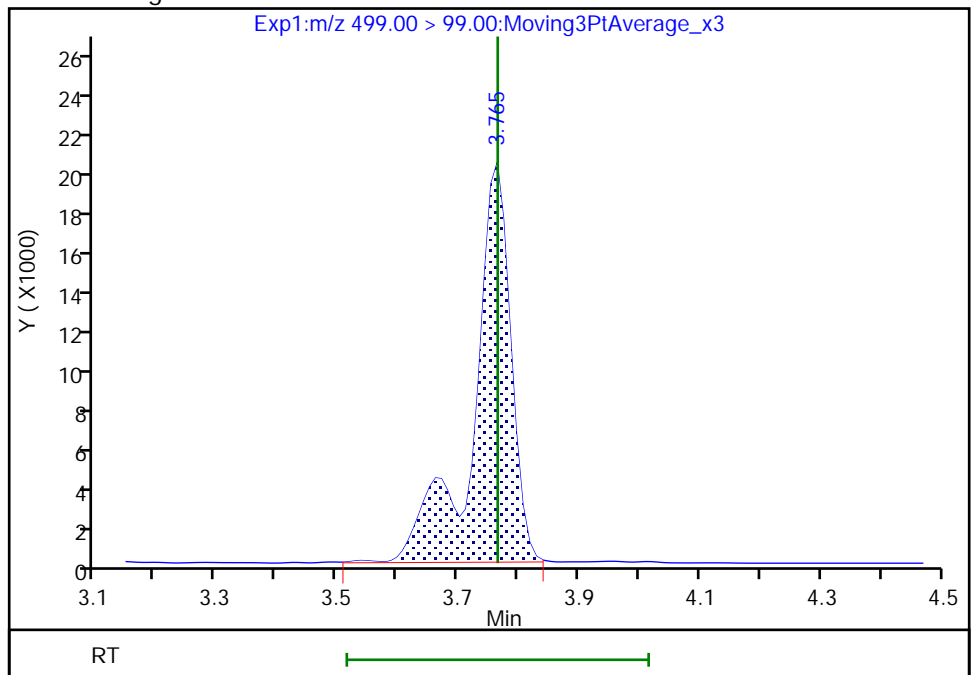
RT: 3.76  
Area: 89193  
Amount: 1.853401  
Amount Units: ng/ml

Processing Integration Results



RT: 3.76  
Area: 87158  
Amount: 1.831621  
Amount Units: ng/ml

Manual Integration Results



Euofins TestAmerica, Burlington

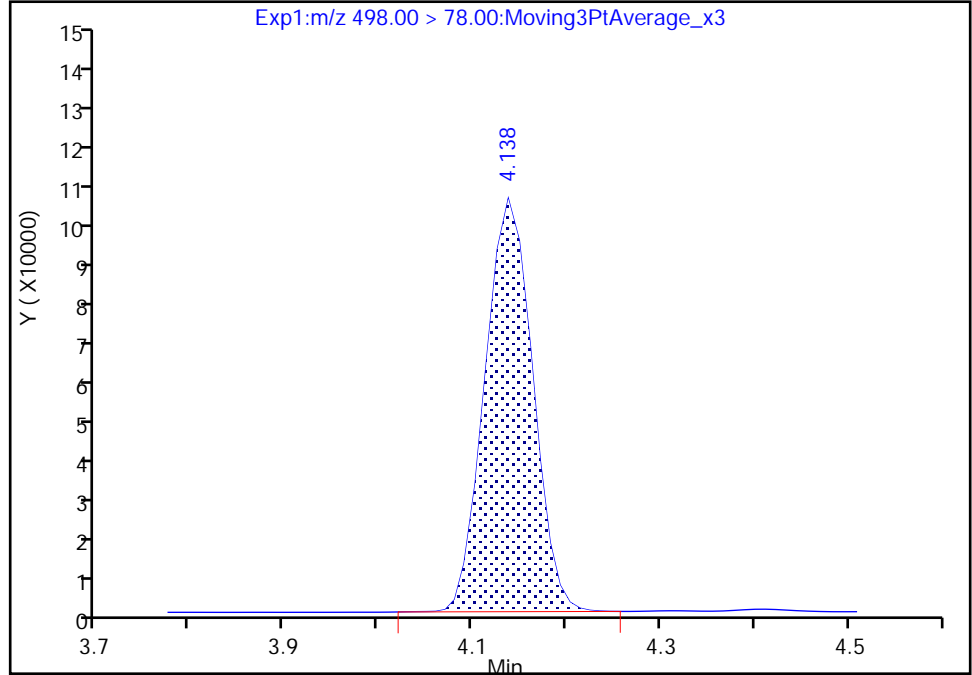
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

22 Perfluorooctanesulfonamide, CAS: 754-91-6

Signal: 1

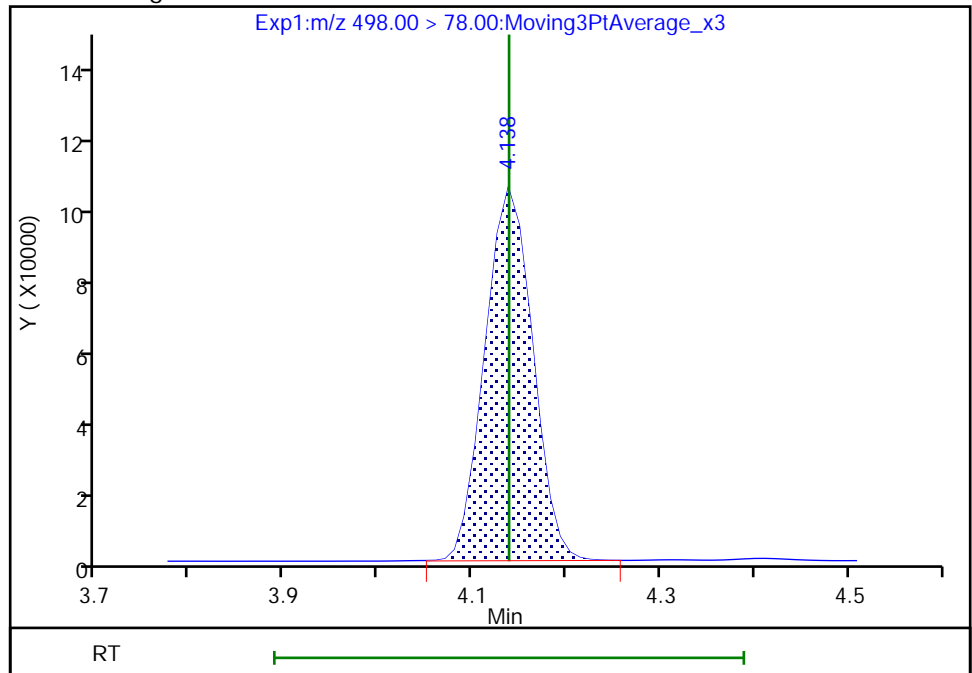
RT: 4.14  
Area: 357815  
Amount: 1.011980  
Amount Units: ng/ml

Processing Integration Results



RT: 4.14  
Area: 357976  
Amount: 1.012435  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:36:36  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

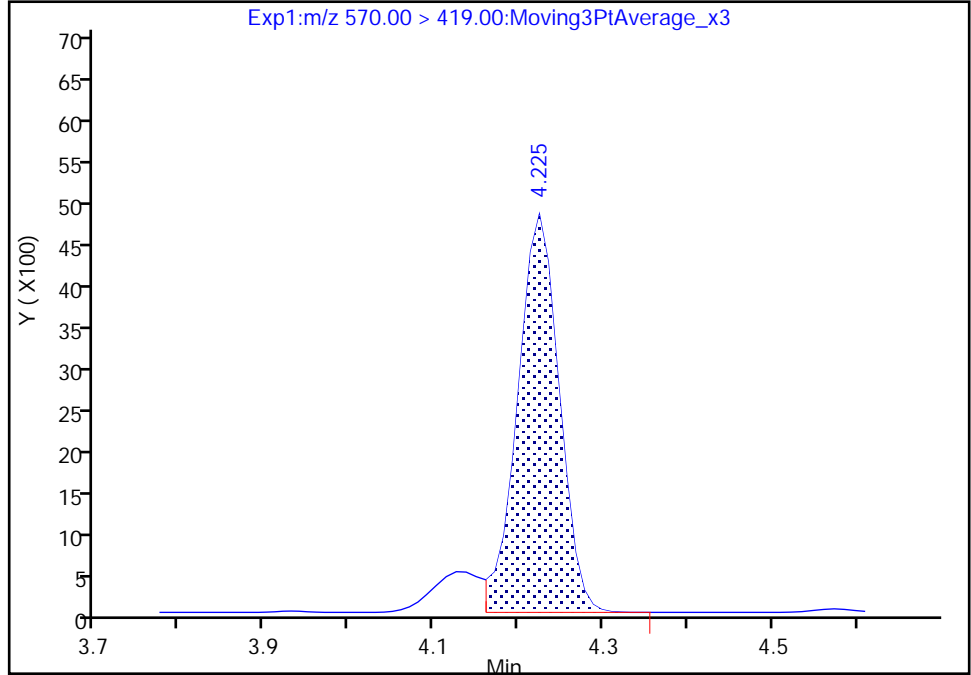
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

28 N-methylperfluorooctanesulfonami, CAS: 2355-31-9

Signal: 1

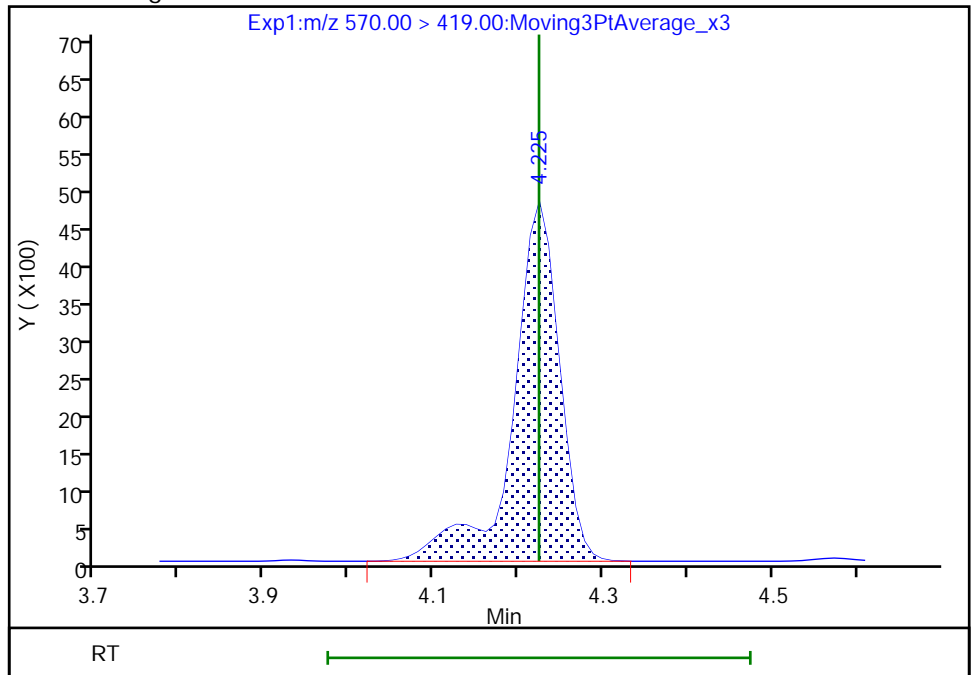
RT: 4.22  
Area: 16430  
Amount: 1.001396  
Amount Units: ng/ml

Processing Integration Results



RT: 4.22  
Area: 18385  
Amount: 1.120552  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:36:43  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Eurofins TestAmerica, Burlington

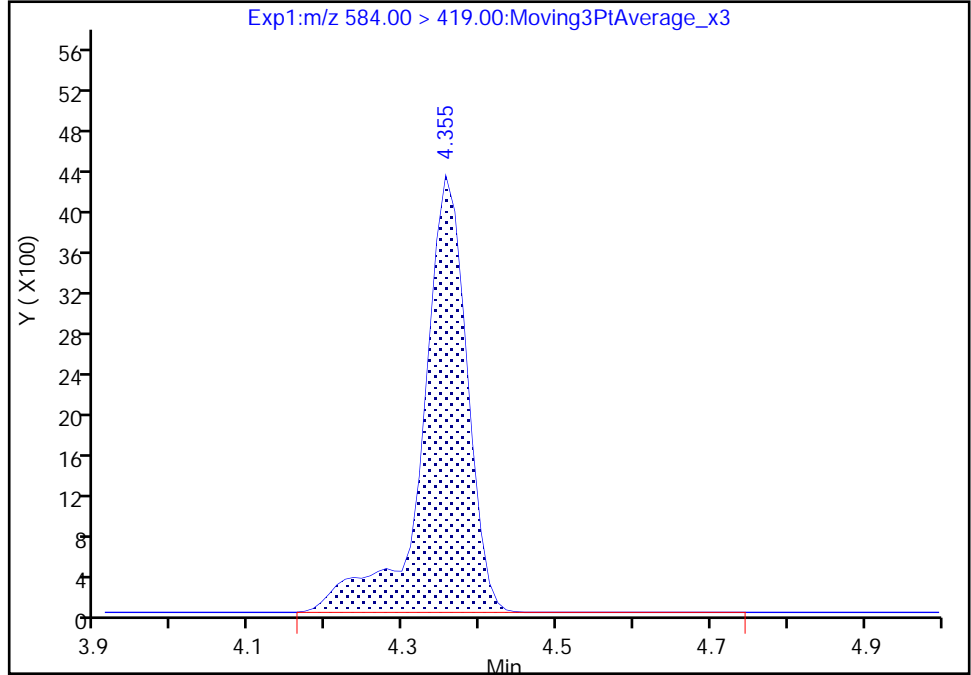
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

33 N-ethylperfluorooctanesulfonamid, CAS: 2991-50-6

Signal: 1

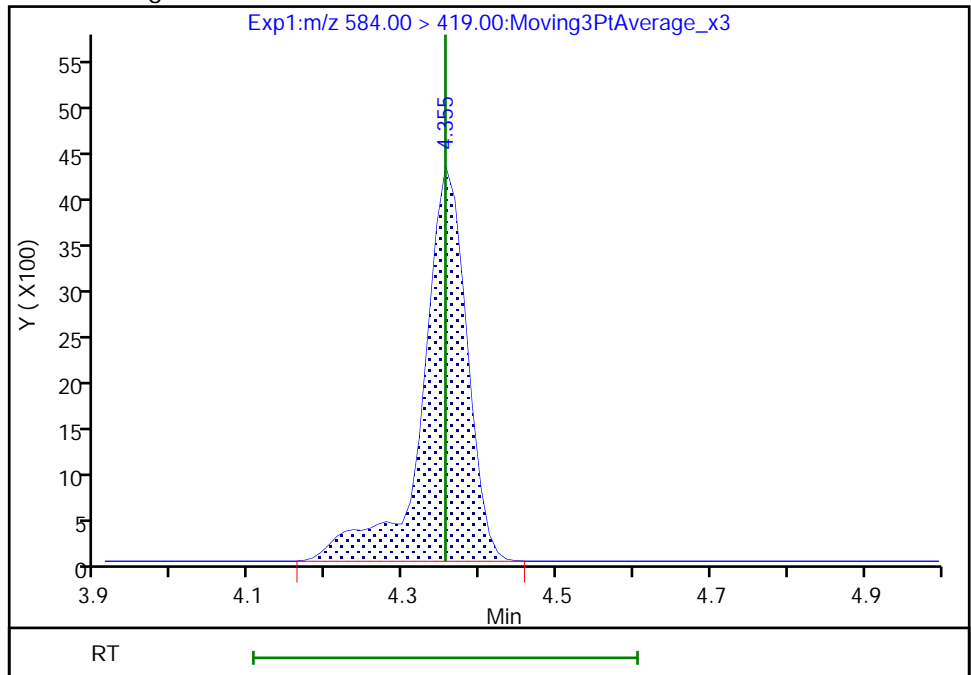
RT: 4.36  
Area: 17578  
Amount: 0.999215  
Amount Units: ng/ml

Processing Integration Results



RT: 4.36  
Area: 17578  
Amount: 0.999215  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:36:58  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

Euofins TestAmerica, Burlington

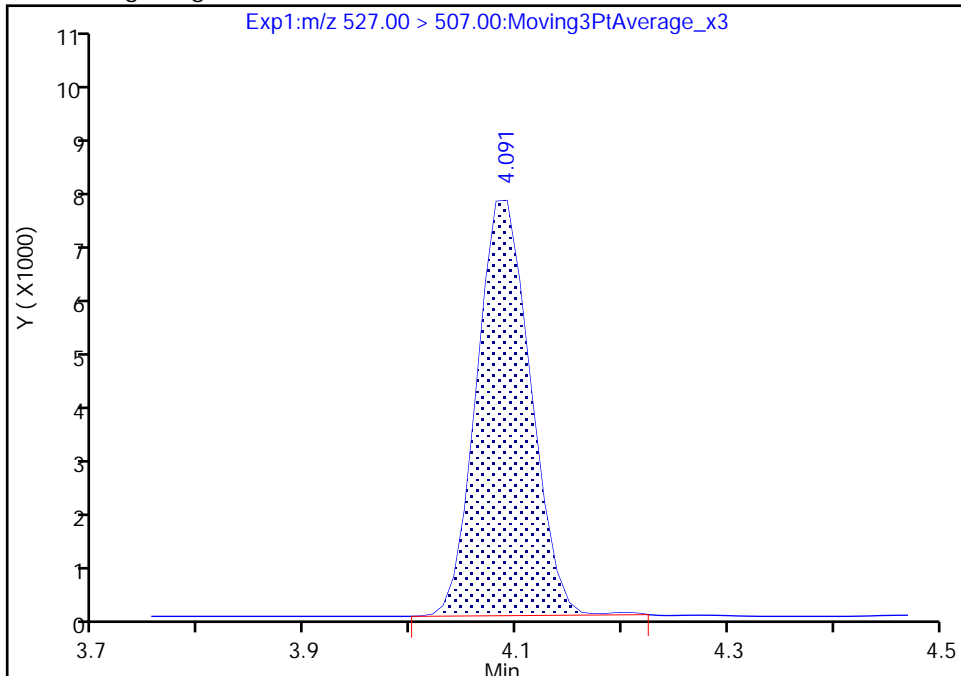
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: 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

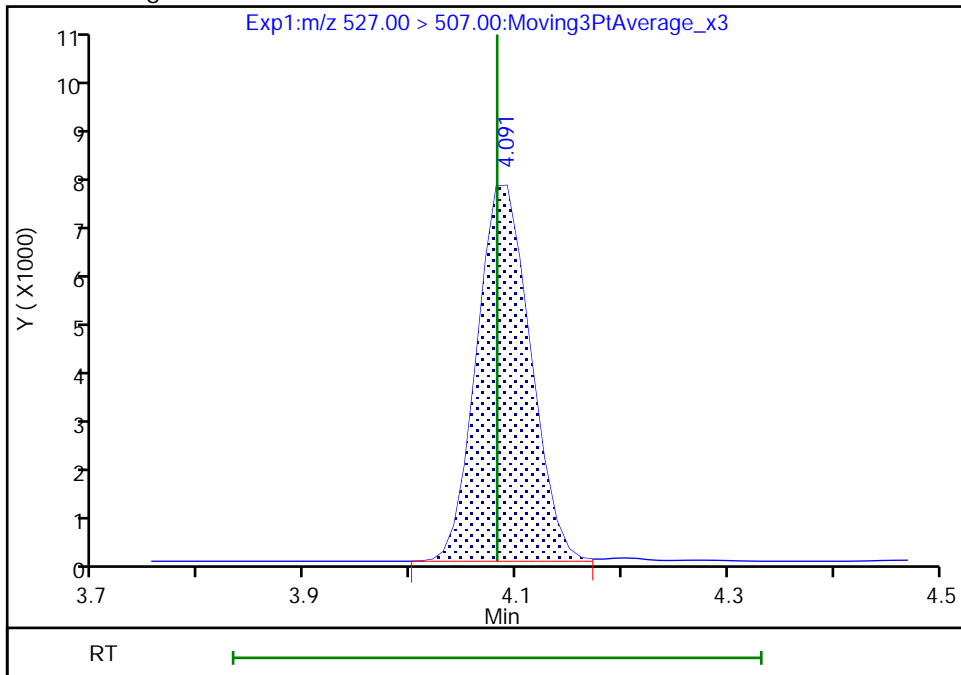
RT: 4.09  
Area: 25247  
Amount: 0.923654  
Amount Units: ng/ml

Processing Integration Results



RT: 4.09  
Area: 25290  
Amount: 0.925227  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:36:26  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration



Eurofins TestAmerica, Burlington

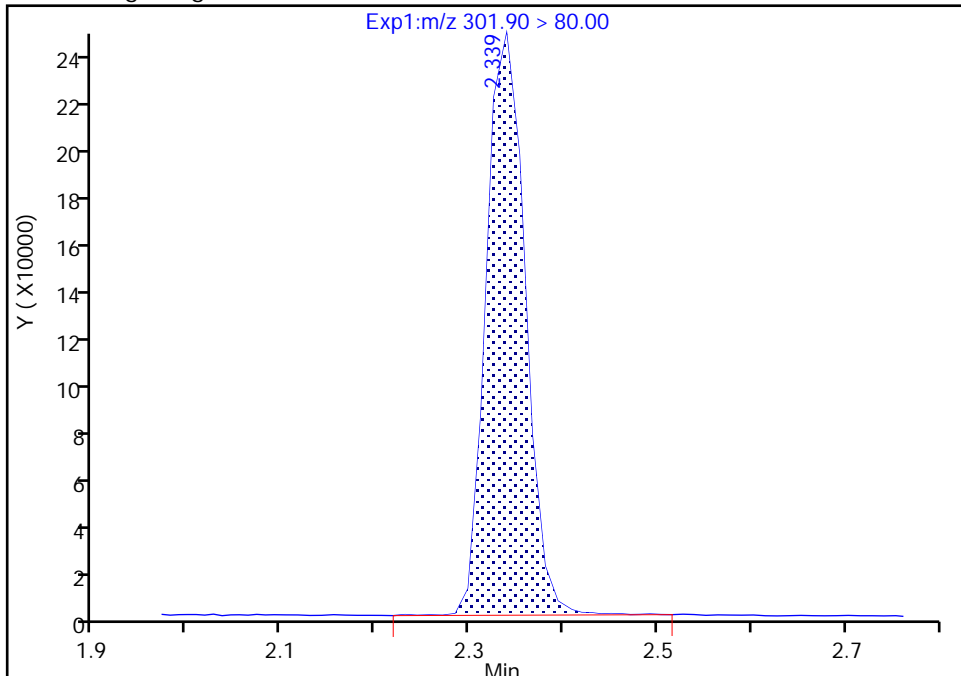
Data File: \\chromfs\Burlington\ChromData\LC812\20200930-43035.b\PA200930B24.d  
Injection Date: 30-Sep-2020 21:25:04 Instrument ID: LC812  
Lims ID: 480-175657-C-6-C MSD  
Client ID: MW-5B  
Operator ID: lc812tech ALS Bottle#: 24 Worklist Smp#: 24  
Injection Vol: 20.0 ul Dil. Factor: 1.0000  
Method: PFC\_LC812 Limit Group: LC\_PFC\_ICAL  
Column: C-18 ( 4.60 mm) Detector: EXP1

D 47 13C3 PFBS, CAS: STL02337

Signal: 1

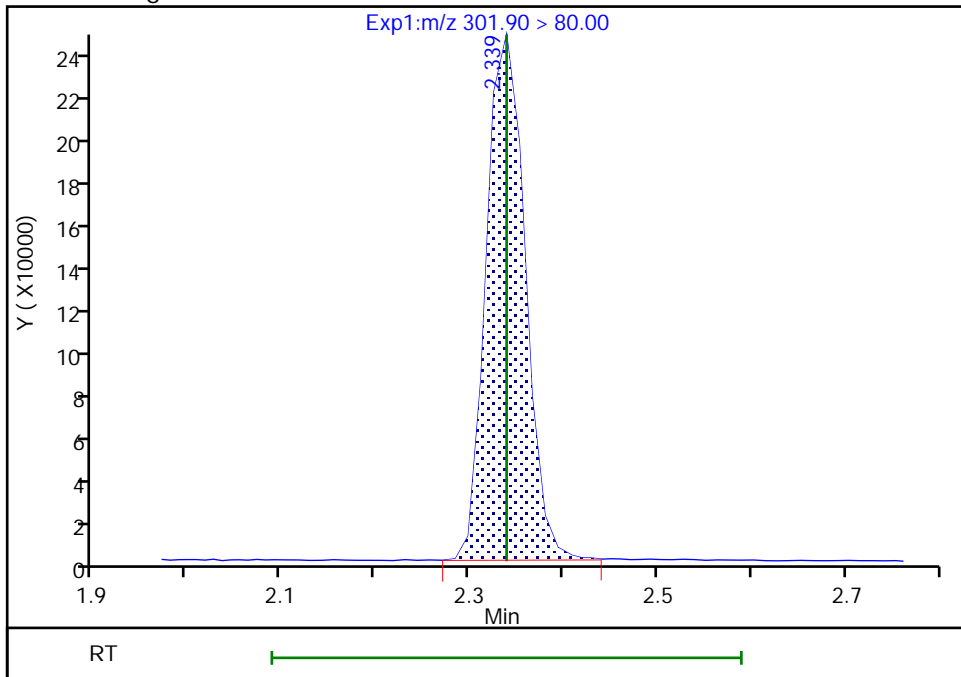
RT: 2.34  
Area: 715079  
Amount: 1.074403  
Amount Units: ng/ml

Processing Integration Results



RT: 2.34  
Area: 713375  
Amount: 1.071843  
Amount Units: ng/ml

Manual Integration Results



Reviewer: manopan, 01-Oct-2020 15:32:27  
Audit Action: Manually Integrated

Audit Reason: Incomplete Integration

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Instrument ID: LC812 Start Date: 09/22/2020 19:05

Analysis 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.: 480-175657-1

SDG No.: \_\_\_\_\_

Instrument ID: LC812 Start Date: 09/30/2020 13:49

Analysis Batch Number: 159389 End Date: 09/30/2020 14:30

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		09/30/2020 13:49	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 13:57	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 14:05	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 14:14	1		C-18 4.6 (mm)
CCVL 200-159389/5		09/30/2020 14:22	1	PA200930A05.d	C-18 4.6 (mm)
CCVIS 200-159389/6		09/30/2020 14:30	1	PA200930A06.d	C-18 4.6 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Instrument ID: LC812 Start Date: 09/30/2020 18:14

Analysis Batch Number: 159409 End Date: 09/30/2020 21:49

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
CCV 200-159409/1		09/30/2020 18:14	1	PA200930B01.d	C-18 4.6 (mm)
MB 200-159386/1-A		09/30/2020 18:22	1	PA200930B02.d	C-18 4.6 (mm)
LCS 200-159386/2-A		09/30/2020 18:30	1	PA200930B03.d	C-18 4.6 (mm)
ZZZZZ		09/30/2020 18:39	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 18:47	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 18:55	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 19:04	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 19:12	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 19:20	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 19:29	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 19:37	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 19:45	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 19:53	1		C-18 4.6 (mm)
CCV 200-159409/14		09/30/2020 20:02	1	PA200930B14.d	C-18 4.6 (mm)
ZZZZZ		09/30/2020 20:10	1		C-18 4.6 (mm)
ZZZZZ		09/30/2020 20:18	1		C-18 4.6 (mm)
480-175657-1	MW-1B	09/30/2020 20:27	1	PA200930B17.d	C-18 4.6 (mm)
480-175657-2	MW-3	09/30/2020 20:35	1	PA200930B18.d	C-18 4.6 (mm)
480-175657-3	MW-3B	09/30/2020 20:43	1	PA200930B19.d	C-18 4.6 (mm)
480-175657-4	MW-4	09/30/2020 20:51	1	PA200930B20.d	C-18 4.6 (mm)
480-175657-5	MW-5	09/30/2020 21:00	1	PA200930B21.d	C-18 4.6 (mm)
480-175657-6	MW-5B	09/30/2020 21:08	1	PA200930B22.d	C-18 4.6 (mm)
480-175657-6 MS	MW-5B MS	09/30/2020 21:16	1	PA200930B23.d	C-18 4.6 (mm)
480-175657-6 MSD	MW-5B MSD	09/30/2020 21:25	1	PA200930B24.d	C-18 4.6 (mm)
480-175657-7	DUPLICATE	09/30/2020 21:33	1	PA200930B25.d	C-18 4.6 (mm)
480-175657-8	EQUIPMENT BLANK	09/30/2020 21:41	1	PA200930B26.d	C-18 4.6 (mm)
CCV 200-159409/27		09/30/2020 21:49	1	PA200930B27.d	C-18 4.6 (mm)

LCMS ANALYSIS RUN LOG

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Instrument ID: LC812 Start Date: 10/01/2020 18:03

Analysis Batch Number: 159470 End Date: 10/01/2020 23:26

LAB SAMPLE ID	CLIENT SAMPLE ID	DATE ANALYZED	DILUTION FACTOR	LAB FILE ID	COLUMN ID
ZZZZZ		10/01/2020 18:03	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 18:12	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 18:20	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 18:28	1		C-18 4.6 (mm)
CCVL 200-159470/5		10/01/2020 18:36	1	PA201001A05.d	C-18 4.6 (mm)
CCVIS 200-159470/6		10/01/2020 18:45	1	PA201001A06.d	C-18 4.6 (mm)
ZZZZZ		10/01/2020 18:53	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 19:01	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 19:10	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 19:18	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 19:26	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 19:34	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 19:43	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 19:51	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 19:59	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 20:08	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 20:16	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 20:24	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 20:32	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 20:41	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 20:49	1		C-18 4.6 (mm)
CCV 200-159470/22		10/01/2020 20:57	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 21:06	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 21:14	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 21:22	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 21:30	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 21:39	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 21:47	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 21:55	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 22:04	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 22:12	1		C-18 4.6 (mm)
ZZZZZ		10/01/2020 22:20	1		C-18 4.6 (mm)
CCV 200-159470/33		10/01/2020 22:28	1	PA201001A33.d	C-18 4.6 (mm)
ZZZZZ		10/01/2020 22:53	2		C-18 4.6 (mm)
ZZZZZ		10/01/2020 23:01	20		C-18 4.6 (mm)
480-175657-1	MW-1B	10/01/2020 23:10	1	PA201001A38.d	C-18 4.6 (mm)
480-175657-2	MW-3	10/01/2020 23:18	1	PA201001A39.d	C-18 4.6 (mm)
CCV 200-159470/40		10/01/2020 23:26	1	PA201001A40.d	C-18 4.6 (mm)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Batch Number: 159386 Batch Start Date: 09/30/20 13:06 Batch Analyst: Chirgwin, Bradley W

Batch Method: 3535 Batch End Date: 09/30/20 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	GrossWeight	TareWeight	InitialAmount	FinalAmount	LCPFC32MTXStk 00026	LCPFCIDASPK 00003
MB 200-159386/1		3535, 537 (modified)		250 g	0 g	250 mL	10 mL		25 uL
LCS 200-159386/2		3535, 537 (modified)		250 g	0 g	250 mL	10 mL	25 uL	25 uL
480-175657-C-1	MW-1B	3535, 537 (modified)	T	320.84 g	26.67 g	294.2 mL	10 mL		25 uL
480-175657-C-2	MW-3	3535, 537 (modified)	T	328.54 g	26.05 g	302.5 mL	10 mL		25 uL
480-175657-C-3	MW-3B	3535, 537 (modified)	T	335.06 g	26.51 g	308.6 mL	10 mL		25 uL
480-175657-C-4	MW-4	3535, 537 (modified)	T	318.88 g	25.97 g	292.9 mL	10 mL		25 uL
480-175657-C-5	MW-5	3535, 537 (modified)	T	330.38 g	25.57 g	304.8 mL	10 mL		25 uL
480-175657-C-6	MW-5B	3535, 537 (modified)	T	327.15 g	25.75 g	301.4 mL	10 mL		25 uL
480-175657-C-6 MS	MW-5B	3535, 537 (modified)	T	337.68 g	26.79 g	310.9 mL	10 mL	25 uL	25 uL
480-175657-C-6 MSD	MW-5B	3535, 537 (modified)	T	335.57 g	26.20 g	309.4 mL	10 mL	25 uL	25 uL
480-175657-C-7	DUPLICATE	3535, 537 (modified)	T	318.78 g	27.89 g	290.9 mL	10 mL		25 uL
480-175657-C-8	EQUIPMENT BLANK	3535, 537 (modified)	T	330.81 g	25.98 g	304.8 mL	10 mL		25 uL

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00024	AnalysisComment				
MB 200-159386/1		3535, 537 (modified)		10 uL					
LCS 200-159386/2		3535, 537 (modified)		10 uL					
480-175657-C-1	MW-1B	3535, 537 (modified)	T	10 uL	Dried in oven. 284.58 g of sample extracted.				
480-175657-C-2	MW-3	3535, 537 (modified)	T	10 uL	Dried in oven. 291.73 g of sample extracted.				

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.

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Batch Number: 159386 Batch Start Date: 09/30/20 13:06 Batch Analyst: Chirgwin, Bradley W

Batch Method: 3535 Batch End Date: 09/30/20 15:45

Lab Sample ID	Client Sample ID	Method Chain	Basis	PFAS21 IS Stk 00024	AnalysisComment				
480-175657-C-3	MW-3B	3535, 537 (modified)	T	10 uL	Dried in oven. 295.53 g of sample extracted.				
480-175657-C-4	MW-4	3535, 537 (modified)	T	10 uL					
480-175657-C-5	MW-5	3535, 537 (modified)	T	10 uL	Dried in oven. 299.15 g of sample extracted.				
480-175657-C-6	MW-5B	3535, 537 (modified)	T	10 uL	Dried in oven. 294.87 g of sample extracted.				
480-175657-C-6 MS	MW-5B	3535, 537 (modified)	T	10 uL	Dried in oven. 303.54 g of sample extracted.				
480-175657-C-6 MSD	MW-5B	3535, 537 (modified)	T	10 uL	Dried in oven. 303.6 g of sample extracted.				
480-175657-C-7	DUPLICATE	3535, 537 (modified)	T	10 uL	Dried in oven. 284.49 g of sample extracted.				
480-175657-C-8	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)

LCMS BATCH WORKSHEET

Lab Name: Eurofins TestAmerica, Burlingt Job No.: 480-175657-1

SDG No.: \_\_\_\_\_

Batch Number: 159386 Batch Start Date: 09/30/20 13:06 Batch Analyst: Chirgwin, Bradley W

Batch Method: 3535 Batch End Date: 09/30/20 15:45

Batch Notes	
Balance ID	M02926
Manifold ID	IDA 3 & 4
Rinse Solvent Lot	1415604
Rinse Solvent Name	Hexane
Solvent Lot #	1427668
Solvent Name	Methanol (0.3% NH4OH)
SPE Cartridge Lot ID	Lot 005339338A
SPE Cartridge Type	Oasis WAX 500 mg
Analyst ID - Spike Analyst	NDD
Analyst ID - Spike Witness Analyst	KFW

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

**Client Information**  
 Client Contact: Brian Neumann  
 Lab P.M.: Stone, Judy L  
 E-Mail: Judy.Stone@Eurofinset.com  
 Company: Precision Environmental Services Inc.  
 Address: 831 State Route 67 Site 38  
 City: Ballston Spa  
 State, Zip: NY, 12020  
 Phone: [Blank]  
 Email: bneumann@pesnyinc.com  
 Project Name: Off-Site Flamingo Cleaners #C360078A  
 Site: [Blank]

Carrier Tracking No(s): 480-150050-33352.1  
 Page: Page 1 of 1  
 Job #: [Blank]

Due Date Requested: [Blank]  
 TAT Requested (days): [Blank]  
 PO #: [Blank] Callout ID: 139170  
 WO #: [Blank]  
 Project #: 48022689  
 SSOW#: [Blank]

Sample Identification	Sample Date	Sample Time	Sample Type (C=Comp, G=grab)	Matrix (W=water, S=solid, O=waste/oil, BT=tissue, A=air)	Field Filtered Sample (Yes or No)	Perform MS/MSD (Yes or No)	PFC, IDA - PFA's, Standard List (21 analytes)	8270D, SIM, MS, ID - 1,4-Dioxane (SIM)	Total Number	Special Instructions/Note:
MW-1B	9/24/2020	13:05	G	Water	X	X	N	2	2	
MW-3	9/24/2020	13:30	G	Water	X	X	N	2	2	
MW-3B	9/24/2020	12:30	G	Water	X	X	N	2	2	
MW-4	9/24/2020	15:11	G	Water	X	X	N	2	2	
MW-5	9/24/2020	10:55	G	Water	X	X	N	2	2	
MW-5B	9/24/2020	9:56	G	Water	X	X	N	2	2	
Duplicate	9/24/2020	11:05	G	Water	X	X	N	2	2	
MS	9/24/2020	10:05	G	Water	X	X	N	2	2	
MS/MSD	9/24/2020	10:15	G	Water	X	X	N	2	2	
Equip Blank	9/24/2020	13:30	G	Water	X	X	N	2	2	

**Possible Hazard Identification**  
 Non-Hazard  Flammable  Skin Irritant  Poison B  Unknown  Radiological  
 Deliverable Requested: I, II, III, IV, Other (specify) [Blank]

**Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)**  
 Return To Client  Disposal By Lab  Archive For \_\_\_\_\_ Months  
 Special Instructions/QC Requirements: [Blank]

**Empty Kit Relinquished by:** [Blank] Date: [Blank]

**Relinquished by:** [Signature] Date/Time: 9/24/2020 18:00 Company: PES  
**Relinquished by:** [Signature] Date/Time: 9/25/2020 07:15 Company: PES  
**Relinquished by:** [Signature] Date/Time: [Blank] Company: [Blank]

**Custody Seals Intact:**  Yes  No **Custody Seal No.:** [Blank]

**Received by:** [Signature] Date/Time: 9/24/2020 18:00 Company: PES  
**Received by:** [Signature] Date/Time: 9/25/2020 08:30 Company: PES  
**Received by:** [Signature] Date/Time: 9/24/2020 19:00 Company: PES

**Method of Shipment:** [Blank] Cooler Temperature(s) °C and Other Remarks: 3.8, 4.2 # 1 JCF

<b>Client Information</b>		Lab PM: Stone, Judy L		Carrier Tracking No(s): 480-150050-33352.1	
Client Contact: Brian Neumann		E-Mail: Judy.Stone@Eurofinset.com		Page: Page 1 of 1	
Company: Precision Environmental Services Inc.		Address: 831 State Route 67 Ste 38		Job #:	
City: Ballston Spa		TAT Requested (days):		Preservation Codes:	
State, Zip: NY, 12020		PO #: Callout ID: 139170		A - HCL B - NaOH C - Zn Acetate D - Nitric Acid E - NaHSO4 F - MeOH G - Amchlor H - Ascorbic Acid I - Ice J - DI Water K - EDTA L - EDA Other:	
Email: bneumann@pesnyinc.com		Project #: 48022689		M - Hexane N - None O - AsNaO2 P - Na2O4S Q - Na2SO3 R - Na2SO3 S - H2SO4 T - TSP Dodecahydrate U - Acetone V - MCAA W - pH 4-5 Z - other (specify)	
Off-Site Flamingo Cleaners #C360078A		SSOW#:		Special Instructions/Note:	
Site:		Sample Date		Total Number of containers	
Sample Identification		Sample Time		Field Filtered Sample (Yes or No)	
Matrix		Sample Type (C=Comp, G=grab)		Perform MS/MSD (Yes or No)	
MW-1B		9/24/2020 13:05		X	
MW-3		9/24/2020 13:30		X	
MW-3B		9/24/2020 15:11		X	
MW-4		9/24/2020 10:55		X	
MW-5		9/24/2020 9:56		X	
Duplicate		9/24/2020 11:05		X	
MS		9/24/2020 10:05		X	
MS/MSD		9/24/2020 10:15		X	
Frog Blank		9/24/2020 13:30		X	
Possible Hazard Identification		Sample Date		Sample Time	
<input checked="" type="checkbox"/> Non-Hazard <input type="checkbox"/> Flammable <input type="checkbox"/> Skin Irritant <input type="checkbox"/> Poison B <input type="checkbox"/> Unknown <input type="checkbox"/> Radiological		Date/Time: 9/24/2020 18:00		Date/Time: 9/24/2020 18:00	
Deliverable Requested: I, II, III, IV, Other (specify)		Date/Time: 9/25/2020 07:15		Date/Time: 9/25/2020 08:30	
Empty Kit Relinquished by:		Date/Time: 9/24/2020 18:00		Date/Time: 9/25/2020 08:30	
Relinquished by: Matty Bachur Mutt Rd		Date/Time: 9/25/2020 07:15		Date/Time: 9/26/2020 10:00	
Relinquished by: [Signature]		Date/Time: 9/25/2020 07:15		Date/Time: 9/26/2020 10:00	
Relinquished by: [Signature]		Date/Time: 9/25/2020 07:15		Date/Time: 9/26/2020 10:00	
Custody Seals Intact: <input type="checkbox"/> Yes <input type="checkbox"/> No		Custody Seal No.:		Cooler Temperature(s) °C and Other Remarks:	
Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)		Return To Client <input type="checkbox"/> Disposal By Lab <input type="checkbox"/> Archive For _____ Months		Special Instructions/QC Requirements:	
Barcode: 480-175657 Chain of Custody		Received by: [Signature]		Received by: [Signature]	
Company: PES		Company: PES		Company: PES	
Company: Eurofins		Company: Eurofins		Company: Eurofins	
Company: ETA		Company: ETA		Company: ETA	

ORIGIN ID: DSVÁ (518) 438-8140  
TIM KNOLLMEYER  
TESTAMERICA LAB INC  
25 KRAFT AVE

ALBANY, NY 12205  
UNITED STATES US

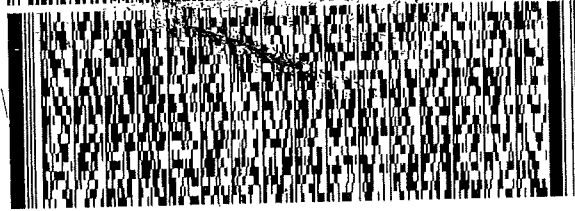
SHIP DATE: 25SEP20  
ACTWGT: 33.20 LB  
CAD: 0886598/CAFE3313  
DIMS: 21x14x11 IN

BILL THIRD PARTY

TO: **SAMPLE RECEIVING**  
**TESTAMERICA - BURLINGTON**  
**30 COMMUNITY DRIVE, SUITE 11**

**BURLINGTON VT 05403**

(802) 660-1990  
REF: PES



**FedEx**  
Express



J19121908200104

TRK# 1891 4486 2330  
0201

**SATURDAY 12:00P**  
**PRIORITY OVERNIGHT**

**XO BTVA**

**05403**  
VT-US **BTV**

Part # 153148-434 RIT EXP 09/19



# Login Sample Receipt Checklist

Client: New York State D.E.C.

Job Number: 480-175657-1

**Login Number: 175657**  
**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.	N/A	
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	PES
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: 480-175657-1

**Login Number: 175657**  
**List Number: 2**  
**Creator: Jaffe, Nat S**

**List Source: Eurofins TestAmerica, Burlington**  
**List Creation: 09/29/20 09:39 AM**

Question	Answer	Comment
Radioactivity wasn't checked or is <=/ 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	1248053
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	1.1°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	MB
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 <6mm (1/4").	True	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Attachment – DUSR





Geology

Hydrology

Remediation

Water Supply

October 16, 2020

Mr. Brian Neumann  
Project Manager  
Precision Environmental Services, Inc.  
Curtis Industrial Park  
831 Rt. 67, Lot 38A.  
Ballston Spa, New York 12020

Re: Data Usability Summary Report  
Flamingo Cleaners  
September 2020 Water Sampling Event

Dear Mr. Neumann:

The data usability summary report and data validation summaries are attached to this letter for the Flamingo Cleaners, September 2020 water sampling event. The data for Eurofins TestAmerica-Buffalo & Burlington, job number 480-175657-1 were mostly acceptable with some issues identified in the validation summary. There were 1,4-dioxane data that were qualified as rejected, unusable (R). The reason for rejecting the data are outlined in the DUSR and QA/QC review. The data is rejected based solely on the validation guidance criteria. The rejected data may be determined to be acceptable to the user based on additional information that is not contained in the data validation criteria.

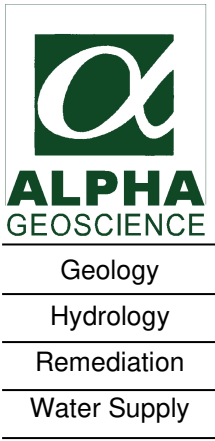
A list of common data validation acronyms and data validation qualifiers are attached to this letter to assist you interpreting the validation summaries. If you have any questions concerning the work performed, please contact me at (518) 348-6995. Thank you for the opportunity to assist Precision Environmental Services, Inc.

Sincerely,  
Alpha Geoscience

Donald Anné  
Senior Chemist

DCA:dca  
attachments

z:\projects\2020\20600-20620\20618-flamingo cleaners\flamingo cleaners-201.ltr.docx



**Data Usability Summary Report (DUSR) for  
TestAmerica Buffalo, Job Number: 480-175657-1**

**6 Ground Water Samples, 1 Field Duplicate,  
and 1 Equipment Blank  
Collected September 24, 2020**

Prepared by: Donald Anné  
October 16, 2020

---

The data package contains the documentation required by NYSDEC ASP. The proper chain of custody procedures were followed by the samplers. All information appears legible and complete. The data pack contained the results for 6 ground water samples, 1 field duplicate, and 1 equipment blank analyzed for PFAS and 1,4-dioxane.

The overall performances of the analyses are acceptable. Eurofins TestAmerica-Buffalo & Burlington did fulfill the requirements of the laboratory referenced analytical methods.

The data are acceptable with some issues that are identified in the accompanying data validation reviews. The following data were qualified:

- The positive semi-volatile result for 1,4-dioxane were qualified as “rejected, unusable” (R) in samples MW-1B, MW-3B, and DUPLICATE because the levels reported in the samples were not significantly greater than (more than 5 times) the unacceptable level in the equipment blank.
- The “not detected” PFAS results for PFUnA and NMeFOSAA were qualified as “estimated” (UJ) in sample MW-1B because percent recoveries for the surrogates associated with these PFAS were below QC limits, but not below 10% in the sample.
- The “not detected” PFAS results for PFUnA, NMeFOSAA, and NEtFOSAA were qualified as “estimated” (UJ) in sample MW-3 because percent recoveries for the surrogates associated with these PFAS were below QC limits, but not below 10% in the sample.
- The “not detected” PFAS result for NMeFOSAA was qualified as “estimated” (UJ) in sample MW-3B because percent recovery for the surrogate associated with NMeFOSAA was below QC limits, but not below 10% in the sample.

All data that are not qualified rejected, unusable (R) are considered usable with estimated (UJ) data associated with a higher level of quantitative uncertainty. Detailed information on data quality is included in the data validation reviews.

z:\projects\2020\20600-20620\20618-flamingo cleaners\480-175657-1.dus.docx



**QA/QC Review of Method 8270D SIM 1,4-Dioxane Data  
for Eurofins TestAmerica-Buffalo, Job No: 480-175657-1**

**6 Ground Water Samples, 1 Field Duplicate,  
and 1 Equipment Blank  
Collected September 24, 2020**

Prepared by: Donald Anné  
October 16, 2020

Geology  
Hydrology  
Remediation  
Water Supply

---

Holding Times: The samples were extracted and analyzed within USEPA SW-846 holding times.

GC/MS Tuning and Mass Calibration: The DFTPP tuning criteria were within control limits.

Initial Calibration: The average RRF for 1,4-dioxane was above the allowable minimum (0.010) and the %RSD was below the allowable maximum (30%), as required.

Continuing Calibration: The RRF for 1,4-dioxane was above the allowable minimum (0.010) and the %D was below the allowable maximum (20%), as required.

Blanks: The analysis of the method blank reported 1,4-dioxane as not detected.

The equipment blank contained 1,4-dioxane an un acceptable level above the reporting limit (0.41 ug/L). Positive results for 1,4-dioxane that are less than 5 times the equipment blank level should be reported as rejected, unusable (R) in associated samples.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Surrogate Recovery: The surrogate recoveries were within control limits for the ground water samples and equipment blank.

Matrix Spike/Matrix Spike Duplicate: The relative percent difference for 1,4-dioxane was below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample MW-5B.

Laboratory Control Sample: The percent recovery for 1,4-dioxane was within QC limits for aqueous sample LCS 480-551803/2-A.

Method 8270D SIM 1,4-Dioxane Data  
Job No: 480-175657-1

---

Field Duplicates: The analyses of aqueous field duplicate pair MW-5/DUPLICATE reported 1,4-dioxane as either not detected or below the lowest standard; therefore, a valid relative percent difference could not be calculated. The analyses for the field duplicate pair were acceptable.

Compound ID: Checked surrogates and 1,4-dioxane results were within quantitation limits.



**QA/QC Review of Method 537 (Modified) PFAS Data for  
Eurofins TestAmerica-Burlington, Job No: 480-175657-1**

**6 Ground Water Samples, 1 Field Duplicate,  
and 1 Equipment Blank  
Collected September 24, 2020**

Prepared by: Donald Anné  
October 16, 2020

- Geology
- Hydrology
- Remediation
- Water Supply

---

Holding Times: Samples were analyzed within USEPA holding times.

Initial Calibration: The %RSDs for applicable PFAS compounds were below the method maximums, as required.

Continuing Calibration: The %Ds for applicable PFAS compounds were below the allowable maximums, as required

Blanks: The analyses of method and equipment blanks reported tart PFAS as not detected.

Surrogate Recovery: One of eighteen surrogate recoveries for sample MW-3B were below QC limits, but not below 10%. Two of seventeen surrogate recoveries for sample MW-1B were below QC limits, but not below 10%. Three of seventeen surrogate recoveries for sample MW-3 were below QC limits, but not below 10%. Positive and “not detected” results associated with surrogates outside QC limits should be considered estimated (J or UJ respectively) in these samples.

Internal Standard Area Summary: The internal standard areas and retention times were within control limits.

Matrix Spike/Matrix Spike Duplicate: The relative percent differences for target PFAS were below the allowable maximum and the percent recoveries were within QC limits for aqueous MS/MSD sample MW-5B.

Laboratory Control Sample: The percent recoveries for target PFAS were within QC limits for aqueous sample LCS 200-159386/2-A.

Method 537 (Modified) Data  
Job No: 480-175657-1

---

Field Duplicate: The relative percent differences for applicable PFAS were below the allowable maximum (20%) for aqueous field duplicate pair MW-5/DUPLICATE (attached table), as required.

Compound ID: Checked compounds and surrogates were within LC quantitation limits.

## Data Validation Acronyms

AA	Atomic absorption, flame technique
BHC	Hexachlorocyclohexane
BFB	Bromofluorobenzene
CCB	Continuing calibration blank
CCC	Calibration check compound
CCV	Continuing calibration verification
CN	Cyanide
CRDL	Contract required detection limit
CRQL	Contract required quantitation limit
CVAA	Atomic adsorption, cold vapor technique
DCAA	2,4-Dichlophenylacetic acid
DCB	Decachlorobiphenyl
DFTPP	Decafluorotriphenyl phosphine
ECD	Electron capture detector
FAA	Atomic absorption, furnace technique
FID	Flame ionization detector
FNP	1-Fluoronaphthalene
GC	Gas chromatography
GC/MS	Gas chromatography/mass spectrometry
GPC	Gel permeation chromatography
ICB	Initial calibration blank
ICP	Inductively coupled plasma-atomic emission spectrometer
ICV	Initial calibration verification
IDL	Instrument detection limit
IS	Internal standard
LCS	Laboratory control sample
LCS/LCSD	Laboratory control sample/laboratory control sample duplicate
MSA	Method of standard additions
MS/MSD	Matrix spike/matrix spike duplicate
PID	Photo ionization detector
PCB	Polychlorinated biphenyl
PCDD	Polychlorinated dibenzodioxins
PCDF	Polychlorinated dibenzofurans
QA	Quality assurance
QC	Quality control
RF	Response factor
RPD	Relative percent difference
RRF	Relative response factor
RRF(number)	Relative response factor at concentration of the number following
RT	Retention time
RRT	Relative retention time
SDG	Sample delivery group
SPCC	System performance check compound
TCX	Tetrachloro-m-xylene
%D	Percent difference
%R	Percent recovery
%RSD	Percent relative standard deviation

## Data Validation Qualifiers Used in the QA/QC Reviews for USEPA Region II

- U = Not detected. The associated number indicates the approximate sample concentration necessary to be detected significantly greater than the level of the highest associated blank.
- R = Unreliable result; data is rejected or unusable. Analyte may or may not be present in the sample. Supporting data or information is necessary to confirm the result.
- N = Tentative identification. Analyte is considered present. Special methods may be needed to confirm its presence or absence during future sampling efforts.
- J = Analyte is present. Reported value may be associated with a higher level of uncertainty than is normally expected with the analytical method.
- J- = Analyte is present. Reported value may be biased low and associated with a higher level of uncertainty than is normally expected with the analytical method.
- J+ = Analyte is present. Reported value may be biased high and associated with a higher level of uncertainty than is normally expected with the analytical method.
- UJ = Not detected, quantitation limit may be inaccurate or imprecise.

Note: These qualifiers are used for data validation purposes. The data validation qualifiers may differ from the qualifiers that the laboratory assigns to the data. Refer to the laboratory analytical report for the definitions of the laboratory qualifiers.



## Polyfluorinated Alkyl Substances (PFAS) Acronyms

PFBA	Perfluorobutanoic acid
PFPeA	Perfluoropentanoic acid
PFHxA	Perfluorohexanoic acid
PFHpA	Perfluoroheptanoic acid
PFOA	Perfluorooctanoic acid
PFNA	Perfluorononanoic acid
PFDA	Perfluorodecanoic acid
PFOA	Perfluoroundecanoic acid
PFDoA	Perfluorododecanoic acid
PFTriA or PFTrDA	Perfluorotridecanoic acid
PFTeA or PFTA	Perfluorotetradecanoic acid
PFBS	Perfluorobutanesulfonic acid
PFPeS	Perfluoropentanesulfonic acid
PFHxS	Perfluorohexanesulfonic acid
PFHpS	Perfluoroheptanesulfonic acid
PFOS	Perfluorooctanesulfonic acid
PFNS	Perfluorononanesulfonic acid
PFDS	Perfluorodecanesulfonic acid
FOSA	Perfluorooctane Sulfonamide
NMeFOSAA	N-methyl perfluorooctane sulfonamidoacetic acid
NEtFOSAA	N-ethyl perfluorooctane sulfonamidoacetic acid
4:2 FTS or 4:2	1H, 1H, 2H, 2H-perfluorohexanesulfonic acid
6:2 FTS or 6:2	1H, 1H, 2H, 2H-perfluorooctanesulfonic acid or 6:2 Fluorotelomersulfonate
8:2 FTS or 8:2	1H, 1H, 2H, 2H-perfluorodecanesulfonic acid or 8:2 Fluorotelomersulfonate

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-1B**

**Lab Sample ID: 480-175657-1**

**Date Collected: 09/24/20 15:00**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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	0.098	J R	0.19	0.095	ug/L		09/30/20 08:35	10/02/20 03:37	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	24		15 - 110				09/30/20 08:35	10/02/20 03:37	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	9.9		4.2	0.96	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluoropentanoic acid (PFPeA)	22		1.7	0.92	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorohexanoic acid (PFHxA)	20		1.7	0.71	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorooctanoic acid (PFOA)	40		1.7	0.83	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorononanoic acid (PFNA)	5.9		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorodecanoic acid (PFDA)	0.74	J	1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluoroundecanoic acid (PFUnA)	ND	UJ	1.7	0.62	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.50	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorobutanesulfonic acid (PFBS)	5.7		1.7	0.54	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorohexanesulfonic acid (PFHxS)	7.8		1.7	0.57	ng/L		09/30/20 13:06	10/01/20 23:10	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.73	J	1.7	0.33	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorooctanesulfonic acid (PFOS)	13		1.7	0.74	ng/L		09/30/20 13:06	10/01/20 23:10	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41	ng/L		09/30/20 13:06	09/30/20 20:27	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.48	ng/L		09/30/20 13:06	09/30/20 20:27	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	UJ	4.2	0.67	ng/L		09/30/20 13:06	09/30/20 20:27	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.2	0.79	ng/L		09/30/20 13:06	09/30/20 20:27	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.2	0.61	ng/L		09/30/20 13:06	09/30/20 20:27	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.56	ng/L		09/30/20 13:06	09/30/20 20:27	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	75		50 - 150				09/30/20 13:06	10/01/20 23:10	1
13C4 PFHpA	79		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C4 PFOA	74		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C4 PFOS	55		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C4 PFOS	59		50 - 150				09/30/20 13:06	10/01/20 23:10	1
13C5 PFNA	65		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C4 PFBA	75		25 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFHxA	81		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFDA	53		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFUnA	47	*5	50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFDoA	52		50 - 150				09/30/20 13:06	09/30/20 20:27	1
13C8 FOSA	49		25 - 150				09/30/20 13:06	09/30/20 20:27	1
13C5 PFPeA	75		25 - 150				09/30/20 13:06	09/30/20 20:27	1
13C2 PFTeDA	61		50 - 150				09/30/20 13:06	09/30/20 20:27	1
d3-NMeFOSAA	46	*5	50 - 150				09/30/20 13:06	09/30/20 20:27	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-1B**

**Lab Sample ID: 480-175657-1**

**Date Collected: 09/24/20 15:00**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
d5-NEtFOSAA	57		50 - 150	09/30/20 13:06	09/30/20 20:27	1
M2-6:2 FTS	80		25 - 150	09/30/20 13:06	09/30/20 20:27	1
M2-8:2 FTS	59		25 - 150	09/30/20 13:06	09/30/20 20:27	1
13C3 PFBS	76		50 - 150	09/30/20 13:06	09/30/20 20:27	1

**Client Sample ID: MW-3**

**Lab Sample ID: 480-175657-2**

**Date Collected: 09/24/20 13:05**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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		09/30/20 08:35	10/02/20 04:00	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
1,4-Dioxane-d8	26		15 - 110	09/30/20 08:35	10/02/20 04:00	1			

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	12		4.1	0.93	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluoropentanoic acid (PFPeA)	29		1.7	0.89	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorohexanoic acid (PFHxA)	20		1.7	0.69	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluoroheptanoic acid (PFHpA)	11		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorooctanoic acid (PFOA)	16		1.7	0.81	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorononanoic acid (PFNA)	5.1		1.7	0.48	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorodecanoic acid (PFDA)	2.5		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluoroundecanoic acid (PFUnA)	ND	UJ	1.7	0.60	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.36	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorobutanesulfonic acid (PFBS)	10		1.7	0.52	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorohexanesulfonic acid (PFHxS)	3.9		1.7	0.55	ng/L		09/30/20 13:06	10/01/20 23:18	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.82	J	1.7	0.32	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorooctanesulfonic acid (PFOS)	54		1.7	0.72	ng/L		09/30/20 13:06	10/01/20 23:18	1
Perfluorodecanesulfonic acid (PFDS)	0.62	J	1.7	0.40	ng/L		09/30/20 13:06	09/30/20 20:35	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.47	ng/L		09/30/20 13:06	09/30/20 20:35	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	UJ	4.1	0.65	ng/L		09/30/20 13:06	09/30/20 20:35	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND	UJ	4.1	0.77	ng/L		09/30/20 13:06	09/30/20 20:35	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.60	ng/L		09/30/20 13:06	09/30/20 20:35	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.55	ng/L		09/30/20 13:06	09/30/20 20:35	1
Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac			
18O2 PFHxS	87		50 - 150	09/30/20 13:06	10/01/20 23:18	1			
13C4 PFHpA	86		50 - 150	09/30/20 13:06	09/30/20 20:35	1			
13C4 PFOA	87		50 - 150	09/30/20 13:06	09/30/20 20:35	1			
13C4 PFOS	56		50 - 150	09/30/20 13:06	09/30/20 20:35	1			

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-3**  
**Date Collected: 09/24/20 13:05**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-2**  
**Matrix: Water**

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
13C4 PFOS	58		50 - 150	09/30/20 13:06	10/01/20 23:18	1
13C5 PFNA	66		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C4 PFBA	66		25 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFHxA	85		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFDA	51		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFUnA	48	*5	50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFDoA	50		50 - 150	09/30/20 13:06	09/30/20 20:35	1
13C8 FOSA	45		25 - 150	09/30/20 13:06	09/30/20 20:35	1
13C5 PFPeA	82		25 - 150	09/30/20 13:06	09/30/20 20:35	1
13C2 PFTeDA	57		50 - 150	09/30/20 13:06	09/30/20 20:35	1
d3-NMeFOSAA	46	*5	50 - 150	09/30/20 13:06	09/30/20 20:35	1
d5-NEtFOSAA	48	*5	50 - 150	09/30/20 13:06	09/30/20 20:35	1
M2-6:2 FTS	89		25 - 150	09/30/20 13:06	09/30/20 20:35	1
M2-8:2 FTS	56		25 - 150	09/30/20 13:06	09/30/20 20:35	1
13C3 PFBS	88		50 - 150	09/30/20 13:06	09/30/20 20:35	1

**Client Sample ID: MW-3B**  
**Date Collected: 09/24/20 12:30**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-3**  
**Matrix: Water**

**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	0.24	R	0.19	0.095	ug/L		09/30/20 08:35	10/02/20 04:22	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	21		15 - 110	09/30/20 08:35	10/02/20 04:22	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	6.4		4.1	0.92	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluoropentanoic acid (PFPeA)	12		1.6	0.87	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorohexanoic acid (PFHxA)	11		1.6	0.67	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluoroheptanoic acid (PFHpA)	9.1		1.6	0.37	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorooctanoic acid (PFOA)	32		1.6	0.79	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorononanoic acid (PFNA)	2.2		1.6	0.47	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorodecanoic acid (PFDA)	0.44	J	1.6	0.37	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluoroundecanoic acid (PFUnA)	0.68	J	1.6	0.59	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.37	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorobutanesulfonic acid (PFBS)	4.7		1.6	0.51	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorohexanesulfonic acid (PFHxS)	8.4		1.6	0.54	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.71	J	1.6	0.32	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorooctanesulfonic acid (PFOS)	14		1.6	0.70	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/30/20 13:06	09/30/20 20:43	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.46	ng/L		09/30/20 13:06	09/30/20 20:43	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-3B**

**Lab Sample ID: 480-175657-3**

**Date Collected: 09/24/20 12:30**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND	UJ	4.1	0.64	ng/L		09/30/20 13:06	09/30/20 20:43	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.75	ng/L		09/30/20 13:06	09/30/20 20:43	1
<b>1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)</b>	<b>2.2</b>	<b>J</b>	4.1	0.58	ng/L		09/30/20 13:06	09/30/20 20:43	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.53	ng/L		09/30/20 13:06	09/30/20 20:43	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	57		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C4 PFHpA	62		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C4 PFOA	58		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C4 PFOS	50		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C5 PFNA	50		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C4 PFBA	49		25 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFHxA	59		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFDA	51		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFUnA	96		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFDoA	85		50 - 150				09/30/20 13:06	09/30/20 20:43	1
13C8 FOSA	26		25 - 150				09/30/20 13:06	09/30/20 20:43	1
13C5 PFPeA	60		25 - 150				09/30/20 13:06	09/30/20 20:43	1
13C2 PFTeDA	55		50 - 150				09/30/20 13:06	09/30/20 20:43	1
d3-NMeFOSAA	44	*5	50 - 150				09/30/20 13:06	09/30/20 20:43	1
d5-NEtFOSAA	126		50 - 150				09/30/20 13:06	09/30/20 20:43	1
M2-6:2 FTS	62		25 - 150				09/30/20 13:06	09/30/20 20:43	1
M2-8:2 FTS	59		25 - 150				09/30/20 13:06	09/30/20 20:43	1
13C3 PFBS	55		50 - 150				09/30/20 13:06	09/30/20 20:43	1

**Client Sample ID: MW-4**

**Lab Sample ID: 480-175657-4**

**Date Collected: 09/24/20 15:11**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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		09/30/20 08:35	10/02/20 04:45	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	24		15 - 110				09/30/20 08:35	10/02/20 04:45	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	26		4.3	0.96	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluoropentanoic acid (PFPeA)	27		1.7	0.92	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorohexanoic acid (PFHxA)	39		1.7	0.71	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorooctanoic acid (PFOA)	43		1.7	0.84	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorononanoic acid (PFNA)	2.8		1.7	0.50	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorodecanoic acid (PFDA)	0.84	J	1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.62	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.39	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.50	ng/L		09/30/20 13:06	09/30/20 20:51	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-4**  
**Date Collected: 09/24/20 15:11**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-4**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.54	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorohexanesulfonic acid (PFHxS)	8.5		1.7	0.57	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.46	J	1.7	0.33	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorooctanesulfonic acid (PFOS)	16		1.7	0.74	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41	ng/L		09/30/20 13:06	09/30/20 20:51	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 20:51	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.67	ng/L		09/30/20 13:06	09/30/20 20:51	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.79	ng/L		09/30/20 13:06	09/30/20 20:51	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	1.1	J	4.3	0.61	ng/L		09/30/20 13:06	09/30/20 20:51	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.56	ng/L		09/30/20 13:06	09/30/20 20:51	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	106		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C4 PFHpA	101		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C4 PFOA	101		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C4 PFOS	88		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C5 PFNA	94		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C4 PFBA	62		25 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFHxA	99		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFDA	82		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFUnA	72		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFDoA	68		50 - 150	09/30/20 13:06	09/30/20 20:51	1
13C8 FOSA	77		25 - 150	09/30/20 13:06	09/30/20 20:51	1
13C5 PFPeA	87		25 - 150	09/30/20 13:06	09/30/20 20:51	1
13C2 PFTeDA	77		50 - 150	09/30/20 13:06	09/30/20 20:51	1
d3-NMeFOSAA	73		50 - 150	09/30/20 13:06	09/30/20 20:51	1
d5-NEtFOSAA	73		50 - 150	09/30/20 13:06	09/30/20 20:51	1
M2-6:2 FTS	110		25 - 150	09/30/20 13:06	09/30/20 20:51	1
M2-8:2 FTS	88		25 - 150	09/30/20 13:06	09/30/20 20:51	1
13C3 PFBS	95		50 - 150	09/30/20 13:06	09/30/20 20:51	1

**Client Sample ID: MW-5**  
**Date Collected: 09/24/20 10:55**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-5**  
**Matrix: Water**

**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		09/30/20 08:35	10/02/20 05:08	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	49		15 - 110	09/30/20 08:35	10/02/20 05:08	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	20		4.1	0.93	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluoropentanoic acid (PFPeA)	21		1.6	0.89	ng/L		09/30/20 13:06	09/30/20 21:00	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-5**  
**Date Collected: 09/24/20 10:55**  
**Date Received: 09/26/20 08:00**

**Lab Sample ID: 480-175657-5**  
**Matrix: Water**

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorohexanoic acid (PFHxA)	18		1.6	0.68	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluoroheptanoic acid (PFHpA)	14		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorooctanoic acid (PFOA)	56		1.6	0.80	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorononanoic acid (PFNA)	3.3		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.60	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorobutanesulfonic acid (PFBS)	25		1.6	0.52	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorohexanesulfonic acid (PFHxS)	4.8		1.6	0.55	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.3	J	1.6	0.32	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorooctanesulfonic acid (PFOS)	53		1.6	0.71	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/30/20 13:06	09/30/20 21:00	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.47	ng/L		09/30/20 13:06	09/30/20 21:00	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.65	ng/L		09/30/20 13:06	09/30/20 21:00	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.76	ng/L		09/30/20 13:06	09/30/20 21:00	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.59	ng/L		09/30/20 13:06	09/30/20 21:00	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.54	ng/L		09/30/20 13:06	09/30/20 21:00	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	93		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C4 PFHpA	90		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C4 PFOA	91		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C4 PFOS	70		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C5 PFNA	78		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C4 PFBA	65		25 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFHxA	89		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFDA	71		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFUnA	69		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFDoA	66		50 - 150				09/30/20 13:06	09/30/20 21:00	1
13C8 FOSA	53		25 - 150				09/30/20 13:06	09/30/20 21:00	1
13C5 PFPeA	82		25 - 150				09/30/20 13:06	09/30/20 21:00	1
13C2 PFTeDA	64		50 - 150				09/30/20 13:06	09/30/20 21:00	1
d3-NMeFOSAA	68		50 - 150				09/30/20 13:06	09/30/20 21:00	1
d5-NEtFOSAA	66		50 - 150				09/30/20 13:06	09/30/20 21:00	1
M2-6:2 FTS	100		25 - 150				09/30/20 13:06	09/30/20 21:00	1
M2-8:2 FTS	71		25 - 150				09/30/20 13:06	09/30/20 21:00	1
13C3 PFBS	87		50 - 150				09/30/20 13:06	09/30/20 21:00	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-5B**

**Lab Sample ID: 480-175657-6**

**Date Collected: 09/24/20 09:56**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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		09/30/20 08:35	10/02/20 03:14	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	25		15 - 110				09/30/20 08:35	10/02/20 03:14	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	16		4.1	0.94	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluoropentanoic acid (PFPeA)	16		1.7	0.90	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorohexanoic acid (PFHxA)	13		1.7	0.69	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluoroheptanoic acid (PFHpA)	12		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorooctanoic acid (PFOA)	39		1.7	0.81	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorononanoic acid (PFNA)	5.3		1.7	0.48	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.61	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.38	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.36	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorobutanesulfonic acid (PFBS)	17		1.7	0.52	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorohexanesulfonic acid (PFHxS)	3.1		1.7	0.56	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluoroheptanesulfonic Acid (PFHpS)	0.49 J		1.7	0.32	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorooctanesulfonic acid (PFOS)	30		1.7	0.72	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.40	ng/L		09/30/20 13:06	09/30/20 21:08	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.47	ng/L		09/30/20 13:06	09/30/20 21:08	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.66	ng/L		09/30/20 13:06	09/30/20 21:08	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.77	ng/L		09/30/20 13:06	09/30/20 21:08	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	0.92 J		4.1	0.60	ng/L		09/30/20 13:06	09/30/20 21:08	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.55	ng/L		09/30/20 13:06	09/30/20 21:08	1
Isotope Dilution	%Recovery	Qualifier	Limits				Prepared	Analyzed	Dil Fac
18O2 PFHxS	97		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C4 PFHpA	96		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C4 PFOA	96		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C4 PFOS	84		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C5 PFNA	83		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C4 PFBA	86		25 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFHxA	96		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFDA	81		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFUnA	80		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFDoA	77		50 - 150				09/30/20 13:06	09/30/20 21:08	1
13C8 FOSA	55		25 - 150				09/30/20 13:06	09/30/20 21:08	1
13C5 PFPeA	95		25 - 150				09/30/20 13:06	09/30/20 21:08	1
13C2 PFTeDA	71		50 - 150				09/30/20 13:06	09/30/20 21:08	1
d3-NMeFOSAA	68		50 - 150				09/30/20 13:06	09/30/20 21:08	1
d5-NEtFOSAA	78		50 - 150				09/30/20 13:06	09/30/20 21:08	1



# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: MW-5B**

**Lab Sample ID: 480-175657-6**

**Date Collected: 09/24/20 09:56**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

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

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
M2-6:2 FTS	102		25 - 150	09/30/20 13:06	09/30/20 21:08	1
M2-8:2 FTS	86		25 - 150	09/30/20 13:06	09/30/20 21:08	1
13C3 PFBS	93		50 - 150	09/30/20 13:06	09/30/20 21:08	1

**Client Sample ID: DUPLICATE**

**Lab Sample ID: 480-175657-7**

**Date Collected: 09/24/20 12:05**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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	0.12	J R	0.19	0.095	ug/L		09/30/20 08:35	10/02/20 05:30	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,4-Dioxane-d8	27		15 - 110	09/30/20 08:35	10/02/20 05:30	1

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Perfluorobutanoic acid (PFBA)	20		4.3	0.97	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluoropentanoic acid (PFPeA)	22		1.7	0.93	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorohexanoic acid (PFHxA)	17		1.7	0.71	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluoroheptanoic acid (PFHpA)	14		1.7	0.40	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorooctanoic acid (PFOA)	51		1.7	0.84	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorononanoic acid (PFNA)	3.0		1.7	0.50	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorodecanoic acid (PFDA)	ND		1.7	0.40	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluoroundecanoic acid (PFUnA)	ND		1.7	0.63	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorododecanoic acid (PFDoA)	ND		1.7	0.40	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorotridecanoic acid (PFTriA)	ND		1.7	0.37	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.7	0.51	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorobutanesulfonic acid (PFBS)	28		1.7	0.54	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorohexanesulfonic acid (PFHxS)	5.2		1.7	0.58	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluoroheptanesulfonic Acid (PFHpS)	1.1	J	1.7	0.34	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorooctanesulfonic acid (PFOS)	51		1.7	0.75	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.7	0.41	ng/L		09/30/20 13:06	09/30/20 21:33	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.7	0.49	ng/L		09/30/20 13:06	09/30/20 21:33	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.3	0.68	ng/L		09/30/20 13:06	09/30/20 21:33	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.3	0.80	ng/L		09/30/20 13:06	09/30/20 21:33	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.3	0.62	ng/L		09/30/20 13:06	09/30/20 21:33	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.7	0.57	ng/L		09/30/20 13:06	09/30/20 21:33	1

Isotope Dilution	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
18O2 PFHxS	96		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C4 PFHpA	91		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C4 PFOA	96		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C4 PFOS	88		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C5 PFNA	94		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C4 PFBA	71		25 - 150	09/30/20 13:06	09/30/20 21:33	1

Eurofins TestAmerica, Buffalo

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: DUPLICATE**

**Lab Sample ID: 480-175657-7**

**Date Collected: 09/24/20 12:05**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

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

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
13C2 PFHxA	97		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C2 PFDA	88		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C2 PFUnA	76		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C2 PFDoA	74		50 - 150	09/30/20 13:06	09/30/20 21:33	1
13C8 FOSA	54		25 - 150	09/30/20 13:06	09/30/20 21:33	1
13C5 PFPeA	87		25 - 150	09/30/20 13:06	09/30/20 21:33	1
13C2 PFTeDA	75		50 - 150	09/30/20 13:06	09/30/20 21:33	1
d3-NMeFOSAA	74		50 - 150	09/30/20 13:06	09/30/20 21:33	1
d5-NEtFOSAA	67		50 - 150	09/30/20 13:06	09/30/20 21:33	1
M2-6:2 FTS	109		25 - 150	09/30/20 13:06	09/30/20 21:33	1
M2-8:2 FTS	96		25 - 150	09/30/20 13:06	09/30/20 21:33	1
13C3 PFBS	93		50 - 150	09/30/20 13:06	09/30/20 21:33	1

**Client Sample ID: EQUIPMENT BLANK**

**Lab Sample ID: 480-175657-8**

**Date Collected: 09/24/20 13:30**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

**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>
1,4-Dioxane	0.41		0.19	0.095	ug/L		09/30/20 08:35	10/02/20 05:53	1

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
1,4-Dioxane-d8	28		15 - 110	09/30/20 08:35	10/02/20 05:53	1

**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>
Perfluorobutanoic acid (PFBA)	ND		4.1	0.93	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluoropentanoic acid (PFPeA)	ND		1.6	0.89	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorohexanoic acid (PFHxA)	ND		1.6	0.68	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluoroheptanoic acid (PFHpA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorooctanoic acid (PFOA)	ND		1.6	0.80	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorononanoic acid (PFNA)	ND		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorodecanoic acid (PFDA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluoroundecanoic acid (PFUnA)	ND		1.6	0.60	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorododecanoic acid (PFDoA)	ND		1.6	0.38	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorotridecanoic acid (PFTriA)	ND		1.6	0.35	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorotetradecanoic acid (PFTeA)	ND		1.6	0.48	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorobutanesulfonic acid (PFBS)	ND		1.6	0.52	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorohexanesulfonic acid (PFHxS)	ND		1.6	0.55	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluoroheptanesulfonic Acid (PFHpS)	ND		1.6	0.32	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorooctanesulfonic acid (PFOS)	ND		1.6	0.71	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorodecanesulfonic acid (PFDS)	ND		1.6	0.39	ng/L		09/30/20 13:06	09/30/20 21:41	1
Perfluorooctanesulfonamide (PFOSA)	ND		1.6	0.47	ng/L		09/30/20 13:06	09/30/20 21:41	1
N-methylperfluorooctanesulfonamidoacetic acid (NMeFOSAA)	ND		4.1	0.65	ng/L		09/30/20 13:06	09/30/20 21:41	1
N-ethylperfluorooctanesulfonamidoacetic acid (NEtFOSAA)	ND		4.1	0.76	ng/L		09/30/20 13:06	09/30/20 21:41	1
1H,1H,2H,2H-perfluorooctanesulfonic acid (6:2)	ND		4.1	0.59	ng/L		09/30/20 13:06	09/30/20 21:41	1
1H,1H,2H,2H-perfluorodecanesulfonic acid (8:2)	ND		1.6	0.54	ng/L		09/30/20 13:06	09/30/20 21:41	1

# Client Sample Results

Client: New York State D.E.C.  
Project/Site: Off-Site Flamingo Cleaners #C360078A

Job ID: 480-175657-1

**Client Sample ID: EQUIPMENT BLANK**

**Lab Sample ID: 480-175657-8**

**Date Collected: 09/24/20 13:30**

**Matrix: Water**

**Date Received: 09/26/20 08:00**

<i>Isotope Dilution</i>	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Dil Fac</i>
18O2 PFHxS	102		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C4 PFHpA	100		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C4 PFOA	98		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C4 PFOS	97		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C5 PFNA	99		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C4 PFBA	112		25 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFHxA	107		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFDA	95		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFUnA	83		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFDoA	76		50 - 150	09/30/20 13:06	09/30/20 21:41	1
13C8 FOSA	68		25 - 150	09/30/20 13:06	09/30/20 21:41	1
13C5 PFPeA	105		25 - 150	09/30/20 13:06	09/30/20 21:41	1
13C2 PFTeDA	67		50 - 150	09/30/20 13:06	09/30/20 21:41	1
d3-NMeFOSAA	78		50 - 150	09/30/20 13:06	09/30/20 21:41	1
d5-NEtFOSAA	91		50 - 150	09/30/20 13:06	09/30/20 21:41	1
M2-6:2 FTS	101		25 - 150	09/30/20 13:06	09/30/20 21:41	1
M2-8:2 FTS	99		25 - 150	09/30/20 13:06	09/30/20 21:41	1
13C3 PFBS	95		50 - 150	09/30/20 13:06	09/30/20 21:41	1

# EPA Method 537 PFC

## Calculations for Field Duplicate Relative Percent Difference (RPD) SDG No. 480-175657-1

	S1=	MW-5	S2=	DUPLICATE
<u>Analyte</u>	<u>S1</u>		<u>S2</u>	<u>RPD (%)</u>
Perfluorobutanoic acid (PFBA)	20		20	0%
Perfluoropentanoic acid (PFPeA)	21		22	5%
Perfluoropentanoic acid (PFPeA)	18		17	6%
Perfluoroheptanoic acid (PFHpA)	14		14	0%
Perfluorooctanoic acid (PFOA)	56		51	9%
Perfluorononanoic acid (PFNA)	3.3		3.0	10%
Perfluorobutanesulfonic acid (PFBS)	25		28	11%
Perfluorohexanesulfonic acid (PFHxS)	4.8		5.2	8%
Perfluoroheptanesulfonic Acid (PFHpS)	<b>1.3</b>		<b>1.1</b>	NC
Perfluorooctanesulfonic acid (PFOS)	53		51	4%

\* RPD is above the allowable maximum (20%)

All results are in ng/L.

**Bold numbers were values that are below the CRQL or above the high standard.**

ND - Not detected.

NC - Not calculated, both results must be within the linear range for valid RPDs to be calculated.

## Semi-Volatiles (SIM)

**Calculations for Field Duplicate Relative Percent Difference (RPD)**  
SDG No. 480-175657-1

<u>Analyte</u>	<u>S1</u>	<u>S2</u>	<u>RPD (%)</u>
1,4-Dioxane	ND	<b>0.12</b>	NC

\* RPD is above the allowable maximum (20%)

Results are in units of ug/L.

**Bold numbers were values that are below the CRQL.**

ND - Not detected.

NC - Not calculated, both results must be above the CRDL for valid RPDs to be calculated.

FORM II  
LCMS SURROGATE RECOVERY

Lab Name: Eurofins TestAmerica, Burlington Job No.: 480-175657-1

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 #	C4PFHA #	M262FTS #	PFOA #	PFOS #
MW-1B	480-175657-1	75	75	76	81	79	80	74	55
MW-3	480-175657-2	66	82	88	85	86	89	87	56

PFBA = 13C4 PFBA  
 PFPeA = 13C5 PFPeA  
 C3PFBS = 13C3 PFBS  
 PFHxA = 13C2 PFHxA  
 C4PFHA = 13C4 PFHpA  
 M262FTS = M2-6:2 FTS  
 PFOA = 13C4 PFOA  
 PFOS = 13C4 PFOS

QC LIMITS

25-150  
 25-150  
 50-150  
 50-150  
 50-150  
 25-150  
 50-150  
 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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFNA #	PFDA #	M282FTS #	PFOSA #	d3NMFOS #	PFUnA #	d5NEFOS #	PFDoA #
MW-1B	480-175657-1	65	53	59	49	46 *5	47 *5	57	52
MW-3	480-175657-2	66	51	56	45	46 *5	48 *5	48 *5	50

PFNA = 13C5 PFNA  
 PFDA = 13C2 PFDA  
 M282FTS = M2-8:2 FTS  
 PFOSA = 13C8 FOSA  
 d3NMFOS = d3-NMeFOSAA  
 PFUnA = 13C2 PFUnA  
 d5NEFOS = d5-NEtFOSAA  
 PFDoA = 13C2 PFDoA

QC LIMITS

50-150  
 50-150  
 25-150  
 25-150  
 50-150  
 50-150  
 50-150  
 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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFTDA #
MW-1B	480-175657-1	61
MW-3	480-175657-2	57

PFTDA = 13C2 PFTeDA

QC LIMITS  
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.: 480-175657-1

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 #
MW-3B	480-175657-3	49	60	55	59	57	62	62	58
MW-4	480-175657-4	62	87	95	99	106	101	110	101
MW-5	480-175657-5	65	82	87	89	93	90	100	91
MW-5B	480-175657-6	86	95	93	96	97	96	102	96
DUPLICATE	480-175657-7	71	87	93	97	96	91	109	96
EQUIPMENT BLANK	480-175657-8	112	105	95	107	102	100	101	98
	MB 200-159386/1-A	119	110	106	110	107	105	111	104
	LCS 200-159386/2-A	108	102	99	105	96	101	95	93
MW-5B MS	480-175657-6 MS	83	93	94	98	94	97	106	99
MW-5B MSD	480-175657-6 MSD	86	94	92	97	98	100	113	96

	<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.: 480-175657-1

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 #	PFUnA #	d5NEFOS #
MW-3B	480-175657-3	50	50	51	59	26	44 *5	96	126
MW-4	480-175657-4	88	94	82	88	77	73	72	73
MW-5	480-175657-5	70	78	71	71	53	68	69	66
MW-5B	480-175657-6	84	83	81	86	55	68	80	78
DUPLICATE	480-175657-7	88	94	88	96	54	74	76	67
EQUIPMENT BLANK	480-175657-8	97	99	95	99	68	78	83	91
	MB 200-159386/1-A	105	108	102	103	51	90	80	76
	LCS 200-159386/2-A	100	96	90	89	63	83	84	79
MW-5B MS	480-175657-6 MS	89	92	93	80	59	66	85	86
MW-5B MSD	480-175657-6 MSD	88	95	86	92	55	72	81	74

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
PFUnA = 13C2 PFUnA	50-150
d5NEFOS = d5-NEtFOSAA	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.: 480-175657-1

SDG No.: \_\_\_\_\_

Matrix: Water Level: Low

GC Column (1): C-18 ID: 4.6 (mm)

Client Sample ID	Lab Sample ID	PFDa #	PFTDA #
MW-3B	480-175657-3	85	55
MW-4	480-175657-4	68	77
MW-5	480-175657-5	66	64
MW-5B	480-175657-6	77	71
DUPLICATE	480-175657-7	74	75
EQUIPMENT BLANK	480-175657-8	76	67
	MB 200-159386/1-A	54	48 *5
	LCS 200-159386/2-A	68	65
MW-5B MS	480-175657-6 MS	84	67
MW-5B MSD	480-175657-6 MSD	80	69

PFDa = 13C2 PFDa  
PFTDA = 13C2 PFTeDA

QC LIMITS  
50-150  
50-150

# Column to be used to flag recovery values

FORM II 537 (modified)